



DIAMOND DRILLING

42G04SW0217 12 WALL

TOWNSHIP: Walls

REPORT No.: 12

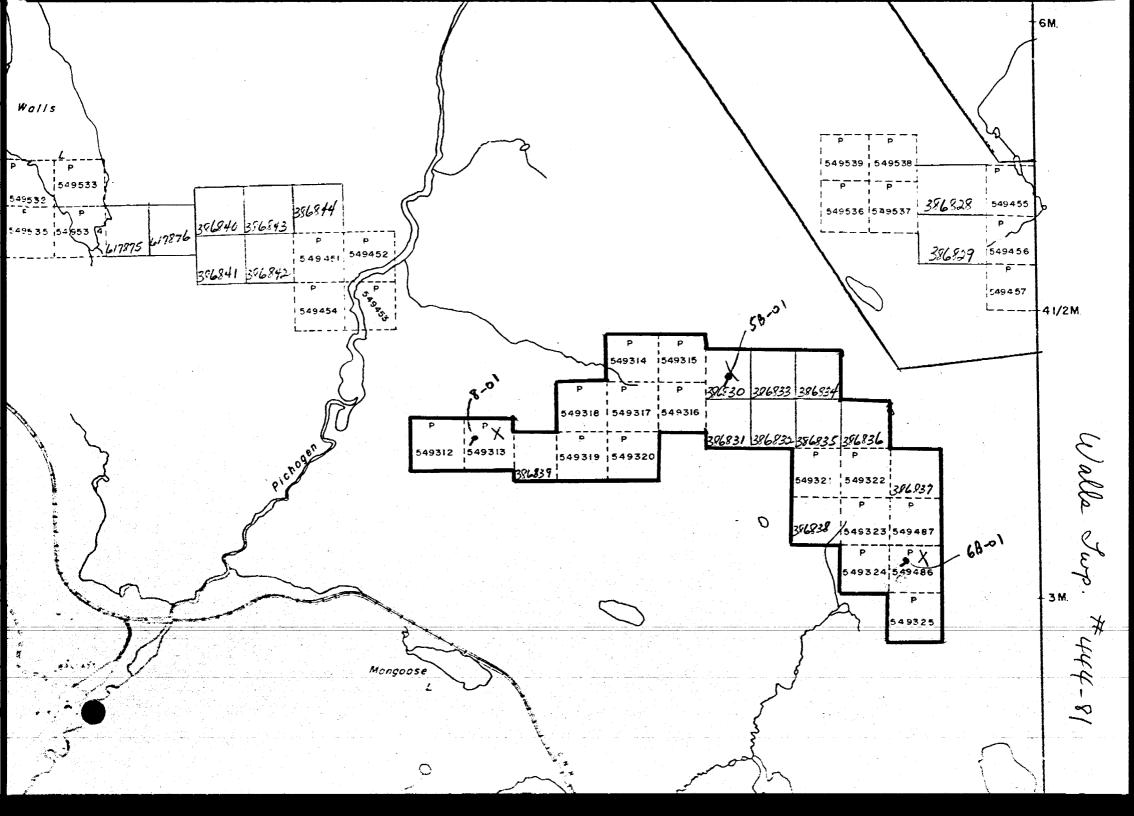
WORK PERFORMED BY: Amax Minerals Exploration

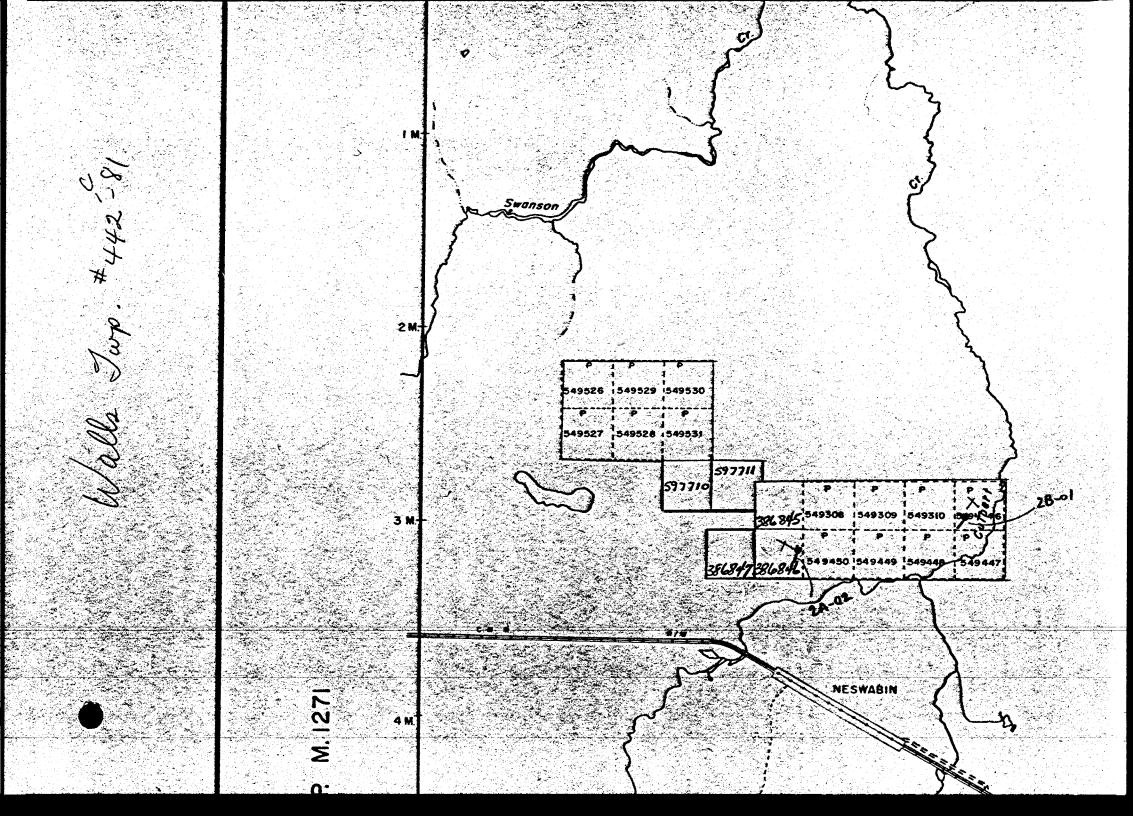
CLAIM No.	HOLE NO.	FOOTAGE	DATE	Note
P 549446	1039-02B-01	160.0 m	July/81	(1)
P 386846	1039-02A-02	101.0 m	Aug/81	(1)
P 549452	1039-04B-01	88.2 m	July/81	(2)
P 386844	1039-04A-02	95.3 m	July/81	(2)
P 386830	1039-05B-01	104.0 m	July/81	(3)
P 549486	1039-06B-01	66.5 m	Aug/81	(3)
P 549313	1039-08-01	90.0 m	Aug/81	(3)

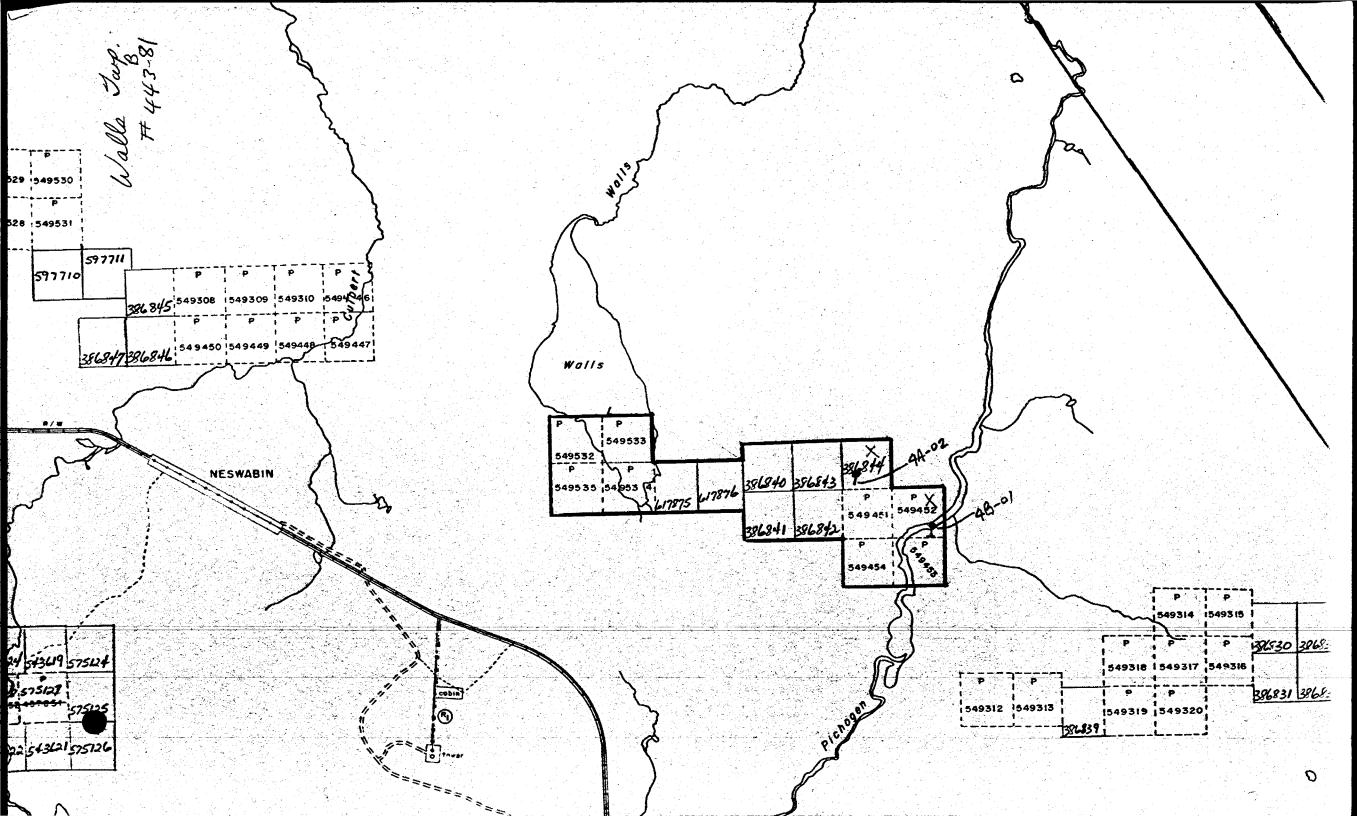
NOTES: (1) #442C-81

(2) #443B-81

(3) #444-81







		DIAMOND DRILL R	ECORI	D					1	Hole No. 🏃	039-02	B - 01	
Property 1 Younship W Location L	039-02B Malls 1+25W, 1+3	Sheet 1 Length 160 0 metres Commenced July 25, 1981 Bearing 205 0 Completed July 27, 1981 Dip -45 0 Drilling Co. St. Lambert 8N Objective To evaluate E. M. Core Size BQ Casing Left/ Lost in Hole Nil Casing Left/ Lost in Hole Nil	Etch		-45° Depth 00.0m 60.0m	Rdg. 54 ⁰		50 30 3	Location	Sketch	North	-	
Core Locati Remarks	on MNR Timn	ins M. anomaly caused by sulphides in biotite - chlorite meta-wacke.							9			no P5494 1:1250	46
Footage From	To To	DESCRIPTION		Sample No.	From	To (n	Length etres)	Au ppm	Ag ppm	Cu ppm	Pb ppm_	Zn ppm	
0	11.00	OVERBURDEN											
11.00	15.26	BIOTITE - CHLORITE META-WACKE											
15.26	33.23	QUARTZ BIOTITE PARAGNEISSE											
33.23	82.30	BIOTITE CHLORITE META-WACKE (CONDUCTIVE IN PART)											
82.30	89.96	PEGMATITE											
89.96	160.00	BIOTITE - CHLORITE META-WACKE (CONDUCTIVE IN PART)									i		•

160.00

END OF HOLE

DIAMOND DRILL RECORD

Hole No. 1039-028-01 Sheet No. 2

Footage	e - Metres				T	T	^	Λ- '	<u> </u>	- Di		
From	To	DESCRIPTION	Sample No.	From	To /	Length metres)	Au	Ag	Cu	Pb	Zn .	
<u> </u>	11.00	OVERBURDEN	+	+	+	metres)	ppm	ppm	ppm	ppm		
<u> </u>		OFERDORDER	 	+	-	+		'	·			
		- sand and boulders	-	 	 	+	·	'	·			·
		Julia and Journers	 ,	 		+	'	'	` 			·
11.00	15.26	BIOTITE - CHLORITE META-WACKE	+	1		+	' 	'	·			
	13.50	VEVILLE OILOUVE HELL HUNE	+	 	+	+	'	'				1
		- grey to grey-green colour	 	+	 	+	<u></u>	·———				
		- fine to medium grained	1	+	 	+	·					<u> </u>
		- Banded 30% biotite, feldspar 20%, 10% amphibole, quartz 20%, chlorite 20%	1 .	+		+ +						
		minor carbonate in partings.	 	+	+	+						
		- Felsic rich hands to 4mm	1	1	1	1						
		- Strong foliation 68° to core axis at 14.0 metres.	 	+	1	+	·			 -		
		- Strong foliation 68° to core axis at 14.0 metres. " " 72° to core axis at 15.1 metres.	 		 	+						
		- Last 1.5 metres of section contains 2% py-po as disseminations.	1	1	 	 	 +					+
		- Usually associated with the felsic bands.	t ₁	 	 							
		- slightly magnetic	 	 	 ,	+			+			
		- Broken lower contact.	1	1	 	+						
			 1	1	 ,	1						
15.26	33.23	QUARTZ - BIOTITE PARAGNEISSE	1		1	1				 +	 i	
		·		1		1						
		- gneissic texture (possibly tuffaceous)			<u> </u>							
		- fine grained	1	T	·							
		- Composed of 89% quartz, 10% biotite, pv-po to 1%.	1)									<u> </u>
		- Biotite flakes give a salt and pepper appearance in places.			1						i	
· · ·		- Biotite flakes give a salt and pepper appearance in places. - 16.02 - 17.46 metres- moderate sericite alteration - contains up to										
i		10% po-py.	'	1								
		- minor sericite alteration at 29.78 po-py	[]	'								
		- minor sericite alteration at 29.78 po-py - Gneissosity 70° to core axis at 29.7 metres. 72° at 26.2 metres - in	<u> </u>	1	<u> </u>							1
		places extremely variable.	\	1	·							1
		- Large angular quartz fragments at 16.26 to 25.80 to 6cm.		<u> </u>	<u> </u>							
		- Interheds of fine grained biotite meta-wacke - poorly developed - minor	1		·							
		carbonate contained in foliation 20.55 to 20.91 metres, 22.43 to 22.60m,		'	i							
		22.74 to 24.49.		<u> </u>	·							-
		- numerous boudin structures - usually milky quartz	'	'	·							
		- Gradational lower contact.	1	'	·							
			1	1	<u> </u>							
33.23	82.30	BIOTITE CHLORITE META-WACKE (CONDUCTIVE IN PART)	·	'	·							
<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>				'	ا <u></u>							
		- fine to medium grained		1	I							
		- green to grey green colour	\		1							
			'		·							

DIAMOND DRILL RECORD

Hole No. 1039-02B-01 Sheet No. 3

Lootage	e - Metres		Sample	T			Au	Λα	C !	Dh	7	1
From	То	DESCRIPTION	No.	From	To /-	Length,	. 1	Ag	Cu	Pb ppm.	Zn	ł
		- in part may be tuffaceous	 	 	 \	METT G27	4	- PPIII-	ppm	ווועע	ppm	
	-	- in part may be turraceous - strongly foliated giving section a banded appearance		+	 	 	 	<u>'</u>				
				1	 	 		·——				
		- biotite 50%, feldspar 30%, quartz 10%, - minor carbonate	\vdash			1	1	`				
		- py - po to 2% as disseminations fracture fillings, clots and narrow		 		 	——					
		layers to lcm		 	 		<u> </u>					
		- Garnetiferous layers to lcm - 37.65 to 40.0 metres.		+	 	 						
-		- Snowball garnets to lmm. rimmed by or associated py Foliation 65 to core axis at 35.0 metres.	-	+		+1						
				 								<u> </u>
		- Appears to contain a few interbeds of quartz prophyry to 2cm.		 		1						
		- Narrow magnetic zone 40.70 to 41.67 metres caused by 1% po and minor				 						
		cpy - section is lighter green colour - possible mafic volcanic.	·	 		 	<u></u>					
		- at 40.70 lcm, wide minor shear of chlorite	'	\vdash	L	-	——					-
		- Extensive folding evident from 5+2 folds of the foliation and nose	·		<u></u>	 						
		structures in last part of the unit.	<u>'</u>		L <u></u>							<u></u>
		- Foliation 82° to core axis at 44.0 metres.	' ——		!		'					
		- Numerous felsic tuff or sediment interbeds from 51.0 metres to .4 metres	·	L	1 		<u>'</u>					
		e.g. 71.8 to 72.1	·			——	'					
		- Mafic rich bands garnetiferous from 60.4 - also contain amphiboles.	` 	<u></u>		 	'					
<u> </u>		- Massive po with lesser py - 53.23 to 53.75 metres - po 50%, py 20%	·——-	<u></u>		-	'					
<u> </u>		(conductor)	` 	<u></u>		 	<u>'</u>					
		- very minor cpy - a few fine grains within the po	` 			—	'					
<u> </u>		- Sulphides exhibit a breccia texture with angular fragments of more felsic	`	<u>'</u>		 	'					
		material to 2cm.		<u>'</u>			`					
		- Talc developed of fracture surfaces.		'		ļ	1					·
<u> </u>		- Minor graphite at 78.38 - finely disseminated as flakes and fine grained		'		L	`					
		clots in an amphibolitic layer.		·		L						
		- Intrusive lower contact - irregular 53° to core axis.		'		!	`					 -
				\ <u></u>			`					
32.30	89.96	PEGMATITE		\								
				<u> </u>								
		- coarse grained		·								
		- white to pinkish white		' <u> </u>		1	1					
		- 60% feldspar, 40% quartz		'								
		- Contains stoped blocks of enclosing mafic - sediment - e.g. 83.23 to		'								
		83.53m and 85.01 to 85.31 metres.		`								
		- also contains smaller angular blocks to 5cm					'					
		- Intrusive lower contact 13° to core axis.					` <u> </u>					1
	-											1
				1								1
												
			$\overline{}$	<u> </u>			<u> </u>					====

AMAX MINERALS EXPLORATION

(A Division of Amax of Canada Limited)

DIAMOND DRILL RECORD

Hole No. 1039-028-01 Sheet No. 4

		Martine 1										
From	ec - Metres To	DESCRIPTION	Sample No.	From	To (n	Length,	Au	Ag	Cu	Pb _ppm	Zn -	i j
<u> </u>	160.00	BIOTITE CHLORITE META-WACKE (CONDUCTIVE IN PART)				1			P P III		PPIII	
~ <u>>•</u> >	1	SOUTH ONE ONE THE INTERNATION OF THE PARTY	+	 		 	'		\- 			
	 	- green to dark green colour	 			1		'	·		·	
	 	- fine to medium grained - banded	 	 		 	·	\ 			·	·
		- Essentially the same unit as 33.23 to 82.30 metres	 	 	 	 	·		'	 i	l	!
	1	- Extremely broken section 97.63 to 101.0 metres - carbonate on fracture	1	 		1	-	\ 	·		l——	
		surfaces surfaces		 	-	1	·	·		 -	\	-
-	T	- Foliation 78° to core axis at 91.95 metres.	 	 	l———	 - 	·				·	
		80° to core axis at 95.00 metres.	 	 - 	l	 		·	+		1	
		- Minor cpy - a few grains within narrow py band at 92.1 metres.			L	 					1	-
		- Appears to becoming more massive. Took foliated at 70% 2	 	—	<u> </u>						<u> </u>	-
	<u></u>	- Appears to becoming more massive - less foliated - at 104.3 metres.	1									
		- Extremely folded from 105.0 metres-exhibited by fold nose at 104.6 metre	 	<u>'</u>	1							
		and 106.14 - foliation sub parallel to core axis.		1								
		- Semi-massive po-py - around these fold noses - sulphides are disseminated	'}	'								
		and clots to 4mm conductive over 14cm. at 104.6 (conductor)	L									
		- 4cm. quartz, vein at 113.2 metres.	<u> </u>		·	 .						
		- Contains a few sections with a spotted appearance - chlorite knots 108.05	L			ļ						·
		to 108.30 metres, 109.17 to 109.49 metres.				ļ						<u> </u>
		- contains quartz porphyry sections to .3 metres, e.g. 142.62 to 142.82				<u> </u>						<u> </u>
		metres - sharp contacts at 81° to core axis.	L								1	
		- Very minor garnet sections.										
			لـــــا	`		<u> </u>					·	
	160.00	END OF HOLE									<u> </u>	
						<u> </u>					·	<u> </u>
						<u> </u>					·	<u></u>
			<u> </u>								1	<u></u>
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			' 								<u> </u>	
												+
						<u> </u>					L	<u>i</u>

DIAMOND DRILL RECORD

Hole No. 1039-02A-02

																
Property 1. Township W Location 1. Logged By	1+25E, 0+88S M.E. Lavery	8S Bea Dip Obj	ObjectiveTo evaluat	ate E.M.	Completed A Drilling Co Core Size Casing Left/ Los	August 4, 1981 August 6, 1981 St. Lambert BQ	1 .		-4 Depth 101, Om	45 ⁰ Rdg. 1 48 ⁰		ie	Location S	Sketch O	North Claim No. P.3 Scale: 1:12	
Remarks	E.M.	. anomaly caused by	y graphite in si	liceous argil	lite				······································						i	,
Footage From	re/ Metres To	·		DESCRIPTIO	1 O N			Sample No.	From	То	Length (metres)	Au) ppm	Ag	Cu	Pb Zr	
0	26.20	OVERBURDEN								 -	())(([Ta]le]_bea);_	- <u>- 1844</u> 000	<u>//</u>	_11111111111111111111111111111111111111	<u> </u>	1
26.20	34.50		ORITE META-WACKE	Ē												1
34.50	35.96	CARBONATE - QU	¿UARTZ VEIN													
35.96	37.75	BIOTITE - CHL	ORITE META-WACKE	<u>.</u>												I
37.75	39.80	QUARTZ - CARBO	ONATE VEIN													
39.80	55.80	BIOTITE - CHL	ORITE META-WACKE	<u> i</u>												
55.80	56.58	SILICEOUS GRA	APHITIC ARGILLITE	(CONDUCTOR)												
56.53	60.10	TALC - CHLORIT	TE SCHIST													!
50.10	73.12	SERPENTINITE										W W MAN WINDS WATER AND A SECOND	H - 10 H 10 H	<u></u>		
Z3.12	87.39	META - BASALT														
3 7.39	91.19	AMPHIBOLITE									7 . /	2.1	10		,	
91.19	92.51	GRANITE DYKE								1/7	Hotels		-	Lau	en.	
92.51	101.00	META - BASALT			_					~ .	(, -	5		10-	7	
1	101.00	END OF HOLE			·										•	!

DIAMOND DRILL RECORD

Hole No. 1039-02A-02 Sheet No.....

Foota	ge - Metres		Sample			<u> </u>	Au	Ag	Cu	Dh	Zn	!
From	То	DESCRIPTION	No.	From	To (Length metres)	ppm	DDM	Cu	Pb	DDM .	
^	26.20	OVERBURDEN			\	New Land	NAM	N PIII	 	 	- 12111 - 1	
 -u	20.20	OVERBURUEN			 							
	i	clay, sand, granite and mafic boulders	+	1	<u> </u>	 				 		•
	1	Clugs station years and marrie poursers	_							 		
26.20	34.50	BIOTITE - CHLORITE META- WACKE										
												1
		- dark green to black			·							
	!	- fine to medium grained										
	!	 vague banding - quartz 20%, feldspar 30%, biotite 10%, chlorite 30%, 										
	<u> </u>	amphiboles 20%										
		 minor carbonate in fractures - contain small angular fragments of the 										
		host rock										
		- Garnetiferous zone from 29.9 to 30.68 - 15% garnets to 5mm. Elongate										
		parallel to foliation.				_						
		- Foliation 88° to core axis at 29.0 metres.										
		" 89 ⁰ to core axis at 30.0 metres - bottom part of section										
		schistose.										
		- 34.55 to 34.68 - 15% pyrite as cubes and stringers										
		- broken lower contact										
						٠						
34.50	35.96	CARBONATE - QUARTZ VEIN										
		•										
		- white colour										!
		- massive										! !
		- contains a few fragments of host rock to 4cm										-
		- made up of 70% carbonate - 30% quartz										<u> </u>
		- broken lower contact						· -				
												<u> </u>
35.96	37.75	BIOTITE - CHLORITE META-WACKE										<u> </u>
			+				+					
		- indentical to above meta-wacke unit										
		- minor carbonate in fractures										
		- Foliation 89° to core axis at 37.5 metres.										
		- A few quartz stringers crosscut unit at various attitudes.										
		- fragmental lower contact										<u> </u>
												
37.75	39_80	QUARTZ - CARBONATE VEIN								ļ		
			 							ļ		1
		 contains large angular fragments to 5cm of host rock 						·····				
		- breccia section from 38.74 - 39.50			 							
												1

DIAMOND DRILL RECORD

Hole No. 1039-02A-02 Sheet No.....

1 1312 111	e - Metres		1									
From	To	DESCRIPTION	Sample No.	From	To,	Length metres	Au	Ag	Cu	Pb	Zn	Į
37.75	39.80	OUADT7 CADDONATE VEXN (110.			metres,	_ppm_	_ppm_	_ppm_	ppm	_ppm	
<u> </u>	39.00	QUARTZ - CARBONATE VEIN (continued)	<u>-</u> i									
	:	- breccia fragments are angular to 4cm, average 1cm and are host rock	-									
	1	- broken lower contact	- !								·	_
	í		7									<u> </u>
39.80	55.80	BIOTITE - CHLORITE META-WACKE										
			j									
		- Very similar to above meta-wacke units.										
		- Gargnetiferous in part - snowball garnets to lcm sometimes elongate	_									
ì		in the plane of foliation.	↓									
		- 42.26 - 43.11 metres	1									
		 Contains rounded fragments to 5mm of felsic composition scattered throughout. 	-									
		- Possible graded tuff layer 46.79 to 47.12 indicating tops up the hole.	+									
		- Quartz rich layer 48.61 - 48.75.	1									
		- Foliation 86 to core axis at 44.0 metres.	+									
		" 80° to core axis at 50.0 metres.	+									
		" 85° to core axis at 54.0 metres.	†									
		- Minor pyrite <<1% in a few fractures.	+									
		- broken lower contact	†									
			†									
55.80	56.58	SILICEOUS GRAPHITIC ARGILLITE (CONDUCTOR)	Ť									_
			Ī									_
		- black - banded	<u>I</u>									
		- Massive graphite for the first 10cm.	Ī									
		- Graphite developed on foliation plans.	1									
		- Foliation 85° to core axis at 56.5 metres.	1				•					_
		- broken lower contact	1									
56.58	. 60 30	TALC CHIODITE COLICE	+									
30.38	60.10	TALC - CHLORITE SCHIST	-				·····				<u>.</u>	
		- light green in colour - fine grained	†									
		- very schistose and broken	<u>†</u>									
-		- very homogeneous	+									_
		- Schistosity 65° to core axis at 59.6 metres.	†									
		- Fine grained amphiboles scattered throughout - minor carbonate.	 									_
		- Gradational lower contact with magnetite grains appearance.	 									
-		and the second of the magnetic grains appearance.	†									
			†									
			T									
			<u> </u>									

DIAMOND DRILL RECORD

Hole No. 1039-02A-02 Sheet No. 4

Footag	e - Metres		Sample		Ι Τ	. 7	Au	Ag	Cu	Dr	Zn	
From	То	DESCRIPTION	No.	From	To (me	Length (Au DDM	ng ppm	man	Pb	Lnnm	
_60.10	73.12	SERPENTINITE			1	<u>E3</u> /	- 1/1/10	- Hhm	hhiii	 		i
		,	 	 	 -							
		- grey to greyish green	 	 	 							
		- fine to medium grained							· · · · · · · · · · · · · · · · · · ·			
		- Mottled to spotty appearance with magnetite grains to 2mm and elongate										
		chlorite masses	1	1			-					
		- Faint foliation 60° to core axis at 64.7 metres.	1									
		" " 65° to core axis at 67.2 metres.										
		- Interbed 68.4 to 69.29 of a spotted mafic volcanic - Foliation within interbed 50° to core axis at 69.0 metres.										
		 Foliation within interbed 50° to core axis at 69.0 metres. 										
		 Minor carbonate associated with interbed. 										
		 Last metre fine grained and massive. 										
		- Sharp lower contact 60° to core axis.										
73.12	87.39	META - BASALT										
										-		· · · · · · · · · · · · · · · · · · ·
		- green colour - may be mg rich										
		- fine to medium grained					·					
		- Amphiboles 50%, feldspar 30%, biotite 5%, chlorite 15%.										
		 A few large (to lcm) spots of fluid alteration - circular, cream-greenish 										
		cream altered feldspar with carbonate making up the core, minor py within										
		- Foliacion 68° to core axis at 77.0 metrės. " 71° to core axis at 80.0 metres.										
		" 71° to core axis at 80.0 metres.										
		" 70° to core axis at 86.0 metres.							·			
		- Pink medium to coarse granite dyke - 83.72 to 84.78.										
		 Rock on either side of dyke shoot with veinlets of quartz and granite 										
		- Gradational lower contact.										
											<u> </u>	
87.39	91.19	AMPHIBOLITE										
					·				<u></u>			
		- green to dark green										
		- medium to coarse grained										
		Spotty appearance - dynamic metamorphic texture.										
		- Rock consists of 40% amphiboles, 40% feldspar, 10% chlorite, 10% biotite			-							
		with minor carbonate - minor pyrite										
		 Last part of unit contains veinlets of quartz and granite. Sharp lower contact at 72° to core axis. 										
		- Sharp lower contact at 72° to core axis.	ļ									-
							٦				1	1

DIAMOND DRILL RECORD

Hole No. 1039-02A-02 Sheet No. 5

	ige - Metres	D E S C R I P T I O N	Sample No.	thom	T _a	T	Au	Ag	l Cu	Pb	Zn	
From	То		No.	From	10 (1	Length, metres)	ppm	ppm	ppm	!	ppm	<u>:</u>
91_19_	92.51	GRANITE DYKE		ļ	<u> </u>		<u> </u>	ļ	<u> </u>			<u>. </u>
		- pink colour			-	-	-		ļ			+
	7	- pink colour - medium to coarse grained		 	 	+	 		ļ		 '	
	1	Contains carbonate voin lem wide running parallel to core axis		1	-	+	 		 			+
	1 .	- Contains carbonate vein 1cm wide running parallel to core axis Foliation 65° to core axis at 92.0 metres contains a short 5cm blocks of basalt - broken lower contact	 '	<u> </u>	 				 	+	+'	+
	1	contains a short form blocks of basalt		 		1	 		 	 	+	+
		- broken lower contact			<u> </u>	 			 		+	+
[+		 	1			 	+	 	
92.51	101.00	META - BASALT	+	 		1			 	 	+	+
				+	 					 	 	
		- Similar to above meta-basalt, but shoot with five narrow granite	+	 							 	
7	[dvkes 5cm to 30cm and numerous granite veinlets.	 	 	 					 	 	+
	1	- Foliation 73° to core axis at 99.5 metres.	+							 	+	1
		dykes 5cm to 30cm and numerous granite veinlets. - Foliation 73° to core axis at 99.5 metres. - Minor carbonate in stringers parallel to foliation.	-		 	†	-			 	 	1
T		- Minor epidote alteration.	+			 				 	 	
			+		 					 	+	
	101.00	END OF HOLE	+			 				 	 	
	1		+								 	
	1		1			<u> </u>				•		
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DIAMOND DRILL RECORD

Hole No. 1039-04B-01

Property 10 Township We Location L Logged BM	039-04B-0 039-04B alls 1+25E, 1+ .E. Lavery	Bearing 1900 Dip -450 Dip -450 Objective To evaluate E.M. anomaly Completed July 20, 1981 Drilling Co. St. Lambert Core Size BQ Casing Left/ Lost in Hole Nil	Dip: Collar45 ⁰ Etch Test Depth Rdg. True 88-2 m 15.3 m	Location Sketch North Claim No.P549452 Scale: 1:1250
Remarks		E. M. anomaly caused by graphitic argillite.		Scale: 1:1250
Footage		DESCRIPTION		
From	То			1
0	4.00	OVERBURDEN	C.	
4.00	40.40	MAFIC TUFF	Ē	
40.40	40.70	RHYOLITE		
40.70	43.75	MAFIC TUFF		
43.75	44.18	RHYOLITE TUFF		
44.18	50.65	MAFIC TUFF		
50.65	51.00	BIOTITE META-ARKOSE		
51.00	54.95	MAFIC TUFF		
54.95	56.24	GRAPHITIC ARGILLITE (CONDUCTOR)		
56.24	58.60	FELSIC CRACKLE BRECCIA		
58.60	69.48	MAFIC TUFF		
69.48	70.08	RHYOLITE TUFF	Male	Il Lovery
70.08	88.20	MAFIC TUFF	1 Harris	S I When
	88.20	END OF HOLE		

DIAMOND DRILL RECORD

Hole No. 1039-04B-01 Sheet No. 2

From From	То	DESCRIPTION	Sample									
		DESCRIPTION	No.	From	To (Length, netres)	Au	Ag	Cu	Pb	Zn	iNi mag
0	4.00	OVERBURDEN				herres 1	PPM	- hhiir	PPI	PPIII	- Իրև	- Phin-
	7.00	O I LADUADLII				+						_
		sand, gravel, boulders				 						
		Sailu, graver, bourders						—				
4,00	40.40	MAFIC TUFF			·							

		- medium to coarse grained										
		- grev-green to apple green colour										
-		- grey-green to apple green colour - Foliation 60° to core axis at 5.70 metres.										
		- Alternating 2mm, layers, biotite - chlorite rich - feldspar rich										
		- Alternating 2mm. layers, biotite - chlorite rich - feldspar rich - Up to 40% biotite, 25% feldspar, 10% quartz, 25% chlorite - minor										
		carbonate + epidote.					······	***************************************				
		- 10cm fracture filled with sand at 5.0 metres.						-			-	
		- Quartz feldspar pegmatite sweat 13.4 to 13.9.						****		-		
		- Talc developed along numerous shear planes.										
		- Narrow tuff interbed at 12.6 metres.								~		
		- Magnetite to 5% as disseminations from 14.0 to 14.5 metres.						-				
		- Intensely fractured around 24.5 metres and infilled with epidote.										
		- Minor py <1% as disseminations throughout unit.										
		- Broken lower contact.										
40.40	40.70	RHYOLITE										
		- fine to medium grained										
		- grey colour										
		- massive - possibly spher olitic										
		- 90% quartz - 7% feldspar - 2% biotite										
		 Minor py as disseminations and infilling fractures. 										
		 Minor sericite alteration along hairline fractures. 						. ,				
		- Broken lower contact.										
40.70	43.75	MAFIC TUFF										
						<u> </u>						
		- identical to unit from 4.0 to 40.40										
		- Foliation 65° to core axis at 42.10 metres.										
		- Broken lower contact.			-							
43.75	44.18	RHYOLITE TUFF									· · · · · · · · · · · · · · · · · · ·	
73.73												
		- grey colour										
		5. 5. 001041								-		1

DIAMOND DRILL RECORD

Hole No.1039-04B-01 Sheet No.___3

Footag	e - Metres		Sample		Τ_	1	Au	Ag	Cu	Pb	Zn	Ni
From	To	DESCRIPTION	No.	From	То	Length (metres	mqq	mag	ppm	ppm	ppm_	_ מסמ
		- medium to course grained										
		- Quartz eves elongate to 8mm along the plane of foliation.							 			-
		- Quartz eyes elongate to 8mm along the plane of foliation Foliation 60° to core axis at 43.9 metres Irregular lower contact 65° to core axis.										
		- Irregular lower contact 65° to core axis.		1								
_44.18	50.65	MAFIC TUFF						******				
		- dark green colour										
		- Fine to medium grained - Talc developed on shear planes.										
		 Very similar to the other tuff units - minor carbonate 										
		- More tuffaceous looking - where there appears to be an increase in the										
		quartz content to 25%.										
		- Rhyolite interbeds - 46.02 to 46.28, 49.17 to 49.21										
		 Interbeds are quartz eye tuffs. Foliation 52 to core axis at 49.40 metres - minor py disseminated 										
		- Foliation 52° to core axis at 49.40 metres - minor py disseminated										
		throughout.										
		- Sharp lower contact 52° to core axis.								·		
50.65	51.00	BIOTITE META-ARKOSE										
		- fine grained										
		- greyish brown colour										
		- 60% feldspar, 40% biotite - minor carbonate										
		- 60% feldspar, 40% biotite - minor carbonate - Poorly developed foliation 51° to core axis at 50.71 metres.										
		- Broken lower contact.										
	54.05	META THE										
51.00	54.95	MAFIC TUFF	 						<u> </u>			
						-						
		 Banded with feldspar rich and chlorite rich layers - alternating pink- 	ļ		ļ							ļ
		ish grey to green colour.	ļ						-			-
		- fine to medium grained									 	
		- First .3 metres garnetiferous with 20% py as rims and clots.	 		 _				 			ļ
		- carbonate in randomly orientated hairline fractures and concordant	-		-							
		layers to 4mm.	-						-	 	 	ļ
		- Foliation 62° to core axis at 54.10 metres - possibly a few elongate	 						 	<u> </u>		 -
		fragments or boudins to 7mm.				-			_	 		-
		- 6mm. layer of pyritic argillite at 43.40 metres.	1					!	 	ļ	<u> </u>	
		- 40% feldspar, 50% chlorite, 5% carbonate, 5% Talc				-	····					
		- Talc developed along infrequent shear planes.							<u> </u>			
		- Sharp lower contact 610 to core axis.										
			1	1	1	i j			1	1		

DIAMOND DRILL RECORD

Hole No. 1039-04B-01 Sheet No. 4

	e - Metres	DESCRIPTION	Sample	From	то	Length	Au	Ag	Cu	Pb	Zn	Ni
From	To		No.	1.10111	10	Length (metres	ppm	ppm	ppm	ppm	ppm,	ppm_
_54.95	56.24	GRAPHITIC-PYRITIC ARGILLITE (CONDUCTOR)			<u> </u>							
		- black colour										
		- fine grained										
		 graphite as flakes and along shear planes throughout section 										
		- Massive graphite 55.3 to 56.0 metres.										
		 Pyrite disseminated throughout section, as clots and infilling fractures 										
		to 20%.										
		- 5% carbonate usually in fractures. - Foliation 61° to core axis at 55.5 metres.			<u></u>							
		- Foliation 61° to core axis at 55.5 metres.	ļ									
		- Broken lower contact.										
56.24	58.60	FELSIC CRACKLE BRECCIA										
		- grey colour										
		- angular breccia fragments to 1.5cm.										
		- Pyrite to 5% as clots and interstitial to breccia fragments.										
		- Minor carbonate in hairline fractures.										
		- Brecciation becomes very intense at bottom of the section.										
		- Broken lower contact.										
58.60	69.48	MAFIC TUFF .										
		- green colour										
		- fine to medium grained										
		- Shoot through with carbonate in fracture and along the planes of										
		foliation to 10% - pyrite to 2%.										
		- Foliation 45° to core axis at 66.0 metres - talc developed along										
		fracture surfaces.										
		- Sharp irregular lower contact.										
69.48	70.08	RHYOLITE THEE										
03.40	77.00	WHALL IVI										
		- grey colour	1									1
		- fine to medium grained										
		- elongate quartz eyes to 4mm.										
		- Numerous hairline fractures infilled with sericite.										
		- Carbonate to 1% along later fractures.							<u> </u>			
		- Sharp irregular lower contact with 2.7cm. offset.	 						!		 	+
		Charp Triegarat Toner College Will 2.7 all. 011366.	 			 				 	 	+
			 		 	+		.			 	+

DIAMOND DRILL RECORD

Hole No. 1039-04B-01 Sheet No.____5

												
	ge - Metres	DESCRIPTION	Sample	From	То	Langeh	Au	Ag	Cu	Pb	Zn	Ni
From	To	D D O N I I I I O N	No.	FIOIII	10	Length metres	maa		mag	ppm	ppm	ppm
_70.08	88.20	MAFIC TUFF			_						•	
	1		 			 			†			
		- green colour	 			1			†			
		- green colour - fine to medium grained	+			 - 			 			
		- as above				 		 				
		- as above - Foliation 55° to core axis 72.2 metres Numerous narrow (.1 metre) argillite beds with pyrite stringers and blebs at 78.5 metres.							 			
		Numerous narrow / 1 metro) argillite beds with pyrite stringers and				 	-	 				
		hlabs at 78 5 matros	+		 -	 		 	 			
		- Narrow garnetiforous sections from 93 9 to 94 4 mothes	 			 			 			
		- Garnets are elegate in the plane of foliation to 1 5cm	- 			 			ļ			
		Cannote and nimmed with punits	 			 		 				
_		- Narrow garnetiferous sections from 83.8 to 84.4 metres Garnets are elongate in the plane of foliation to 1.5cm Garnets are rimmed with pyrite Minor pyrite <1% over complete section.	+			 		 	 			
		- rimor pyrice xi/ over complete section.				+						
	00 20	END OF HOLE	 					-				
	88.20	END OF HOLE	 			 						
								<u> </u>				
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			1									
			 			 		 	 			
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DIAMOND DRILL RECORD

Hole No. 1039-04A-02

Hole No. 1039-04A-02sheet 1	Length 95.30 metres	Commenced July 22, 1981	Dip: Collar45 ⁰	Location Sketch	North
Property 1039-04A Township Walls	Bearing 190° Dip –45°	Completed July 23, 1981 Drilling Co. St. Lambert	Etch Test Depth Rdg. True] ↑
Location L6±25W, 1±50N	Objective To evaluate E.M. anomaly	Core Size BQ Ni Casing Left/ Lost in Hole Ni]			
Logged By M. E. Lavery Core Location M. N. R. Timmins				Ψ	Claim No. P.386844
Remarks E.M. anomaly caused	by graphitic argillite.			1 1	Scale: 1:1250
					1

l												
Footage		DESCRIPTION	Sample	From	To	Length	Au	Ag	Cu	РЬ	Zn	Ni
From	То		No.	110111	(Length metres	ppm	ppm	ppm	ppm	ppm	ppm
0	22.10	OVERBURDEN										
22.10	22.25	QUARTZ BIOTITE PARAGNEISSE										
22.25	62.35	MAFIC TUFF										
62.35	67.12	SERPENTINITE										
67.12	72.38	META-BASALT										
72.38	79.66	MAFIC TUFF (CONDUCTIVE IN PART)								-		
79.66	80.92	GRAPHITIC ARGILLITE (CONDUCTOR)										
80.92	89.00	RHYOLITE TUFF										
89.00	95.30	META-BASALT			<u> </u>							<u> </u>
	95.30	END OF HOLE					1					
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											U	

DIAMOND DRILL RECORD

Hole No.1039-04A-02 Sheet No.___2_

From Footag	e - Metres	DESCRIPTION	Sample No.	From	То	, Length	Au	Ag	Cu	Pb	Zn	Ni
		OVEDDUDDEN	110.			(metres)	ppm_	ppm	ppm_	ppm	ppm.	ppm_
_0	21.10	OVERBURDEN		 	 					 		
		- unconsolidates, sand, boulders and clay	 									
		- unconsorrances, saila, bourders and cray	-									
_21_10	22.10	CONSOLIDATED OVERBURDEN	1									-
		- clay matrix containing angular to subrounded fragments of various										
		compositions to 5cm.										
_22.10	22.25	QUARTZ -BIOTITE PARAGNEISSE										
		- grey in colour										
		- fine to medium grained - 70% quartz, 30% biotite - chlorite	<u> </u>									
		- Gneissosity poorly to mederately developed 85° to core axis at 22.20.	ļ									
		 Quartz fragments are elongated to 5mm parallel to gneissosity. 	ļ									
		- Broken lower contact.										
00.05	-60.05	MACTO THE										
22.25	62.35	MAFIC TUFF	 	<u> </u>		<u> </u>		 				<u> </u>
		fine to medium queined containing a few capaca fungments	ļ					····				
		 fine to medium grained containing a few coarse fragments light green to greenish grey 				-						-
		- For the most part foliation well developed - in part has banded	 			+						 -
			 	1		-						
		appearance Foliation 750 to core axis at 26.0 metres.				 						
		" 75° to core axis at 35.0 metres										
		" 70° to core axis at 44.0 metres.		†				-				<u> </u>
	-	- 70% biotite, 15% quartz, 15% chlorite, 1% to 15% feldspar										
		- minor carbonate within the planes of foliation, minor pyrite										
		- Numerous interbeds of quartz and quartz-biotite sediment - tuff -										
		minor sericite alteration associated.										
		- Minor pyrite common along boundaries of the interbeds - minor clots of										
		magnetite.										
		- Narrow shears numerous throughout unit, up to 10cm. wide.										
		example at 29 metre - usually where biotite content increases, becoming	<u> </u>							<u> </u>		
		biotite schist.				_	<u> </u>		ļ <u> </u>			
		- Narrow garnetiferous sections occasionally - e.g. 30.81 metres.				-				 		
		- Two narrow interbeds to 5cm of quartz eye tuff at 48.6 metres and 48.65.	ļ	 					 	ļ		<u> </u>
		- Two narrow (2.5cm) quartz - feldspar sections at 57.97 and 58.03.	-			-				<u> </u>		
		- Numerous boudinage structures throughout unit.	-		-		<u></u>			 	 	-
		- Broken lower contact.	ļ		<u> </u>				ļ			
			I	1	i	1	1	1	ŀ	i	1	İ

AMAX MINERALS EXPLORATION

(A Division of Amax of Canada Limited)

DIAMOND DRILL RECORD

Hole No. 1039-04A-02 Sheet No. 3

F = 340 = 1	Matras I											
	e - Metres	DESCRIPTION	Sample	From	To	Length	Au	Ag	Cu	Pb	Zn	Ni
From	То		No.		(1)	Length metres	ppm	ppm	ppm	ppm_	ppm	_ppm_
_62.35	67.12	SERPENTINITE	<u></u>		<u> </u>		· I	<u> </u>				
							1					
		- black to bottle green colour					· 1					
		- medium to coarse grained						\				
		- 62.35 to 62.98 metres shear - schistose with elongate clots of chlorite										
		to .5mm.					1	1				
		- Very minor cpy as discrete clots to 2mm at 62.4 metres.										
		- Talc developed wherever shearing is intense carbonate in randomly	<u> </u>		T							
		orientated hairline fractures 63.8 to 65 sheared - clots of chlorite	1		T .	1	· · · · · · · · · · · · · · · · · · ·					
		po + magnetite to 2cm - gives section spotted appearance.			Τ		1	1				
		- Minor carbonate along the planes of schistosity.								+		
		- Magnetite non-existant after 66.5.	ļ		1	1		1	+			
		- 65.0 to 67.12 - greenish to grey colour - schistose - mg chlorite,	·		1 ,	1	1	1				
		talc and feldspar.			1	1		1				
		- Complete section contains 1.5% sulphides, 1% po5%, schistosity 72%,	·		 	1		+	+		+	
		py - very minor cpy as clots to 2mm and disseminated interstitial to	<u> </u>		 	 		+				
		chlorite clots.		 		+					+	
		- magnetite averages 5% over section - as discrete grains and dissemination	ns	 	+	+	' ' '			+		
		- Undulating lower contact.		 	 	+	1			 +		
			<u> </u>	 		+ +						
67.12	72.38	META - BASALT		 		+ +		+				
J/ . 12	- , 2.50	· · · · · · · · · · · · · · · · · · ·	 	 	 '	+ + +						
		- green to grey colour				 		+				
		- medium to coarse grained	 	 	 	+	 1	+]
		- schistose for the most part - chlorite 60%, feldspar 30%, talc 10%		 	 	+	·					
		- Talc developed on shear faces.		 		+		+				
		- nairc developed on shear races minor carbonate in shear partings		 	 	+	·	+		+		
		- gabbroic texture_occurs sporatically		 	 /	+		+				
		- gabbroic texture occurs sporatically - Lower contact 85° to core axis.	\ 	 	 /	+						
		- LOWER CORRECT OF TO COLE WATS.	\	 		+						
70 00	70 00	MARTO THEE COMPHETIVE IN DARTY	<u> </u>	 		+						
72.38	79.66	MAFIC TUFF (CONDUCTIVE IN PART)				 						
			<u> </u>	 	<u> </u>	+						
		- greenish grey colour	<u> </u>					\longrightarrow				
		- fine to medium grained			<u> </u>			\longrightarrow				
		- Strongly schistose 30 to core axis at 74.0 metres.	'		L	-	 i					
		" " 85° to core axis at 77.0 metres.	1	 	L		· ——					
		- Up to 60% biotite over the section, feldspar to 20%, chlorite 15%,		L	1					1		
		Talc 2% along shears minor pyrite.		<u> </u>	<u> </u>		` 		·			
		- Narrow (3cm) interbeds of fine grained rhyolite tuff at 75.35 and 75.73.			11		·					
		contains minor pyrite.			11							
					1			1				

DIAMOND DRILL RECORD

Hole No.1039-04A-02 Sheet No.....4

Footage	- Metres		Sample		_	T	Au	Ag	Cu	і РЬ	Zn J	Ni
From	То	DESCRIPTION.	No.	From	To (netres)	mqq	ppm	ppm	ppm	ppm.	ppm
		- Narrow (8cm) garnetiferous zones at 75.96 to 76.15			1	1		<u> </u>	F. F. F. F.	F F		
		- Graphitic argillite interbed 76.26 to 76.64 metres - conductive -	-		 	1 +			-	 	 	
		contains 5% py in fractures and as hairline interbeds - contains a	1		 	+		<u>.</u>	 	 	 	
		few subangular fragments of milky quartz.	 	-	_				<u> </u>			
		- 76.64 to 79.66 identical to rock above the conductive zone				 						
		- Broken lower contact.						· 	 			
		D. VICH VIICH VIII VIII VIII VIII VIII VII	 	 	 				 			
79.66	80.92	GRAPHITIC ARGILLITE (CONDUCTIVE ZONE)	1			1						
		MINIMAL AND			——				 			
		- black colour	+		 				 			
		- fine grained	+			 			 			
		- averages 80% coarse flakey graphite over section	+	 	 	++			 			
		- 5% py in fractures and as narrow interbeds.	+			 			 	 		
		- A few milky quartz fragments and interbeds.				 			 			
		- Broken lower contact.	+			1		····				
			+			+			 			
80.92	89.00	RHYOLITE TUFF	-			+			 			
-00.72	03.00	INTIVEZIE IVII	+			+			 			
		- grey in colour - pinkish tint	-			+		<u></u>	 			
		- fine grained	+			+			 			
		- massive to poorly foliated				+			 			
		- Occasionally lapilli sized subrounded fragments of siliceous material.	 			 			 		 	
		- Narrow 10cm graphitic and pyritic argillite interbed.	-			 			 			
		- Foliation 75° to core axis at 85.0 metres.	1	_	-	+		• 4.•.		<u> </u>		
		" 80° to core axis at 87.9 metres.	-		-	 			 			
		- Narrow biotite meta-wacke interbed 85.74 to 86.00 metres.				+ +			 	 		
		- Chert interbed at 87.94 to 88.30 metres, 88.7 to 88.8.	 			 			 	 		
		- minor py <1% throughout section				+			 			
		- minor by <1% throughout section - Broken lower contact.	+			+			 			
		- DI UNCII TUWCI CUITACC.				1			 			
-00 00	05 20	META DACALT	1		·	+		<u></u>				
89.00	95.30	META-BASALT	 			+			 	 	 	
			- 			+ +			-	 	 -	 -
		- green to greenish grey	-			+				 	 	
		- fine to medium grained	 			-			 	 	 	
		- contains numerous carbonate stringers and fractures	 		 	 		····	 		 	
		- Extremely folded as evidenced by 2.5 and 0 structures.	 			+			 	 	 	
		- poorly developed foliation			ļ <u>-</u>	1			 	 		<u> </u>
		 Near bottom of section a few narrow siliceous interbands appear. 				 			ļ		 	
			_			 				ļ	ļ	
	95.30	END OF HOLE										
						1 }	,	!	1	1	1	

DIAMOND DRILL RECORD

Hole No. 1039-05B-01

Hole No. 1039-05B-01sheet 1 Property 1039-05B Township Walls Location L1+25W, 3+87S Logged By M.E. Layery Core Location MNR Timmins	Length 104.0m Bearing 205.0 Dip -50 Objective To evaluate E.M. anomaly	Commenced July 31, 1981 Completed August 3, 1981 Drilling Co. St. Lambert Core Size BQ Casing Left/Lost in Hole Nil	Dip: Collar Etch Test Depth 1 104.0	ň0	Location Sketch	North Claim No. P386830
Remarks E.M. anomaly co	aused by sulphides in siliceous a					Scale: 1:1250

Footage	/ Metres	DESCRIPTION		
From	То	DESCRIPTION	•	
0	2.2	OVERBURDEN		
2.2	18.95	BIOTITE - CHLORITE META-WACKE		:
18.95	21.42	META - GREYWACKE		
21.42	22.52	FELSIC TUFF		
22.52	75.70	BIOTITE - CHLORITE META-WACKE		
75.70	104.00	SILICEOUS ARGILLITE (CONDUCTIVE IN PART)		
	104.00	END OF HOLE		

DIAMOND DRILL RECORD

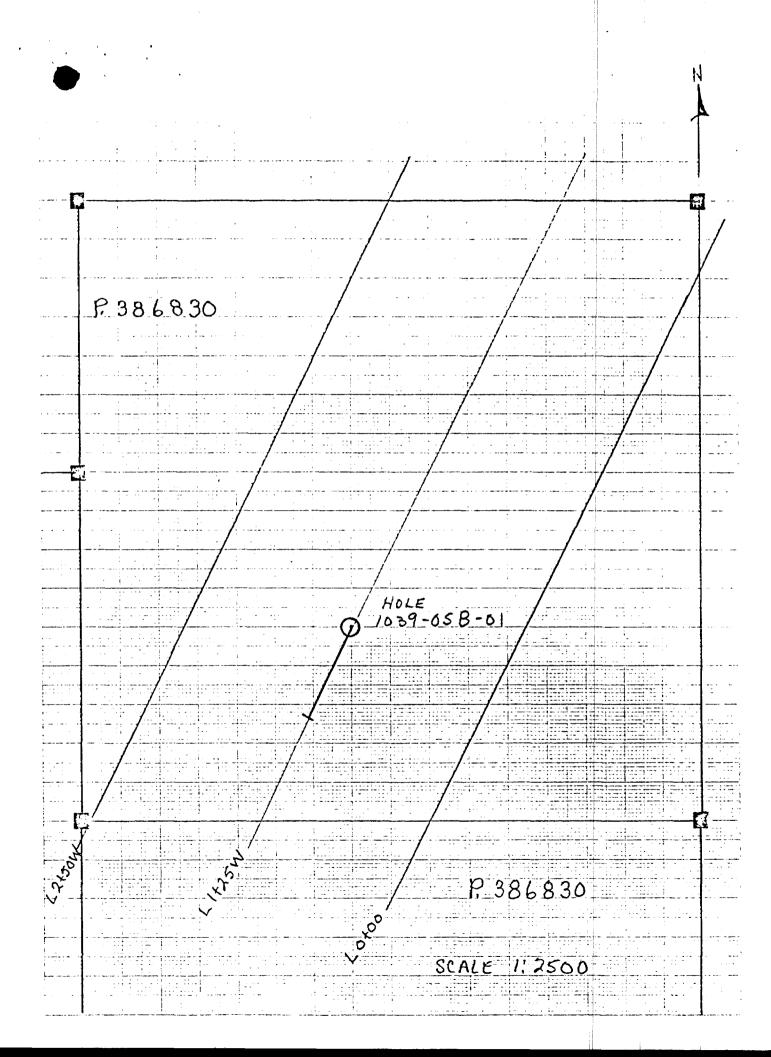
Hole No. 1039-05B-01 Sheet No.____2

Foota	ge - Metres	DESCRIPTION	Sample	F	T-	T	Au	Ag	Cu	Pb	Zn .	
From	То	DESCRIPTION	No.	From	10 (netres)	ppm	ppm	ppm	ppm	ppm	
0	2.2	OVERBURDEN								l		
		sand			<u> </u>							<u></u>
		OW ODYTE META MOVE							<u> </u>			
_2.2	18.95	BIOTITE CHLORITE META-WACKE	ļ	ļ <u>.</u>		ļ						
				ļ		ļ						
		 green to dark greenish grey colour fine to medium grained 	 	 	<u> </u>	 				 		
		- first part of unit is garnetiferous, scattered garnets to 5mm	 	 						 		
		high the 10% chlorite 20% quartz 40% folderer 10% amphibales 20%	-							<u> </u>		
		- biotite 10%, chlorite 20%, quartz 40%, feldspar 10%, amphiboles 20% - Foliation 80° to core axis at 8.5 metres.	 	 	 	-					 	
	<u> </u>	" 70° to core axis at 17.0 metres - well developed	 	 		-						
		- numerous quartz veinlets cutting the core at various orientations	 							 		
		- Garnetiferous (4cm) layer just above lower contact	 			-				 		
		- sharp lower contact 85° to core axis.						·			 -	
				 								
18.95	21.42	META - GREYWACKE										
		- grey to greenish grey colour										
		- fine to medium grained										
		- biotite 40%, quartz layered - mafic rich - mafic poor 50%, chlorite 10%								<u> </u>		
		- numerous garnetiferous layers										
		- Foliation 820 to core axis at 20.0 metres.	 		<u> </u>	ļ						
		" 80° to core axis at 19.0 metres sharp lower contact 85° to core axis.					-			ļ	<u> </u>	
		- sharp lower contact 85° to core axis.			<u> </u>	-						
	22.50									 	<u> </u>	
21.42	22.52	FELSIC TUFF				ļ						ļ
		Cinc be madism quained	 	 		-				 		
		- fine to medium grained - cream to grey colour		 				-		†	 	
		 - Cream to grey colour - Sub angular quartz - feldspar fragments to 2mm, most apparent in first 	 	 	·	 		***		 		
		part of unit.				 				 -	 	<u> </u>
		- quartz 60%, feldspar 30% - biotite - chlorite 10%				1					 	
		- Moderate sericite alteration associated with numerous hairline fractures.								 	 	
		- Foliation 75 to core axis at 21.74 metres.	1							 	 	
		- Po occurs as dissemination and within fractures <1% - very minor pyrite.		1				· · · · · · · · · · · · · · · · · · ·		 	1	
		- Bottom part of the unit is very finely layered.								1	 	
		- sharp lower contact at 80° to core axis.								 	 	
		CHAIP TORCE CONTRACT OF OU TO COLE UNIO.		1	-					 	 	
											 	 -
	1			4					l	ــــــــــــــــــــــــــــــــــــــ		

DIAMOND DRILL RECORD

Hole No. 10)39 - 158-0)}
Sheet No.	3	•

Footag	ge - Metres	
From	То	DESCRIPTION
22.52	75.70	BIOTITE - CHLORITE META-WACKE
		- green to greenish grey
		- fine to medium grained
		- same composition as above biotite - chlorite meta-wacke
		- Contains numerous interbeds of meta-greywacke 3cm to 4m.
		- Garnetiferous wherever mafic rich layers occur.
		- felsic tuff layer 31.55 metres to 32.24
		- massive po, minor py - a few grains of cpy - 22.98 to 23.01 metres, 23.37 to 23.41
		- Foliation 77° to core axis at 23.5 metres. " 80° to core axis at 29.0 metres. " 76° to core axis at 35.0 metres. " 80° to core axis at 48.5 metres.
		" 80° to core axis at 29.0 metres
		" 76° to core axis at 35.0 metres
		" 80° to core axis at 48.5 metres.
		" 86 to core axis at 56.0 metres.
		- Narrow carbonate veins 39.85 to 39.92 metres, 40.07 to 40.11 metres.
		- Contains rare elongate fragments of quartz.
		- Carbonate occurs on scattered partings of foliation.
		- Numerous layers of brown biotite throughout parallel to foliation.
		- Large po mass to 2cm at 69.96 metres.
		- Rare stringers and clots of po with minor py after 70.0 metres.
		- broken lower contact
75.70	104.0	SILICEOUS ARGILLITE (CONDUCTIVE IN PART)
		- banding - black and white-first part banding is fissile
		- fine grained
		- Contains narrow .3 metre interbeds of felsic tuff and greywacke.
		- Talc developed on numerous fracture surfaces.
		- Numerous narrow green bands where chlorite alteration is more pervasive.
-		- moderate sericite alteration within siliceous section
		- numerous hairline stringer parallel to foliation - conductive
		- Irregular mass of po - with minor py - 96.21 to 96.25.
		- bottom section becomes more siliceous
		- Foliation 760 to core axis at 80.0 metres.
		" 60° to core axis at 85.0 metres.
		" 65° to core axis at 104.0 metres.
		Intense folding at 87.0 to 87.18, evident by numerous changes in foliation
		over a very short core length and circular structures.
	1 1/1 13	CUD OF YOUR



AMAX MINERALS EXPLORATION

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				D.		ND DRILL REC	ORD				Hole No.	1039-06B-01
	1039-06B-0	01:heet1	Length	66.5m	9	August 10, 1981	Dip: Collar	4	5 ⁰		Location Sketch	North
Township Location Logged By	1039-06B Walls L0+00, 0+ M. E. Lav	ery	Bearing Dip Objective	245° -45° To evaluate E.M. anomaly	Core Size	August 11, 1981 St. Lambert B.Q. Lost in Hole .Nil	Etch Test	Depth 66.0m	Rdg. 53 ⁰	45 ⁰	\ .©	Claim No. P549486 Scale: 1:1250
Remarks	E.M	. anomaly cause	d by Po-	Py zones within metasedi	ments.							State. 1.1200
Footage	/ Metres			D.C.C.D.L.D.T.L			<u> </u>	 <u>.</u>		ı		
From	То			DESCRIPTI	O N							
0	25.49	OVERBURDEN	1									
25.49	66.50	META - GRE	YWACKE (CONDUCTIVE IN PART)					•			
	66.50	END OF HOL	E									

DIAMOND DRILL RECORD

Hole No. 10	39-06E	3-01
Sheet No	2	

			
	ge - Metres	DESCRIPTION	Sε
From	To		
_0	25.49	OVERBURDEN	1
		sand, gravel, boulders and clay	
25,49	66.50	META - GREYWACKE (INTERBEDDED BIOTITE- CHLORITE META - WACKE)	<u> </u>
		grov to groop colour	
	 	- grey to green colour	D2
	 	- fine to course grained	D2
	ļ <u></u>	- Garnetiferous 10%, scattered snowball garnets to 3cm. Throughout -	D2
		usually within the more mafic layers - 25.49 to 32.0 metres.	4—
		 Composed of 60% quartz, 10% garnet, 20% biotite, 5% feldspar, 5% chlorite overall. 	
		 Layering ranges from very fissile to 4cm - some have a crenulation clea- vage developed at 90°. 	丰
		- Minor carbonate veins cutting core at very high angles.	
		- Foliation 88 to core axis at 26.0 metres.	+
		81 to core axis at 29.4 metres.	+
		- 32.0 to 33.0 metres - 10% pyrite with minor Po as hairline stringers	+-
		parallel to foliation and within fractures.	+-
		- 32.0 to 35.07 - sulphide rich zone - conductive zone - 50% Po - Py 30%,	+
		20% Po.	+-
		- Po and Py occurs as stringers blebs and large irregular masses.	+
		- Sulphide rich section appears more siliceous.	+
		- Foliation 68° to core axis at 49.60 metres.	+
		" 85° to core axis at 58.50 metres.	+
		- Po zone 49.73 to 49.96 metres - Po 60% - a few grains of cpy - Po forms	十
		matrix containing subrounded more siliceous fragments.	+
		- Possibly more chloritized below sulphide zones.	+
		- rossibly more chromicized below sulphitue zones.	+
	66.50	END OF HOLE	F
			+
			+
			+
	_		+
			+
			+
			+
			l

AMAX MINERALS EXPLORATION

(A Division of Amax of Canada Limited)

DIAMOND DRILL RECORD

Hole No. 1039-08-01

Property Township Location Logged By	L1+25E, 0- M.E. Lave on MN.R T	Bearing 205° Completed August 9, 1981 Dip -50° Drilling Co. St. Lambert Core Size BQ anomaly Casing Left/Lost in Hole Nil.	Dip: Collar —50° Etch Test Depth Rdg. True 1 90.0m 49° 40°	Claim No. P.549313 Scale: 1:1250
Footage	·	DESCRIPTION	Sample Com To Length A	Au Ag Cu Pb Zn
From	То			-
0	1.8	OVERBURDEN		
1.8	6.85	QUARTZ - FELDSPAR PORPHYRY TUFF	[[
6.85	12.24	META - GREYWACKE		
12.24	21.53	QUARTZ - FELDSPAR PORPHYRY TUFF		
21.53	36.64	INTERBEDDED META - GREYWACKE AND FELSIC TUFF		
36.64	39.03	MAFIC TUFF		
39.03	53.14	INTERBEDDED META - GREYWACKE AND FELSIC TUFF		
53.14	72.02	GARNETIFEROUS META - BASALT		,
72.02	74.65	META - GREYWACKE		111 h /
74.65	78.59	SILICEOUS ARGILLITE (CONDUCTIVE IN PART)	Hotel	A Lavery
78.59	83.47	GARNETIFEROUS BIOTITE - CHLORITE META-WACKE	100	
83.47	9.33	SILICEOUS ARGILLITE		
£9.33	90.00	FELSIC TUFF		
	90.00	END OF HOLE	!	
	1 1			

DIAMOND DRILL RECORD

Hole No. 1039-08-01 Sheet No. 2

Footas	ge - Metres		1		·	1	۸.,	1 // 00	l C.,	I DE	· - 7	
From	To	DESCRIPTION	Sample No.	From	To /	Length netres)	Au	Ag	Cu	РЬ	Zn	İ
			110.			ie cres /	ppm	ppm	ppm	ppm	ppm .	
_0	1.8	OVERBURDEN	ļ						ļ. 	 		i
			ļ			ļ			 	<u> </u>	ļ <u>.</u>	
		sand	<u> </u>			 					ļ	
			ļ		ļ	ļi				ļ	ļ	
l_8	6.85	QUARTZ – FELDSPAR PORPHYRY TUFF	ļ			ļ				ļ		
	ļ		ļ <u>.</u>			<u> </u>				<u> </u>	 	
	 	- grey to dark grey colour with cream coloured layers	<u> </u>			ļ			ļ	<u> </u>	<u> </u>	
	-	- fine to medium grained - fragments are medium to coarse	<u> </u>	<u> </u>								
		- sub-angular guartz and feldspar fragments to 3mm									<u> </u>	
		- Foliation 50° to core axis at 5.5 metres.	ļ			 		·	ļ		ļ!	
		" 40° to core axis at 6.0 metres.						٠.				
		- Intensely folded, evidenced by sudden changes in foliation of very short								<u> </u>		
		core lengths and circular structures indicating fold noses - scattered										
		foliation to 35° to core axis.						,				L
		- Gradational lower contact.						1				
6.85	12,24	META - GREYWACKE							<u> </u>			
		- grey to greenish grey colour								†		
		- fine to medium grained										
		- Granite pegmatite dyke 6.99 to 7.36 metres with the upper contact at 45°										
		to core axis and the lower 55° to core axis.										
		- Contains biotite 35%, chlorite 20%, feldspar 10% quartz 30% and garnets						,			 	
		5%.										
		- Snowball garnets average 3mm and are scattered throughout section.									 	
		- Chlorite alteration is moderate, confined to the mafic rich layers from									 	
		9.71 to 11.43.		•								·
· · · · · · · · · · · · · · · · · · ·		- Silicified zone from 11.63 to 11.84 metres - maybe a fold nose.					· · · · · · · · · · · · · · · · · · ·				 	
		- Foliation 40 to core axis at 11.0 metres.									<u> </u>	
		- again very intensely folded									 	
		- Minor carbonate within hairline fractures and around some of the garnets.				1			†		1	
		- Gradational contact.										
		- diadacional contact.								 		
L		OULDER THE DODGE PORTURE							 		 	
12.24	21.53	QUARTZ_FELDSPAR_PORPHYRY_TUFF	-						 	+	+	
									 	+		
		- identical to the quartz feldspar porphyry tuff unit above			<u> </u>					 	 	
		- Foliation 35° to core axis at 14.0 metres.							!	1	ļ	
		" 62 ⁰ to core axis at 15.9 metres.							ļ <u></u>			
		- Mafic interbed 16.03 to 16.80 metres. Biotite and amphibole rich-solid										
		bleached biotite at the top contact 480 to core axis.										

DIAMOND DRILL RECORD

Hole No. 1039-08-01 Sheet No.___3

Footage - Metres							Au	Ag	Cu	Pb	Zn	
From	To	DESCRIPTION	Sample No.	From	To (Length metres)	DDm	DDM	DDM	ppm	nnm.	
		Carbonato voin across I matus first above the factority			-	1	- XVIII	PPIII	PPIII		PIIII	
		- Carbonate vein across .l metre just above the interbed.	ļ	 		-	 	 	 			
		- Foliation 61° to core axis at 17.0 metres.		-		 		 	 			
		" 38° to core axis at 20.5 metres.	 	ļ	ļ	 		ļ	ļ		•	
		- again very intensely folded						ļ				
		 Moderate sericite alteration -occurring as scattered irregular shaped 		ļ								
		zones.	<u></u>	 				<u></u>				
		- Gradational lower contact.		ļ <u>.</u>	ļ		!					
-03-5-			L	ļ				L				
21.53	36.64	INTERBEDED META-GREYWACKE AND FELSIC TUFF										
		- banded, green and cream to white										
		- fine to medium grained										
		- very mixed and contorted			1							
		- Dark bands are composed of 30% amphibole, 20% biotite, 20% chlorite,										
-		15% feldspar and 15% quartz.			<u> </u>			1	 			
		- White bands are essentially quartz and feldspar with rare small fragments						-				
		of the same composition.	 	 	 	<u> </u>		 	 			
		- Fine grained Po disseminated throughout, associated with the mafic		 	 	 		 	 			
		minerals to]%.			 	 		 				
		Foliation 620 to come avic at 26 6 meture						 	 			
		- Foliation 62° to core axis at 26.6 metres.				 					——— <u> </u>	
		" 36° to core axis at 31.3 metres.			ļ			 				
		- Fine grain mafic interbed at 31.41 to 31.49 - with contacts at 510 to	 						 			
		core axis.	ļ			ļ		ļ				
		- very siliceous from 32.96 to 36.64	ļ					 	ļ			
		 Minor sericite alteration more apparent in felsic rich locales. 										
		 Contains rare large (2cm) subrounded quartz fragments in last part of the 			ļ	ļ			ļ <u>.</u>			
		unit.										
		- Broken lower contact.			-				ļ			
36.64	39.03	MAFIC TUFF			1			1				
		- dark green colour										
		- fine to medium grained										
		- Consists of 60% amphiboles, 15% biotite, 10% feldspar, 5% quartz and							1			
		10% chlorite.										
		- Most of the quartz and feldspar occurs as subrounded fragments to 2mm.			 					 		
			<u> </u>					 	 			
		- Biotite occurs in plane of foliation and on fracture surfaces.			 				 	 	-	
		- Foliation 480 to core axis at 38.0 metres.			 	 		-	 -			
		" 42° to core axis at 39.0 metres.						 		ļ	ļ	
		- Contains one large (3cm) irregular feldspar quartz. Fragments at 39.7.							ļ			
_			i	ł	i	ł	t	i	1	1		1

DIAMOND DRILL RECORD

Hole No. 1039-08-01 Sheet No. 4

Footag	e - Metres		Sample				Au	Ag	Cu	Pb	Zn	
From	То	DESCRIPTION	No.	From	To (r	Length netres)	ppm	ppm	mag	ppm	ppm ·	
		- Sharp lower contact 60° to core axis.			T					1.1.1.1.1		
		Charp Tones consuct to to core axis.		†							 	
39.03	53.14	INTERBEDDED META-GREYWACKE AND FELSIC TUFF		 	 							
	JJ. 1-T	ZILLEDGE FIGUR VICE MID TECOTO TOTT			 					<u> </u>		
		- Very similar to above meta-greywacke and felsic tuff unit.										
		 - Very similar to above meta-greywacke and felsic tuff unit. - Large blocks of above mafic tuff unit included just below contact. 										
		- Mafic tuff interbeds 40.80 to 41.07 metres, 41.17 to 41.27 metres, 42.22		-								
		to 42.39 metres.					-					
		- Contacts on interbeds are sharp and vary from 37° to core axis, 65° to			"							
		core axis.										
		- Pegmatite dyke 45.52 to 45.89 metres - essentially quartz and feldspar.		1	•							
	<u> </u>	- Large (2cm) block of massive cubic pyrite with minor po 52.02 to 52.04m.										
		- Foliation 30° to core axis at 44.0 metres.										
		" 47° to core axis at 47.3 metres.										
		" 47° to core axis at 47.3 metres. " 45° to core axis at 50.3 metres - in places very contorted.				†	····	_			+	
		- Moderate sericite alteration from 51.5 to 52.83.									 	
		- Pervasive sericite and chlorite alteration 52.83 to 53.14.				 						
		- Po-Py as clots and hairline stringers - po-10%, py-5% - a few grains of			 -						 -	
		cpy <<1% associated with the alteration.		 								·
		- A few quartz gash veins cutting core at variable angles with the altered										
		zone.					7,	 				
		- Sharp lower contact 36° to core axis.										
53.14	72.02	GARNETIFEROUS META-BASALT										
			· · · · · · · · · · · · · · · · · · ·									
		- green to dark green										
		- fine to medium grained							* * * * * * * * * * * * * * * * * * * *			
		- 40% amphibole, 5% biotite, 35% feldspar, 10% chlorite, 10% garnet.	-									
		- Snowball garnets to 3mm. Scattered throughout unit.										
		- moderately foliated										
		- Foliation 50° to core axis at 54.0 metres.										
		" 410 to core axis at 65.0 metres.										
		" 41° to core axis at 71.0 metres.										
		- Numerous quartz veins and veinlets cutting core at variable angles.										
		- Po to 1% with minor pyrite occurs throughout section as stringers								†	1	
		parallel to foliation or associated with and within quartz veins A									 	
		few grains of cpy apparent.										
-		- Becomes tuffaceous in appearance at bottom of unit.								-	 	
		- Gradational lower contact.				 						
		or additional fonct confedet.								 	 	
					 		<u>-</u>			 		
	t			I	1			1	!	I	<u> </u>	

DIAMOND DRILL RECORD

Hole No. 1039-08-01 Sheet No.__5_

Footag	e - Metres		Sample				Au	Ag	Cu	Pb	Zn	
From	То	DESCRIPTION	No.	From	To	Length etres)	nnm	nom	nnm	nom	ppm -	
_72.02	74.65	META-GREYWACKE					1.1	1.1	 		111111	
		- light greyish brown colour									1	
		- fine to medium grained										
		- Made up of 40% biotite, 40% quartz, 15% feldspar, 5% chlorite.										
		- first part of section is feldspar rich										
		- Numerous layers to 5mm of biotite.										
		- Foliation 450 to core axis at 73.0 metres.										
		" 47 ⁰ to core axis at 74.5 metres.										
		 Po with minor py to 1% in stringers parallel to foliation clots associat- 										
		ed with rare quartz veins over length of unit.			_							
-		- Minor sericite alteration over .3 metres at bottom of unit.										
		- Interbedded lower contact with following unit.										
74.65	78.59	SILICEOUS ARGILLITE (CONDUCTIVE IN PART)										
					_							
		- fissile banding - cream, grey and black colour - dirty quartzite					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
		- fine grained										
		- graphitic rich horizons - E.G. solid graphite from 78.06 to 78.14										
		(conductor)										
		- 2% Po with minor py - in stringers parallel to foliation										
		 and as clots when more py present (some are conductive) 										
		 very contorted foliations locally 										
		- Foliation 50° to core axis at 76.0 metres.										
		" 40° to core axis at 78.0 metres.										
		- Sharp lower contact 45° to core axis.										
78.59	83.47	GARNETIFEROUS BIOTITE - CHLORITE META-WACKE										
		- green to greyish green colour										
		- fine to medium grained										
-		- first section to 79.90 metres very biotite rich - brown biotite layer										
		to 1cm.							1.			
		- Snowball garnets to 5mm. scattered throughout section with a few denser									<u> </u>	
		layers										
		- Minor py-po <1% in stringers parallel to foliation and on a few fracture					·					
		surfaces.									1	
		- Foliation 48° to core axis at 80.5 metres.								1	 	
		- Foliation 48° to core axis at 80.5 metres. " 50° to core axis at 82.5 metres.							1	1	 	 -
									†	1	 	
		- Interbedded lower contact with following unit.		-					+	 	 	
L '	ı	1		, ,	_	•	·	•	•	•	•	

DIAMOND DRILL RECORD

Hole No. 1039-08-01 Sheet No. 6

Sheet 170,V												
	age - Metres	D D C C D I D M I O M	Sample		T	T.	Au	Ag	Cu	Pb	Zn	
From	То	DESCRIPTION	No.	From	To	Length metres	maa			ppm	ppm_	
_83_47	89.33	SILICEOUS ARGILLITE			—	# 	1	PF:::-		+	FE	
-02-41	84.33	SILICEOUS ARGILLITE	+	+'	+	 '	+	+		+	+	
			+	+'	+	+'	 	+			 '	
 		- very similar to above siliceous argillite unit	 	'		'	 		+			
		- contorted banding	1	 '	+	 '						
	 '	- contorted banding - interbed of felsic tuff 83.75 to 84.05 metres - minor sericite alteration - Foliations 47° to core axis at 84.0 metres Minor Po + py in stringers parallel to foliation - Sharp lower contact 82° to core axis.	1	<u> </u>	 	 '	 	1				
		- Foliations 47" to core axis at 84.0 metres.		 '	1	 '	<u> </u>				 ′	
		- Minor Po + py in stringers parallel to foliation	1	<u> </u>		<u> </u>	<u> </u>					
	<u> </u>	- Sharp lower contact 82° to core axis.		<u> </u>			<u></u>					
		· · · · · · · · · · · · · · · · · · ·		/ ·		<u>'</u>					'	
_89_33	90.00	FELSIC TUFF		,'							T	
				1		†				1	† · ·	,
		- very similar to felsic tuff layers above	1	 		+		+		+	+	,
1	 	- very biotite rich for the first .2 metres - banded	 	 	 	 	+	 		+	+	
I——	,	your contented	 		 	+	 	 	+	+	+	
 	 	Foliation 100 to core axis at 80 7 metres	 	+	+		 '	+	+		+'	
	 	- very contorted - Foliation 48 to core axis at 89.7 metres Minor py - clots related to fractures.	+	+'			 	+	+		 '	+'
 '	4	- Minor by - Clots related to tractures.		 '	+	 '	ļ' '	+				
	1 22 22	1 05 101 5		<u></u> '								1
<u> </u>	90.00	END OF HOLE		<u> </u>	4	 '	 '				<u> </u>	1
4 '	1	1	 '	<u> </u>			<u> </u>					
						'						
,		, and the state of	ſ <u></u>	\[\\		1	ſ <u></u>		T			
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_		1		 		+	 	 	+	+	+	1
				+		+	 	+	+	+	+	+
			1	 	 	+	 	+	+	+	+	
	+		 		 	+	+	+	+			+
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