ABMINCO N.L.
CLEVELAND MINE

CATEGORY: P/A

HOLE No.: C 1483

GENERAL DATA

Objective: TEST B&C LENS 19-20 LEVEL

Area of Operation: 20 HENRY'S Location: M SECTION

Collar R.L.: 86.269 Co-ordinates: 15453.189 N, 10973.517 E.

Bearing of Hole: 130°15'13" (132) Angle of Hole: -32°46'05" (-35) Final Depth: 94.0 m

Drilling Commenced: 18.1.80 Completed: 29.1.80 Logged by:

DRILLING DATA

Drilled by: PHILPOTT Non Coring:

Drilling Rig: M 30 Coring: ~~AQ~~, AXT

Driller(s): K.DENBY, W.MOLLISON, P.SMITH.

Core Recovery:

HOLE SURVEYS

HOLE No.: C.1483

NWPS 24164

ABMINCO N.L. - Cleveland Mine

Hole No. C1483

Sheet No.

DIAMOND DRILL HOLE DATA

	PROGRAM DATA			SURVEY DATA				INTERPOLATED DATA		
				Instrument Type	Depth	Dip	Azimuth	Depth	Dip	Azimuth
1	Attitude	—	(+) (-)	SURVEY	Ø	-32 3/4	130 1/4	12 1/2	33	130 1/4
				CAMERA	9	-32 1/4	130 (135)	37 1/2	29 1/2	131 1/2
2	Hole No.	1483			32	-30	131 (136)	62 1/2	28 1/2	132
					64	-28 3/4	132 (137)	87 1/2	27 1/2	130 1/2
3	Down Hole Interval	25			94	-27 1/4	130 (135)	94		
4	Collar Co-ords.	15453.189	N							
5		10973.517	E							
6	Collar R.L.	86.269								
7	Halls Sect. Intersect Point (M)	15549.204	N							
8		10867.808	E							
9	Battery Sect. Intersect. Point (FA)	15409.213	N							
10		10838.117	E							
11	Start Plot (Depth)	Ø	Ø = Collar							

DOWN HOLE PLOT

Hole No: C1483

Sheet No:

	PLAN			CROSS SECTION		LONG SECTION					PLAN			CROSS SECTION		LONG SECTION		
DEPTH	N	E	RL	Dist.from H.R.P.	Dist.from B.R.P.	Dist. from Halls	Sect.	Dist from Batt.	Sect.	Depth	N	E	RL	Dist.from M.R.P.	Dist. from B.R.P.	Dist from Halls	Sect.	Dist. from Batt
Ø	15453·19	10973·52	86·27	142·81	111·73	0·06		88·23										
25	15439·64	10989·52	68·65	163·76	131·44	0·80		81·08										
50	15425·22	11005·82	56·34	185·52	151·72	1·10		73·21										
75	15410·52	11022·14	44·41	207·49	172·14	1·20		65·09		94·00								
100																		

ABERFOYLE **DIAMOND DRILL LOG** **HOLE Nº** 1483 Page Nº

Feature				Mineralization	
Bedding	Foliation	Shearing	Fault	Trace	1-5%
Fragment (size & shape)		Vein (c carbonate, q quartz)		Common	5-15%
				Abundant	15-60%
				Massive	> 60%

	CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		0	BASALT fine grained rock initially dark green massive. Shows brownish speckled alteration towards base where it is interbedded with thin shale bands.							
	2.95	2	band of massive black shale basalt band shale band.							
3.20	1.23	4	Bleached zone 3.7-4.3 ?fault zone. Contact is irregular, bright green						x	Ca veinlets
4.57	1.32	6	SHALE Black, very fine grained, massive, local chert bands chert breccia band - white.						x.0 x	veinlet: siderite galena minor interstitial po
6.50	0.72									
7.25	0.79	8								
8.00	1.30									
9.50	2.99	10	band of sandstone, pale grey, fine-coarse grained.						x.4	vein: qtz chl cpy 10cm thick ∠50°
12.50		12								
	3.08	14								
15.50	2.97	16 18	SANDSTONE pale-mid grey fine-medium grained poorly sorted lithic arenite Minor veins - qtz ca chl with rare sulphides - cpy po.						x.7 x x5-8	vein as below. 2 veins each 5cm thick, as below. vein: qtz: disseminated chl 10% po 20%, cpy 3%, 30cm thick
18.50	1.03									
19.50	1.89	20	shale band, black, massive, narrow						x	qtz vein
21.50	3.07	22 24	shale band, black, massive, narrow							
24.50	2.89	26	- black, massive, wide. SANDSTONE as above							
27.50	3.08	28 30	band of altered brown greenish rock ? basalt; 100 green tuff below CHERT-SHALE black - pale grey - white very hard, v fine grained rock, generally laminated.							minor quartz veins.
30.50	1.10									
31.50	1.95	32	SANDSTONE greenish grey, locally brownish, medium grained poorly sorted lithic arenite. - 33.6 slickensided joint							occasional qtz-ca veins (small).
33.50	1.53	34								
35.00	1.33	36								
36.50	1.45	38	SHALE black - dark grey, very fine grained, locally fine grained, generally massive. Minor bands of sandstone as below or minor cheda white chert.							
38.00	1.60									
39.50	3.03	40 42	SANDSTONE fine-medium grained mid grey poorly sorted generally massive lithic arenite. Rare veinlets - qtz - carbonate							
42.50	3.01	44								
45.50	3.09	46 48	Some disrupted bedding.							
48.50	3.01	50							x.2-5	qtz vein, minor calcite, tourmaline

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DIAMOND DRILL LOG

HOLE NO 1483 Page NO

Feature Bedding, Foliation, Fragment (size & shape), Shearing, Fault, Vein (c carbonate, q quartz)

Mineralization Trace 1-5% Common 5-15% Abundant 15-60% Massive > 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
51.50	50	SANDSTONE (tuff) as before, minor shale bands							
	52								
3.02	54								
54.50		band of very coarse grained unsorted arenite, merges into shale							
2.96	56	SHALE dark grey,							
57.50	58	SANDSTONE as before							
		LOBE - TUFF dark green banded chloritic							
3.01	60	SANDSTONE - TUFF fine-coarse grained, laminated-massive.							
60.50		SHALE, Black-dark grey. very fine grained massive. but thoroughly jointed to locally badly broken. at 63.0, 66.7							
1.47	62								
62.00									
1.46									
63.50	64	chert band - ? silicified shale - greenish grey						1.25	vein 4cm thick, q tz, chl, py
1.41									
65.00									
1.58	66								
66.50		CHERT pale pinkish grey, locally green, v fine grained, vhard, faintly laminated rock. Core badly broken thruout.							
	67								
2.63	68								
	69	TUFF dark green fine grained, banded (brecciated white chert). Minor sulphide - veins and blebs Copper staining on outside of core, cliff rods.							
69.50								1.5	Copper contamination on outside of core → po 10% cpy 2%
0.96	70								
70.50		Banded green tuff, fine grained, with local chert breccia (white) or quartz veins. Sulphides disseminated to blobby, rarely as veins. Brown ?carbonate ?, alteration between 70.8 — 73.5 (siderite)							quartz vein, minor po blebs
1.87	72								Overall: pyrrhotite 20% sphalerite 5% chalcopyrite 5%
72.40		tuff band, rare sulphides							
	73								gangue varies: quartz 30-60% (siderite) carbonate 60-30% tourmaline 2-5% chlorite 5-10%
2.30	74								
74.60	75								
	76								
2.84									
	77	CHERT pale pinkish grey, very fine grained, hard, massive (locally faintly banded)							
77.50									
77.90	0.30								
78.30	0.40								
78.70	0.21	SHALE - locally chert ; dark grey, locally green or brown, very fine grained, generally massive ; chaotic locally.							
79.00	0.32	79.3-.5 green, chloritic, chaotic. then brown.							
	79								
1.80	80								
80.90	81	green chloritic banded ?tuff. then pale grey shale.							
0.7									
81.60	82								
		greenish-grey, chaotic shale-in-shale							
	83								

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DIAMOND DRILL LOG

HOLE Nº 1483 Page Nº

Feature Bedding, Foliation, Fragment (size & shape), Shearing, Fault, Vein (c carbonate, q quartz)

Mineralization Trace 1-5% Common 5-15% Abundant 15-60% Massive > 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
2·62	83	SHALE (cont). as before. Fault at 82·23: 20 cm of pale brown bleached shale, slickensides on joint faces. ∠ 60° Calcite mineralization along fault. Breccia chaotic shale becomes brown massive below 84·1, then grey below 84·50.							
84·10 0·41 84·60	84								
1·00 85·60	85								
0·38 86·10	86	become purplish grey, massive.							
0·80 86·80									
0·26 87·10	87								
0·35 87·60		green chloritic ± tuffaceous band. minor sulphides							veinlets: qtz siderite po chlorite. Minor dissem. po
1·07	88								
×88·80 1·18	89	dark grey, massive, locally green							
89·95	90								
1·04 91·00	91								
2·94	92	local fine grained sandstone zones, very pebbly						92·2	quartz vein, ½ cm thick
	93							92·3	quartz vein, calcite.
94·00	94								
2·94	95	massive dark grey shale.							
	96								
2·30	97	END OF HOLE 97.00 m.							

CLEVELAND TIN - GEOLOGY DEPT.

SAMPLE ASSAY DATA

FINAL ASSAY REPORT

COMPILATION DATE: 15 JUNE 81
COMPILED BY: N. FANNING PAGE 1 OF 1
ASSAY DATES:

SAMPLE NUMBER	D.D.H. NUMBER	FACE/STOPE LENS	LEVEL	DATE	∑	FROM	TO	LENGTH	ROCK TYPE	%SnT	%SnS	%Cu	%WO3	%Mo	%Bi	%Zn
300988	1483					58.65	59.20	0.55	CH L	0.28	<0.01	0.26				
300989						68.70	69.45	0.75	CH	0.15	<0.01	0.07				
90						69.45	70.35	0.90	CH	0.18	<0.01	0.13				
91						70.35	70.64	0.29	VEIN	0.07	<0.01	0.11				
x 92						70.64	71.50	0.86	L	0.30	<0.01	0.11				
93						71.50	72.40	0.90	L	2.27	0.01	0.37				
94						72.40	73.46	1.06	CH L	1.04	<0.01	0.28				
300995						73.96	74.10	0.64	L	0.12	0.01	0.07				
96						74.10	74.60	0.50	L	1.26	<0.01	0.16				
97						74.60	75.27	0.67	L	0.17	<0.01	0.13				
98						75.27	75.95	0.68	CH W	0.16	<0.01	0.08				
x 99						75.95	76.74	0.79	CH L	0.15	<0.01	0.14				
		Halls B			✓	68.9 (70.64)	76.74	8.04 (6.1)		~~0.59~~ 0.73	0	~~0.16~~ 0.18				
301000						87.42	88.19	0.77	CH L	0.53	<0.01	0.06				
										13 SAMPLES						

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