

HESS - 0010-D1

Load: 16 mm

DD-18

Diamond Drilling

Township of HESS

Report NO 18

Work performed by: Hollinger Mines Limited

Claim NO	Hole NO	Foctage	Date	Note
S 471072	HE3-1-77	120.0'	July/77	(1)
	HE3-2-77	180.0'	Aug/77	(1)
	HE3-3-77	120.0'	Aug/77	(1)

Total: 3DH 420.0'

Notes:

(1) #85-77

Location of Collar From #3 Post of S-471072 : 915' North
FORM 522 783' East

DIAMOND DRILL REPORT

HOLE NO. HE3-1-77

NORTH 0+50S
EAST 0+25E
ELEV. Surface
AZIM. 151°
DIP -45° (no other tests)

COMMENCED July 30, 1977
FINISHED Aug. 2, 1977

PROPERTY MIRON OPTION - HESS #3 GROUP

PURPOSE OF HOLE to test Pb-Zn mineralization under 'Lynx' showing.

S-471072

Ex Core

Hess Township

Drilled by: Wm. Manderstrom

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV	WIDTH	ASSAY	
0	3.5	Casing.						for Cu-Pb-Zn-Ag ppm; Au ozs.
3.5	109.1	Espanola formation - a mixture of limestone and dolomite, varying in colour from greyish to off-white and cream coloured. In general, the greyish coloured sections react strongest with HCl. There is, however, some development of secondary calcite in irregular blotches and veinlets throughout, such that most of the core reacts with acid.	3.5	5		1.5		1st - minor py diss.
		• Banding, which is presumably primary, is accentuated by thin seams of alteration - a finely dusted mixture of sericite and chlorite. In addition, fine cross-fractures with similar mixtures of sericite and chlorite are found at variable angles to the core.	5	10		5		" tr. py diss.
			10	15		5		" tr. py cp
			15	20		5		" tr. py
			20	25		5		" neg. py
			25	30		5		" neg. py
			30	35		5		" tr. py
			35	40		5		" neg. py
			40	45		5		" neg. py
			45	50		5		" neg. py
			50	55		5		" tr. py
			55	60		5		" tr. py PbS
			60	62		2		" tr. py cp
			62	65		3		" 3-5% Pb cp py tr. ZnS
			65	70		5		" minor py
			70	75		5		" minor py tr. PbS cp
		The banding across this limestone unit is quite variable, as:	75	80		5		" tr. py
		@ 3.5' - 40°; @ 10' - 32°; 15-25' banding along core with a few 'Z' shaped drags; @ 31' - 32°; @ 40' - 25°; @ 51' - 55°; @ 52' - 74°; 55-100 near massive, very little banding; @ 100' - 55°; @ 107' - 60°.	80	85		5		" tr. py
			85	90		5		" tr. py cp
			90	95		5		" tr. py cp
			75	100		5		" tr. py cp

DIAMOND DRILL REPORT

HOLE NO.

HE3-1-77

2.

NORTH _____
 EAST _____
 ELEV. _____
 AZIM. _____
 DIP _____

PROPERTY MIRON OPTION - HESS #3 GROUP

COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

Hess Township

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		Erratic amounts of sulphides are found along the limestone unit - the best section from 62-65 with some coarser blebs of galena and pyrite plus minor chalcopyrite and yellowish sphalerite. This is the only section where sphalerite was noted. Sulphides are most commonly associated with the cross fractures bearing alteration; however, sulphides may occur with the thin seams of alteration along the bedding planes or finely disseminated along the core.						
		Some lost core:						
		53-53.6; 56.5-57.5; 77-79; 98.2-99.4; 103.4-104.4; and 107.7-108.4; plus some broken core 7.7-12.3 and 40-50.						
109.1	112.6	Broken contact to a fine grained dark grey green unit of carbonatized siltstone (or limey silt?). At the base of this section (from 112-112.6) is a narrow unit of conglomerate that does not appear to represent a residual soil since there is some variety of fragment types.						

DIAMOND DRILL REPORT

NORTH _____
 EAST _____
 ELEV. _____
 AZIM. _____
 DIP _____

PROPERTY MIRON OF MION - HESS #3 GROUP

COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

Hess Township

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		<p>There are a few fragments in the silty member as well at 111.5. The unit from 112-112.6 is dark grey green with assorted subrounded to elliptical fragments averaging less than 5 mm in diameter. Fragment types include buff to greyish carbonate, greyish granite and dark green chloritic. Minor pyrite in the conglomerate.</p> <p>Contact to conglomerate unit (with siltstone) is at 47°. Possible Bruce formation(?).</p>						
112.6	120	<p>Broken contact to granite. The granite is greyish in colour and relatively coarse grained with roughly equal portions of pale greenish to off-white feldspar and clear to greyish quartz. The granite is also thoroughly speckled with black hornblende and biotite (minor).</p>						
	120	<p>END OF HOLE</p>						

Don R. Alexander
HOLLINGER MINES LIMITED
 TIMMINS, ONTARIO

Location of Collar from #3 Post of S-471072 : 1052' North
FORM 522 905' East

DIAMOND DRILL REPORT

HOLE NO. HE3-2-77

NORTH 1+00S
 EAST XL 2E
 ELEV. Surface
 AZIM. 294°
 DIP Collar @ 45° - no other tests

COMMENCED August 3, 1977
 FINISHED August 6, 1977

PROPERTY MIRON OPTION - HESS #3 GROUP

PURPOSE OF HOLE To test EM anomaly possibly associated with Pb Zn showing.

S-471072

Ex Core

Hess Township

Drilled by: Wm. Manderstrom

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
0	3	Casing.						
3	62.9	Espanola formation - a creamy to greyish white limestone as seen on surface. The limestone is soft, blocky and rather poorly bedded at 70° to the Core Axis. Bedding is normally accented by thin seams of sericite-chlorite alteration along and subparallel to the bedding planes. The limestone is also cross fractured with fine seams and stringers of yellowish to brownish sericite and dark green chlorite. Only minor cross fracturing and/or patches of calcite are noted in this unit. As in DDH HE3-1, occasional coarse to fine blebs and disseminations of sulphides are scattered along the core. Pyrite, and less commonly chalcopyrite are the predominant minerals although a few splashes of galena are noted in the area 36.3-60.4. Sightings of galena include: @ 36.3, 44.2, 45-45.6, 57.5 and 60.4. Due to the blocky nature of the						
			40	45		5		1st - very minor py PbS cp
			45	46.5		1.5		1st - 38 Pb tr. py cp

DIAMOND DRILL REPORT

NORTH _____
 EAST _____
 ELEV. _____
 AZIM. _____
 DIP _____

PROPERTY MIRON OPTION - HESS #3 GROUP

COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

Hess Township

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		limestone, there are several sections of lost core at: 6.1-7.5; 23.3-23.8, 30.8-31.6; 32.4-33.2; 36.4-37.2; 42.4-43.4; 46.6-47.4; 51.7-53.0; and 58.2-59.3.						
		The base of this limestone unit gradually becomes greyer in colour and there are a few beds with a greenish tint (silt component?) at 60-65° to the core axis.						
62.9	65.6	Contact at 65° to a transitional unit of fragmental limestone to limey siltstone. This unit varies from grey green to dark green in colour, and reacts strongly with HCl.						
		The fragments here are limestone, up to 10 mm (average 5 mm) in size set in a dark green, fine grained silty matrix. The fragments are normally angular in outline - it does not necessarily follow, however, that this section is fault related. Weak fragment lineation @ 60-62°.						
		It is possible that this zone represents some type of erosional unconformity.						

DIAMOND DRILL REPORT

HOLE NO. HE3-2-77

3.

NORTH _____
 EAST _____
 ELEV. _____
 AZIM. _____
 DIP _____

PROPERTY MIRON OPTION - HESS #3 GROUP

COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

Hess Township

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
65.6	180	Broken contact to a fairly wide zone of interbedded siltstones and carbonate sands or recrystallized(?) carbonate muds. The siltstones have a high carbonate content and react strongly with HCl. This member is fine grained, thinly bedded and varies from dark lime green to dark green in colour.						
		The carbonate units are somewhat granular in texture yielding a salt and pepper appearance to the beds. In some of the coarser grained horizons, minute 'eyes' of quartz(?) and carbonate (average 1 mm) are visible.						
		Although the carbonate units themselves are not bedded, contacts are conformable with the thinly bedded siltstone. The carbonate beds are grey to dark grey in colour.						
		Only erratic traces of pyrite are noted across this zone - most commonly seen in the carbonate beds.						
		Fracturing in this zone is very minor unlike the overlying limestone unit.						

DIAMOND DRILL REPORT

HOLE NO. **HE3-2-77**

NORTH _____
 EAST _____
 ELEV. _____
 AZIM. _____
 DIP _____

PROPERTY MIRON OPTION - HESS #3 GROUP
 Hess Township

COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		<p>Banding is somewhat variable around the lower portions of this zone. Up to approximately 125' beds are fairly consistent at 60-65° to the core axis. After 145, however, the beds erratically steepen and flatten from 40-45° to the core to 70° to the core. The 40-45° trend predominates.</p> <p>Top determinations on the beds are rather tenuous since cross bedding, grain gradations, etc. are poorly developed. Without any conflicting data, however, tops are suggested to be down the hole.</p> <p>There are a few sections of lost core along this zone as: 106.5-108.7; 136.5-137.3; 151.2-153.3; and 164.5-165.7.</p>						
	180	END OF HOLE						

Dave R. Alexander
 HOLLINGER MINES LIMITED
 TIMMINS, ONTARIO

Location of Collar from #3 Post of S-471072 : 1095' North
 FORM 522 690' East

DIAMOND DRILL REPORT

HOLE NO. HE3-3-77
 COMMENCED August 7, 1977
 FINISHED August 11, 1977
 PURPOSE OF HOLE Test Pb Zn Showing at
 under DDH #1

1+10N
 NORTH _____
 EAST 1+50E _____
 ELEV. Surface _____
 AZIM. 151° _____
 DIP Collar @ 60° - no other tests _____

PROPERTY MIRON OPTION - HESS #3 GROUP

S-471072 Ex Core

Hess Township

Drilled by: Wm. Manderstrom

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
0	3	Casing.						
3	120	Espanola formation - a mixture of limey siltstone and carbonate sand or recrystallized (?) carbonate mud.						
		The siltstones are fine grained and thinly bedded, varying in colour from dark lime green, to grey green, grey brown and putty shades. Both the siltstones and carbonate sections react strongly with HCl.						
		The carbonate phases--whether they be carbonate sands or recrystallized carbonate muds--are somewhat granular in texture producing a salt and pepper appearance to the core. These units vary from light to dark grey, green grey and brown grey in colour. Bedding within these units is very poorly developed to nonexistent. Mineralogically, the carbonate sections are almost wholly composed of carbonate - in some coarser grained horizons minute 'eyes' of quartz (?) and carbonate (average 1 mm) are visible. Occasionally, an odd lenticular fragment of siltstone may be found in these carbonate sands.						

DIAMOND DRILL REPORT

HOLE NO. HEJ-3-77

NORTH _____
 EAST _____
 ELEV. _____
 AZIM. _____
 DIP _____

PROPERTY MIRON OPTION - HESS #3 GROUP

COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

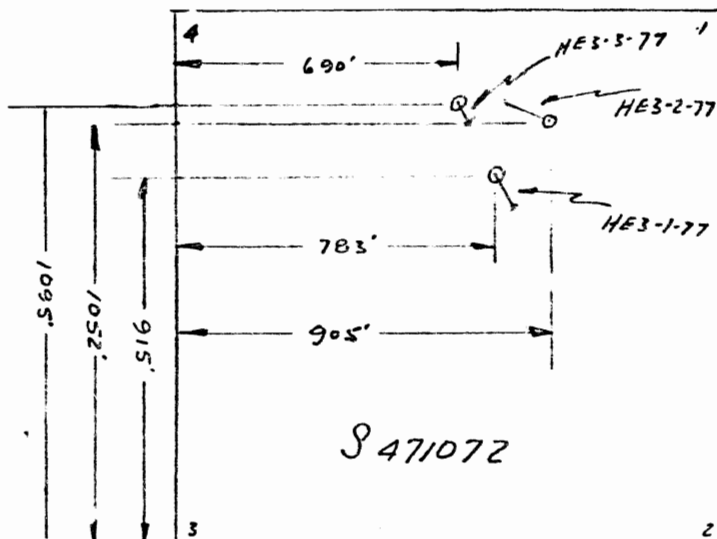
Hess Township

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		Metamorphism does not appear to be much (if any) of a contributing factor to the granular nature of these carbonate sands. Thus, it appears to follow, that some variation in the type or direction of source material is needed to achieve an assemblage of interbedded carbonate sand and fine silt units.						
		Sulphides in this zone are very minor in amount, usually finely disseminated but occasionally smeared along bedding planes. Pyrite is the almost exclusive sulphide mineral.						<i>David R. Alexander</i> HOLLINGER TOWN OF HESS
		Fracturing in the silty-sand sequence consists of scattered fine stringers of calcite normally at a shallow angle to the core.						
		Banding in the silt-carbonate sand sequence is quite variable along the core as: @ 13' - 37°; @ 18' - 40°; @ 22' - 35°; @ 28' - 45°; @ 38' - 45°; @ 58' - 40°; @ 60' - 35°; @ 65' - 35°; @ 72' - 25°; @ 89' - 25°; @ 96' - 35°						

Plan of DDH HE 3-1-77
 HE 3-2-77
 HE 3-3-77

Hess Twp

Scale 1" = 400'



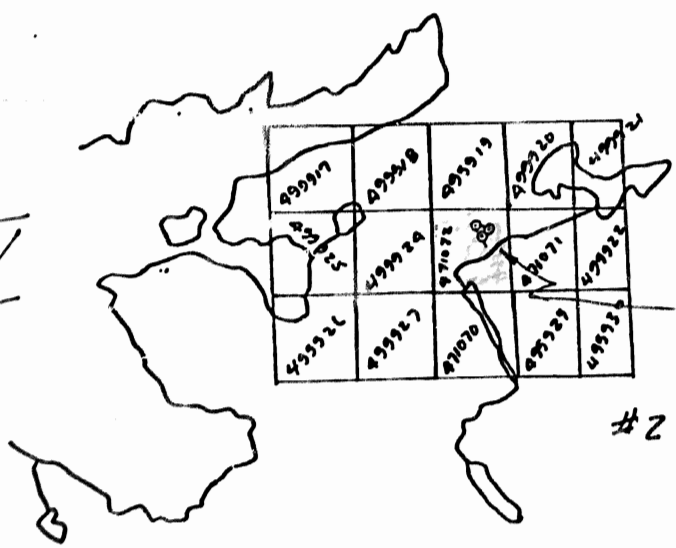
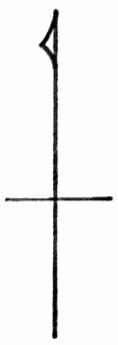
	HE 3-1-77	HE 3-2-77	HE 3-3-77
STARTED	July 30/77	Aug 3/77	Aug 7/77
FINISHED	Aug 2/77	Aug 6/77	Aug 11/77
DIA of Core	EX .81"	.81"	.81"
LENGTH	120'	180'	120' (TO 17' CONTINUED)
Dip	-45°	-45°	-60°
Az	151°	294°	151°
CONTRACTOR	W A MANDERSTROM Box 429 Temagami		

HOLLINGER MINES LIMITED
 TIMMINS, ONTARIO

Nov 2/77

V

IV



499917	499918	499919	499920	499921
499922	499923	499924	499925	499926
499927	499928	499929	499930	499931

HES-1-77
HES-2-77
HES-3-77

#2

Hess Imp.

8 7 6 5

Hess TWP.
M. 930

#85-77

MUNSTER TWP. M. 88

MONCRIEFF TWP. M. 869

