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MINES	
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17 FEB 1988	
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Action Officer	Initials
LETTER	
13. 2. 88	
REFERS	

METALS EXPLORATION LTD
 MT. BISCHOFF EXPLORATION LICENCE 13/79
 TASMANIA
 REPORT FOR THE PERIOD 13.12.86 - 13.12.87
 REPORT NO. 1121

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INTRODUCTION

During the period under review, exploration on the Mt. Bischoff mine area consisted of trenching, channel sampling and geological mapping in the vicinity of Allen's workings. This report summarises the work carried out.

OBJECTIVES

The exploration program was designed to test the distribution of tin mineralisation in the vicinity of Allen's working which lie adjacent to and west of the White Face dyke. Previously this area was poorly understood below surface because of covered poor recovery in the upper sections of diamond drill holes in the area. Only limited success was obtained with earlier reverse circulation drilling.

TRENCHING

Trenching using an excavator was considered the best method of exposing bedrock. Approximately 304 metres of trenches were dug using a hydraulic excavator producing a trench approximately one metre in width and depths ranging from 0.3 to 2.5 metres.

Continuous trenching over the planned target area was not possible due to the presence of 1) water in low locations which were impractical to drain 2) underground Telecom cables and 3) a principal access road to the North Valley workings.

GEOLOGICAL MAPPING

Following sampling of the trenches, geological mapping at a scale of 1:100 was carried out. Parts of the trenches were filled with water at the time so some exposures were unavailable. Local collapses had also occurred which obscured some trench floor geology but did not effect the trench wall mapping adversely. Generally mapping was carried out on the western wall so that the geological sections could be presented looking in the conventional westerly direction.

SAMPLING & ANALYSIS

To enable areas of cassiterite mineralisation to be identified, sampling of the walls of the recently excavated trenches was carried out. Samples were taken from continuous horizontal channels over one metre widths covering the full length of the trenches.

RESULTS

The results of the trench sampling and assaying are shown on the enclosed figure 2 in section form. Values are plotted above the surface line in parts per million Sn (unless indicated otherwise). Trench locations are shown on Fig. 1.

Values overall are in agreement with those obtained in previous campaigns in the area showing small areas of low grade tin mineralisation within an environment of generally elevated background values.

One area which is anomalous in respect to tin values is the southern part of trench BTRI in the vicinity of 1700N where 9 metres of continuous sample averages 3450 ppm Sn. This is unusual as there is no sulphide lode developed here but is cleaved and contorted shales with minor iron staining. High tin values in largely unaltered shales have been observed in the zone to the east of Brown Face open cut and west of the Queen Dyke. It is not known how the tin occurs in the above anomalous zone.

Because of the irregular nature of the contacts between the dolomite and the sulphide lode material no change in the overall geological interpretation of the area is warranted. Care should also be taken in extending vertically the tin values obtained from the trenching program.

CONCLUSION

Trenching, sampling and geological mapping during the period under review helped define further the distribution of dolomite sulphide lode and associated tin mineralisation. One area of anomalous tin values in unaltered shales requires further work to define the source adequately.

EXPENDITURE

Expenditure for the period 13.12.86 to 13.12.87 is \$23,013.34.

812005

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ANALYTICAL REPORT

JOB COM871462
O/N : 19016

SAMPLE	Sn
283250	22
283251	260
283252	32
283253	26
283254	60
283255	22
283256	70
283257	75
283258	80
283259	220
283260	340
283261	480
283262	370
283263	175
283264	860
283265	190
283266	60
283267	880
283268	70
283269	34
283270	50
283271	210
283272	430
283273	240
283274	700
UNITS	ppm
SCHEME	XRF1

BTR-2

35-36

101-102

52

103

104

105

106

107

108

109

110

BTR-



ANALYTICAL REPORT

JOB COM871462
O/N : 19016

000

SAMPLE	Sn	
283275	280	111
283276	420	
283277	7000	
283278	1.81%	
283279	2400	
283280	490	116
283281	220	
283282	730	
283283	230	
283284	4200	120
283285	1550	
283286	1.26%	
283287	3650	
283288	4000	124
283289	4450	
283290	2950	
283291	3300	
283292	2050	128.12g

283472	38	0-1
283473	36	1
283474	24	2
283475	22	
283476	16	
283477	10	
283478	16	1-7

ISFR - 1

UNITS ppm

SCHEME XRF1
XRF2

812007

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005

ANALYTICAL REPORT

JOB COM871462

O/N : 19016

STR-1

SAMPLE	Sn	
283479	18	<i>7-8 m</i>
283480	14	<i>8</i>
283481	18	
283482	26	<i>10</i>
283483	450	
283484	3250	<i>12</i>
283485	3500	
283486	4100	<i>14</i>
283487	1500	
283488	1600	<i>15</i>
283489	4550	
283490	4100	<i>18</i>
283491	5750	
283492	2700	<i>20</i>
283493	590	
283494	400	<i>22</i>
283495	550	
283496	250	<i>24</i>
283497	210	
283498	60	<i>26</i>
283499	175	<i>27-28 m</i>
280000	50	<i>28</i>
280001	135	
280002	30	<i>30</i>
280003	48	<i>31-32</i>
UNITS	ppm	
SCHEME	XRF1	

812008

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0117

ANALYTICAL REPORT

JOB COM871462
O/N : 19016

BTR-1

SAMPLE	Sn	
280004	42	32
280005	55	
280006	75	32
280007	260	
280008	100	32
280009	95	
280010	220	31
280011	760	
280012	1050	42
280013	990	
280014	800	42
280015	1350	
280016	1650	42
280017	450	
280018	500	42
280019	1050	
280020	130	41
280021	490	
280022	990	42
280023	750	
280024	1250	42
280025	280	
280026	320	42
280027	260	
280028	190	42
UNITS	ppm	
SCHEME	XRF1	

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018

ANALYTICAL REPORT

JOB COM871462
O/N : 19016

BTR-1

SAMPLE	Sn	
280029	260	
280030	130	68
280031	95	
280032	70	60
280033	100	
280034	24	62
280035	38	
280036	26	64
280037	85	
280038	1050	66
280039	250	
280040	290	68
280041	70	
280042	450	70
280043	210	
280044	75	72
280045	340	
280046	830	74
280047	55	
280048	150	76
280049	190	
280050	250	78
280051	115	
280052	420	80
280053	250	
UNITS	ppm	
SCHEME	XRF1	

812010

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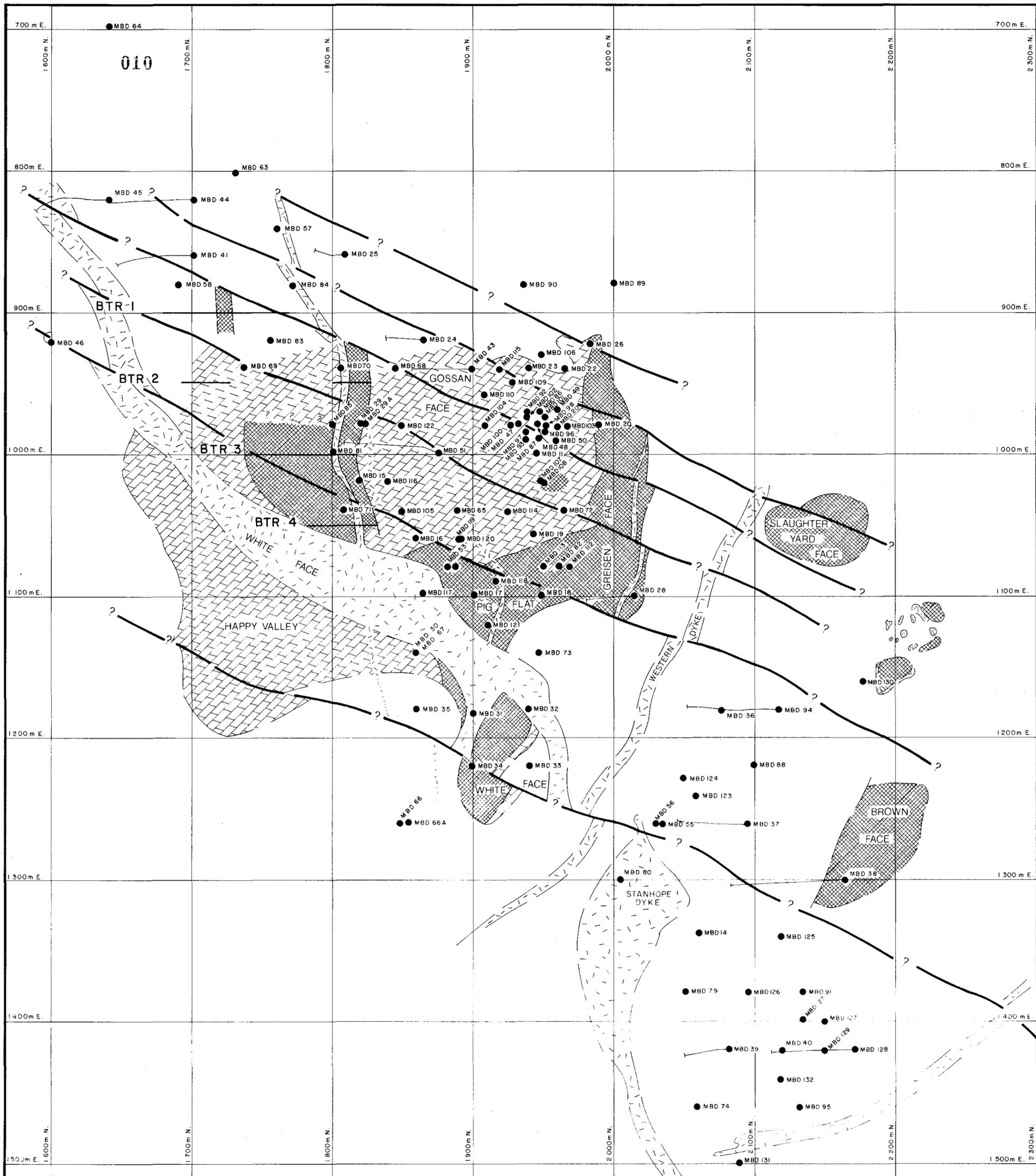
009

ANALYTICAL REPORT

JOB COM871462
O/N : 19016

BTR - 1

SAMPLE	Sn	
280054	145	<i>82</i>
280055	130	
280056	125	<i>81</i>
280057	650	
280058	430	<i>86</i>
280059	220	
280060	30	<i>88</i>
280061	34	<i>89-90</i>
UNITS	ppm	
SCHEME	XRF1	



	Porphyry
	Dolomite
	Dolomite Sulphide Lode
	Siltstones, Shales, Quartzites
	Fault
	Interpreted Geological Contact
	Collar of Diamond Drillhole, Stage 3 Programme
	Plan view of prestage 3 D.D.H.
	BTR-2 Trench

812011

M.E.L. GRID NORTH (330°)
ADAPT. MAG NTH

5 cm

88-2778

METALS EXPLORATION LIMITED	
MT. BISCHOFF TIN PROSPECT MT. BISCHOFF MINE AREA.	
SURFACE PLAN OF THE KNOWN ORE RESERVE AREA JANUARY 1982 AND 1987 TRENCHES	
DRAWN BY : D.S.	DRAFTSMAN : T.G.D.S.
DATE : Oct. '87	REVISIONS :
Drg No: 88-004	

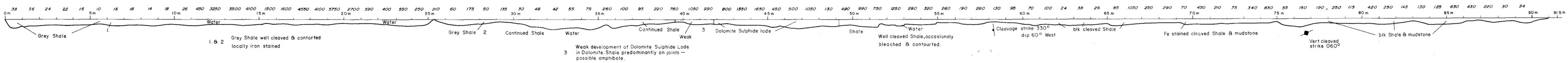
SCALE 1:2000

0m 20m 40m 60m 80m 100m

FIG. 1.

T10

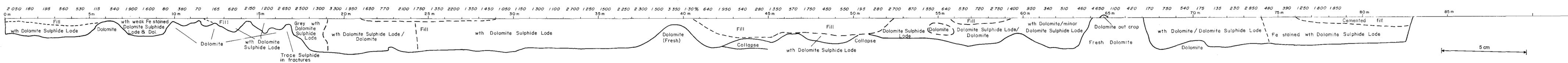
TRENCH BTR 1.



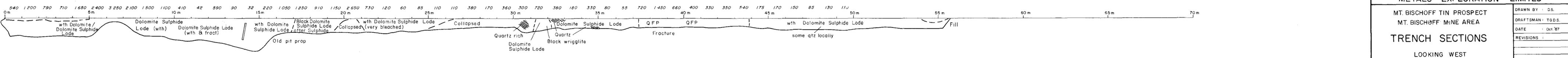
TRENCH BTR 2



TRENCH BTR 3



TRENCH BTR 4



812012 88-2778

METALS EXPLORATION LIMITED

MT. BISCHOFF TIN PROSPECT
MT. BISCHOFF MINE AREA

TRENCH SECTIONS
LOOKING WEST

SCALE 1:100

DRAWN BY: D.S.
DRAFTSMAN: T.G.D.S.
DATE: Oct '87
REVISIONS:
Drq No: 88-005
FIG. 2