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EL 59/94
17 JAN 1996
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EL [REDACTED]

MT AGNEW

ANNUAL REPORT

FEBRUARY 17 1995
to
JANUARY 10, 1996

LICENSEE: David Cameron Lane
PO Box 44
ZEEHAN TAS 7469

AUTHOR: David Lane

DATE OF REPORT: January 15, 1995

96-3825

ANNUAL REPORT EL 59/94 MT AGNEW 1995-96 -
LANE D C

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1. LIST OF FIGURES
1. Locality Map
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2. TENEMENT INFORMATION

EL 59/94 was issued to David Lane on February 17, 1995. A plan of the Licence area and locality map is shown in Figure 1.

The Licence area comprises 36 square kilometres of unoccupied Crown Land and State Forest - Multiple Use Forest Land.

3. SUMMARY OF WORK COMPLETED

3.1 General

Reconnaissance surveys were carried out at Sweeney's Mine, Montague Mine, Allison's Workings, Federation Mine, Globe Mine, Anomalies 1 and 4, Agnew Grid, and the North West and Granite Anomalies. The main work areas are outlined below:

3.2 Allison' Workings

Geological mapping and sampling was carried out. No significant mineralisation was identified.

3.3 Sweeney's Mine

Geological mapping and rockchip sampling was carried out. Re-assaying of some drill core intersections was carried out. Some rockchip and drill core samples were also sent for neutron-activation analysis.

3.4 Anomaly 1, Agnew Grid

Reconnaissance mapping and rock chip sampling was carried out.

3.5 Granite and North West Anomalies

A reconnaissance survey was made to this area. The area is remote and rugged. No significant mineralisation was located.

4. DETAILS OF SURVEYS

4.1 Allison's Workings

Old workings include two shafts, an adit and several trenches. Later, an open pit was excavated into the adit. Klominsky 1972 reported an occurrence of columbite in quartz-tourmaline vein structures in a trench at this locality.

The open pit has been excavated into a zone of intense hematitic and argillic alteration in medium-coarse grained white granite.

The hematite alteration is specularite-rich. Surrounding the Fe alteration is a zone of illite-smectite alteration, grading into relatively unaltered white granite. No sulphide mineralisation was seen.

The hematite alteration was the only form of mineralisation identified. All quartz veins examined were barren, and no tantalite-columbite mineralisation was found.

Assay summary is included in Table I.

Sample ID	% Sn	% Fe	% S	% WO ₃
Quartz veins:				
AW1	0.01	1.5	<0.1	0.02
AW3	<0.01	1.6	<0.1	0.01
AW4	0.01	2.7	<0.1	0.01
Hematitic alteration:				
AW2	<0.01	8.8	<0.1	0.01
AW5	0.02	21.3	<0.1	0.02
AW6	0.01	29.9	<0.1	0.03

Table I: Assay Summary - Allison's Workings

4.2 Sweeney's Mine

Coarse-grained red biotite granite has undergone varying degrees of alteration. Aplitic dykes intrude the red granite.

Old workings comprise a main adit and drive about 60m in length, and a number of shallow trenches and adits on the hillside above the main adit. The old

workings were excavated into soft, argillised granite and/or siliceous sphalerite/pyrite mineralisation.

The main drive terminates in this siliceous sulphide mineralisation. About halfway along the drive, a small cross-cut was driven into soft green altered granite containing sparse subhedral pyrite crystals up to 5mm.

Mapping included the hillside around the small open-cut, and the main adit and drive.

Sampling included the open-cut and the main drive and cross-cut.

Figures 2 and 3 are plans of the area and the main drive respectively. Sample locations are shown on these plans. Assay summary is included in Table II. Some drill core sections were re-assayed using the original reject samples located at Renison. These assays are reported in Appendix 8.3.

	% Sn	% SSn	% Fe	% S	% Zn	g/t Ag	% Cu	% Pb
'White dyke' on track to mine								
SM1	<0.01	<0.01	1.8	<0.1	0.004	<1	<0.001	0.001
Open-cut								
SM2	1.48	0.19	5.3	8.4	8.95	104	0.55	0.22
SM3	2.78	0.02	3.4	1.4	0.08	33	0.015	0.019
Main adit and drive								
SWM004	0.70	nyd	10.3	5.2	0.47	nyd	0.02	nyd
SWM005	0.01	nyd	8.3	0.5	0.01	nyd	<0.01	nyd
SWM006	0.90	nyd	6.1	3.5	0.02	nyd	<0.01	nyd

SSn = acid-soluble tin; nyd = not yet determined (AAS)

Sample of water discharged from the main adit:

	mg/L
Fe	11.5
Mn	4.89
Zn	6.23
Cu	0.82
Pb	<0.10
Cd	0.010

Table II: Assay Summary - Sweeney's Mine

Some rock-chip and drill core samples were also analysed by Neutron Activation Analysis. These results are also included in Appendix 8.3

Re-logging of drill core was not completed.

4.3 Anomaly 1, Agnew Grid

This area is similar to Sweeney's, with medium-coarse grained red biotite granite undergoing varying degrees of alteration. The only old workings seen were a trench on the hillside near the northern end of the track.

The track excavation has exposed part of the southern margin of the mineralisation.

Mineralisation is predominantly the siliceous sulphide variety also found at Sweeney's.

Cursory mapping and sampling was of the exposed argillised and mineralised granite along the track.

The map is included as Figure 4. Assay results are summarised in Table III.

	% Sn	% SSn	% Fe	% S	% Zn	g/t Ag	% Cu	% Pb
RT78	0.69	0.34	11.4	5.6	0.43	168	0.49	0.075
AG1005	0.14	nyd	17.5	2.8	<0.01	nyd	0.06	nyd
AG1006	0.01	nyd	4.5	<0.1	0.24	nyd	<0.01	nyd

Table III: Anomaly 1 - Assay Summary

4.4 Anomaly 4, Agnew Grid

A reconnaissance survey was carried out to locate the anomaly. No sampling or mapping was carried out.

4.5 North West and Granite Anomalies

These were prospected by Aberfoyle in the early

1980's. A reconnaissance survey was carried out to locate the anomalies.

Course-grained red biotite granite has undergone some alteration, but the area does not appear to be as extensive as Sweeney's. Fine grained aplitic dykes intrude the red granite. Quartz-tourmaline veins and nodules occur in places.

No sulphide mineralisation was located.

5. CONCLUSIONS AND RECOMMENDATIONS

5.1 No further work is recommended at Allison's Workings.

5.2 Tin mineralisation at Sweeney's appears to be very fine grained (generally $-50 \mu\text{m}$). Ore assessment testwork needs to be carried out on the different types of mineralisation. To do this effectively, fresh exposures need to be excavated.

It is proposed to excavate a costean near the main trench and open-cut, and to open fresh exposures of the mineralisation in the main adit.

5.3 Further sampling will be carried out at Anomaly's 1 and 4, but this mineralisation will also require ore assessment testwork. This is not recommended until the completion of the assessment for the Sweeney's mineralisation types.

5.4 As the area where the North West and Granite Anomalies are located is remote and inaccessible, it is proposed to relinquish this northern part of the licence to enable work to be concentrated on Sweeney's Mine, and Anomalies 1 and 4.

6. PROPOSED WORK PROGRAM FOR 1996-97

6.1 Sweeney's Mine

- Complete re-logging of drill core, with selective re-assaying;
- Costeaning and driving/cross-cutting to open up fresh exposures of mineralisation;
- Mapping;
- Ore assessment testwork.

6.2 Anomaly 1

- Re-log drill core;
- Rock chip sampling;
- Costeaning;
- Ore assessment testwork;
- Mapping.

6.3 Anomaly 4

- Re-log drill core;
- Sampling (rock chip/soils);
- Mapping.

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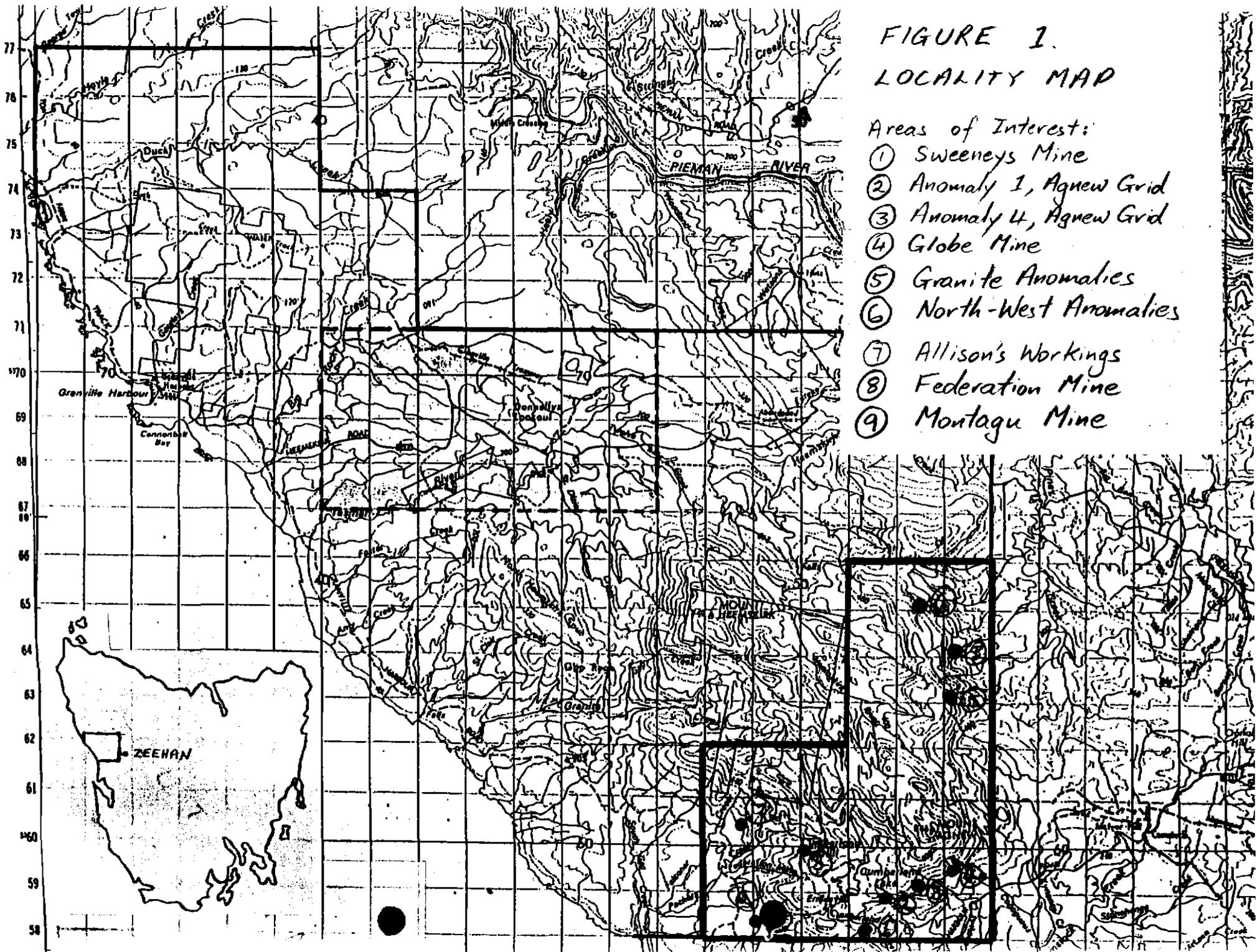
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8. APPENDICES

8.1 Figures

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SWEENEYS MINE

FIGURE 2

Key:



sulphides.



coarse grained red granite.



fine grained white aplite

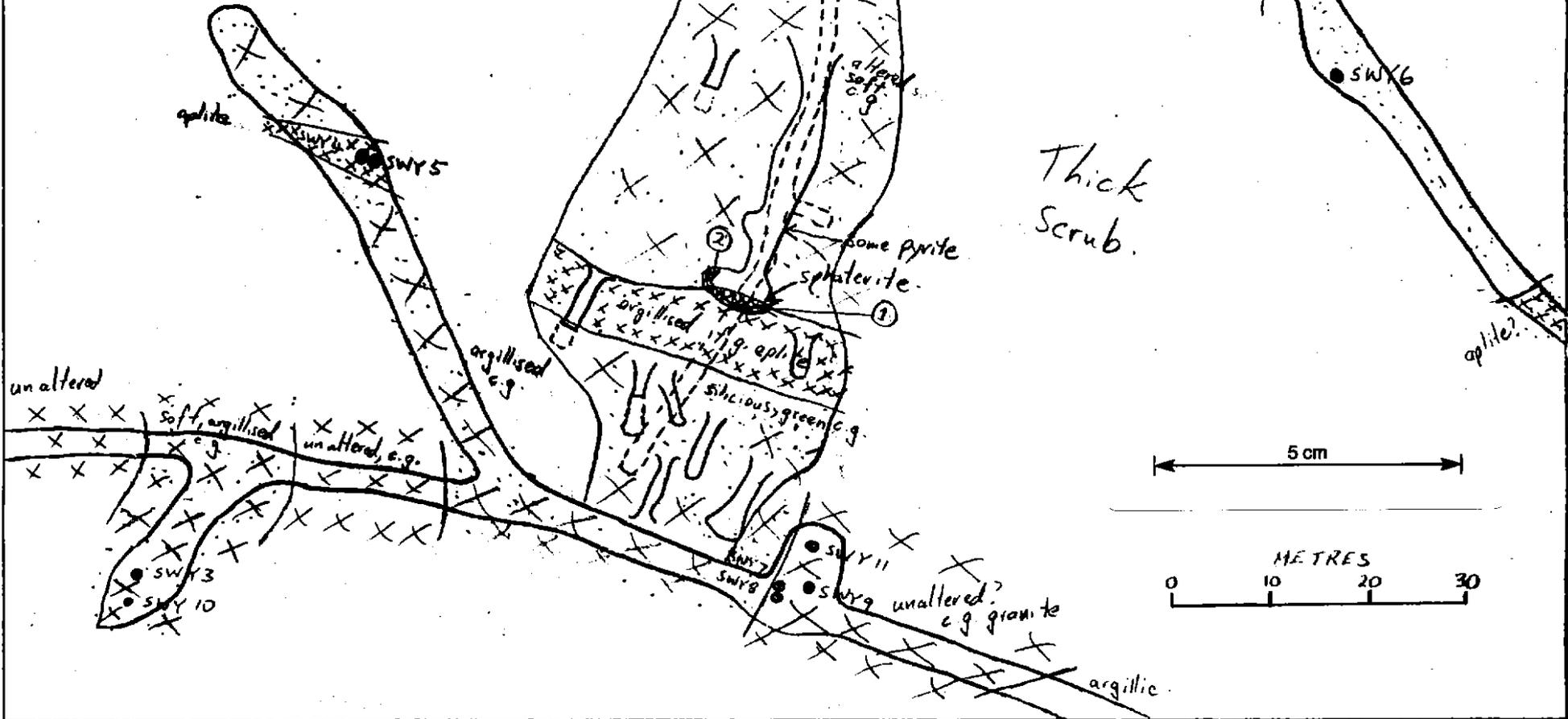


altered.

Sample locations:

① SM 2

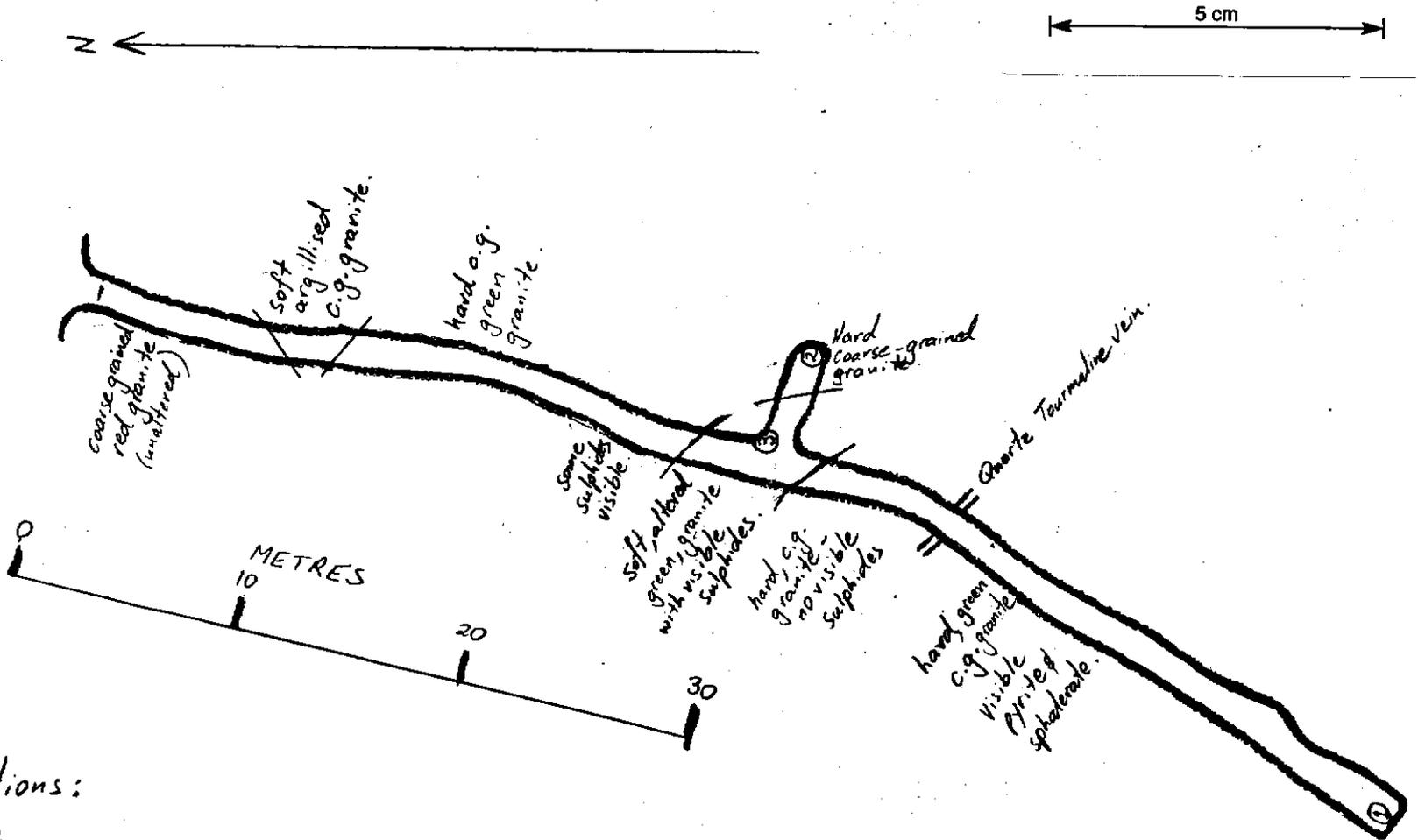
② SM 3



326016

SWEENEY'S MINE ADIT

FIGURE 3



Sample locations:

- ① SWM004
- ② SWM005
- ③ SWM006

326017

Anomaly 1, Agnew Grid.

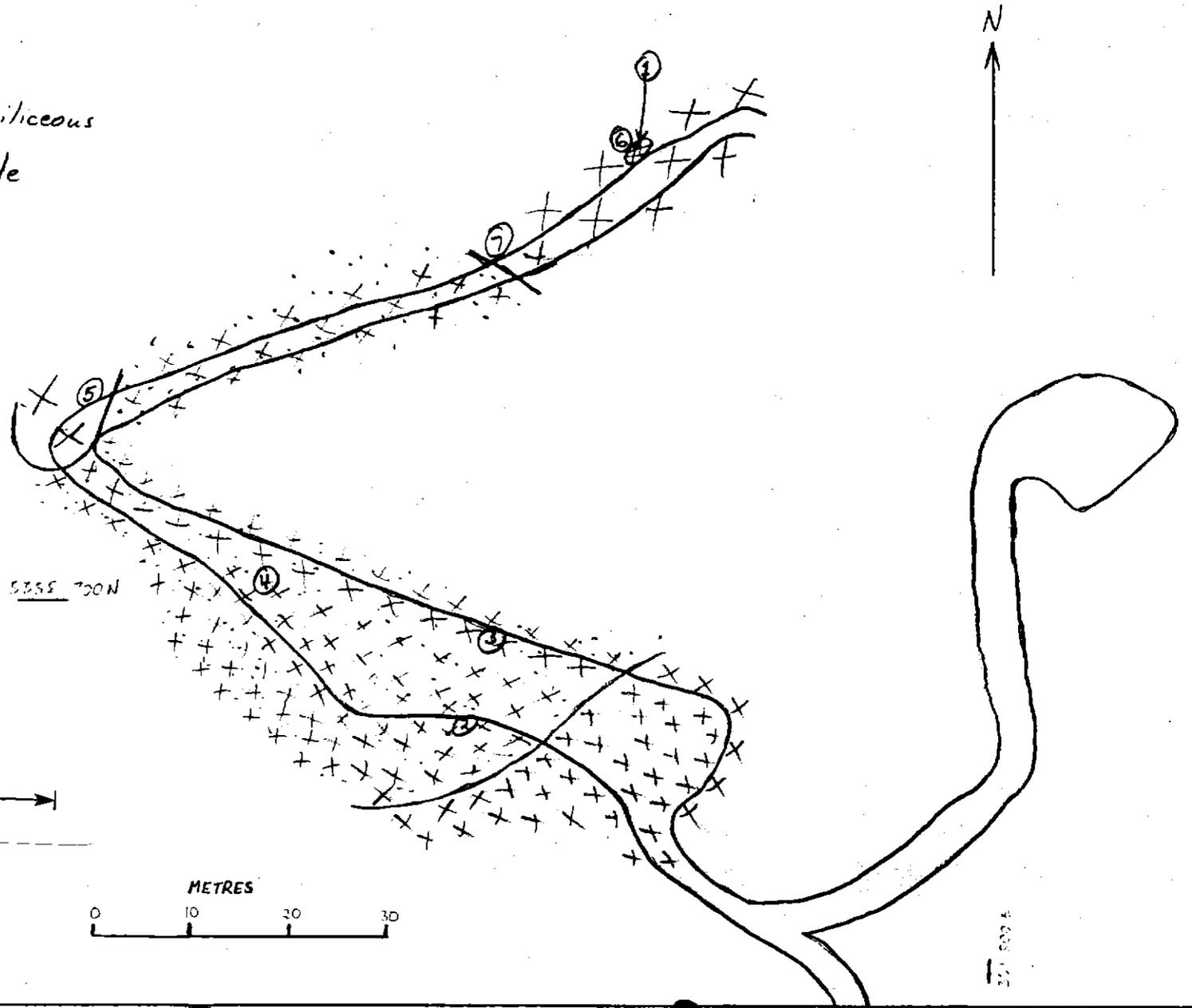
FIGURE 4.

Key

- ⊗ sulphides
- ⊗ green, coarse grained, siliceous
- ⊗ medium grained granite
- ⊗ altered

Sample locations:

- ① RT 78
- ② AG1001
- ③ AG1002
- ④ AG1003
- ⑤ AG1004
- ⑥ AG1005
- ⑦ AG1006



8.2 Field Data Records

8.3 Assay Data



RENISON LIMITED
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ANALYTICAL SERVICES

Renison Bell, Tasmania
P.O. Box 20, Zeehan, Tas. 7469
Tel. (004) 732732 Fax. (004) 732600

326025



South Heemskirk Exploration

Attn: David Lane

Sample ID:	Sn %	As %	Fe %	S %	MgO %	Cu %	Mn %	WO3 %	Zn %
AW1	0.01	0.01	1.5	<0.1	0.2	<0.01	0.03	0.02	<0.01
AW2	<0.01	0.01	8.8	<0.1	0.5	<0.01	0.06	0.01	<0.01
AW3	<0.01	<0.01	1.6	<0.1	0.1	<0.01	0.03	0.01	<0.01
AW4	0.01	0.02	2.7	<0.1	0.5	0.01	0.05	0.01	<0.01
AW5	0.02	<0.01	21.3	<0.1	0.5	<0.01	0.05	0.02	<0.01
AW6	0.01	<0.01	29.9	<0.1	0.5	<0.01	0.04	0.03	<0.01
SM1	0.01	0.02	1.1	<0.1	0.1	<0.01	0.02	0.01	<0.01
SM2	1.48	0.10	4.6	8.6	0.1	0.86	0.02	0.01	8.95
SM3	2.79	0.03	2.5	1.4	0.1	0.01	0.02	0.02	0.09
Method:	B4	B4	B4	B4	B4	B4	B4	B4	B4
Detection Limit:	0.01	0.01	0.1	0.1	0.1	0.01	0.01	0.01	0.01

Samples analysed as received.

Authorised Signatory:

Date:

13/7/95



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326026



South Heemskirk Exploration

Attn: David Lane

Sample Identification:	Sn %	As %	Fe %	S %	Zn %	Mn %	WO3 %	MgO %
SWY 4 25.0 - 26.0	0.20	0.02	12.1	19.3	26.7	0.13	<0.01	0.1
40.0 - 41.0	5.26	0.01	7.6	4.4	6.40	0.55	0.02	0.2
SWY7 22.5 - 23.5	1.34	0.01	5.2	7.8	9.68	0.03	0.01	<0.1
SWY8 45.0 - 46.0	1.11	0.02	7.8	6.1	0.48	0.05	<0.01	<0.1
SWY11 93.3 - 94.3	1.22	1.23	22.0	16.9	1.71	0.56	0.01	<0.1
SWY14 123.0 - 124.0	0.63	0.48	29.1	21.7	0.32	0.15	0.02	<0.1
SWY15 229.7 - 230.7	2.18	0.01	18.1	11.6	2.43	0.23	0.01	0.1
RT78	0.69	0.15	11.4	5.6	0.43	0.04	0.02	0.1
SM1	<0.01	0.02	1.8	<0.1	<0.01	0.03	0.01	<0.1
SM2	1.48	0.09	5.3	8.4	8.95	0.02	0.01	<0.1
SM3	2.78	0.03	3.4	1.4	0.08	0.02	0.02	<0.1
Method:	B4	B4	B4	B4	B4	B4	B4	B4
Detection Limit:	0.01	0.01	0.1	0.1	0.01	0.01	0.01	0.1

Samples analysed as received.

Authorised Signatory:

Date: 2/10/95

Page 1 of 1



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South Heemskirk Exploration

Attn: David Lane

Sample Identification:	Ag g/t	Bi %	SSn %	Cu %	Pb %	Zn %	Sb %	Ni %	Mo %
SWY 4 25.0 - 26.0	166	0.005	0.10	0.16	4.3	nd	2.26	0.005	<0.001
40.0 - 41.0	32	0.023	0.05	0.078	0.82	nd	0.29	0.002	<0.001
SWY7 22.5 - 23.5	220	0.024	0.46	0.66	1.10	nd	0.55	0.004	<0.001
SWY8 45.0 - 46.0	124	0.027	0.6	0.67	0.027	nd	0.019	0.002	<0.001
SWY11 93.3 - 94.3	133	0.068	1.0	0.86	0.18	nd	0.92	0.006	<0.001
SWY14 123.0 - 124.0	104	0.009	0.46	0.54	0.074	0.33	0.075	0.004	0.003
SWY15 229.7 - 230.7	37	0.022	0.10	0.13	1.57	nd	1.08	0.003	0.001
RT78	168	0.092	0.34	0.49	0.075	nd	0.061	0.003	<0.001
SM1	<1	0.008	<0.01	<0.001	0.001	0.004	0.003	0.001	0.002
SM2	104	0.005	0.19	0.55	0.22	nd	0.046	<0.001	0.001
SM3	33	0.004	0.02	0.015	0.019	0.10	0.015	0.001	0.001
Method:	A1	A1	A1	A1	A1	A1	A1	A1	A1
Detection Limit:	1	0.001	0.01	0.001	0.001	0.001	0.001	0.001	0.001

Samples analysed as received.

SSn= acid soluble tin

nd = not determined

Authorised Signatory:

J. M. Bigg

Date:

2/10/95

Page 1 of 1



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Heemskirk Exploration

Attn: David Lane

Sample Identification:	Sn %	As %	Fe %	S %	MgO %	Cu %	Mn %	WO ₃ %	Zn %
AG1001	0.01	0.02	3.4	<0.1	0.1	0.01	0.02	0.01	0.01
AG1002	<0.01	<0.01	3.2	<0.1	0.2	<0.01	0.02	0.01	0.01
AG1003	<0.01	0.01	4.3	<0.1	0.2	0.01	0.02	0.01	0.01
AG1004	0.01	<0.01	4.0	<0.1	0.3	<0.01	0.04	<0.01	0.10
AG1005	0.14	0.28	17.5	2.8	0.2	0.06	0.02	0.02	<0.01
AG1006	0.01	<0.01	4.5	<0.1	0.3	<0.01	0.06	<0.01	0.24
SWM004	0.70	0.01	10.3	5.2	0.3	0.02	0.02	0.02	0.47
SWM005	0.01	0.02	8.3	0.5	0.3	<0.01	0.02	0.01	0.01
SWM006	0.90	<0.01	6.1	3.5	0.5	<0.01	0.03	0.01	0.02
BRA001	<0.01	<0.01	42.5	<0.1	<0.1	<0.01	0.09	0.01	<0.01
BRA002	<0.01	<0.01	5.4	<0.1	0.1	<0.01	0.02	0.01	<0.01
BRA003 -300µm	0.01	<0.01	1.3	<0.1	0.1	0.01	0.01	0.02	<0.01
BRA004 -300µm	<0.01	0.02	1.6	<0.1	0.1	<0.01	0.01	0.01	<0.01
BRA005 -300µm	<0.01	<0.01	12.0	0.1	0.2	<0.01	0.02	<0.01	<0.01
BRA006 -300µm	<0.01	<0.01	13.5	<0.1	0.3	<0.01	0.35	<0.01	<0.01
BRA007	<0.01	<0.01	47.7	0.2	<0.1	<0.01	0.76	0.01	<0.01
Method:	B4	B4	B4	B4	B4	B4	B4	B4	B4
Detection Limit:	0.01	0.01	0.1	0.1	0.1	0.01	0.01	0.01	0.01

Samples analysed as received.

Authorised Signatory:

J. M. Bailey

Date:

3/1/96

Pg:1 of 1

N E U T R O N A C T I V A T I O N A N A L Y S I S

NEUTRON ACTIVATION ANALYSIS REPORT

Date: 02-11-95

D. LANE

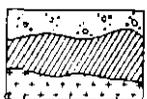
BECQUEREL JOB # 599

Page 1 of 2

NOTE:- A NEGATIVE SIGN INDICATES "LESS THAN".

- RESULTS ARE IN PARTS PER MILLION (ppm) UNLESS OTHERWISE INDICATED.
- ELEVATED D.L. FOR SOME ELEMENTS IN SAMPLES WITH HIGH Sb & As DUE TO INCREASED BACKGROUND ACTIVITY.
- ELEVATED D.L. FOR Mo DUE TO U FISSION INTERFERENCE.

ELEMENT	DL #	SM 1 #	SM 2 #	SM 3 #	SWY 4	SWY 4	SWY 7	SWY 8	SWY 11	SWY 14	SWY 15
					25-26	40-41	22.5-23.5	45-46	93.3-94.3	123-124	229.7-230.7
ANTIMONY	.2	2.00	539.00	229.00	22100.00	2600.00	7890.00	176.00	11900.00	754.00	14400.00
ARSENIC	1.0	34.40	1030.00	235.00	955.00	42.00	-20.00	119.00	14200.00	5860.00	1560.00
BARIUM	100.0	-100.0	-100.0	-100.0	-3000.0	-300.0	-1000.0	-100.0	-1000.0	-200.0	-1000.0
BROMINE	2.0	-2.00	6.01	5.42	-100.00	-20.00	-30.00	-2.00	-50.00	-10.00	-50.00
CAESIUM	2.0	133.00	266.00	400.00	202.00	121.00	91.40	82.10	56.50	14.40	88.70
CAESIUM	1.0	3.58	4.85	7.58	-10.00	22.30	7.09	3.90	-5.00	1.49	-5.00
CHROMIUM	5.0	100.0	60.6	137.0	-80.0	41.5	142.0	136.0	168.0	40.4	-50.0
COBALT	1.0	-1.00	2.59	1.72	-10.00	-2.00	-6.00	2.36	15.90	7.18	-5.00
EUROPIUM	.5	-.50	.64	1.67	-4.00	1.20	-3.00	-.50	-3.00	.79	-3.00
GOLD, ppb	5.0	-5.0	-15.0	-10.0	-400.0	-30.0	-100.0	-5.0	-200.0	-20.0	-200.0
HAFNIUM	.5	7.98	5.05	9.79	-6.00	5.56	-4.00	5.59	-3.00	4.73	-3.00
IRIDIUM, ppb	20.0	-20.0	-20.0	-20.0	-700.0	-50.0	-100.0	-20.0	-200.0	-20.0	-200.0
IRON, %	.05	.35	3.89	2.02	9.16	6.06	4.20	6.83	18.70	28.20	14.60
LANTHANUM	.5	57.40	111.00	146.00	141.00	57.30	69.00	38.40	33.40	7.52	61.00
LUTETIUM	.2	1.02	1.09	2.01	1.10	1.24	.56	.60	.66	.63	.70
MOLYBDENUM	5.0	-5.0	-5.0	-10.0	-100.0	-10.0	-30.0	-5.0	-60.0	-10.0	-60.0
POTASSIUM, %	.2	-.50	ND	2.14	ND	ND	ND	1.46	ND	ND	ND
RUBIDIUM	20.0	63.4	48.8	209.0	203.0	949.0	664.0	91.2	101.0	-20.0	728.0
SAMARIUM	.2	10.00	14.20	29.60	15.50	10.10	12.50	4.40	5.99	1.97	4.47
SCANDIUM	.1	3.12	2.55	4.96	1.09	13.70	4.83	1.75	1.06	.40	2.27
SELENIUM	5.0	-5.0	-10.0	-5.0	-80.0	-20.0	-50.0	-5.0	-50.0	-10.0	-50.0
SILVER	5.0	-5.0	82.6	24.6	103.0	21.1	122.0	95.9	106.0	62.1	30.0
SODIUM, %	.01	.018	.030	-.010	ND	-.100	-.300	-.010	-.600	-.050	-.600
TALUM	1.0	3.49	2.54	3.29	-10.00	3.76	-5.00	2.73	-5.00	-1.00	-5.00
THORIUM	.5	19.00	39.30	36.20	56.50	31.20	40.20	34.60	38.00	26.50	22.90
TIN	500.0	-500.0	16500.0	33400.0	-10000.0	58700.0	6600.0	13600.0	8610.0	5530.0	18300.0
TUNGSTEN	2.0	29.80	57.60	66.80	-500.00	172.00	69.70	45.50	-100.00	72.70	152.00
URANIUM	2.0	2.58	4.39	6.51	-60.00	-2.00	-10.00	7.97	-40.00	5.74	-40.00
YTTERBIUM	.5	6.86	6.99	13.00	8.20	9.13	4.18	3.61	4.53	1.95	5.29
ZINC	100.0	-100.0	97600.0	1000.0	256000.0	66400.0	116000.0	5520.0	16400.0	3410.0	23600.0



BQ

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PMB 1

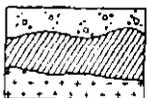
MENAI, NSW 2234

N E U T R O N A C T I V A T I O N A N A L Y S I S

BECQUEREL JOB # 599

Page 2 of 2

ELEMENT	DL #	RT 78
ANTIMONY	.2	689.00
ARSENIC	1.0	1970.00
BARIUM	100.0	-200.0
BROMINE	2.0	-10.00
CERIUM	2.0	468.00
CAESIUM	1.0	2.36
CHROMIUM	5.0	122.0
COBALT	1.0	11.10
EUROPIUM	.5	2.84
GOLD, ppb	5.0	-20.0
HAFNIUM	.5	16.20
IRIDIUM, ppb	20.0	-20.0
N, %	.05	11.40
LANTHANUM	.5	218.00
LUTETIUM	.2	3.07
MOLYBDENUM	5.0	-20.0
POTASSIUM, %	.2	2.82
RUBIDIUM	20.0	242.0
SAMARIUM	.2	37.40
SCANDIUM	.1	3.39
SELENIUM	5.0	-10.0
SILVER	5.0	122.0
SODIUM, %	.01	-.040
TANTALUM	1.0	6.31
THORIUM	.5	97.20
TIN	500.0	7370.0
TUNGSTEN	2.0	89.20
URANIUM	2.0	15.80
YTTERBIUM	.5	18.90
ZINC	100.0	5410.0



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8.4 P.Olubas 1995, REPORT ON EL 59/94

REPORT ON EL 59/94.
SOUTH HEEMSKIRK AREA, WESTERN TASMANIA.

A confidential report prepared for Mr. D.C.Lane.

By P.E.Olubas, BSc.Hons.
September, 1995.

SUMMARY:

E.L. 59/94 was granted in 1995, and covers most known mineral occurrences along the Southern margins of the Heemskirk Granite. Investigations to date have concentrated on the mapping and sampling of the Sweeneys and Allison's Prospects. These prospects were deemed the most prospective for sources of significant mineralisation. Cursory mapping and some reconnaissance sampling has been done at both prospects.

LOCATION AND ACCESS.

E.L.59/95 covers 36km² of the Heemskirk Granite, immediately North of The Zeehan-Trial Harbour Road. Although tracks exist in the area, most are very rough and not suitable for most vehicles. Sweeneys Prospect is located on the Southern slopes of the Heemskirk Range, approximately 0.8km S.E. of Lake Cumberland and about 1km North of the Zeehan-Trial Harbour Road. Allison's Prospect lies to the South of Falconer Creek, approximately 3km along the Trail-Granville harbour Road, from the Southern junction of this road with the Zeehan-Trial Harbour road.

EXPLORATION RATIONALE AND TARGETS.

Extensive exploration, including diamond drilling was undertaken by Renison Limited on Sweeneys Prospect from the mid 1970's to early 1980's (e.g. Wells, 1977, Cartwright, 1983). Their principle targets were large tonnage, low to medium grade Sn / base metal mineralisation. There is significant potential to high-grade mineralisation within this deposit to a small tonnage / medium to high grade polymetallic resource utilizing the holes drilled by Renison.

Very little documented work has been done on Allison's Prospect apart from some early trenching and shaft sinking (Waterhouse, 1916), and later sluicing of alluvials.

Klominsky (1972) recorded the occurrence of columbite from a trench at this locality. The possibility of combined rare-earth / Sn mineralisation was the conceptual target for this prospect.

GENERAL GEOLOGY.

The Heemskirk Granite is one of the largest granitic plutons in western Tasmania, and occupies an area of approximately 140km². It has intruded rocks ranging from Precambrian to Devonian in age. The granite massif is a composite body, consisting of a red coloured granite pluton occupying the upper portions of the batholith, which is underlain and partly intruded by a white granite (Klominsky, 1972). Isotopic studies suggest the timing of the intrusions of the white and red granite were more or less contemporaneous during the Late Devonian to Early carboniferous (McClenaghan, 1989).

Sweeneys Prospect.

In the vicinity of Sweeneys Prospect, the Heemskirk Granite is generally a coarse-grained red biotite granite. Locally thin and linear aplitic dykes intrude the red granite.

Within the old workings at Sweeneys, the red granite has undergone variable degrees of potassic alteration.

Mineralisation occurs as disseminated sphalerite + pyrite in silicified zones within the altered red granite. Two distinct types of mineralisation were noted:

1. disseminated sphalerite + minor pyrite in silicified zones.
2. Silica + pyrite, with no significant base-metal mineralisation.

The lack of mineralisation in outcrop at Sweeneys Prospect necessitates the need for examination of old core samples to further characterize mineralisation.

Allisons Prospect.

Host rocks for this prospect is a coarse-grained white biotite granite which has have undergone extensive hematitic and argillic alteration.

Although no mineralisation was noted at this prospect, workings have excavated into a zone of intense hematite alteration. The hematite alteration is specularite-rich, with some illite-smectite clays in association.

The outcrop trace of the Fe-altered granite is crudely ovoid, and approximately 15 x 20m. Around the Fe alteration is a zone of illite-smectite altered granite. The illite-smectite alteration grades into relatively unaltered white granite.

The contacts between alteration styles appears to be gradational, but outcrop is generally very poor.

Irregular white quartz veins occur in all alteration types, but appear to be barren of any sulphide or rare-earth minerals.

A crude foliation is developed at Allisons Prospect, only within the zones of Fe and illite-smectite alteration. The foliation apparently follows the crude ovoid shape of these alteration zones.

GEOCHEMICAL SAMPLING.

To date limited geochemical sampling has been done on both Sweeneys and Allisons Prospects, but results have not been evaluated.

RECOMMENDATIONS.

It is difficult to recommend further work until geochemical samples are evaluated.

The lack of any significant mineralisation at Allisons Workings suggest this prospect has low priority. Depending on sample

results, further sampling may be required, or some form of costeaning to create additional outcrop within the central hematite alteration zone.

Limited outcrop expression of mineralisation at Sweeneys requires that drill core be examined to further define mineralisation styles. Further geochemical sampling may be required if initial results are promising.