832302 293

METALS EXPLORATION LTD. & SUBSIDIARY COMPANIES

MINERAL EXPLORATION
DIAMOND DRILL LOG

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

HOLE No. MBD 82

COLLAR LOCATION

Grid name | Rectangular space co-ordinates: PLANAR CO-ORDINATES | ELEVATION

(1) _____ 1961.75 N 1080.03 E 643.47

(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) 330° mag

G.N.(2) _____ mag

G.N.(3) _____ mag

T.N. 360° 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 -64°

Total length 121.4

Commenced: 20 / 5 / 81

Completed: 22 / 5 / 81

Drilling contractor: LONGYEAR AUST. P/L

Rig type: LONGYEAR 44

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

Purpose of drilling and anticipated lengths to targets: To test dolomite from 0 - 40 m, and intersect White Face Porphyry from 85 m - 105 m. Total depth anticipated 120.0 m.

Core size and non-coring (NC)

TRICONE	0	TO	1.5
HQ	1.5	TO	8.5
NQ	8.5	TO	58.5
BQ	58.5	TO	121.4
		TO	
		TO	

Results of down hole location-survey.

LENGTH FROM COLLAR	MAGNETIC BEARING (Whole Circle)	DIP
AT COLLAR		
30 m	in casing (po rich)	64°
60 m	166°	64°
90 m	151°	64°
120 m	154½°	64 3/4°

Comments on drilling: Rig push off-line during drilling. 3 m HQ casing & casing shoe left in hole.

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 121.4 DATE 29/5/81

LOGGED BY _____ FROM _____ TO _____ DATE _____

LOGGED BY _____ FROM _____ TO _____ DATE _____

Company managing exploration programme: Metals Exploration Ltd.

SUMMARY LOG

HOLE No. MBD 82

Log sheet 1 of 2

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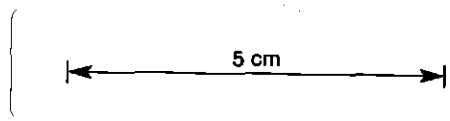
DEPTH (length from collar)	INTERVAL	DEPTH from - to : ROCK UNIT (capital letters, underlined) Depth Description and notes (indented about 10mm)	POINTER & CODE	GRAPHIC LOG	POINTER & CODE	MINERALISATION	ASSAYS AVAILABLE	BULKED ASSAYS Ni
0		0.0 - 1.5: NO CORE.						
		1.5 - 2.7: DOLOMITE SULPHIDE LODE-mainly wrigglite.		8/5		15% py - irregular veins.		
	5.4	2.7 - 8.1: RECRYSTALLIZED DOLOMITE. Pale mottled grey/green recrystallized dolomite. Occasion small patches of talc.		3		po> sph 3 - 5% po as small aggregates and veins sph diss. through carbonate veins		
	2.0	8.1 - 10.8: DOLOMITE SULPHIDE LODE - 45% talc 40% qtz. carb.		6/8/4		15% po-irregular aggregates & veins.		
	1.7	10.1-11.8: SHALE-dark chloritic shale, disrupted.		9		no apparent mineralization.		
20	21.9	11.8 - 33.7: SILTSTONE, MINOR SHALE. Mainly grey, silicified siltstone, weakly dolomitic, with minor black shale. Strongly disrupted in parts.		10/9		po, py trace in veins and stringers.		
	3.9	33.7 - 37.6: DOLOMITE, RECRYSTALLIZED DOLOMITE. Pale grey fine dolomite with veins and patches of cream recrystallized dolomite.		2/3		po - 1-2% in occasional stringers and disseminated grains.		
40	18.3	37.6 - 55.9: DOLOMITE SULPHIDE LODE. 37.6 - 46.0: 60% bronze pyrrhotite 30% qtz - carbonate 10% serpentine/talc		4/8/6		po - irregular aggregates, bands and veins 60%		
		46.0 - 55.9: 40% bronze pyrrhotite 50% mid-green talc 10% qtz - carbonate		4/6/8		po>>py po - irregular bands and aggregates py - occasional veins and diss. grains through po. 40%		
60	28.3	55.9 - 84.2: PORPHYRY. Translucent grey/white matrix. 15% qtz phenocrysts to 5 mm. 25% feldspar phenocrysts to 8 mm, totally replaced by sulphide. Minor disseminated, fluorite. Rare veins po.	50%	1		20-25% pyrrhotite, py - coarsely diss. replacing feldspars. Also rare veins of po, py.		
80	1.1	84.2 - 85.3: DOLOMITE SULPHIDE LODE. 75% po, 20% qtz - carbonate.	60%	4/8		75% pyrrhotite - aggregates and bands.		
	21.1	85.3 - 106.4: DOLOMITE, minor RECRYSTALLIZED DOLOMITE. Pale grey, finely crystalline dolomite, with minor veins of recrystallized dolomite. Abundant thin veins of black material.		2/3		py trace in rare veins and stringers.		
100								
	15.0	106.4 - 121.4: QUARTZITE, lesser SILTSTONE, minor SHALE. Moderately disrupted in parts. Siliceous qtzite in beds up to 1.2 m, thinner siltstone and minor shale. Occasional qtz and py veins and stringers.		11/10/9		py trace in rare veins and stringers.		
120		END OF HOLE 121.4				FOR LEGEND SEE DRAWING NO.		

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.

METALS EXPLORATION LIMITED

SUMMARY DRILL LOG Scale

Prospect or project: Mt. Bischoff Tin

HOLE No. MBD 82

LOG SHEET 2 OF 2