



ABMINCO N.L.
CLEVELAND MINE

CATEGORY

P/A.

HOLE No. : C1392

GENERAL DATA

Objective : Halls Lenses below 18level

Area of Operation : 18 level Manajp Location : Da Section

Collar R.L. : 119-2 Co-ordinates : 15538-411 N, 11030-492 E.

Bearing of Hole : 131° 41' 56" (132) Angle of Hole : -13° 13' 46" (-14°) Final Depth : 86.41 m

Drilling Commenced : 13/5/79 Completed : 24/5/79 Logged by :

DRILLING DATA

Drilled by : Philpott Non Coring :

Drilling Rig : E 580 Coring : AxT

Driller(s) : B. Lovell

Core Recovery :

HOLE SURVEYS

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HOLE No. :

HOLE No.: 1392

SAMPLE DATA

SHEET No.:

LENS	SAMPLE No.	ROCK TYPE	Σ	INTERVAL		Length (L)	Assays (A)			Product (A x L)		
				From	To		% Snt	% Sns	% Cu	P. Snt	P. Sns	P. Cu
	242173	CHALCITIC SHALE/LODE		0.00	0.70	0.70	.11		.03			
	242174	LODE		0.70	2.40	1.70	.66		1.06			
	242175	CHLORITIC SHALE		2.40	3.96	1.56	.17		.47			
	242176	LODE		3.96	5.21	1.25	.30		1.28			
	242177	LODE		26.70	26.97	0.27	1.62		2.74			
	242178	LODE		28.50	29.62	1.12	.13		.06			
HALL'S B			Σ	26.7	29.62	2.9	0.20	0.01	0.28			
	242179	LODE		33.98	34.93	0.95	.53		.80			
	242180	"		34.93	35.97	1.04	1.02		.81			
	242181	"		35.97	36.94	0.97	1.60		.73			
	242182	"		36.94	38.06	1.12	.83		.55			
	242183	LODE		46.86	47.83	0.97	.85		.38			
	242184	"		47.83	48.77	0.94	.72		.26			
	242185	"		48.77	49.65	0.88	.54		.27			

HOLE No. : 1392

SAMPLE DATA

SHEET No. :

LENS	SAMPLE No.	ROCK TYPE	Σ	INTERVAL		Length (L)	Assays (A)			Product (A x L)		
				From	To		% Snt	% Sns	% Cu	P. Snt	P. Sns	P. Cu
	242173	CHALCITIC SHALE/LODE		0.00	0.80	0.80	.11		.05			
	242174	LODE		0.80	2.40	1.70	.66		1.06			
	242175	CHALCITIC SHALE		2.40	3.96	1.50	.17		.47			
	242176	LODE		3.96	5.21	1.25	.30		1.25			
	242177	LODE		26.70	26.97	0.27	1.62		2.74			
	242178	LODE		28.50	29.62	1.12	.13		.06			
	242179	LODE		33.98	34.93	0.95	.53		.50			
	242180	"		34.93	35.97	1.04	1.02		.51			
	242181	"		35.97	36.94	0.97	1.60		.73			
	242182	"		36.94	38.06	1.12	.93		.35			
	242183	LODE		46.86	47.83	0.97	.83		.35			
	242184	"		47.83	48.77	0.94	.72		.26			
	242185	"		48.77	49.65	0.88	.54		.17			
Haw's D			Σ	46.86	49.65	2.49	0.72	0.01	0.29			

ABMINCO N.L. - Cleveland Mine

Hole No. C1392.

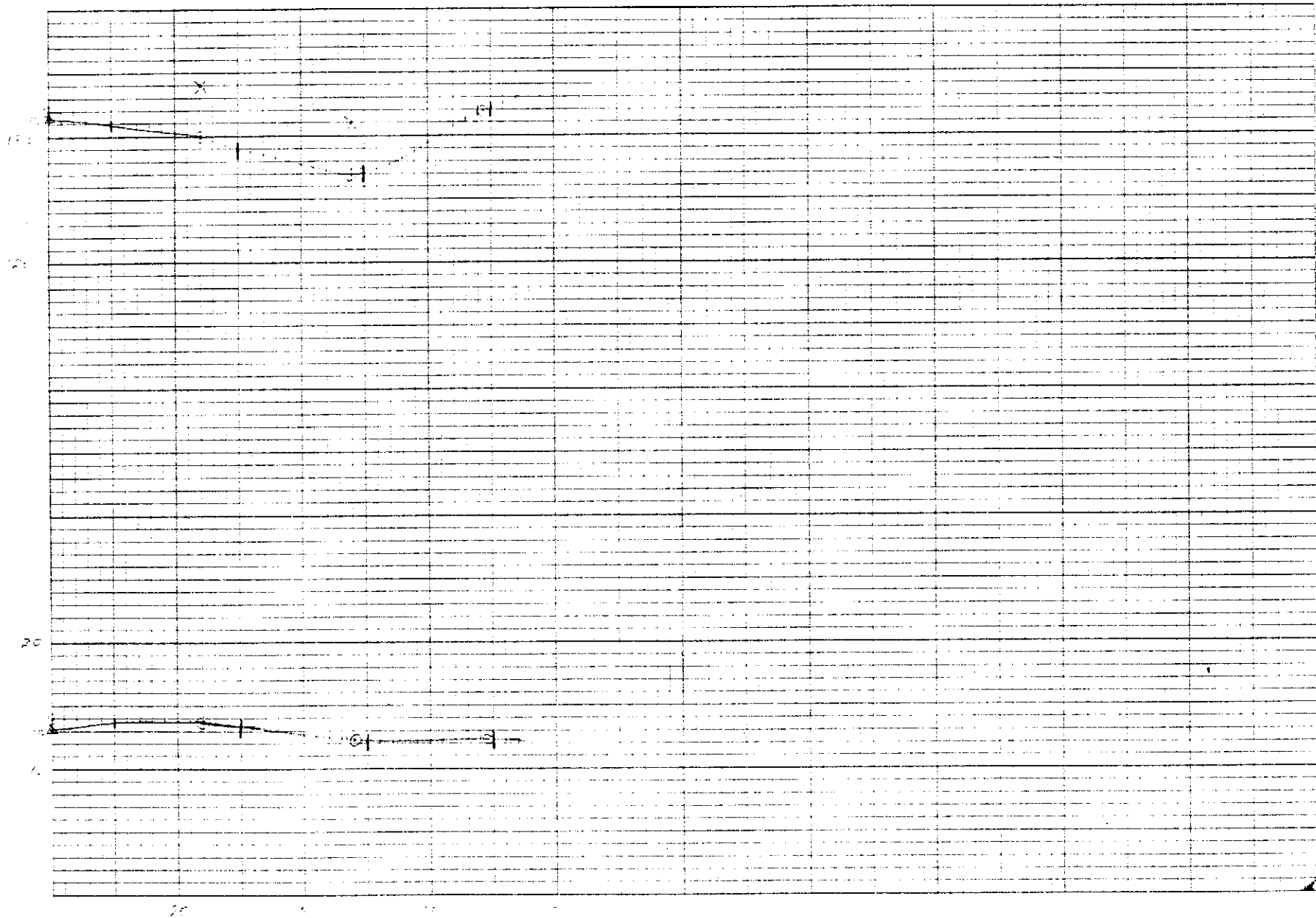
Sheet No.

DIAMOND DRILL HOLE DATA

PROGRAM DATA				SURVEY DATA				INTERPOLATED DATA		
				Instrument Type	Depth	Dip	Azimuth	Depth	Dip	Azimuth
1	Attitude	—	(+) (-)	Survey	φ			12 1/2	13E	130 1/2
				Camera	30	-13 3/4	130 (134)	37 1/2	13 1/2	129
2	Hole No.	1392			60	-12 1/4	127 (131)	62 1/2	12	127
					86	-12.2	132 (136)	87 1/2	12	132
3	Down Hole Interval	25								
4	Collar	15530.411	N							
5	Co-ords.	11030.492	E							
6	Collar R.L.	119.2								
7	Halls Sect.	15623.938	N							
8	Intersect Point	10935.748	E							
9	Battery Sect.	15409.213	N							
10	FA Intersect. Point	10838.117	E							
11	Start Plot (Depth)	φ	φ = Collar							




C1392

C 132





COMBACON GRAPH PAPERS - CHRISTOPHER N. Z. BIDDY - 1980s, 1/2 x 1/2

Feature

Bedding 
 Foliation 
 Fragment size & shape 

Shearing 
 Fault 
 Vein 

 carbonate
 quartz

Mineralization

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

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CORE RECD	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	26.70								
	26.77	LOOSE - 5% sulphides. chpy, ps, py.							carb, chl, amyl.
	28.50	SHALE - f.g. dark brown massive - not bedded.							
2-98		LOOSE 1% sulphides in chert, qtz carbonate host. patchy dots of py, minor ps, chpy.							chl 45%, carb 35%, qtz 10%, py 1%, 4% fluonite.
	29.62								
	30.70	SHALE Fine grained massive dark brown to brownish black. Minor chertic alteration. Fine scale carbonate spotting common. Finely disseminated carbonate. local silicification - lost some chertic chert.							
	33.98								
	34.14	LOOSE - 25% sulphides - patchy veining and blebby submassive f.g. ps - veining chert and aggregates of chpy - (closely associated with ps). veins and patches of py. Irregular bands and blebs of pale yellow carbonate - cherty blebs are common - chert, fluonite, qtz, matrix							ps 20%, py 3%, qtz 2%, chl 60%, carb 20%, fluonite 5%, qtz 10%
	35.05								
	38.01								
	38.90	CHERT - f.g. chertic and blebby pink white to brown. locally alteration to chert.							minor veiny ps.
	38.90	SHALE							
	3.78	Fine grained massive dark brown, fine carbonate spotting common.							
	40.00								
	40.10								
	40.27	SS - med f.g. slightly altered to yellowish							
2-74		SHALE As previously described - massive dark brown - irregular sandstone blebs proximal to ss above. Abundant fine carbonate blebs							
	30.1								
	44.1								
	44.8	SS - m. f. med f.g. qtz, mica ss							
	45	SHALE As above - becomes siliceous towards bed contact.							
	100								
	0-40								
	46.88								
2-85		LOOSE 10% sulphides, predominantly veiny and patchy py, blaggy in parts. abundant ps/py. thin chpy. in a patchy mottled carbonate/chert matrix with lesser qtz, fluonite. thin lens vein veined chert band.							py 7%, ps 2%, chpy 1%, chl 40%, carb 35%, qtz 10%, fluonite 5%.
	0-65								
	49.6								
	50	SHALE							

Feature

Bedding
Foliation
Fragment
size & shape



Shearing
Fault
Vein



carbonate
quartz

Mineralization

23 462

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

53.26
56.27
59.44
60.27
63.22
66.27
69.21
72.26
75.1
78.48
81.53
84.58
87.83
86.41

CORE RECD	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
1.50		fine grained massive dark brown to grey brown shale. Homogeneous in nature - fine disseminated carbonate - sections appear to be foliated. Contact sharp 45° to C.A.							
1.26									
1.55	58.20								
1.65	60.20	carbonate shale - fg. carbonate rich pale greyish green - well bedded - minor chloritic alteration							minor trace spotting fo.
3.00	62.24	SHALE - fg. dark brown massive.						67.20	Thin calcite vein 65° to C.A.
2.90		SANDSTONE - mg to fine grained olive green chloritic alteration common as veinlets fracture fill and patchy segregations. Areas of calcite filled venticles.							
2.92	68.63								
3.02	70	SANDSTONE - fg. massive to well bedded brown grey to red green - beddy. 45-60° to C.A. finely disseminated carbonate common						69.85	Scattered calcite vein 50° to C.A.
2.70	72.10								
3.08		SHALE Massive fine grained olive green - abundant chloritic dots and veinlets - predominantly calcite filled venticles. fine scale spotting common. Minor carbonate veining						75.26	locally calcite = clay, fo. 15° to C.A.
2.78	80								
3.07									
1.04	86.41	SHALE fg. well bedded 45°, pale grey green buff.							finely spotted.
		End of hole Logged A. Eadie 15/8/77							

Feature

Bedding
Foliation
Fragment
size & shape



Shearing
Fault
Vein



carbonate
& quartz

Mineralization

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

23 40

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		Quartz log							
	0 - 0.7	Shale							
	0.7 - 4.5	Loam							
	4.5 - 5.0	Sandstone / sh.							
*	5.0 - 33.1	Shale							Vein at 26.8 CN. - PY
	33.1 - 38.8	Loam with minor chert at 33.4-33.8							F at 38.5?
	38.8 - 46.84	Shale							
	46.84 - 50.1	Loam F @ 50.1							
		35 - 45° NCH							
	50.1 - 64.4	Shale sh. vein up to 58							Faulted 56 - 56.5
	64.4 - 68.8	VB F @ 40° NCH							* 5.0 - 9.35 SL 9.35 - 10.2 vt lithic 10.2 - 13.6 vt + vb 13.6 - 16.3 sh/ss 16.3 - 26.8 sh min ss 26.8 Fault 26.8 - 26.9 L. (?) vein 26.9 - 29 sh 29 - 29.6 min sh 29.6 - 33.1 SL
	68.8 - 72.9	Shale and minor Luff							
	72.9 - 84.2	VB							
	84.2 - 86.41	Shale + vt ch. 50°							
		Plotted 709.							
		check for Merrill's Vein spec.							