

MICROFILMED

MT BISCHOFF TIN PROSPECT
EXPLORATION LICENCE 13/79
AND AUTHORITY TO PROSPECT 5/80
TASMANIA

MONTHLY REPORTS FOR JANUARY-JUNE 1983

D of M	C.O.	C.G.	E.O.	D.S.M.E.
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Answered				
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REF. No. 4348/83				

MT. BISCHOFF TIN PROSPECT
EXPLORATION LICENCE 13/79
AND AUTHORITY TO PROSPECT 5/80
TASMANIA

EL 13/79 and AP 5/80
REPORT FOR JANUARY-MARCH 1983

DISTRIBUTION :

<u>COPY NO.1</u>	<u>DEPARTMENT OF MINES, TASMANIA</u>
NO.2	COMSTAFF JOINT VENTURE
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GENERAL

During the period work on site continued with assessment of the potential of the Don Hill area via hand augering.

Activity at the office of the Project Manager (CRA Services Ltd) included review of smaller case development options consistent with the right to take a decision to mine at a rate in excess of 100 tpa contained tin as allowed for under the Comstaff Agreement. This work was performed with the assistance of staff from Metals Exploration Limited.

On 30th March 1983 CRAE assigned its earned equity in the prospect to MEL and CRAS resigned as Project Manager.

On 31st March 1983 MEL exercised its right to make a decision to mine at Mt. Bischoff under the terms of the Comstaff Agreement.

As of the date of this report Metals Exploration Limited is now the Project Manager.

GEOLOGY

Don Hill Area :

A further 51 hand auger holes were drilled along east-west traverse lines to the south of the Don Hill workings. All samples were split and vanning performed at one metre intervals.

Selected intervals were dispatched for analysis by XRF to confirm vanning results.

Results of the hand augering programme over 6 traverse lines are included in the attached tables. Position of the lines are given on the attached drawing.

Although penetration with the hand augering has been limited sufficient encouragement exists from results and from surface inspection to warrant follow-up with limited trenching in the area.

ENGINEERING

Review of previous work on lower production rate studies took place and resulted in preparation of a Project feasibility study based on production of 100 tpa contained tin in concentrates.

This study considered use of a modular plant treating higher grade DSL ore and was included in a package containing copies of all completed feasibility work sent to interested parties at the end of February.

ADMINISTRATION

As of 30th March 1983 CRAE assigned its equity in the prospect to MEL and CRAS resigned as Manager. As a result the caretaker on site, Mr. J. Housego, has accepted a casual position with MEL and the MEL Board approved a revised budget for the period April to June 1983. The MEL Board also noted a revised Budget Estimate for the period July to December 1983.

A copy of the revised budget to June 1983 is attached.

APPENDED INFORMATION

- (i) EXPENDITURE STATEMENT JANUARY-MARCH 1983
- (ii) SUMMARY OF PROJECT EXPENDITURE
TO 31ST MARCH 1983
- (iii) REVISED BUDGET APRIL TO JUNE 1983
- (iv) HAND AUGER TRAVERSE RESULTS
- (v) HAND AUGER TRAVERSE LOCATION SHEET

MOUNT BISCHOFF JOINT VENTURE
EXPENDITURE STATEMENT

		MARCH QTR. 1983		YTD (JAN-DEC. 1983)	
		<u>Actual</u>	<u>Budget</u>	<u>Actual</u>	<u>Budget</u>
<u>ADMINISTRATION</u> <u>01</u>					
Tech. Services	01	21,000	14,130	21,000	14,130
Labour	02	2,000	1,140	2,000	1,140
Consumables	03	1,000	900	1,000	900
Travel	06	-	1,050	-	1,050
Consultants	08	-	17,220	24,000	17,220
		<u>24,000</u>	<u>17,220</u>	<u>24,000</u>	<u>17,220</u>
 <u>GEOLOGY</u> <u>02</u>					
Tech. Services	01	-	-	-	-
Labour	01	-	-	-	-
Consumables	03	-	300	-	300
Accommodation	04	-	-	-	-
Vehicles	05	-	300	-	300
Travel	06	-	-	-	-
Contractors	07	-	-	-	-
Consultants	08	-	-	-	-
		<u>-</u>	<u>600</u>	<u>-</u>	<u>600</u>
 <u>MINING</u> <u>03</u>					
Tech. Services	01	-	-	-	-
Consumables	03	-	-	-	-
Travel	06	-	-	-	-
Consultants	08	-	-	-	-
		<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
 <u>METALLURGY</u> <u>04</u>					
Tech. Services	01	-	-	-	-
Consumables	03	-	-	-	-
Travel	06	-	-	-	-
Contractors	07	-	-	-	-
Consultants	08	-	-	-	-
		<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

		<u>JAN-MAR</u>	<u>JAN-MAR</u>	<u>YEAR TO DATE</u>	
		<u>Actual</u>	<u>Budget</u>	<u>Actual</u>	<u>Budget</u>
<u>ENGINEERING</u>	<u>05</u>				
Tech. Services *	01	12,000	-	12,000	-
Consumables	03	-	-	-	-
Travel	06	-	-	-	-
Contractors	07	-	-	-	-
Consultants	08	-	-	-	-
		<u>12,000</u>	<u>-</u>	<u>12,000</u>	<u>-</u>
<u>COMMERCIAL/</u>					
<u>LEGAL</u>	<u>06</u>				
Tech. Services	01	6,000	10,050	6,000	10,050
Consumables	03	-	-	-	-
Travel	06	-	-	-	-
		<u>6,000</u>	<u>10,050</u>	<u>6,000</u>	<u>10,050</u>
<u>TOTAL</u>		<u>42,000</u>	<u>27,870</u>	<u>42,000</u>	<u>27,870</u>

* Study work expenditure - Metals Exploration Limited

MOUNT BISCHOFF JOINT VENTURE
SUMMARY OF EXPLORATION EXPENDITURE
TO 31ST MARCH 1983

	Current Period \$000	Accumulative \$000
STAGE 1 (Including CRAE Met)		305
STAGE 2A (Including Early Start)		228
STAGE 2B (Including 28/3A Holding)		522
STAGE 3A		861
STAGE 3B		674
STAGE 4 (Including Holding)	42	750
	<hr/> 42	<hr/> 3,340

MT. BISCHOFF JOINT VENTURE

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BUDGET 1st APRIL TO 30th JUNE 1983

	<u>BUDGET</u>			
	<u>April</u>	<u>May</u>	<u>June</u>	<u>Total (3 months)</u>
<u>ADMINISTRATION</u>				
Technical services	7,000	5,000	5,000	17,000
Travel & accom.	800	-	400	1,200
Legal	6,000	-	3,000	9,000
General expenses	500	500	500	1,500
Total Administration	14,300	5,500	8,900	28,700
<u>SITE CARE & MAINT'CE</u>				
Travel & accom.	-	400	-	400
Labour	500	500	500	1,500
Vehicles	100	100	100	300
Consumables	100	100	100	300
Lease expenses	-	-	1,000	1,000
Total Care & Maint'ce	700	1,100	1,700	3,500
<u>PROJECT WORK</u>				
Technical services	3,000	2,000	2,000	7,000
Consulting (geological)	2,000	1,000	-	3,000
Travel & accom.	-	400	-	400
Labour	-	-	-	-
Camp & messing	-	-	-	-
Consumables & General	-	-	200	200
Assay	-	-	200	200
Contractors	-	-	-	-
Total Project Work	5,000	3,400	2,400	10,800
TOTAL	20,000	10,000	13,000	43,000

MT. BISCHOFF JOINT VENTURE
DON HILL AREA
HAND AUGER SURVEYS

LINE 1A

HOLE NO.	VANNING ESTIMATE		ASSAY CHECK	
	Depth	Tin Content	Depth	Tin Content (%Sn)
1	0 to 1.0m	Medium	-	-
	1.0 to 4.0m	High	-	-
2	0 to 2.0m	Medium	-	-
3	0 to 1.0m	Trace	-	-
4	0 to 2.0m	Medium	-	-
	2.0 to 3.0m	Trace	-	-
	3.0 to 4.0m	Medium	-	-
5	0 to 1.5m	Trace	-	-
6	0 to 3.0mm	Trace	-	-
7	0 to 1.0m	Trace	-	-
8	0 to 3.0m	Trace	-	-
	3.0 to 4.0m	High	-	-
	4.0 to 5.0m	Trace	-	-
9	0 to 1.0m	Trace	-	-
10 to 12	0 to 3.0m	Nil	-	-

LINE NO.1

HOLE NO.	VANNING ESTIMATE		ASSAY CHECK	
	Depth	Tin content	Depth	Tin Content (%Sn)
1	0 to 4.0	Nil		
2 & 3	0 to 1.0	Trace		
4	0 to 2.0	Medium		
	2.0 to 3.0	Trace		
	3.0 to 6.0	Nil		
5 & 6	0 to 1.0	Trace		
	1.0 to 3.0	Nil		
7	0 to 2.0	High	0 to 1.0	0.081) 0.064
			1.0 to 2.0	0.047)
	2.0 to 3.0	Trace		
8	3.0 to 4.0	Nil		
	0 to 4.0	High	0 to 1.0	0.122) 0.184
			1.0 to 2.0	0.2453
9	0 to 1.0	Trace	0 to 1.0	0.040
	1.0 to 2.0	High	1.0 to 2.0	0.175
	2.0 to 3.0	Medium		
	3.0 to 5.0	Trace		
10 to 15	0 to 2.0	Trace (Cemented)		
16	0 to 2.0	High		
	2.0 to 4.0	Medium		
	4.0 to 6.0	Trace		
17	0 to 5.0	Trace		
18	0 to 6.0	Trace (Mud Stone)		

Note: 0.1% Sn equates to approximately 4lb Cassiterite per cubic yard.

LINE NO.2

HOLE NO.	VANNING ESTIMATE		ASSAY CHECK	
	Depth	Tin Content	Depth	Tin Content (%Sn)
1	0 to 1.0	High		
	1.0 to 5.0	Trace		
2	0 to 1.0	High	0 to 1.0	0.128
	1.0 to 3.0	Medium	1.0 to 2.0	0.184
	3.0 to 6.0	Trace		
3	0 to 1.0	High		
	1.0 to 2.0	Medium		
	2.0 to 3.0	Trace		
4	0 to 4.0	Medium	0 to 1.0	0.215) 0.185
			1.0 to 2.0	0.155)
	4.0 to 6.0	Trace		
5	0 to 1.0	Trace		
	1.0 to 2.0	Nil (Cemented)		
6 to 9	0 to 2.0	Trace Passing to Cemented Material		
10 & 11	0 to 2.0	High	0 to 1.0	0.121
	2.0 to 3.0	Medium		
	3.0 to 5.0	Trace		
12	0 to 4.0	Medium	0 to 1.0	.148) 0.131
			1.0 to 2.0	.114)
	4.0 to 5.0	Trace		
13	0 to 2.0	High	0 to 1.0	.231) 0.189
			1.0 to 2.0	.146)
	2.0 to 4.0	Medium		
	4.0 to 6.0	Trace		
14	0 to 1.0	High		
	1.0 to 3.0	Medium		
15	0 to 1.0	High		
	1.0 to 4.0	Trace		

LINE NO.2 (continued...)

HOLE NO.	VANNING ESTIMATE		Depth	ASSAY CHECK Tin Content (%Sn)
	Depth	Tin Content		
16	0 to 2.0	High		
	2.0 to 4.0	Trace		
17	0 to 1.0	Medium		
	1.0 to 4.0	Trace		
18	0 to 3.0	Trace		
19	0 to 1.0	Trace		
20	0 to 3.0	Trace		
21	0 to 3.0	Trace		
	3.0 to 4.0	Medium		

HOLE NO.	VANNING ESTIMATE		Depth	ASSAY CHECK Tin Content (%Sn)
	Depth	Tin Content		
1	0 to 1.0	Medium		
	1.0 to 2.0	Trace		
2	0 to 1.0	Medium		
	1.0 to 4.0	Trace		
3	0 to 1.0	High		
	1.0 to 3.0	Trace		
4	0 to 1.0	High	0 to 1.0	0.274
	1.0 to 2.0	Medium		
5	0 to 1.0	High		
	1.0 to 2.0	Medium		
	2.0 to 3.0	Trace		
6	0 to 2.0	Medium		
	2.0 to 3.0	High		
	3.0 to 4.0	Trace		
7 & 6	0 to 3.0	Medium		
	3.0 to 4.0	Trace		
9	0 to 2.0	Trace		
	2.0 to 3.0	Medium		
	3.0 to 4.0	Trace		
10 & 11	0 to 3.0	Trace		
12	0 to 4.0	Trace		

LINE NO.4

HOLE NO.	VANNING ESTIMATE		ASSAY CHECK	
	Depth		Depth	Tin Content (%Sn)
1	0	to 2.0m		Trace
2	0	to 3.0m		Trace
3 & 4	0	to 1.0		Trace (Cemented)
5	0	to 6.0		Nil
6	0	to 4.0		Trace
7	0	to 1.0		Medium
		1.0 to 2.0		Trace
		2.0 to 3.0		Medium
		3.0 to 4.0		Trace
8	0	to 2.0		Medium
		2.0 to 4.0		Trace
9	0	to 2.0		Medium
		2.0 to 3.0		Trace
10	0	to 3.0		Trace
11	0	to 2.0		Trace
		2.0 to 3.0		Medium
12	0	to 4.0		Trace
13	0	to 3.0		Nil
14 to 16	0	to 3.0		Trace

HOLE NO.5

HOLE NO.	VANNING ESTIMATE Depth	Tin Content	ASSAY CHECK Depth	Tin Content (%Sn)
1	0 to 2.0	High		
	2.0 to 3.0	Trace		
	3.0 to 4.0	Medium		
2	0 to 1.0	Medium		
	1.0 to 4.0	Trace		
3	0 to 1.0	Medium		
	1.0 to 3.0	Trace		
4	0 to 1.0	Medium		
5 & 6	0 to 1.0	Medium		
	1.0 to 2.0	Trace		
7	0 to 1.0	Trace		
8	0 to 1.0	High		
	1.0 to 2.0	Medium		
9	0 to 2.5	Trace		
10	0 to 1.0m	Trace		
11	0 to 1.0	Nil		
12 to 15	0 to 3.0	Nil (Basalt)		
16 & 17	0 to 1.0	Medium		
	1.0 to 3.0	Trace		
18	0 to 1.0	Trace		
	1.0 to 2.0	Medium		
	2.0 to 3.0	Trace		
19 & 20	0 to 3.0	Trace		



METALS EXPLORATION LIMITED				MOUNT BISCHOFF TIN PROSPECT	
REVISIONS				DATE - 11-8-'81	DRAWING NUMBER
DRAWN	DATE	DRAWN	DATE	SCALE - 1:500	571017
RJR	2-11-'82			DRAWN - RJR	
RJR	15-4-'83				SP-404-AY(15)

D of M	A.O.	C.G.	E.O.	D.B.M.E.
Received Answered				1 = SEP 1983
				Registrar
				E & IL
DEPT. OF MINES				
REF. No. 7098/83				

MT. BISCHOFF TIN PROSPECT
EXPLORATION LICENCE 13/79
AND AUTHORITY TO PROSPECT 5/8
TASMANIA

REPORT FOR APRIL-JUNE 1983

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GENERAL

During the period Project files and records were transferred from CRA Services offices to Metals Exploration Ltd. and MEL resumed management of the Mt. Bischoff Joint Venture.

An agreement was drawn up between Dr. Solomon and Mr. Scott Halley and MEL permitting Mr. Halley access to certain Project data and core etc. for the purpose of PhD studies into Mt. Bischoff ore genesis.

PRE-DEVELOPMENT WORKOre Reserves

A review of geological ore reserves was undertaken by Douglas McKenna and Partners on the following basis:

- (i) Include all defined mineralisation without reference to possible open pits
- (ii) Create a separate category of "Non Drill Indicated Ore", representing possible ore in poor core recovery zones
- (iii) Review ore densities
- (iv) Re-estimation of possible ore in vein deposits including Fooks Lode, and outline necessary drilling to prove up Fooks Lode reserves

This work has been completed and revised geological reserves for Bischoff are given in Table 1. These reserves are to be used in a review of mine planning and mineable ore reserves. The category Non Drill Indicated "Possible" ore will be used for mining sensitivity studies only.

Results of SG work indicate that use of SG 3.0 for Porphyry ore is appropriate. However, the SG of 3.5 used in the attached reserve estimates for Dolomite Sulphide Lode (DSL) may be low by some 4.3%.

Don Hill Alluvials

Results of hand auger drilling south of Don Hill were assessed and a programme formulated for trenching in the area to test for continuity of high tin values reported previously.

Samples of spoil were taken from a trench dug between Lines 1A and 1 in the above area. These assayed 1.303 and 1.425% Sn respectively.

Development Programme & Budget

Work was initiated on the detailed Programme and Budget for Mine development at an annual rate of approximately 250 tonnes per annum contained tin.

CARE AND MAINTENANCE

Facilities on site remained on care and maintenance during the period. Unfortunately, Mr. J. Housego who had been acting as caretaker passed away during June.

Verbal agreement was reached with the tributor Mr. D. Kenworthy as to a revised tribute with Metals Exploration Ltd. limiting tonnage extractable to 3.0 tonnes per annum contained tin.

APPENDED INFORMATION

- (I) EXPENDITURE STATEMENT APRIL-JUNE 1983
- (II) SUMMARY OF PROJECT EXPENDITURE TO 30TH JUNE, 1983
- (III) TABLE I - MOUNT BISCHOFF PROJECT, GEOLOGICAL RESERVES,
JUNE, 1983

MOUNT BISCHOFF JOINT VENTURE
EXPENDITURE STATEMENT
APRIL TO JUNE 1983

	ACTUAL \$	BUDGET \$
ADMINISTRATION		
Technical Services	14,280	17,000
Travel & Accommodation	466	1,200
Legal	8,048	9,000
General Expenses	1,010	1,500
	-----	-----
TOTAL ADMINISTRATION	23,805	28,700
	-----	-----
SITE CARE & MAINTENANCE		
Travel & Accommodation	280	400
Labour	1,553	1,500
Vehicles	251	300
Consumables	(34)	300
Lease Expenses	270	1,000
	-----	-----
TOTAL CARE & MAINTENANCE	2,321	3,500
	-----	-----
PRE-DEVELOPMENT - PROJECT WORK		
Technical Services	14,324	7,000
Consulting	3,369	3,000
Travel & Accommodation	1,057	400
Consumables	935	200
Assay	-	200
	-----	-----
TOTAL PROJECT WORK	19,685	10,800
	-----	-----
<u>TOTAL:</u>	\$45,812	\$43,000
	=====	=====

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MT. BISCHOFF JOINT VENTURE
SUMMARY OF EXPENDITURE
TO 30TH JUNE 1983

	CURRENT PERIOD \$	ACCUMULATIVE \$
STAGE 1		305,000
STAGE 2A		228,000
STAGE 2B		522,000
STAGE 3A		861,000
STAGE 3B		674,000
STAGE 4		750,000
PRE-DEVELOPMENT COSTS	45,800	46,000
<u>TOTAL</u>	<u>\$45,800</u>	<u>\$3,386,000</u>

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TABLE 1.

MOUNT BISCHOFF PROJECT - GEOLOGICAL RESERVES

JUNE 1983

DOLOMITE SULPHIDE ORE: (0.3% Sn CUT OFF)

	MEL 1982 PUBLISHED RESERVE		CRA 1982 RESERVE		MEL JUNE 1983 RESERVE				
	TONNES	% SN	TONNES SN	TONNES	% SN	TONNES SN	TONNES	% SN	TONNES SN
<u>Drill Indicated</u>									
Proven				53,400	1.13	603	53,400	1.12	598
Probable				1,037,000	1.05	10,889	1,053,800	1.05	11,065
Possible				212,100	0.77	1,633	221,300	0.76	1,682
TOTAL DRILL INDICATED	1,229,000	1.06	13,027	1,302,500	1.01	13,125	1,328,500	1.00	13,345
<u>Non Drill Indicated</u>									
"Possible"	-	-	-	-	-	-	99,200	0.52	516
Slaughter yard Face	-	-	-	42,000	0.91	382	42,000	0.91	382
TOTAL NON DRILL INDICATED	-	-	-	42,000	0.91	382	141,200	0.64	898
TOTAL DRILL INDICATED + NON DRILL INDICATED	1,229,000	1.06	13,027	1,344,500	1.01	13,507	1,479,700	0.97	14,243

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TABLE 1. (Continued)

PORPHYRY ORE: (0.2% Sn CUT OFF)

	MEL 1982 PUBLISHED RESERVE				CRA 1982			MEL JUNE 1983 RESERVE				
	TONNES	% SN	TONNES	SN	TONNES	% SN	TONNES	SN	TONNES	% SN	TONNES	SN
<u>Drill Indicated</u>												
Probable					1,484,300	0.46	6,828		3,325,500	0.47	15,630	
Possible					59,900	0.53	317		76,300	0.50	381	
TOTAL DRILL INDICATED	3,491,000	0.43	15,011		1,544,200	0.46	7,145		3,401,800	0.48	16,011	
<u>Non Drill Indicated</u>												
"Possible"	-	-	-		-	-	-		120,100	0.33	396	
TOTAL NON DRILL INDICATED	-	-	-		-	-	-		120,100	0.33	396	
TOTAL DRILL INDICATED + NON DRILL INDICATED	3,491,000	0.43	15,011		1,544,200	0.46	7,145		3,521,900	0.47	16,407	

NOTE: MEL 1982 PUBLISHED RESERVE - REPRESENTS STAGE 3 RESERVE (JAN 1982)

CRA 1982 RESERVE - REPRESENTS STAGE 4 RESERVE INCLUDING ADDITIONAL DRILLING, SURFACE RESULTS AND RE-INTERPRETATION - PLUS MINING LIMITATIONS

MEL JUNE 1983 RESERVES - REPRESENTS ALL STAGE IV EXPLORATION DATA, WITHOUT MINING CONSTRAINTS

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