

SAMPLE DATA

HOLE No.: C1352

LENS	SAMPLE No.	ROCK TYPE	Σ	INTERVAL		Length (L)	Assays (A)				SPECIFIC GRAVITY			
				From	To		% Snt	% Sns	% Cu	% S	P-Snt DRY	P-Sns WET	P-Cu	S.G.
	223245	Lode		48.50	48.80	0.30	0.43	0	0.07		247 1/2	167		3.07
	246	"		50.70	52.10	1.40	0.32	0	0.34		1202 1/2	844		3.35
	247	Shale		52.10	52.90	0.80	0.05	0	0.04		486	317 1/2	2.7	2.88
	248	Lode		52.90	54.10	1.20	0.45	0	0.09		954	645	2.7	3.09
	249	Lode		74.70	74.95	0.25	0.19	0	0.12		217	145		3.01
	250	Lode		130.10	131.00	0.90	0.98	0	1.20		842	578		3.19
	251	"		131.00	132.00	1.00	2.28	0	0.23		753	515		3.16
	252	"		132.00	133.00	1.00	3.33	0	0.19		938	648		3.23
	253	"		133.00	134.00	1.00	1.21	0	0.15		793 1/2	541		3.14
	254	"		134.00	134.50	0.50	1.50	0	0.12		434	294 1/2		3.11
	255	Shale		134.50	135.50	1.00	2.27	0	0.54		719 1/2	452		2.60
	256	Shale		135.50	136.30	0.80	0.04	0	0.03		463	297		2.70
	257	Lode		136.30	137.00	0.70	0.55	0	0.18		657	439		3.0
	258	"		137.00	138.00	1.00	0.63	0	0.26		947 1/2	665		3.35
	259	"		138.00	139.00	1.00	0.81	0	0.14		785	548		3.3
	260	"		139.00	140.00	1.00	0.40	0	0.4		893	618 1/2		3.25
	261	"		140.00	141.05	1.05	1.02	0	0.09		925	629		3.13

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N.W.P.

HOLE No.: C1352

SAMPLE DATA

SHEET No.: 1

LENS	SAMPLE No.	ROCK TYPE	Σ	INTERVAL		Length (L)	Assays (A)				SPECIFIC GRAVITY			
				From	To		% Snt	% Sns	% Cu	% S	P-Snt	P-Sns	P-Cu	S.G.
	223245	Lode	⊕	48.50	48.80	0.30	0.43	2	0.07		247 1/2	167		3.07
	246	"		50.70	52.10	1.40	0.32	2	0.34		1202 1/2	844		3.35
	247	Shale		52.70	52.90	0.20	0.05	4	0.04		456	317 1/2	2.7	2.88
	248	Lode	⊕	52.90	54.10	1.20	0.45	4	0.09		454	645	2.2	3.09
	249	Lode		74.70	74.95	0.25	0.19	3	0.12		217	145		3.01
	250	Lode		130.10	131.00	0.90	0.98	4	1.20		842	578		3.19
	251	"		131.00	132.00	1.00	2.28	3	0.23		753	515		3.16
	252	"		132.00	133.00	1.00	3.33	4	0.19		938	648		3.23
	253	"		133.00	134.00	1.00	1.21	4	0.15		143 1/2	541		3.14
	254	"		134.00	134.50	0.50	1.50	4	0.12		434	294 1/2		3.11
	255	Shale		134.50	135.50	1.00	2.27	3	0.54		719 1/2	452		2.69
	256	Shale		135.50	136.30	0.80	0.04	3	0.03		463	297		2.79
	257	Lode		136.30	137.00	0.70	0.55	2	0.18		257	439		3.01
	258	"		137.00	138.00	1.00	0.63	4	0.26		117 1/2	36.5		3.35
	259	"		138.00	139.00	1.00	0.81	4	0.14		785	548		3.31
	260	"		139.00	140.00	1.00	0.40	3	0.4		893	118 1/2		3.25
	261	"		140.00	141.05	1.05	1.02	2	0.09		925	629		3.13

* ↑ A C T I V E ↓ *

HOLE No. : C1352

SAMPLE DATA

LENS	SAMPLE No.	ROCK TYPE	Σ	INTERVAL		Length (L)	Assays (A)				SPECIFIC GRAVITY		P-Cu	S.G.
				From	To		% Snt	% Sns	% Cu	% S	P-Snt DRY	P-Sns WET		
	223262	Lode		161.10	161.40	0.30	0.35	2	0.08		313 1/2	206		2.92
	263	Lode		163.80	164.70	0.90	0.56	4	0.11		701	1457		2.87
Henry's *			Σ	48.50	54.10	5.60	0.21		0.11					
			Σ	50.70	54.10	3.40	0.30		0.18					
Halls B *			Σ	130.10	141.05	10.95	1.28		0.30					
C *			Σ	161.10	164.70	3.60	0.17		0.03					
Halls *				130.10	164.70	35.50	0.41		0.10					

HOLE No.: C1352

SAMPLE DATA

SHEET No.: 2

LENS	SAMPLE No.	ROCK TYPE	Σ	INTERVAL		Length (L)	Assays (A)				SPECIFIC PRODUCT (A x L)		GRAVITY
				From	To		% Snt	% Sns	% Cu	% S	P-Snt	P-Sns	
	223262	Lode		161.10	161.40	0.30	0.35	3	0.08		12 1/2	206	2.92
	263	Lode		163.80	164.70	0.90	0.56	4	0.11		701	457	2.87
Henry's *			Σ	48.50	54.10	5.60	0.21		0.11				
			Σ	50.70	54.10	3.40	0.30		0.18				
Halls B *			Σ	130.10	141.05	10.95	1.28		0.30				
C *			Σ	161.10	164.70	3.60	0.17		0.03				
Halls *				130.10	164.70	35.50	0.41		0.10				

ABMINCO N.L. - Cleveland Mine

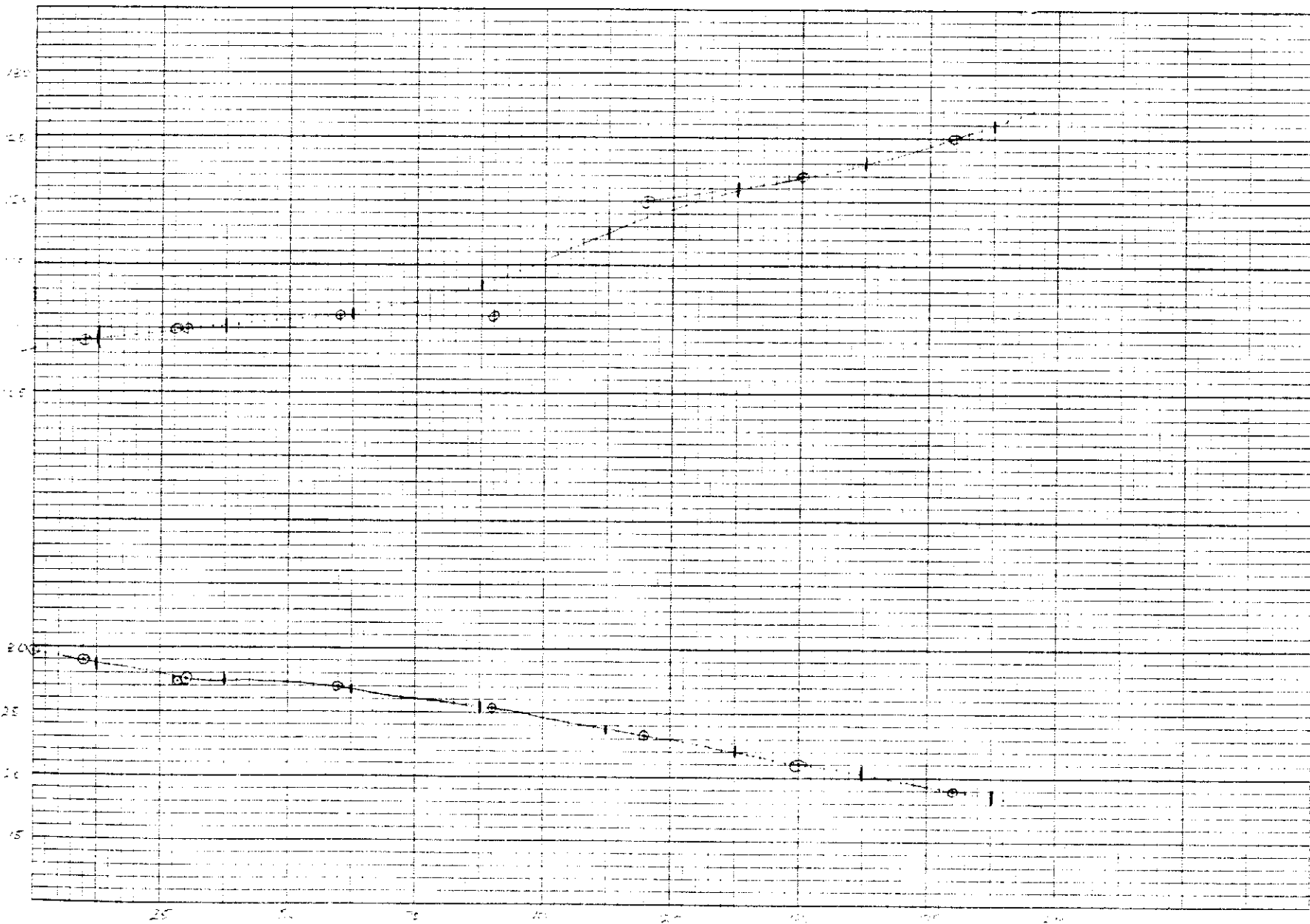
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Sheet No.

DIAMOND DRILL HOLE DATA

PROGRAM DATA				SURVEY DATA				INTERPOLATED DATA		
				Instrument Type	Depth	Dip	Azimuth	Depth	Dip	Azimuth
1	Attitude	—	(+) (-)	SURVEY CAMERA.	0	-29 3/4	112 3/4	12 1/2	29	109
2	Hole No.	25			10	-29	109 (113)	37 1/2	27 1/2	110
3	Down Hole Interval	1352			28	-(27 1/4)	110 (114)	62 1/2	27	111
					30	-27 1/2	110 (114)	87 1/2	25 1/2	113 1/2
					60	-27	111 (115)	112 1/2	24	117 1/2
					90	-25 1/4	111 (115)	137 1/2	22	121
					120	-23 1/4	120 (124)	162 1/2	20	123
4	Collar	15464074	N		150	-21	122 (124)	187 1/2	18 1/2	126
5	Co-ords.	10909820	E		180	-19	125 (129)			
6	Collar R.L.	84.00								
7	Halls Sect.	15549.204	N							
8	M Intersect Point	10827.808	E							
9	Battery Sect.	15409.213	N							
10	FA Intersect. Point	10838.117	E							
11	Start Plot (Depth)	4	φ = Collar							




C1352.





DIAMOND DRILL LOG

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%

19 LEVEL
 N1 Section



CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
0.00	1.00	Sandstone fine-grained light to med brown quartz sandstone. Slight alteration evident near small veins which carry carbonate, fluorite and chlorite.							
1.70	2.79								
4.70	5.10 5.01	Shale. F.g. med brown massive shale							
7.80	3.02 3.05	Sandstone fine grained sand-grey to greenish massive sandstone some clayey evident about 10 m where there is a minor shaly component.							
10.55	3.02 12.80		95						Alu-fluor veins 1 cm parallel to core axis
15.11	14.70	Shale. F.g. massive dark brown shale with minor sandstone inclusions.	95						Alu-fluor veins 10 cm @ 70° N.C.A. 13.7-13.8; @ 14.5-14.6 35° N.C.A.
16.85	16.80	Sandstone fine-grained shale grey brown massive sandstone	95						
19.90	19.90	Shale fine grained slumped & altered shale heavily altered and locally silicified.							
22.95	22.95	Sandstone fine to med grained med green to brownish quartz sandstone - massive. Minor thin quartz-fluor to carbonate veins developed throughout. Locally thin shaly bands occur eg 4.2 m & 4.5 m. Sandstone in places is slightly coarsely grained eg at 4.1 m.	95						
25.45	2.97		95						
28.00	2.97		95						
31.90	3.04								
35.00	3.02								
35.00	3.10		95 95						
41.85	3.00								
44.05	3.00								
47.05	3.05								
	48.50 48.30	Shale. F.g. chlorite - 20-25% fine to med + fluor Sandstone fine grained grey to med brown massive sandstone							

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Feature











Bedding 
Foliation 
Fragment size & shape 

Shearing 
Fault 
Vein 

 carbonate
 quartz

Mineralization

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

CORE RECD	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
50.10	50.70								
	3.00	bede Fine grained quartz-chlorite pyrite - pyrrhotite, locally							Qtz 40-60; chlor 20-30 py 10 py 10-20; fluor 10
53.10	52.90	Shale Fine grained, greenish brown bedded sh.							
	3.00	bede Quartzite - chlorite - pyrrhotite pyrite beds. Sulphides occur in veins							Qtz 50 - chlor 20-30; py 5 py 10 - minor carbonate
56.15	56.25	Sandstone Fine grained to medium massive sandstone, with minor shale, which is locally silicified							
	3.00	Shale Fine grained dark brown massive shale							Small fault frag @ 56.40
59.15	60.90	Sandstone v. fine grained massive basalt with minor inclusions of shale which possess a mica-like alteration locally. Rock varies from red to dark green. Thin carb- onate veins occur occasionally							
62.20	63.30	Shale Fine grained slight to dark brown massive shale locally silicified. Slump brecciation evident							
65.25	3.04	Sandstone Fine grained greyish green to brownish massive sandstone Occasional veins filled with quartz carbonate & fluorite, chlorite, & locally pyrrhotite & py.							Tr. sph in thin veins & some py
68.30	2.99								
71.35	71.25	Shale Fine grained medium grey to dark brown massive shale. Occasional quartz - carbonate veins							
74.30	74.70	Fault zone v. broken clayssst + shale with calcareous chert nodules							
	2.98	Shale + Sandstone f. bedded quartz + br. sh. quartzite - chlorite - pyrrhotite - chert massive dark brown shale and f. or massive sandstone							Qtz 60 - chlor 20 - py 10 - fluor 10 Thin quartz - fluorite - carbonate - pyrite veins locally
77.35	3.07	Sandstone Med. gr. to greenish massive sandstone with slight alteration in vicinity of thin							
80.45	2.93	Shale Dark grey to brown massive shale with minor chert bands Thin (1-2mm) chlorite veinlets							
83.50	2.73	Sandstone Fine grained massive med grey to greenish quartz sandstone - locally slightly micaceous. Slight alteration close to thin quartz-chlorite veinlets							minor pyrite vein @ 87.4m
86.55	2.64								
89.55	3.03								
92.60	3.02								
95.60	95.80								
98.65	95.90	Sandstone, shale and chert Alternating massive sandstone and bedded shale with pale grey silicified cherts at . 97.6m.							
		Sandstone. Med. brownish-grey massive quartz sandstone with							

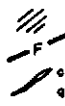
28 433

Feature

Bedding
Foliation
Fragment
size & shape



Shearing
Fault
Vein



○ carbonate
□ quartz

Mineralization

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

CORE RECD	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
104.65	2.95	occasional shale band. Some local variation in grain size and colour							Chloride vein i carb at 100.5 - with minor laminar alteration of mineralization of chlorite-quartz alteration around 110-112
	3.10								
104.70									
	2.91								
107.70									
	2.95								
110.70									
	3.05								
113.1									
	3.10								
116.80	116.70								
	3.02	Shale. Dark grey to brown massive shale with local thin sandy sections. Attention evident in proximity							
119.85									
	3.15								
122.90	123.10								
	3.02	Sandstone mid green to brown massive quartz sandstone							
125.95	125.20								
	3.03	Shale. Dark grey massive fine grained shale, locally slightly tuberculous. Fine ms chert band at end of section							
129.05									
	2.99								
131.95		Lode. Quartz-chlorite-carbonate pyrrhotite lode with minor chalcophyllite. Texture is generally chaotic with local bedded zones. Trace consistent visible							Quartz 40-60% Chal 20-30, Carb 10-20, Py 15-20 CPy 1-5 TR TS TR CASE
134.95	134.60								
	3.01	Shale. Mid grey bedded shale locally massive							
138.00									
	3.00	Lode. Quartz-chlorite-carbonate pyrrhotite lode with minor chalcophyllite. Texture is chaotic - similar to above - except pyrrhotite content only ~10%							4-5 above except pyrrhotite content ~10%
141.05	141.00								
	2.82	Shale. Dark grey massive fine grained shale - locally bedded & laminated at start of section							
144.00									
	3.00								
147.05									

Feature
 Bedding **Shearing**
 Foliation **Fault**
 Fragment size & shape **Vein** a carbonate q quartz

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

CORE RECD	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	150	shale as above							
153.25	3.03								Thin, thin (2-3m) quartz vein
156.30	3.10								
159.35	3.10	Sandstone massive of grey-brown qtz est. shale pale brown to dark brown altered shale. Several quartz carb-illite veins up to 5cm thick. Local quartz carb-chlorite porphy							Fault @ 20° NCA at 160.1m; Fault @ 160.9 35° NCA
162.110	3.00	Shale grey, brown and greenish olivine bedded shales bedding ~ 45° NCA. Small volcanic component, 5cm clast at end							Po 1-2% Py 1-2%
165.45	3.05	Shale dark brown massive fine gr. calcareous shale often with stippled surface							
168.45	3.02	Limestone pale green finely bedded limestone - bedding up to 45° NCA. Occasional quartz vein							
171.50	2.98	Shale dark brown massive shale locally calcareous.							Rt-C to 20% py, yellow green altered
174.50	3.05	Basalt. Mud green to brown. Basalt - fine grained and chilled for first three metres becoming coarse grained around 178-180 metres							
177.55	3.10	Occasional quartz-carbonate vein locally, with chlorite +/or pyrochloite. Olivine nodules in irregular patterns developed locally.							Fault at 179.5 30° NCA Slicks 20° N L.A.
180.60	2.50								
182.10	1.26								
184.05	1.63								Fault at 184m.
184.90	184.90	184.90 m = E.C.H. Logged D SIMPSON 28 Nov 78.							

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