# HESS - 0010-DI

Load: 16 mm

DD-18

#### Diamond Drilling

Township of HESS

Report Nº 18

Work performed by: Hollinger Mines Limited

Claim Nº	Hole N9	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
783' East DIAMOND DRILL REPORT

ORTH	0+505		
AST	0425E		MANUFACTOR PROPERTY OF THE PRO
	Surface		COMMON THE PROPERTY OF THE PARTY OF THE PART
LEV,	1510	-	
ZIM,	-		
-43	) (no	other	cests)

MIRON OPTION - HESS #3 GROUP PROPERTY

Ex Core

Hess Township

July 30, 1977 COMMENCED Aug. 2, 1977 FINISHED . PURPOSE OF \_

HE3-1-77

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

	Management 7		CORE SAMPLES				DESCRIPTION OF SAMPLE		
PROM	то	DESCRIPTION	FROM	то	RECOV	WIDTH	ASSAY		DESCRIPTION OF SAMPLE
0	3.5	Casing.				L		for	Cu-Pb-Zn-Ag ppm; Au ozs.
3.5	109.1	Espanola formation - a mixture of							
		limestone and dolomite, varying in colour	3.5	5		1.5		Lst	- minor py diss.
	•	from greyish to off-white and cream	5	10	1	5		"	tr. py diss.
		coloured. In general, the greyish coloured	10	15		5		"	tr. py cp
		sections react strongest with HCl. There	15	20		5		"	tr. py
		is, however, some development of secondary	20	25		5		**	neg. py
		calcite in irregular blotches and veinlets	25	30		5		11	neg. py
		throughout, such that most of the core	30	35		5		"	tr. py
2000		reacts with acid.	35	40		5		"	neg. py
and the second s		Banding, which is presumably primary,	40	45		5		"	neg. py
		is accentuated by thin seams of alteration	45	50		5		11	neg. py
and the second second		- a finely dusted mixture of sericite and	50	55		5			tr. py
alian gaganian jaron a <b>gi</b> lla malajar in one <b>d</b> ijela ma		chlorite. In addition, fine cross-	55	60		5		"	tr, py PbS
and the same of th	-		60	62		2		"	tr. py cp
Alleren Lore Annual Control	a ann de anno anno anno anno anno anno anno ann	and chlorite are found at variable angles	62	65		3		10	3-5% Pb cp py tr.ZnS
and the second s		to the core.	65	70		5		**	minor py
		The banding across this limestone	70	75		5		n	minor py tr.PbS cp
		unit is quite variable, as:	75	80		5		"	tr. py
angerin danaction realization realization		@ 3.5' - 40°; @ 10' - 32°; 15-25'	80	85		5			tr. py
		banding along core with a few 'Z' shaped	85	90		5		"	tr. py cp
		drags; @ 31' - 32°; @ 40' - 25°; @ 51' -	90	95		5		9	tr. py cp
ypppinin o'r o'r y eigiff - wright i'r ddig		550; 6 52' - 740; 55-100 near massive,	75	100		5	La Saland		tr. py cp
		very little banding; @ 100' - 550; @ 107'	1144 - 4	*	FATTAL A	(15) · · · · · · · · · · · · · · · · · · ·	19		

	AND MODERN CONTRACTOR	SAN CONTRACTOR OF THE PARTY OF	TO CONTRACTOR OF THE PROPERTY	
HOLE NO.		HE3		.77
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PURPOSE OF		and the second second second
	and the second s	

PROPERTY\_\_\_MIRON OPTION - HESS #3 GROUP

Hess Township

				ss Town				
FROM	то	DESCRIPTION	CORE SAMPLES FROM TO RECOV. WIDTH ASSAY			Ţ	DESCRIPTION OF SAMPLE	
THE RESERVE OF THE PROPERTY OF			FROM	10	HECOV.	WICH	79971	
		Erratic amounts of sulphides are found						
		along the limestone unit - the best section	100	105		5		Ist - neg. py
		from 62-65 with some coarser blebs of	105	109		4		" neg. py
		galena and pyrite plus minor chalcopyrite	109	112.5		3.5		Slst-cgl - tr. py cp
		and yellowish sphalerite. This is the						
		only section where sphalerite was noted,						4
		Sulphides are most commonly associated with					1	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
		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;						5 8
		103.4-104.4; and 107.7-108.4; plus some						COLUMN TO THE PROPERTY OF THE
and the second s		broken core 7.7-12.3 and 40-50.						
and a second sec								9
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.						

FORM \$13	
NORTH (majoracoacastationscratistics) where the contract	
СА\$Т «мероризминистрация политический полит	
CLCV:	
AZIM. Managamananananananananananananananananan	
010	

10.00	and deposit of	 2.500,000	

OMMENCE:	militalishinkusus novdeli			
INISHED		100		
URPOSE OF		-	-	-
HOLE				

HE3-1-77

PROPERTY MIRON OF CION - HESS #3 GROUP

Hess	Towns	hij
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	Hess Township								
FROM	TO		CORE SAMPLES				DESCRIPTION OF SAMPLE		
PROM	10	DESCRIPTION	FROM	то	RECOV.	WIDTH	ASSAY	DESCRIPTION OF SAMELE	
		There are a few fragments in the silty							
		member as well at 111.5. The unit from							
an managamangan pangkan pangkan pangkan sa mangkan managan pangkan pangkan pangkan pangkan pangkan pangkan pan	Control of the Contro	112-112.6 is dark grey green with assorted					0.00		
A STATE OF THE PARTY OF THE PAR		subrounded to elliptical fragments averaging							
		less than 5 mm in diameter. Fragment						at any	
	i	types include buff to greyish carbonate,						William Company	
CONTRACTOR OF THE PARTY OF THE	1	greyish granite and dark green chloritic.							
		Minor pyrite in the conglomerate.							
enterna estatua estatu		Contact to conglomerate unit (with							
		siltstone) is at 47°. Possible Bruce							
	1	formation(?).							
uarraco - ellacuración contrata de la compositiva della compositiv	in 4 - and company and an analysis of the company o								
112.6	120	Broken contact to granite. The		and a second					
No. of the second secon		granite is greyish in colour and relatively							
angular paragraphic and a second		coarse grained with roughly equal portions	and a second						
		of pale greenish to off-white feldspar						Dan R. alexander	
Alle pageing particulars of Albanders and Albanders on the Albanders Albanders		and clear to greyish quartz. The granite							
		is also thoroughly speckled with black						HOLLINGER MINES LIMITED	
opposite, referenciation en selle rather of the commentation of the con-	To the second se	hornblende and biotite (minor).						TIMMINS, ONTACIO	
	120	END OF HOLE		THE WORLD AND ADDRESS OF THE PARTY OF THE PA					
				N. Vandestriki di seco samurin					
	and conservation or the			# 200 Marie 10 Cities 10		F E. F. W. M. S. W. S. W.			

Location of Collar from #3 Post of S-471072: 1052' North 905' East 1+008

XL ZE

2940

Surface

Collar 8 450 - no other tests

NORTH

EAST \_

DIAMOND DRILL REPORT

MIRON OPTION - HESS #3 GROUP

	SEED, A C. Jan STRONG PROPERTY.	800
HULE NO.	HE3-2-7	987
	A CONTRACTOR OF THE PARTY OF TH	886

August 3, 1977 August 6; 1977 COMMERCED FINISHED .

PURPOSE OF

To test EM anomaly possibly associated with

PROPERTY

		S-471072 Ex Core		Hes	s Towns	hip	Dril	led by: Wm. Manderstrom
A CONTRACTOR OF THE PROPERTY O	100			(	ORE SAMPL	65		DESCRIPTION OF SAMPLE
FROM	то	DESCRIPTION	FROM	то	MECOV.	WIDTH	ASSAY	DESCRIPTION OF SAMPLE
0	3	Casing.			<b>3</b>			Bertine Control of the Control of th
3	. 62.9	•						
	02.9	greyish white limestone as seen on surface.		1				
		The limestone is soft, blocky and		e de la companya de l				
		rather poorly bedded at 70° to the Core						
AND THE PROPERTY OF THE PROPER		Axis. Bedding is normally accented by thin						
er northe a coperant reten i reten per peter antificio de matérial film de	aparen di amaginaria in materiale di amaginaria di amaginaria di amaginaria di amaginaria di amaginaria di amag	seams of sericite-chlorite alteration			Andrew Control			
According to the state of the s	-	along and subparallel to the bedding planes						
		The limestone is also cross fractured		10				
the control of the could be controlled an experience of controlled	90	with fine seams and stringers of yellowish			To the state of th			
	17.7	to brownish sericite and dark green						
All A reference of the control of th		chlorite. Only minor cross fracturing			en again			
processible control of the control of the property of the control		and/or patches of calcite are noted in						
PO A VIGINO - HALMANINA A A A A A A A A A A A A A A A A A	1	this unit.						
Adda money of a commence of the second		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	40	45		5		Lst - very minor py PbS cp
en er oppositioner er e		include: @ 36.3, 44.2, 45-45.6, 57.5 and	45	46.5		1.5		Lst - 3% Pb tr. py cp
species - vidas - opas (habiya nekalisyin makkak		60.4.		-				
		Due to the blocky nature of the		Paris Level	J. Carlotte	1. 1. 1. 1. 1.		The state of the s

St. shr. smith. r	The second second	1.9%	
ЮRTH			
EAST			
iLEV	***************************************		

PROPERTY	MIRON	OPTION	-	HESS	#3	GROUE
THOI LITET		-	Name and Address of the Owner, where	-	-	

and a second sec

Hess Township

FROM	TO	DESCRIPTION		C	ORE SAMPL	DESCRIPTION OF SAMPLE		
	1.0			70	RECOV.	WIDTH	ASSAY	DESCRIPTION OF SAMPLE
		limestone, there are several sections of			4			
		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;			,	a de la composition della comp		
		46.6-47.4; 51.7-53.0; and 58.2-59.3.						
		The base of this limestone unit				1000		
		gradually becomes greyer in colour and						
		there are a few beds with a greenish tint				5		•
		(silt component?) at 60-650 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.						
anaparana saasakaakaa		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,		hand to the same of the same o				
		however, that this section is fault						
		related. Weak fragment lineation @ 60-620.						
		It is possible that this zone represents						
		some type of erosional unconformity.						

endantification and this contraction of the contrac	31 21 2 2 3 3 4 5 4
NORTH	
EAST	
ELEV.	
AZIM,	

<u>influence a si l'implication de la company </u>	and the control of the body of the control of the
	ب دروی به مخدود نیز و دروان بین بروی بین بروی بین بازد و بین و بین بازد و بین بازد و بین بازد و این است.
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PROPERTY MIRON OPTION - HESS #3 GROUP

				Hess	Townsh:	ip			
FROM	то	DESCRIPTION		•	ORE SAMPL	ES			
		DESCRIPTION		70	RECOV.	WIDTH	ASSAY	DESCRIPTION OF SAMPLE	
65.6	180	Broken contact to a fairly wide zone			1				
		of interbedded siltstones and carbonate							
-		sands or recrystallized(?) carbonate muds.			-				
		The siltstones have a high carbonate		7					
Annual Section Co. (Co.)		content and react strongly with HCl. This		1					
		member is fine grained, thinly bedded and							
		varies from dark lime green to dark green							
And the paper of the second and the second of the second o		in colour.							
at Brooklage out in to the control of colored process of the colored in the color		The carbonate units are somewhat			-				
400 c eMicaling i i subhi sub il Survivo y ritari nel diri inci i i i iligani munici emi api diligenti ili		granular in texture yielding a salt and							
Androige following has harmoned (basis and according to an experience and a		pepper appearance to the beds. In some of		-					
		the coarser grained horizons, minute 'eyes'							
		of quartz(?) and carbonate (average 1 mm)							
		are visible.		40.					
		Although the carbonate units themselves							
Charles and Charles and Charles and Charles Annual Parks		are not bedded, contacts are conformable		and the second s					
		with the thinly bedded siltstone. The		100					
		carbonate beds are grey to dark grey in							
		colour.						-	
		Only erratic traces of pyrite are							
		noted across this zone - most commonly					The second second		
		seen in the carbonate beds.		The state of the s			Contract Production Visit Special		
		Fracturing in this zone is very minor							
		unlike the overlying limestone unit.							

FORM 522
NORTH
EAST
ELEV.
AZIM,
DIP

ROPERTY	MIRON	OPTION	-	HESS	#3	GROUF

PURPOSE OF
HOLE

HOLE NO. HE3-2-77

Hess Township

SCRIPTION OF SAMPLE
SCRIPTION OF SAMPLE
2. Alexander
MINES LIMITES
, ONTARIO

NG EA EL	ORTH	1+50E Surface 1510 lar @ 600 - no other PROPERTY MIRON OF	DIAMOND DRILL REPORT				HOLE NO. HE3-3-77  COMMENCED August 7, 1977  FINISHED August 11, 1977  PURPOSE OF Test Pb Zn Showing at a under DDH #1	
	<b>†</b>	S-471072 Ex Core					Drilled by: Wm. Manderstrom	
FROM	то	DESCRIPTION	FROM	70	RECOV.	WIDTH	ASSAY	DESCRIPTION OF SAMPLE
					1	-		
00	3	Casing.				-		
3	120	Espanola formation - a mixture of				<u> </u>		
		limey siltstone and carbonate sand or re-						
		crystallized (?) carbonate mud.						- Aller - Alle
		The siltstones are fine grained and	10		SAN COLOR			
		thinly bedded, varying in colour from dark						
	officeration and	lime green, to grey green, grey brown and		and the first firs	and a state of state			
		putty shades. Both the siltstones and			Property of the second			
		carbonate sections react strongly with HCl.			And the state of t			
		The carbonate phaseswhether they be						
		carbonate sands or recrystallized carbonate						
		mudsare somewhat granular in texture			AND THE REST			
		producing a salt and pepper appearance to						
		the core. These units vary from light to						
		dark grey, green grey and brown grey in			- Andrews			
		colour. Bedding within these units is very						
		poorly developed to nonexistent. Mineral-						
	•	ogically, the carbonate sections are almost						
-		wholly composed of carbonate - in some			glater despens			
		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						

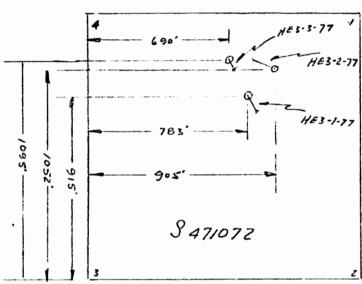
carbonate sands.

• -	NORTH		)ND DRI	LL REPO	RT #3 GROS	JP	PURPOSE OF	нез-3-77 2.
					Hess Tov	vnship		The state of the s
FROM			CORE SAMPLES					DESCRIPTION OF SAMPLE
PROM	ТО	DESCRIPTION	FROM	то	RECOV.	WIDTH	ASSAY	DESCRIPTION OF SAME DE
		Metamorphism does not appear to be					20.7	
		much (if any) of a contributing factor to						
		the granular nature of these carbonate	The state of the s	1	the Open			
		sands. Thus, it appears to follow, that			1			
		some variation in the type or direction of	e a la company	1				
		source material is needed to achieve an	Object of the state of the stat					
		assemblage of interbedded carbonate sand	A STATE OF THE STA					
-		and fine silt units.	And a second of the second of		4			
		a lability in this ware are your minor			-			

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. 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 "ariable 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 or DON HE3-1-77 HE3-2-77 HE3-3-77

HESS TWP Scale 1" = 400.



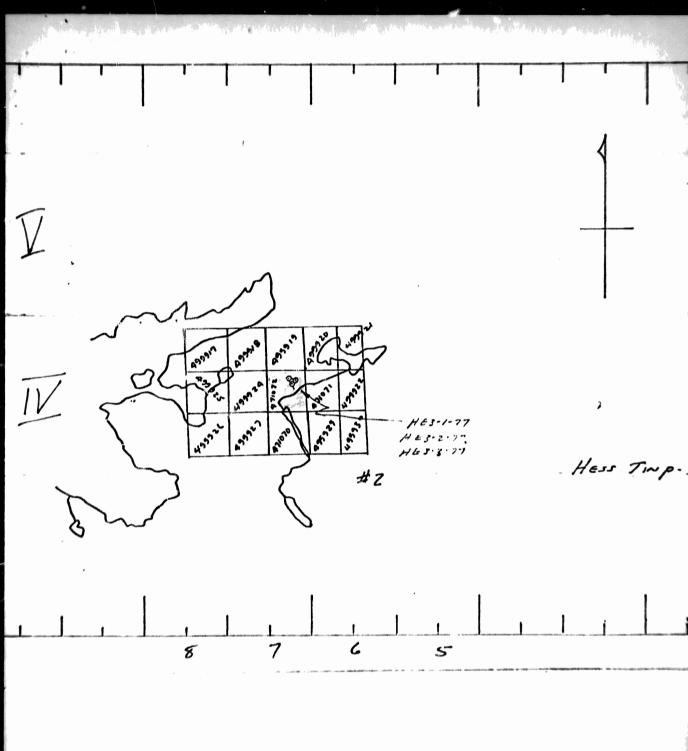
HE 3-2-71 HE3-3-77 HE 3-1-77 July 30/17 Aug 3/27 Aug 7/22 STANTED Aug 6/77 Aug 11/07 Aug 2/27 FINISHED . 01" EX .81" . 81" DIA of Cons 120 ( TO 13 LENGTH 120' 180' Dip - 450 - 45° - 60" AZ 1510 2940 1510

Commence WA MANDERSTROM

Box 429 TEMAGAMI

HOLLINGER MINES LIMITED
TIMMINS, ONTARIO

160 4/77



HOLLINGER MINES LIMITED TIMMINS, ONTARIO