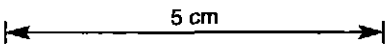


METALS EXPLORATION LTD.
& SUBSIDIARY COMPANIES



MINERAL EXPLORATION
DIAMOND DRILL LOG

Prospect, area, project or mine. MT. BISCHOFF TIN		HOLE No. <u>MED 81</u>
COLLAR LOCATION		Magnetic bearing of true and grid norths at collar (* = observed)
Grid name	Rectangular space co-ordinates	
PLANAR CO-ORDINATES		
ELEVATION		
(1) _____	1805.21 N 1000.05 E	625.27
(2) _____	_____ N _____ E	_____
(3) Aust. Map Grid	_____ mE _____ mN	_____ m A.H.D.
PRECISE / APPROX.		G.N.(1) _____ mag
G.N.(2) _____ mag		G.N.(3) _____ mag
T.N. _____ mag		_____ mag
1: 250 000 Sheet No. SK 55-3	1: 100 000 Sheet No. 8015	State Tasmania
Mineral Tenement <u>E.L. 13/79</u>	Holder <u>Metals Exploration Ltd.</u>	
Cadastral location and details	<u>Mt. Bischoff mine area, on crown land northerly of Waratah.</u>	
Inclination at collar	-55°	
Total length	133.6 m	
Commenced:	12 / 5 / 81	
Completed:	19 / 5 / 81	
Drilling contractor	<u>LONGYEAR AUST. PTY. LTD.</u>	
Rig type	<u>LONGYEAR 44</u>	
Core size and non-coring (NC)		
TRICONE	0	TO 1.6
HQ	1.6	TO 54.0
NQ	54.0	TO 133.6
		TO _____
		TO _____
		TO _____
Details of down hole location - survey methods.		
<u>Eastman Single Shot</u>		
<u>Camera</u>		
Purpose of drilling and anticipated lengths to targets.		
<u>To obtain additional DSL for metallurgical testing.</u>		
Results of down hole location - survey.		
LENGTH FROM COLLAR	MAGNETIC BEARING (Whole Circle)	DIP
AT COLLAR		
30 m	in casing	54°
60 m	329°	54°
90 m	338°	54°
133 m	327°	54°
Comments on drilling.		
<u>Very bad ground for first 48 m.</u>		
<u>Cemented (twice).</u>		
Legend for graphic log column		
FIELD ROCK NAME, ETC.		
1	Porphyry.	
2	Dolomite	
3	Recrystallised dolomite	
4	Dolomite sulphide lode - pyrrhotite rich.	
5	Dolomite sulphide lode - pyrite rich.	
6	Dolomite sulphide lode - talc rich.	
7	Dolomite sulphide lode - serpentinite rich.	
8	Dolomite sulphide lode - quartz/carbonate rich.	
9/c	Shale / carbonaceous.	
10	Siltstone.	
11/s	Quartzite / sandstone.	
12	Tuff.	
LOGGED BY <u>D. COMPSTON</u>		
FROM <u>0</u> TO <u>133.6</u>		
DATE <u>25/5/81</u>		
LOGGED BY _____		
FROM _____ TO _____		
DATE _____		
LOGGED BY _____		
FROM _____ TO _____		
DATE _____		
Company managing exploration programme.		SUMMARY LOG
<u>Metals Exploration Ltd.</u>		HOLE No. <u>MED 81</u>
		Log sheet 1 of <u>3</u>

DEPTH (length from collar)	DEPTH from - to : ROCK UNIT Depth Description and notes INDENTED ABOUT 10mm	CAPITAL LETTERS, UNDERLINED	POINTER # CORE	GRAPHIC LOG	POINTER # CORE	MINERALISATION	BULKED ASSAYS Ni
NOTES: 1. FOR ABBREVIATIONS SEE "FIELD GEOLOGIST'S MANUAL", D.A. BERKMAN & W.R. RYALL (ED.), MONOGRAPH NO. 9 - AUSTRALAS. INST. MIN. METALL. - 1976 2. ATTITUDE OF BEDDING, VEIN, ETC. IS ANGLE BETWEEN PLANAR STRUCTURE AND LONG AXIS OF CORE 3. LENGTH IS GIVEN AS METRES OR MILLIMETRES							
0	1.6 0 - 1.6 TRICONE. No core.						
37.1	1.6 - 38.7 DOLOMITE SULPHIDE LODE, RECRYSTALLIZED DOLOMITE. 1.6 - 6.0: DSL - 50% qtz-carbonate 20% fluorite (wrigglite) 30% py } very poor recovery 6.0 - 12.0: clay - very poor recovery. 12.0 - 15.6: DSL - very poor recovery. 65% qtz-carbonate 30% py 5% recrystallized dolomite. 15.6 - 21.3: clay, poor recovery. 21.3 - 27.3: recrystallized dolomite, very poor recovery. 27.3 - 31.8: no core. 31.8 - 38.7: recrystallized dolomite.					py - 30% in irregular veins and aggregates. sph - minor in veins.	
20						py trace in veins and stringers.	
40	8.1 38.7 - 46.8 PORPHYRY. Matrix off-white to grey, translucent 7% qtz phenocrysts.		1			15% py >> po > gal. py coarsely dissem. and in veins. po! gal - minor in veins.	
	1.1 46.8-48.7 DOLOMITE SULPHIDE LODE. Mainly "wrigglite"			8/7/5		py > po - irregular veins	
	2.3 48.7-51.0 NO CORE.						
60	11.7 51.0 - 62.7 DOLOMITE, minor RECRYSTALLIZED DOLOMITE. Pale grey dolomite with minor veins of recrystallized dolomite.			2/3		py trace in occasional veins.	
	16.9 62.7 - 79.6 PORPHYRY. Matrix off-white, translucent lustre 15% qtz phenocrysts to 8 mm diam. Feldspars replaced by sulphides. Rare dissem. fluorite.		1			po >> py po, py coarsely disseminated py also in veins.	
80	4.2 79.6 - 83.8 DOLOMITE. Pale grey, well-bedded dolomite.		2			po > py > gal - trace (~1%) all in veins.	
	2.3 83.8-86.1 PORPHYRY - translucent white matrix.		1			po > py 15% coarsely dissem.	
100	27.8 86.1 - 113.9 SILTSTONE, lesser QUARTZITE. 86.1 - 88.9: transition zone - abundant qtz carb.-py veins. 88.9 - 113.9: siltstone with lesser grey qtzite. Moderately to strongly disrupted in parts.			10/ 11		py > po trace in veins and stringers. Minor py disseminated in some qtzite beds.	
	13.7 113.9 - 127.6 DOLOMITE, SHALE. Interbedded silicified dolomite and shale. Strongly disrupted and brecciated in most parts.			2/9		po > py > sph all in veins and stringers, sometimes with carbonate.	
							

CONTINUED ON NEXT PAGE.

FOR LEGEND
SEE DRAWING
NO.



**METALS
EXPLORATION
LIMITED**

**SUMMARY
DRILL LOG
Scale**

Prospect or project

Mt. Bischoff Tin

HOLE No. MBD 81

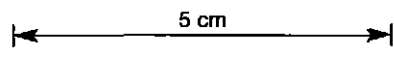
LOG SHEET 1 OF 2

DEPTH (length from collar)	INTERVAL	DEPTH from - to : ROCK UNIT Depth Description and notes INDENTED ABOUT 10mm	CAPITAL LETTERS, UNDERLINED	POWER	GRAPHIC	MINERALISATION	BULKED ASSAYS Ni
				8 CODE	LOG		

NOTES:
 1. FOR ABBREVIATIONS SEE "FIELD GEOLOGIST'S MANUAL", D. A. BERKMAN & W. R. RYALL (ED.), MONOGRAPH NO. 9 - AUSTRALAS. INST. MIN. METALL. - 1976
 2. ATTITUDE OF BEDDING, VEIN, ETC. IS ANGLE BETWEEN PLANAR STRUCTURE AND LONG AXIS OF CORE 3. LENGTH IS GIVEN AS METRES OR MILLIMETRES.

CONTINUED FROM PREVIOUS PAGE.

120	6.0	<u>127.6 - 133.6 SHALE, SILTSTONE, QUARTZITE.</u> Strongly disrupted and slumped.		9/ 10/ 11	po, py trace in veins and stringers.	
140		<u>END OF HOLE 133.6 m</u>				



FOR LEGEND
SEE DRAWING
NO.



**METALS
EXPLORATION
LIMITED**

**SUMMARY
DRILL LOG
Scale**

Prospect or project
Mt. Bischoff Tin

HOLE No. MBD 81
LOG SHEET 2 OF 2

SAMPLE NO.	SAMPLE NO	FROM	TO	INTER VAL	Sn	Sn	Cu	Pb	Zn	Ag	W	Au	Check Sn	Bulked Assays
SPLIT CORE	GROUND CORE	m	m	m	SPLIT	GROUND								
121439		1.6	2.6	1.0	108%									
40		2.6	4.6	2.0	141									
41		4.6	6.0	"	1350									
42		6.0	7.5	1.5	360									
43		7.5	9.0	1.5	30									
44		10.5	12.0	2.0	500									
45		12.0	13.5	1.5	4900									
46		13.5	15.6	2.1	4500									
47		15.6	17.2	1.6	840									
48		17.2	18.3	1.1	1200									
49		19.8	21.3	1.5	30									
450		21.3	22.8	1.5	20									
51		22.8	24.3	"	30									
52		24.3	26.0	1.7	10									
53		26.0	28.8	2.8	100									
54		31.8	32.8	1.0	160									
55		32.8	33.8	"	200									
56		33.8	34.8	"	470									
57		34.8	35.8	"	2150									
58		35.8	36.8	"	540									
59		36.8	37.8	"	230									
460		33.0	34.5	1.5	120									
61		34.5	36.0	"	860									
62		36.0	37.0	1.0	1550									
121463		37.0	38.0	"	240									

Notes: -

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT
 ASSAY SUMMARY SHEET HOLE NO. MBD 81
 SAMPLE TYPE : DRILL CORE FROM 1.6 TO 38.0

832244
 200

SAMPLE NO.	SAMPLE NO	FROM	TO	INTER-VAL	Sn	Sn	Cu	Pb	Zn	Ag	W	Au	Check Sn	Bulked Assays
SPLIT CORE	GROUND CORE	m	m	m	SPLIT	GROUND								
121464		38.0	38.8	0.8	6450									
65		38.8	39.8	1.0	820									
66		39.8	40.8	"	600									
67		40.8	41.8	"	170									
68		41.8	42.8	"	920									
69		42.8	43.8	"	280									
470		43.8	44.9	1.1	1500									
71		44.9	45.9	1.0	880									
72		45.9	46.9	"	6550									
73		46.9	47.9	"	19200									
74		47.9	48.7	"	4650									
75		51.0	52.9	1.9	170									
76		54.0	55.0	1.0	80									
77		55.0	56.0	"	25									
78		56.0	57.0	"	50									
79		57.0	58.0	"	200									
480		58.0	59.0	"	1150									
81		59.0	60.0	"	490									
82		60.0	61.0	"	1500									
83		61.0	62.0	"	210%									
84		62.0	62.7	0.7	127%									
85		62.7	63.7	1.0	2050									
86		63.7	64.7	"	3350									
87		64.7	65.7	"	1800									
88		65.7	66.7	"	1350									
89		66.7	67.7	"	680									
490		67.7	68.7	"	2950									
121491		68.7	69.7	"	3900									

Notes:—

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT
 ASSAY SUMMARY SHEET HOLE NO. MBD 81.

SAMPLE TYPE : DRILL CORE FROM 38.0 TO 69.7.

832245
237

SAMPLE NO.	SAMPLE NO	FROM	TO	INTER VAL	Sn	Sn	Cu	Pb	Zn	Ag	W	Au	Check Sn	Bulked Assays
SPLIT CORE	GROUND CORE	m	m	m	SPLIT	GROUND								
121492		69.7	70.7	1.0	1700									
93		70.7	71.7	"	1650									
94		71.7	72.7	"	3250									
95		72.7	73.7	"	4000									
96		73.7	74.7	"	3600									
97		74.7	75.7	"	2350									
98		75.7	76.7	"	2200									
99		76.7	77.7	"										
120800		77.7	78.7	"										
01		78.7	79.5	0.8										
02		79.5	81.5	2.0										
120803		82.9	83.9	1.0										
04		83.9	84.9	"										
05		84.9	86.0	1.1										
06		86.0	87.0	1.0										
120807		80.5	81.5	1.0										
08		81.5	82.9	1.4										
120811		112.9	113.9	1.0										
12		113.9	115.4	1.5										
13		115.4	116.4	1.0										
14		116.4	117.4	"										
15		117.4	118.2	0.8										
16		118.2	118.9	0.7										
17		118.9	119.9	1.0										
18		119.9	121.0	1.1										
19		121.0	122.2	1.2										
20		122.2	122.8	0.6										

Notes:—

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT
 ASSAY SUMMARY SHEET HOLE NO. MBD 81
 SAMPLE TYPE : DRILL CORE FROM 69.7 TO 122.8

832246
238

