832225 217

METALS EXPLORATION LTD.
& SUBSIDIARY COMPANIES

MINERAL EXPLORATION
DIAMOND DRILL LOG

Prospect, area, project or mine: MT. BISCHOFF TIN

HOLE No. MBD 75

COLLAR LOCATION

	Grid name	Rectangular space co-ordinates PLANAR CO-ORDINATES		ELEVATION
(1)		2312.75 N	1261.05 E	709.3
(2)		N	E	
(3) Aust. Map Grid PRECISE / APPROX.		mE	mN	m A.H.D.

Magnetic bearing of true and grid norths at collar (* = observed)

G.N.(1) _____ mag
G.N.(2) _____ mag
G.N.(3) _____ mag
T.N. _____ mag

1:250 000 Sheet No. SK55-3
1:100 000 Sheet No. 8015
State Tasmania

Mineral Tenement: E.L. 13/79
Holder: Metals Exploration Ltd.

Cadastral location and details: Mt. Bischoff mine area, on crown land northerly of Waratah.

Inclination at collar: -90°
Total length: 174.0 m
Commenced: 27 / 4 / 81
Completed: 6 / 5 / 81

Drilling contractor: PARRY EXPL. DRILLING.
Rig type: BAYLES 37

Details of down hole location-survey methods.
Eastman Single Shot Camera.

Purpose of drilling and anticipated lengths to targets.
To test the Queen Dyke Porphyry. Anticipated length to target 95 - 105 m.

Core size and non-coring (NC)

TRICONE	0	TO	3.0 m
NQ	3.0 m	TO	69.0 m
BQ	69.0 m	TO	174.0 m
		TO	
		TO	
		TO	

Results of down hole location-survey.

LENGTH FROM COLLAR	MAGNETIC BEARING (Whole Circle)	DIP
AT COLLAR		
30 m	262	88.5
60 m	066	89
90 m	096	88
120 m	137	88
150 m	215	88½
171 m	176	88½

Comments on drilling.

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.

Symbols and abbreviations

LOGGED BY D. COMPSTON
FROM 0 TO 174.0
DATE 10/5/81

LOGGED BY _____
FROM _____ TO _____
DATE _____

LOGGED BY _____
FROM _____ TO _____
DATE _____

Company managing exploration programme.
Metals Exploration Ltd.

SUMMARY LOG

HOLE No. MBD 75
Log sheet 1 of 3

DEPTH (length from collar)	INTERVAL	DEPTH from - to : ROCK UNIT (capital letters, underlined) Depth Description and notes (indented about 10mm)	POINTER & CODE	GRAPHIC LOG	POINTER & CODE	MINERALISATION	ASSAYS AVAILABLE	BULKED ASSAYS Ni
0	3.0	0 - 3.0 TRICONE. No core.						
	44.8	3.0 - 47.8 QUARTZITE, lesser SILTSTONE, minor SHALE. Weakly to moderately disrupted in parts. Mainly fine light-grey qtzite, with lesser siltstone. Occasional thin shale beds.		11/10/9		7py trace weathered ?py in veins and stringers.		
20								
40		5 cm						
	22.8	47.8 - 70.6 SILTSTONE, lesser QUARTZITE, minor SHALE. As above, except siltstone more abundant than qtzite.		10/11/9		as above.		
60								
	10.0	70.6 - 80.6 QUARTZITE, minor SILTSTONE, SHALE. Mainly mid-grey, fine qtzite, in beds up to 1.5 m. Minor thin beds of siltstone and shale.		11/10/9		as above		
80								
	22.3	80.6 - 102.9 SILTSTONE, lesser QUARTZITE, minor SHALE. Moderately disrupted in parts. Mainly thin bedded siltstone, with lesser qtzite and minor shale. Common thin py veins and stringers. Occasional qtz veins.		10/11/9		py - 1% common thin veins and stringers.		
100								
	42.8	102.9 - 145.7 QUARTZITE, minor SILTSTONE, SHALE. Moderately disrupted in parts. Mainly fine-medium qtzite, with minor thin siltstone and shale. Occasional qtz veins and stringers.		11/10/9		py - 1-2% in veins and stringers also disseminated through qtzite.		
120								

NOTES: 1. FOR ABBREVIATIONS SEE "FIELD GEOLOGIST'S MANUAL". D.A. BERKMAN & W.R. RYALL (EDS.), 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.

FOR LEGEND SEE DRAWING NO.

METALS EXPLORATION LIMITED

SUMMARY DRILL LOG
Scale

Prospect or project: Mt. Bischoff Tin

HOLE No. MBD 75

LOG SHEET 1 OF 2

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

120

CONTINUED FROM PREVIOUS PAGE.

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INTERVAL	DEPTH from - to : ROCK UNIT	GRAPHIC LOG	MINERALISATION
20.4	145.7 - 166.1 PORPHYRY. Altered matrix, translucent grey colour. 10% qtz phenocrysts up to 5 mm. Feldspars almost entirely replaced by sulphide (py). Occasional veins of qtz-py-arsenopy.	1	py, arsenopy 15% py - coarsely disseminated through porphyry. Also as veins with qtz and arsenopy.

160

INTERVAL	DEPTH from - to : ROCK UNIT
7.9	166.1 - 174.0 SILTSTONE, lesser QUARTZITE. Moderately disrupted and slumped in parts. Mainly thin, interbedded siltstone and qtzite.

END OF HOLE 174.0 m

5 cm

FOR LEGEND SEE DRAWING NO.

METALS EXPLORATION LIMITED

SUMMARY DRILL LOG

Scale

Prospect or project: Mt. Bischoff Tin

HOLE No. MBD 75

LOG SHEET 2 OF 2

SAMPLE NO.	SAMPLE NO	FROM	TO	INTERVAL	Sn	Sn	Cu	Pb	Zn	Ag	W	Au	Check Sn	Bulked Assays
SPLIT CORE	GROUND CORE	m	m	m	SPLIT	GROUND								
	120776	3.0	5.0	2.0		795								
	77	5.0	7.0	"		95								
	78	7.0	9.0	"		160								
	79	9.0	11.0	"		150								
	780	11.0	13.0	"		170								
	81	13.0	16.0	"		150								
	82	15.0	17.7	"		40								
	83	17.7	20.0	"		610								
	84	20.0	22.0	"		1550								
	85	22.0	24.0	"		110								
	86	24.0	26.0	"		210								
	87	26.0	28.0	"		730								
	88	28.0	29.0	1.0		570								
	89	29.0	31.0	2.0		930								
	790	31.0	33.8	2.8		2900								
	91	33.8	35.0	1.2		300								
	92	35.0	37.3	2.3		250								
	93	37.3	39.3	2.0		85								
	94	39.3	41.3	"		85								
	95	41.3	43.3	"		50								
	96	43.3	45.2	"		65								
	97	45.2	47.2	"		85								
	98	47.2	50.0	2.8		20								
	99	50.0	52.0	2.0		65								
	121600	52.0	54.0	"		5500								
	01	54.0	56.0	"		1650								
	2	56.0	58.5	2.5		4700								
	3	58.5	60.5	2.0		1200								
	4	60.5	61.5	1.0		540								
	5	61.5	63.5	2.0		5150								

Notes :— XRF 214 method

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT

ASSAY SUMMARY SHEET HOLE NO. MBD75

SAMPLE TYPE : DRILL CORE FROM 3.0 TO 63.5

Ground.

SAMPLE NO.	SAMPLE NO	FROM	TO	INTERVAL	Sn	Sn	Cu	Pb	Zn	Ag	W	Au	Check Sn	Bulked Assays
SPLIT CORE	GROUND CORE	m	m	m	SPLIT	GROUND								
	121606	63.5	65.5	2.0		300								
	7	65.5	67.5	"		2300								
	8	67.5	69.5	"		310								
	9	69.5	71.5	"		280								
	610	71.5	73.5	"		180								
	11	73.5	75.5	"		210								
	12	75.5	77.5	"		>100								
	13	77.5	79.5	"		660								
	14	79.5	81.5	"		260								
	15	81.5	83.5	"		120								
	16	83.5	85.5	"		140								
	17	85.5	87.5	"		1700								
	18	87.5	89.5	"		410								
	19	89.5	91.5	"		210								
	620	91.5	93.5	"		120								
	21	93.5	95.5	"		390								
	22	95.5	97.5	"		1700								
	23	97.5	99.5	"		1100								
	24	99.5	101.5	"		190								
	25	101.5	103.2	1.7		330								
	26	103.2	105.2	2.0		1600								
	27	105.2	107.2	"		590								
	28	107.2	109.2	"		300								
	29	109.2	111.2	"		330								
	630	111.2	113.2	"		180								
	31	113.2	115.2	"		360								
	32	115.2	117.2	"		350								
	33	117.2	119.5	2.3		550								
	34	119.5	121.5	2.0		670								
	35	121.5	123.5	"		490								

Notes :—

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT

ASSAY SUMMARY SHEET HOLE NO. MBD 75

SAMPLE TYPE : DRILL CORE ground FROM 63.5 TO 123.5

832229

127

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								
	121636	123.5	125.5	2.0		290								
	37	125.5	127.5	"		160								
	38	127.5	129.5	"		550								
	39	129.5	131.5	"		240								
	640	131.5	133.5	"		350								
	41	133.5	135.5	"		120								
	42	135.5	137.5	"		210								
	43	137.5	139.5	"		140								
	44	139.5	141.5	"		550								
	45	141.5	143.5	"		370								
	46	143.5	144.7	1.2		200								
121417		144.7	145.7	1.0	550									
18		145.7	146.7	"	380									
19		146.7	147.7	"	580									
420		147.7	148.7	"	310									
21		148.7	149.7	"	450									
22		149.7	150.7	"	370									
23		150.7	151.7	"	160									
24		151.7	152.7	"	80									
25		152.7	153.7	"	75									
26		153.7	154.7	"	50									
27		154.7	155.7	"	100									
28		155.7	156.7	"	25									
29		156.7	157.7	"	75									
430		157.7	158.7	"	200									
31		158.7	159.7	"	720									
32		159.7	160.7	"	1400									
33		160.7	161.7	"	2450									
34		161.7	162.7	"	320									
35		162.7	163.7	"	720									

Notes :—

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT

ASSAY SUMMARY SHEET HOLE NO. MBD75

SAMPLE TYPE : DRILL CORE FROM 123.5 TO 163.7

Ground. / split

8322230

222

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								
121436		163.7	164.7	1.0	130									
37		164.7	166.0	1.3	685									
38		166.0	167.0	1.0	170									
	121647	167.0	169.0	2.0		420								
	48	169.0	171.0	2.0		120								
	49	171.0	172.5	1.5		95								
	50	172.5	174.0	1.5		110								

Notes :—

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT

ASSAY SUMMARY SHEET HOLE NO. MBD 75

SAMPLE TYPE : DRILL CORE FROM 163.7 TO

split / Ground.

832231 223