REF No 18547

7

ABMINCO N.L.
CLEVELAND MINE

HOLE No.: 31214

66 15637.207
10947.846

CATEGORY

GENERAL DATA

Objective: Stope design

Area of Operation: Cleveland Tin TAS Location: 15 CNth Gb.,

Collar R.L.: Co-ordinates: 15577.57 N, 11013.33 E.

Bearing of Hole: 131° 34' 12" Angle of Hole: -21° 49' 24" Final Depth: 35.05 m

Drilling Commenced: 7/7/77 Completed: Logged by: T.T.

DRILLING DATA

Drilled by: Philpott Non Coring:

Drilling Rig: E500 Coring: EXT

Driller(s):

Core Recovery:

HOLE SURVEYS

35.05m -21°

HOLE No.:

NWPS 24164

23 301

HOLE No.: C1214

SAMPLE DATA

SHEET No.: 1

LENS	SAMPLE No.	ROCK TYPE	Σ(l)	INTERVAL From	INTERVAL To	Length (L)	Assays (A) % Snt	Assays (A) % Sns	Assays (A) % Cu	Product (A x L) P. Snt	Product (A x L) P. Sns	Product (A x L) P. Cu
	108528	Lode	0·91	0	3'	3'	1·15	0·12	0·03			
	9	"	0·23	4'3"	5'	9"	3·10	0·11	3·05			
	30	"	0·84	6'11"	9'8"	2'9"	0·64	0·06	0·48			
	1	"	0·56	10'6"	12'4"	1'10"	7·20	0·24	3·04			
			Σ	0	124"	3·76	2·07	0·08	1·31			
	2	Fault Lode	0·81	22'2"	24'10"	2'8"	0·95	0·03	1·41			
	3	Lode	0·81	24'10"	27'6"	2'8"	1·86	0·02	1·33			
	4		0·76	27'6"	30'	2'6"	0·27	002	1·23			
				22'2"	30'0"							
			Σ	6·76	9·14	2·38	1·04	0·02	0·93			
	5	Lode	0·84	93'6"	96'3"	2'9"	1·18	008	0·66			
	6	"	0·69	96'3"	98'6"	2'3"	0·71	0·05	0·49			
	7	"	0·20	99'4"	100'	8"	0·33	0·02	0·53			
				93'6"	100'0"							
			Σ	28·50	30·48	1·98	0·89	0·05	0·57			

N.W.P.S.

GEOLOGICAL LOG

HOLE No. C-1214

SHEET No.....

From.....To.....

LIFTS			DRILL INTERVAL			BEDDING	ROCK TYPE	DESCRIPTION	ASSAYS		
From	To	Recovery	From	To	Length	Angle to Core Axis			% Snt	% Sns	% Cu
0	7	5'6"	0.	3	3'		lode	Chlorite carbonate with submassive pyrrhotite and chalcopyrite sulphides miggy in places.			
7	12	4'9"									
12	19	7'									
19	29	10'									
29	36'6"	7'	3'	4'3"	1'3"		chert	fawn banded chert			
36'6"	38	1'6"	4'3"	5'	9"		chert/lode	cherty material with chlorite carbonate pyrrhotite chalcopyrite min sulphides veined.			
38	48	10'									
48	58	10'									
58	65'6"	7'3"	5'	6'11"	1'11"		chert	as before.			
65'6"	72	7'	6'11"	9'8"	2'9"		lode.	chlorite carbonate quartz with submassive pyrrhotite chalcopyrite sulphides.			
72	78'6"	6'									
78'6"	81'6"	3'6"									
81'6"	86'	3'10"	9'8"	10'6"	10"		chert	as above.			
86'	92'6"	6'4"	10'6"	12'4"	10"		Lode chert	as above			
92'6"	93'	4"	12'4"	19'	6'8"		~~lode~~	light grey banded chert with chlorite pyrrhotite carbonate veining if veining was more frequent this unit would be a min chert.			
93'	102'	7'9"									
102'	105'	3'									
105'	115'	9'8"									

N.W.P.S.

HOLE No. C1214

GEOLOGICAL LOG

SHEET No. ..... From ..... To .....

LIFTS From	LIFTS To	LIFTS Recovery	DRILL INTERVAL From	DRILL INTERVAL To	Length	BEDDING Angle to Core Axis	ROCK TYPE	DESCRIPTION	ASSAYS % Snt	ASSAYS % Sns	ASSAYS % Cu
			19'	22'2"	3'2"		Shale.	mid grey mottled shale minor colour variation to darker grey and mid red-brown.			
				6·8							
			22'2"	24'11"	2'9"		FAULT LODE.	Highly brecciated sequence angular fragments of lode chlorite pyrrhotite chalcopyrite and light grey chert set in a matrix of fine grained buff coloured clays and gouge. Numerous veins present.			
				7·6							
			24'11"	30'	5'1"		Lode	Quartz carbonate chlorite with sub massive to veined pyrrhotite chalcopyrite.			
				9·1							
			30'	35'6"	5'6"		SST	mid grey massive medium grained greywacke			
				16·8							
			35'6"	54'10"	19'4"		Shale.	mid grey shales with disturbed bandang.			
				21·3							
			54'10"	76'6"	21'8"		Vb.	mid grey green. med - fine grained Basalt.			

N.W.P.S.

GEOLOGICAL LOG

HOLE No. C1214

SHEET No.

From To

LIFTS			DRILL INTERVAL			BEDDING	ROCK TYPE	DESCRIPTION	ASSAYS		
From	To	Recovery	From	To	Length	Angle to Core Axis			% Snt	% Sns	% Cu
			76'6"	81'6"	5'		Shale.	mid - dark grey shales.			
				24·8				massive with faint spotting			
			81'6"	84'6"	3'		Vt.	Well bedded mid grey green			
				25·8				tuff shales. becoming coarser			
								towards top.			
			84'6"	93'6"	9'		Shales.	28·5 as above.			
			93'6"	98'6"	5'		Lode	Chlorite carbonate with disseminated			
				30·0				to veined pyrrhotite - chalcopyrite.			
								~~gneiss~~ with minor internal shales.			
								Lower contact appears sheared.			
			98'6"	99'4"	10"		Chert/Shale	30·3 Banded mid grey and off white.			
								chert and silicified shales.			
			99'4"	100'	8"		Lode.	30·5 as above.			
			100'	108'6"	8'6"		Vt/Shale.	mid grey and mid grey brown shales			
				33·1				becoming better bedded and mid			
								grey green in colour. schists with			
								an tuff component.			
				33·8							
			108'6"	110'9"	2'3"		Vb.	Mid green grey massive med grained			
								basalt slightly mottled texture.			

N.W.P.S.

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HOLE No. C1214

GEOLOGICAL LOG

SHEET No.....

From.....To.....

LIFTS			DRILL INTERVAL			BEDDING	ROCK TYPE	DESCRIPTION	ASSAYS		
From	To	Recovery	From	To	Length	Angle to Core Axis			% Snt	% Sns	% Cu
			110'9"	114' 34'8	3' 3"		Shale	mid grey-brown massive shales			
			114'	115'			Vb.	as before			
				35'5							
								EOH 115' Tlp.			

NWPS