



42E10NW0145 16 ASHMORE

010



Diamond Drilling

Township OF ASHMORE

Report NO: 16

Work performed by: HOLLINGER MINES LTD. (WILSON & KALSON OPTIONS)

Claim NO	Hole NO	Footage	Date	Note
TB 229617	A-1-70	642'	Aug/70	(1) (2)
	A-2-70	323.3'	Nov/70	(1) (3)
	A-3-72	443'	Jan/72	(1) (4)
	A-4-72	494'	Jan/72	(1) (4)
	A-5-72	448'	Jan/72	(1) (5)
	A-8-72	301'	Feb/72	(1) (5)
	A-10-73	402'	1973	(1) (6)
	A-12-73	491'	1973	(1) (6)
TB 229616	A-6-72	492'	Jan/72	(1) (5)
	A-7-72	302'	Jan/72	(1) (5)
TB 10971	A-9-73	302'	1973	(1) (6)
	A-11-73	301'	1973	(1) (6)
TB 139353	A-14-73	790'	June/73	(1) (6) (7)

Notes:

(...) date placed on file
 (1) (May/74)
 (2) 145/70
 (3) 228/70

(4) 6/72
 (5) 22/72
 (6) MEAP GB #33 (cross-sections only)
 (7) 102/73

Kenogamisis
Lake

TB 229617

A-1
-51°
L 642'

BASE LINE

Hwy No. 11

Triplet
Creek



W. H. Hansen
REGISTERED LAND SURVEYOR
THOMAS, CANADA

PLAN OF DDH # A-1

Claim TB 229617

Scale - 1" = 200'

ASHMORE TWP.

Aug 27 - Sep 11 1977
W. H. Hansen
15

Location of Collar from W.P. on West Side of Claim TB 229617

FORM 523
 NORTH 90' East North 90'
 EAST 2 + 50 ft of S.L. East 90'
 ELEV. _____
 AZIM. Collar 51° 100° 45°
 DIP 300 - 50' 600 - 16°
 L.6+2'

DIAMOND DRILL REPORT

PROPERTY Wilson Option - Sabre Township
 Claim TB 229617

HOLE NO. 3-1
 COMMENCED August 27, 1970
 FINISHED Sept. 1, 1970
 PURPOSE OF HOLE _____

145-170

THUNDER BAY
 MINING DIVISION
RECEIVED
 AM SEP 10 1970 PM
 718/911011/21/23/4/5/6

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
0	48	Casing					50'	Dk f gr'd Andesite non magnetic
48	115	Grey green massive non magnetic Andesite uniform app. to core					98'	Bottled fine gr'd andesite non magnetic
114	137	Feldspar for. Grey to green with incr. in chlorite numerous phenocrysts of feldspar 2/10 of an inch in dia. throughout section. Contacts ground 23' Col of Porphyry.					157' 215' 315'	Dacite lt. col. brecciated Bottled And or dacite? Lt. cherty section Pyrr.
137	331	Banded chloritic Tuff or Sed. brownish bands mica? and green chloritic bands locally min with Pyrr Py + chalco banding 80° to 60° to C.A. 2' Dacitic band at 157. 162' sm. blebs Pyr. obs. 170 sm blebs of pyrr. obs. 190 - 261 mottled Lt. col. Dacitic Tuff? at 264' cherty section minor pyrr. and chalco	170	170.5	.5			Chl band Pyrr + chalco. Very magnetic 4" mass Pyrr + Py minor Chalco Stz. str. 30° to 90 bleached section yellow sericitic Chl. band Pyrr + chalco
			192	193	1.0	1.0		
			242	244.5	2.5	2.5		
			261	264	3.	3.		

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

(2)
DIAMOND DRILL REPORT

PROPERTY WILSON OPTION - Ashmore Twp.

HOLE NO. _____
 COMMENCED _____
 FINISHED _____
 PURPOSE OF HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
			264.5	269.5	5.0	5.0		Cherty chl. section
								Minor pyrr. V.L. chalco
			269.5	274.5	5.0	5.0		Minor pyrr. V.L. chalco
			274.5	279.5	5.0	5.0		Minor pyrr. C.L. chalco
			279.5	284.5	5.0	5.0		Very little mineral
			284.5	287.5	3.0	3.0		band of Pyrr minor chalco
			287.5	289	1.5	1.5		1" nearly mass Pyrr. + Py
								minor chalco
			289	293.5	4.5	4.5		very little min.
								chl. section
			315	318	3.0	3.0		fair amount of Pyrr chalco
								in section Cherty
			323	328	5.0	5.0		local streaks of Pyrr minor chalco.
331	367	Massive speckled Andesite fine gr'd contact at 70° to CA	464	465	1.0	1.0		Mass. Pyrr + Chalco
367	404.5	Dk. fragmental Andesite non magnetic no min.						
404	442	Mass. dk. gr. Andesite speckled app. to core non magnetic.						

THUNDER BAY
 MINING DIVISION
RECEIVED
 SEP 10 1970
 AM _____ PM _____
 7 8 9 10 11 12 1 2 3 4 5 6

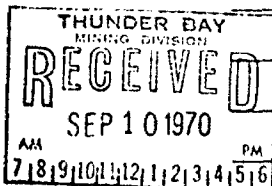
NORTH _____
 EAST _____
 ELEV. _____
 AZIM. _____
 DIP _____

DIAMOND DRILL REPORT

PROPERTY WILSON OPTION - Ashmore Twp.

HOLE NO. _____
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
442	448.5	6.5' Cherty Tuff	497	502	5	5		V.L. Min.
			502	507	5	5		Highly Alt. diss Pyrr.
448.5	487.5	Dk. sp. Andesite						
			517	522	5	5.0		Diss. Pyrr. Alt. Section
487.5	501.5	Fine gr'd Meta-Tuff-Sed						
		banding @ 60° to C.A.	522	527	5.0	5.0		2 sm qtz. str. Pyrr in section
501.5	607	Mass highly Alt. Andesite	527	532	5.0	5.0		3 sm qtz. str. m.n sections
		Min with pyrr minor chalco	532	537	5.0	5.0		Min. sect. cherty V.L. min
			537	542	5.0	5.0		fair amount of Pyrr. in Alt. Section minor chalco
		572' cherty bands @ 50° to C.A.	572	575	3.0	3.0		2' chert bands
			575	577	2.0	2.0		Diss. Pyrr. sm. chert bands
607	620.5	Bluish chert: fractured and brecciated minor min.	577	579	2.0	2.0		Min. with Pyrr + chalco
			579	582	3.0	3.0		Diss. Pyrr minor chalco
		619.5 - 619.9 Breccia	587	592	5.0	5.0		Pyrr. min. with chalco
		Gradation to amygdaloidal	592	597	5.0	5.0		Diss. Pyrr. minor chalco
		Bl. Andesite well min	597	602	5.0	5.0		" qtz. str. min sect.
		highly magnetic pyrr.	602	607	5.0	5.0		Diss. Pyrr in sect.
		and chalco from	607	612	5.0	5.0		Cherty bands V.L. min.
			612	617	5.0	5.0		" " " "
			617	619	2.0	2.0		Very little min.
			619	622	3.0	3.0		Well min Section Pyrr +chalco
			622	624	2.0	2.0		Min. diss Pyrr some chalco



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

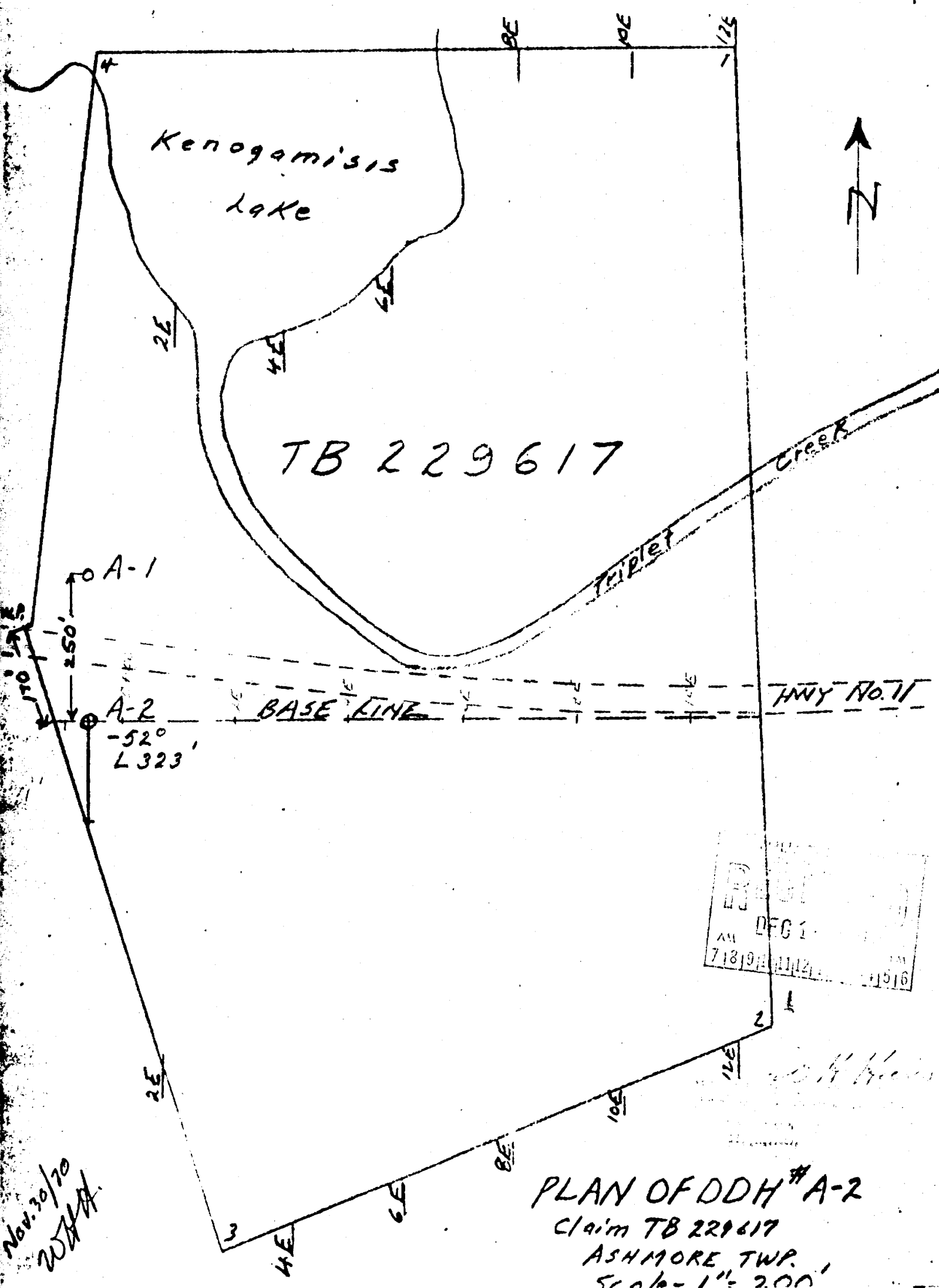
DIAMOND DRILL REPORT

PROPERTY WILSON OPTIC - ASHLEY TWP.

HOLE NO. _____
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
620.5	642	Dk green silicified amygdaloidal andesite well min with pyrr. and chalco pyrite	624	627	1.0	3.0		all min. bast section spots pyrr + chalco very magnetic
		634-642 micaceous section non magnetic	627	629	2.0	2.0		all min not so much chalco
			629	632	3.0	3.0		Min. with pyrr + chalco
			632	632	2.0	2.0		Very little min.
			634					
		642 END OF HOLE						
		<i>ED MacKenzie</i> HOLLINGER MINES LIMITED TIMMINS, ONTARIO						

THUNDER BAY
 RECEIVED
 SEP 10 1970
 AM
 7 8 9 10 11 12 1 2 3 4 5



Kenogamisis
Lake

TB 229617

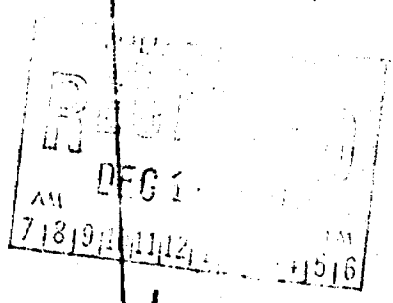


A-1
250'
A-2
-52°
L 323'

BASE LINE

HWY No. 11

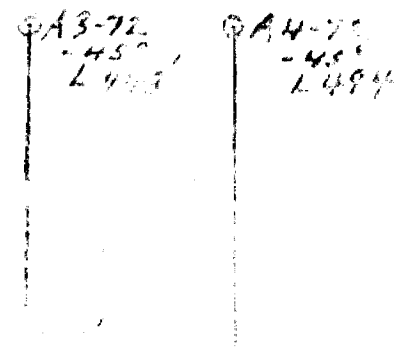
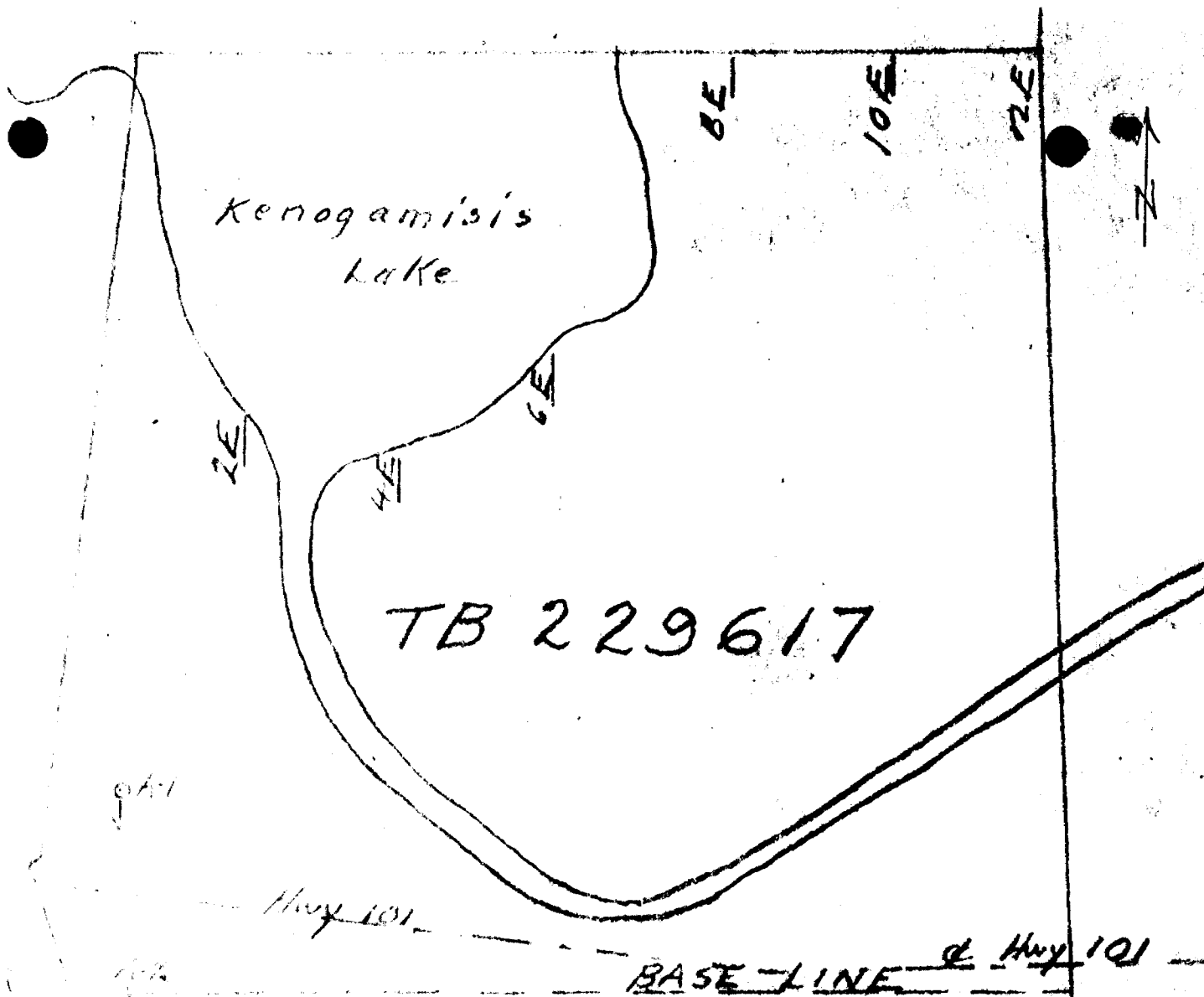
Triplet
Creek



PLAN OF DDH #A-2
Claim TB 229617
ASHMORE TWP.
Scale - 1" = 200'

Nov. 30/70
W.H.A.

#228/70 Ashmore Twp
Hollings Mine Rd



W.A. Hansen
 METROPOLITAN LANDS LIMITED
 WINNIPEG, MANITOBA

W.A. Hansen
 Claim TB 229617
 100' 00" E TWP.
 Scale - 1" = 200'

Kenogamisis Lake

T.B. 229617

NOTE

DDH # A1, A2, A3 & A4 were previously filed

DDH # A5 commenced Jan. 22/72
Finished " 24/72

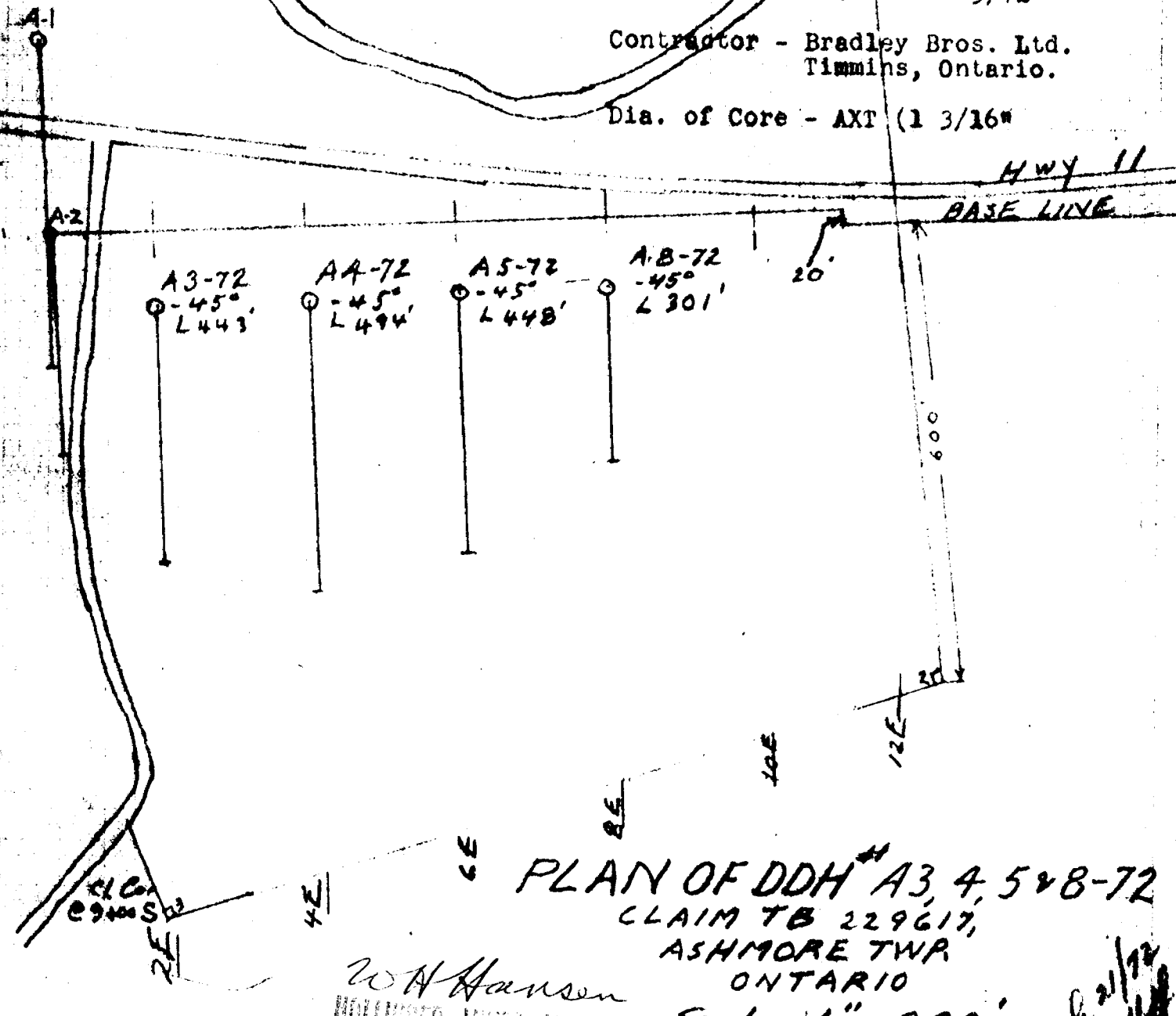
DDH # A6 Commenced Jan. 25/72
Finished " 28/72

DDH # A7 Commenced Jan. 29/72
Finished " 31/72

DDH # A8 Commenced Feb. 2/72
Finished " 3/72

Contractor - Bradley Bros. Ltd.
Timmins, Ontario.

Dia. of Core - AXT (1 3/16")



PLAN OF DDH # A3, 4, 5 & 8-72
CLAIM TB 229617,
ASHMORE TWP
ONTARIO

Scale - 1" = 200'

W. A. Hansen
HOLLANDER ENGINE LIMITED
TIMMINS, ONTARIO

706 21/72
W.A.H.

Location of Collar 250' South of PDH # A-1

FORM 522
 NORTH 00 + 00N
 EAST 00 + 60'W
 ELEV. 180'
 AZIM. Collar 52° 100' - 53°
 DIP 300' - 52°

(See Sketch)

DIAMOND DRILL REPORT

PROPERTY ASHMORE TOWNSHIP

Claim TB-229617

HOLE NO. A-2-70
 COMMENCED November 16/70
 FINISHED NOVEMBER 20/70
 PURPOSE OF
 HOLE Test Mag.

Drilled by Bradley Bros.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
0	20	Casing						
20	30.5	Silicified andesite fragmental. The fragments are very small-less than 1/2" and generally obscure the fragments are siliceous. The andesite is dark green to grey, siliceous, chloritic cut by quartz carbonate stringers. No mineralization.						
30.5	49.7	Amygdaloidal andesite - amygdalos are locally well defined - rounded to elliptical in shape and either siliceous or filled with chalcopyrite and pyrrhotite. There are also stringers of pyrrhotite and chalcopyrite in this section. The andesite is greenish to grey with chlorite and silica and cut by quartz-CO ₂ stringers.	45	50		5		Amygdaloidal andesite Cp, Po for Cu, Ni, Au, Ag
49.7	71.6	Andesite fragmental-probably a tuff since the fragments are very small 1/2" in size. It is separated from the amygdaloidal andesite mainly on the basis that the fragments are very angular and siliceous in nature. Also there does not appear to be any replacement or filling of the fragment structure by pyrrhotite and chalcopyrite. Instead the mineral						
			70	72		2		Lower part of fragmental W. Po-Cp section

THURSDAY
RECEIVED
 DEC 14 1970
 AM 718192313211213141516

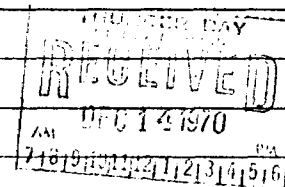
NORTH _____
 EAST _____
 ELEV. _____
 AZIM. _____
 DIP _____

DIAMOND DRILL REPORT

PROPERTY ASHMORE TOWNSHIP

HOLE NO. 1-2-70 2
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		is simply disseminated and localized to stringers. From 49.7 to 55 gradational contact with the fragmental.						
		71-71.5 near massive section of pyrrhotite and chalcopyrite-mostly pyrrhotite.						
71.6	79.4	Zone of mixed chert and amygdaloidal material. The amygdaloidal sections show abundant po and some cp completely filling the amygdales. Such are: 75-76.3 77.3-79.2 The chert is very dark and hard it is brownish in colour, no mineral or very minor py along shears. Often fractured and filled with chlorite.	75	77		2		Some chert and amygdaloidal material Cp po in amygdaloidal
79.4	90.7	Andesite fragmental - the fragments are larger here $\frac{1}{2}$ " size and only locally were defined. They may be either cherty or chloritic. The andesite is green in colour, fine grained with abundant chlorite - cut by small quartz carbonate stringers.						
90.7	105.4	Another zone of brownish chert-fractured with chlorite, epidote and quartz-carbonate.						



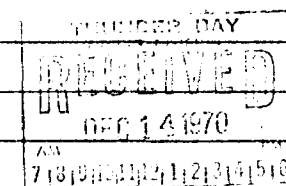
NORTH _____
 EAST _____
 ELEV. _____
 AZIM. _____
 DIP _____

DIAMOND DRILL REPORT

PROPERTY ASHMORE TOWNSHIP

HOLE NO. A-2-70 3.
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
105.4	149.4	Andesite fragmental - fragments are around $\frac{1}{2}$ " size and very numerous. There are cherty, chloritic, epidote and siliceous types. The cherty and siliceous types of fragments may be separated since the cherty types are grayish to brown and nearly clear while the siliceous fragments are a bleached white colour and noticeably different. There are numerous small chert bands cutting the core as well ($\frac{1}{2}$ " across) 113-125 a silicified zone where there are not as many fragments as surrounding. The andesite is greenish (dark) in colour. No min.						
149.4	238.4	Zone of weakly amygdaloidal andesite 149.4 152.3 gradational contact with above. Generally the andesite looks massive to a medium grained variety with occasional amygdales filled with po and py. The andesite is green, contains chlorite, cut by quartz-CO ₂ stringers. 197.6 - 200 - small chert breccia						
238.4	248.7	Zone of chert as before - brownish in colour.						



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

DIAMOND DRILL REPORT

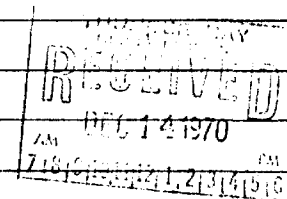
PROPERTY _____ ASHMORE TOWNSHIP _____

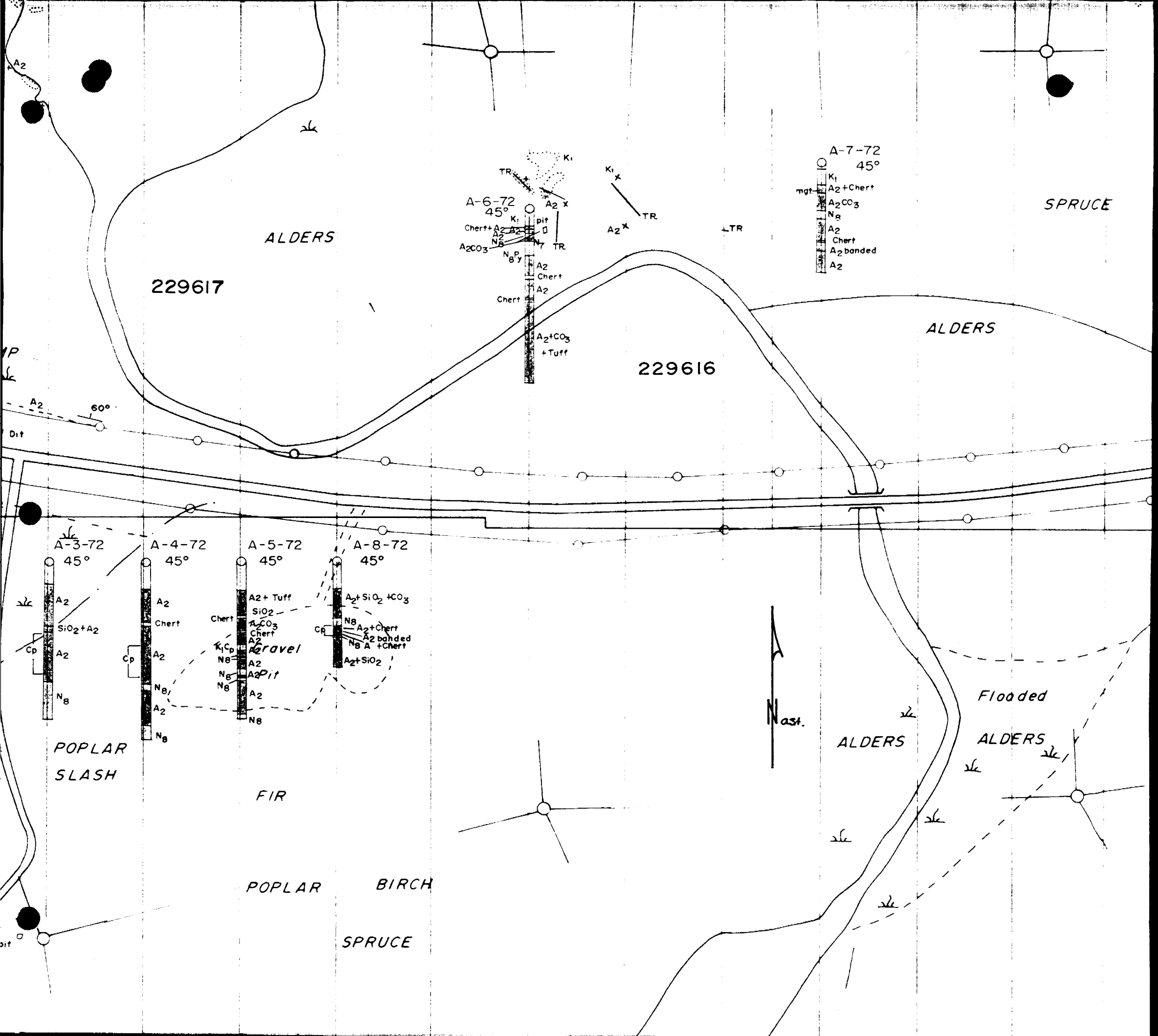
HOLE NO. _____
 COMMENCED _____ A-2-70
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
248.7	280	Zone of coarse grained andesite hornblende -carbonate-chlorite Schist. Schistosity at 55° to Core Axis green in colour, cut by quartz carbonate chlorite stringers.						
280	282.9	Zone of brownish chert again.						
282.9	300.4	Andesite fragmental-fragments are 1" in size and often obscure, occurring as siliceous or chloritic patches rimmed by chalcopyrite and pyrrhotite. There is some Cp and Po disseminated throughout and some mineralization in the quartz-carbonate stringers. There is abundant chlorite and some epidote.	285	290		5		Andesite fragmental Cp, Po
300.4	304.1	Zone of chert - cream coloured and locally brecciated-grades into lower zone- no mineralization.						
304.1	323.3	Amygdaloidal andesite-very similar to the previous horizon with Cp and Po in the amygdales and also in lenses and disseminated throughout. Amygdales locally well defined-small 1/8" size some pyrite may be found in stringers as well.	315	320		5		Amygdaloidal andes. Cp, Po

Don R. Alexander
 HOLLINGER MINES LIMITED

TIMMINS, ONTARIO






LEGEND

ALGOMAN


N_g — Feldspar (Albite) Porphyry


K₁ — Gabbro (Hornblende)

KEEWATIN

A₂  Andesite

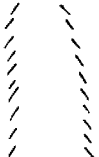
bx - breccia

 Shearing

 Topographic Feature

TR. — Trench

JTS. — Joints

 Esker

A₂

A₂

K₁

EA
ED OUTCROPS

FORM 922

NORTH 1 S
 EAST. x1 2E
 ELEV. Surface
 AZIM. 180°
 DIP Collar @ 45°
@300 - 41°

DIAMOND DRILL REPORT

HOLE NO. A-3-72
 COMMENCED January 17/72
 FINISHED January 20/72
 PURPOSE OF Test extension of
 HOLE copper zone and tag.

PROPERTY WILSON OPTION #1
Ashmore Twp.

Drilled by: Bradley Brothers

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
0	60	Casing						
60	342.2	Andesite - dark green - fairly hard chloritic and siliceous - locally carbonatized sections which are slightly more brownish in colour. Locally there are small quartz-carbonate stringers. @ 62 and @ 67.5 there are a few chlorite blebs in the core, which is somewhat leached in these two sections. Mineralization at the first is practically negligible - only rare splashes of py.						
	186.1-204	Much more siliceous band It is not a chert band though - fairly hard, black. Sulphides are very minor but there is some cp.						
	190-200	apparently there is some lost core - it is broken up here but no evidence of a fault is indicated.						
	204	the rock is less siliceous and more andesitic in appearance. After a short zone of carbonatization, the mineral content increases, around 208.2. The rock here is identical to the rock @ 250 in DDH A-4-72, except that the mineralization here is mainly disseminated. Chalcopyrite content is	208	210		2		A2C03 - 10% sulph. Tr.cp
			210	213		3		" - 7% sulph. Tr.cp

FORM 822
 NORTH _____
 EAST _____
 ELEV. _____
 AZIM. _____
 DIP _____

DIAMOND DRILL REPORT

HOLE NO. A-3-72 ...2
 COMMENCED _____
 FINISHED _____
 PURPOSE OF HOLE _____

PROPERTY WILSON OPTION #1

Ashmore Twp.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		very minor - The main mineral is						Cu, Zn, Ag
		pyrrohotite and some pyrite. Total	215	220		5		A2CO3 - 7% Sulph. minor cp
		mineral - 7-10% Even with 5-7% po	220	225		5		" - 5% " " cp
		the rock is only slightly magnetic.	225	230		5		" - 5% " " cp
		This above rock gradually grades	234	235		.1		" - 7% " " cp
		back to a carbonatized andesite. The	240	245		5		" - 5% " " cp
		pyrrohotite also becomes more magnetic	249	250		1		" - 5% " some cp
		around 230. The mineralization gradually						
		tends to change to a more throughgoing	255	260		5		" - minor Sulph. vis cp
		stringer type of mineralization, There						
		is also a gradual increase in copper						
		content, although pyrrohotite and						
		pyrite are the major minerals present.						
		Where there is a larger amount of						
		sulphides, the pyrrohotite is generally						
		much more strongly magnetic.	285	290		5		" - 10% Sulph 1% cp
		The rock changes gradually from	290	295		5		" - 3% Sulph. smell cp
		silicified to carbonatized zones	295	300		5		" - 5% " minor cp
		throughout this entire section.	300	305		5		" - 5% " " cp
		Around 283 the mineralization	305	310		5		" - minor Sulph. no
		is in the form of both stringers and						visible cp
		disseminations, and increases to	310	315		5		" - 7-10% po py very
		approximately 7% sulphides overall.						minor cp
		The sulphide content remains high	315	320		5		" - 7-10% po py neg. cp
		until around 321, where the mineral						
		content decreases rapidly. As previous,						

FORM B22
 NORTH _____
 EAST _____
 ELEV. _____
 AZIM. _____
 DIP _____

DIAMOND DRILL REPORT

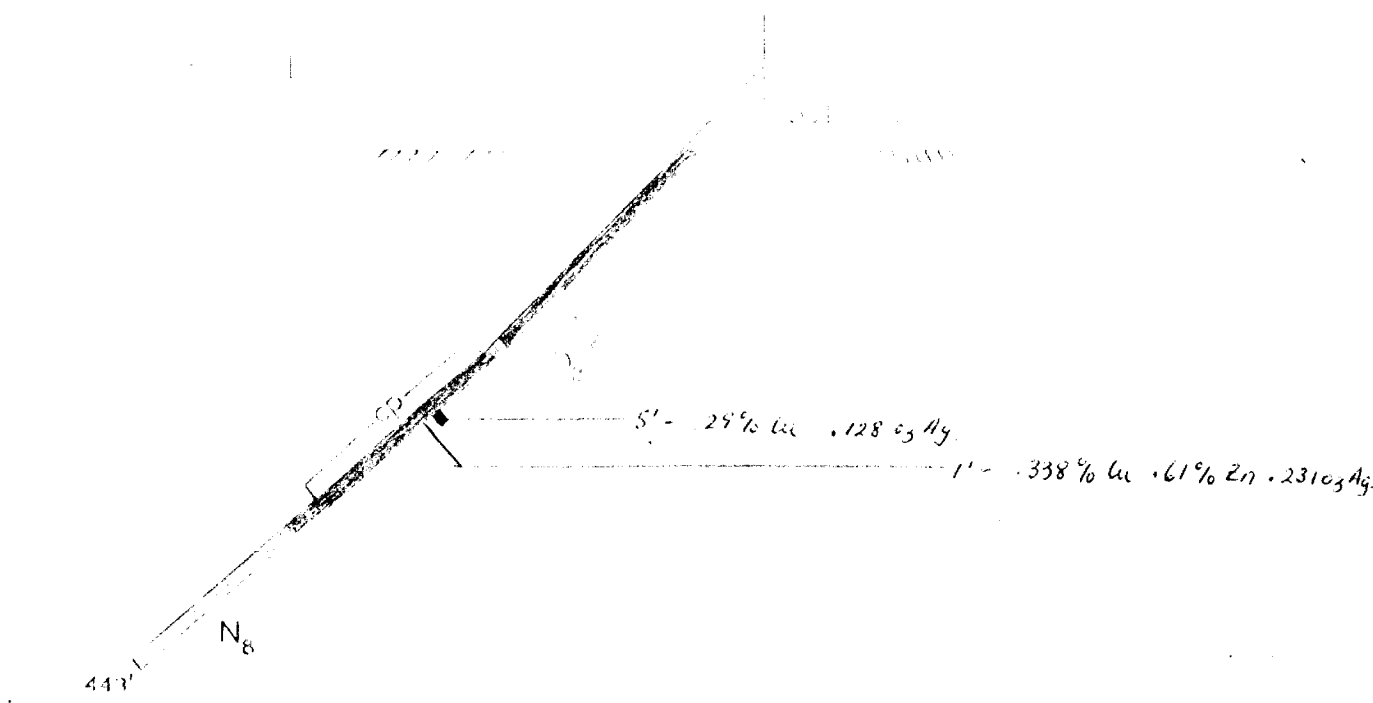
HOLE NO. A-3-72 ...3
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

PROPERTY WIBSON OPTION # 1

Ashmore Twp.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		most of the mineralization is pyrite and pyrrhotite, with only local splashes of chalcopyrite. This zone is the most strongly magnetic. There is also some biotization developed.						
		Around 321, the rock grades to a dark green, unmineralized andesite - it is chloritized and carbonatized.						
342.2	443	Diorite - grey in colour, with numerous feldspar phenocrysts (or metacrysts) developed - often feldspar shows minor epidote alteration. Silicified						
		Weakly magnetic in the presence of sparse sulphides - being po and py After 360, there does not appear to be any pyrrhotite - only very minor pyrite. Here the rock gradually becomes more massive as well.						
		387-394 strongly carbonatized zone - only vestiges of feldspar crystals remain.						
		394-405 massive as 360-387						
		@ 405 the diorite becomes more highly altered with a much higher epidote content. Some of the feldspar crystals are stained reddish by iron, while others are						

1000
ALUMINUM
ANALYSIS



scale 1:1000

*Resident
Geologist
Thunder
Bay (P)
Ontario*

FORM 822
 NORTH 15
 EAST N 15 E
 ELEV. Surface Surface
 AZIM. Surface Surface
 DIP collar 15°
300-41° 494-41°

DIAMOND DRILL REPORT

PROPERTY WILSON OPTION #1
Ashore Township

HOLE NO. 4-1-72
 COMMENCED July 12 1972
 FINISHED July 12 1972
 PURPOSE OF Test extent of
 HOLE collar

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
0	81	Casing						
81	337	The rock is best described as an andesitic flow, although there are a wide variety of changes in the rock itself. For the most part the andesite is dark green and fairley massive. It is chloritic and generally highly carbonatized. There are a few small quartz-carbonate stringers which locally show leaching and silicification into the surrounding rock. Locally the andesite grades into a member which is composed of numerous blebs of chlorite. As these blebs become larger they appear to be altered fragments. There is a small amount of epidote associated with this unit as well. This member is prominent from 100-120. Small clut of pyrite @ 137. A zone of strong carbonitization starts @ 148, rock is dark green in colour and grades to a much lighter green with increased carbonate content. Around 158 start to get a minor amount of disseminated pyrite with about 3% disseminated pyrite @ 164-167. Here						

FORM 922

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

DIAMOND DRILL REPORT

 PROPERTY WILSON OPTION #1
Ashore Twp.

 HOLE NO. A-4-72 ...
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		there are occasional splashes of cp						
		with the py, but only a very minor amount.						
		164-178 Short chert band - contacts						
		are diffuse since the andesite is silicified						
		at the contacts. Minor py in first						
		chert band(or flow top) at the contact,						
		otherwise barren. Colour is dark grey to						
		black.						
		After the chert band the andesite is						
		again highly carbonatized; the first	164	167		3		3% disseminated py, minor
		occurrence of po is noted here - only						cp in carbonatized zone
		weakly magnetic though.						
		Around 200 the alteration is quite						
		strong and later around 225 the rock is						
		crudely banded in layers of alteration						
		at 60° to the core axis.- mainly						
		brownish carbonate and chlorite.						
		After 175 there is generally some						
		sulphide mineralization throughout.						
		overall py-3% - in large clots,						
		in stringer fillings, disseminations,						
		and along shear planes,						
		po - minor - usually associated						
		with small clots or blobs of py.						
		cp-minor may be disseminated in small						
		splashes - rarely alone as a larger						

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

DIAMOND DRILL REPORT

PROPERTY WILSON OPTION # 1

HOLE NO. 1-4-72 ...3
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		bleb, since usually found with py either with or without po.						
		213.5-214.5 - small white chert band	2200					small clot of py in calcite - Geochem. & au
		Around 230 the cp content begins to increase - still in the carbonatized andesite.						
		cp is the main mineral here - up to approximately 254.	230	235		5		Cu, Zn, AS A2-C03 -2% cp
		- 236-234 isolated stringers and blobs of cp. 1-2% overall	250	252		2		" -5% cp 3% po
		- 234-249 very minor cp	252	254		2		" -2-3% cp 2% po
		- 249-250 chert, white	254	258		4		" -minor cp, po, py
		- 249-250 chert, white	258	259		1		" -4% cp, 4% po py
		250-254 numerous small stringers of cp w/out po approximately 5% cp	259	260		1		" -1.5% cp minor po py
		254-265 brownish, carbonatized, andesite - blobs calcite, numerous	260	265		5		" -2-3% cp 4% py po
		254-265 brownish, carbonatized, andesite - blobs calcite, numerous	265	270		5		" -1-2% cp 2% po py
		270-275 brownish, carbonatized, andesite - blobs calcite, numerous	270	275		5		" -minor cp
		275-276 brownish, carbonatized, andesite - blobs calcite, numerous	275	276		1		" -4% cp
		shears especially after 257.5						
		some biotite? small xls. may be Zn.						
		265-271 mainly stringers of cp again, some po - rock grades back to more grey green carbonatized andesite						
		271-274 grey green carbonatized andesite. Only one small stringer of cp.						
		275-276 some brownish carbonate 4% cp						

FORM 522
 NORTH _____
 EAST. _____
 ELEV. _____
 AZIM. _____
 DIP _____

DIAMOND DRILL REPORT

HOLE NO. A-4-72 .../4
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

PROPERTY WILSON OPTION #1

Ashmore Twp.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		276-291 mostly grey green carbonatized						
		andesite. local blotches of cp with py & po						
		some brown carbonate with cp @ 278.5-						
		280 and 290-291.5						
		291-294 3 short bands of chert, brecciated						
		with minor py po						
		294-302 some stringers of py, a few stringers						
		of cp, very minor po	276	280		4		A2-CO3 - 1% cp # 3% py po
		302-303 small chert band	280	285		5		" - 1 small blob cp
		303-314 strongly silicified zone,	285	290		5		" - very minor cp
		brecciated with substantial blobs of cp	290	295		5		" - minor cp
		dark grey - local patches of chlorite	295	300		5		" - minor cp
		very massive	300	303		3		" - minor cp
		314-320.5 more of a transition zone than	303	305		2		" - 4% cp blobs
		an actual change in rock type. Locally	305	307		2		" - minor cp
		silicified and local patches of	307	310		3		" - 1% cp very minor
		carbonate alteration. minor cp locally	316	318		2		" - minor cp po
		320.5-337 a short unit of tuff -						
		would appear to be more of a dacite than an						
		andesite. - paler green - fragments						
		are generally small and leached whitish in colour						
		Mineralization - negligible - only						
		occasional py. Both contacts are						
		gradational into 5 feet of heavily						
		carbonatized rock.						

FORM 822
 NORTH _____
 EAST. _____
 ELEV. _____
 AZIM. _____
 DIP _____

DIAMOND DRILL REPORT

HOLE NO. A-4-72 ...5
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

PROPERTY Wilson Option #1
Ashmore Twp.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
337	357.7	Diorite? - this zone is siliceous, grey in colour, with a general development of feldspar phenocrysts throughout. fairly massive unit, unmineralized - some epidote near contacts. Sugary texture - strongly carbonatized.						
357.7	458	Andesite - darker green and more chloritic at the contacts, while the central portion is lighter in colour and more siliceous. There are a few splashes of cp in the first 20 feet but afterwards the mineralization is negligible. Some small quartz carbonate stringers with local iron stainings. Minor epidote.						
458	494	Diorite - Pale grey to dark grey in colour. Darker than previous intersection. Numerous small blotches of epidote alteration, rock is silicified and carbonatized. Feldspar phenocrysts (or metacrysts), are common as before. No mineralization non-magnetic.						
	494	End of hole. CASING LEFT IN HOLE.						

HOLLINGER MINES LIMITED

JIMMINS, ONTARIO

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

DIAMOND DRILL REPORT

HOLE NO. A-4-72 ...6
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

PROPERTY WILSON OPTION #1

Ashmore Twp.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		SAMPLES FOR THIN SECTION						
	117.5	Andesite (tuff?) with chloritic fragments						
	150	Carbonatized andesite with minor disseminated py						
	200	Carbonatized andesite minor py, cp						
	249.5	Just previous to the copper zone - carbonatized andesite						
	300	Pale grey green carbonatized andesite (dacite?) py & cp						
	350	Carbonatized diorite						
	400	Silicified andesite						
	450	Altered andesite						
	479	Carbonatized diorite with epidote						
		Check collar @ 42° Azimuth @ 180°						

Don R. Alexander

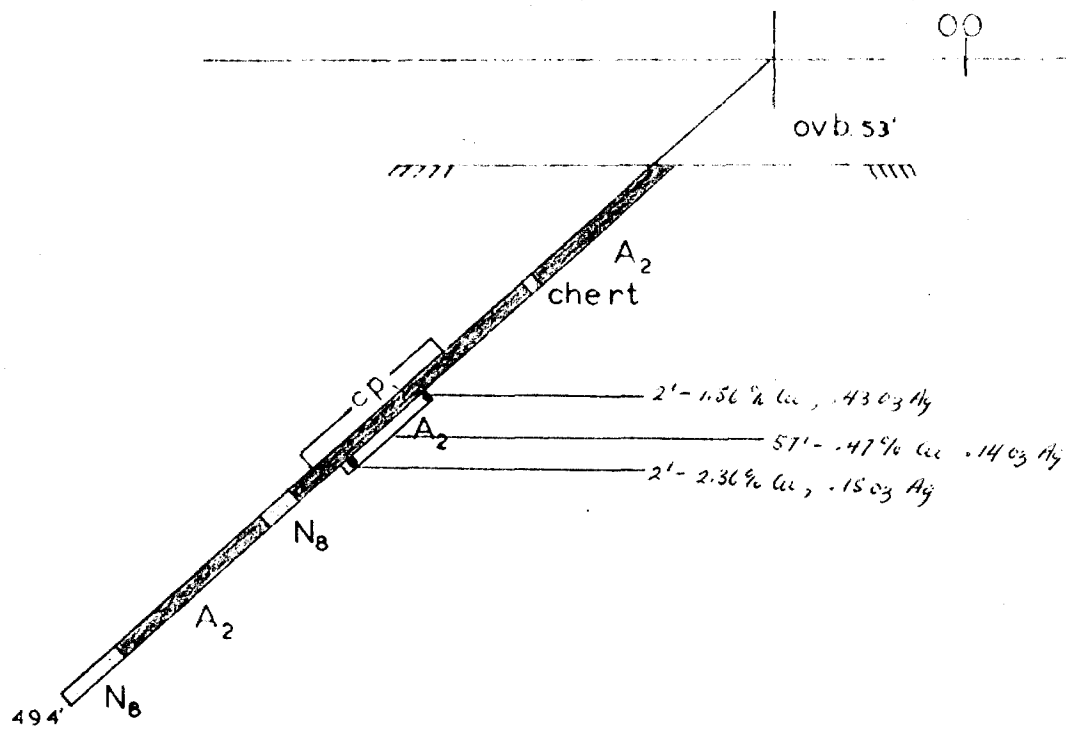
HOLLANDER MINES LIMITED
 TIMMINS, ONTARIO

A-4-72

XI.4E@1-005

AZ 180°

00



scale 1"=100'

NORTH _____ 1S
 EAST. _____ xl 6E
 ELEV. _____ Surface
 AZIM. _____ 180°
 DIP _____ Collar @ 45° @ 300-41°

DIAMOND DRILL REPORT

HOLE NO. A-5-72
 COMMENCED _____ January 20, 1972
 FINISHED _____ January 21, 1972
 PURPOSE OF _____
 HOLE _____ Test extension of
 _____ copper zone

PROPERTY _____ WILSON OPTION #1
 Claim TB 229617, Ashmore Twp. Ont.

Drilled by: Bradley Bros.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
0	76	Casing						
76	235.6	Andesite - massive with tuffaceous sections. The andesite is generally dark green in colour but is often lighter in tuffaceous sections.						
		The first part is unmineralized, non-magnetic, and chloritic						
		The tuffs have a very fine fragment size - usually less than 1/16". In some sections there is a predominance of chlorite blebs throughout the rock :						
		Tuff : 95-97, 103-106, 108-112, @ 117.2 and 122-122.5.						
		@ 112 a crude chicken track structure is developed with numerous blebs of chlorite and some lath-like crystals which appear to be altered to chlorite.						
		There are also some quartz-carbonate stringers with hematite staining in this zone.						
		Some contacts between different units are readily visible and are consistently @ 80° to the core axis.						
		Some other contacts are either irregular or gradational.						
		The first mineralization appears						

FORM 922

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

DIAMOND DRILL REPORT

 HOLE NO. _____
 COMMENCED A-5-72 ...2
 FINISHED _____
 PURPOSE OF _____
 HOLE _____
PROPERTY WILSON OPTION #1Ashmore Twp.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		around 162, as pyrite in a short siliceous band 160.9-162						
		Small amount of tuff ? @ 165 with chlorite blebs.						
		169.8-171.5 , Short zone of chert bands (or flow tops). Same as material in holes A-1 & A-2. A short stringer of pyrite @ 170.9. The rock is grey in colour and leached whitish.						
		171.5-177.4 - Grey green andesite with minor disseminated pyrite.						
		177.4-181 very dark chloritic andesite - tiny white flecks of leucoxene - may be a diorite since there are vestiges of feldspar.						
		The rock now becomes strongly carbonatized - brownish carbonate with some minor pyrite.						
		200.6-205 small chert bands also @ 214.1-215.4, 217-218.8						
		Around these chert bands, the andesite appears to be tuffaceous, only occasional fragments though.						
		@ 221.5 start of a zone of carbonatization - brownish colour. Extends to 233 where it grades into a very siliceous zone,						

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

DIAMOND DRILL REPORT

HOLE NO. A-5-72 ...3
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

PROPERTY WILSON OPTION #1

Ashmore Twp.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		up to 235.6. First minor cp in this zone - 2 small splashes - one @ 221.5 and one @ 230. Minor py						
235.6	254.9	Short dyke of hornblende gabbro - very dark green with numerous small blocky crystals of hornblende 1/16 " size. carbonatized						
		Contacts with the andesite are irregular upper @ 90° to C.A. lower @ 45° to C.A.						
		@ 240.2 a large blob of cp along a quartz-carbonate stringer. No mineral before that but afterwards there some cp and py all through the dyke. It is usually associated with small quartz-carbonate stringers but this is not always the case.	240	241		1		K1 - 2% Cu?
			241	245		4		" - neg. sulphides
			245	250		5		" - 3% sulph. 1.5% cp
			250	255		5		" - minor sulph. vis. cp
254.9	264.2	Silicified and carbonatized andesite - very minor py po	302	303		1		A2 - 5% sulph. 2% cp
264.2	267	Diorite (or albite porphyry) - grey with numerous feldspar phenocrysts (or metacrysts). There is some epidote alteration - contacts irregular. Minor disseminated pyrite throughout.						
267	270.1	Andesite, grey-green, unmineralized.						
270.1	279.5	Diorite (or albite porphyry), as previous section, grey, feldspar, epidote						

FORM 822

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

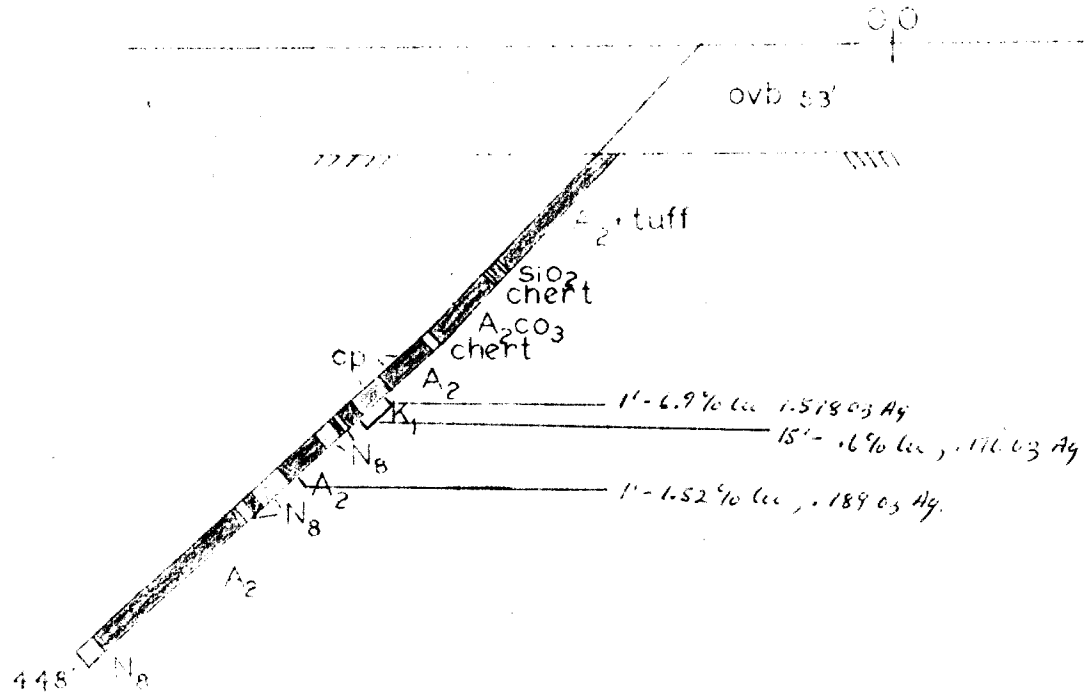
DIAMOND DRILL REPORT

PROPERTY WILSON OPTION #1
 HOLE NO. A-5-72 . . . 4
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

Ashmore Twp.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		and disseminated pyrite.						
279.5	306.5	Andesite - grey-green, locally carbonatized or silicified, minor sericite in streaks. Mineralization is minor, disseminated pyrite, very minor cp. There are two blobs of cp between 302-303 with some po, - just cutting the core.						
306.5	326	Diorite (or albite porphyry), contact @ 80° to the core axis. Sparsely mineralized with py cp - only one tiny splash of cp seen. carbonatized. The rock is similar to before except that from 317-322 it becomes more massive and finer grained.						
326	330.9	Carbonatized andesite - unmineralized						
330.9	336.8	Diorite (or albite porphyry), very dark here, with feldspar as before, there is a lot of epidote alteration in this zone. Only one small splash of cp seen @ 333						
336.8	437	Andesite - grey-green to the variety that is carbonatized and brownish, Very sparsely mineralized - cp is very minor. Mineralization is usually with quartz-carbonate stringers. Around 402 the andesite becomes darker in colour and is weakly amygdaloidal in places. Some						

A-5-72
X1.6E@1005
A₂ 180°



scale 1"=100'

FORM 922
 NORTH 675 N
 EAST. xi 12 E
 ELEV. Surface
 AZIM. 180°
 DIP check collar @ 45°
 @ 300-42°

DIAMOND DRILL REPORT

HOLE NO. A-6-72
 COMMENCED January 25/72
 FINISHED January 28/72
 PURPOSE OF
 HOLE Check EN anomaly

PROPERTY WILSON OPTION #1
 Claim TB 229616 Ashmore Twp. Ont. Drilled by: Bradley Bros.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
0	4	Casing (AX)						
4	37.4	Hornblende Gabbro - medium to dark green in colour with numerous blocky crystals of hornblende. The rock is quite highly altered with carbonate and talc, local specks of leucoxene. Some shearing with talc and chlorite - 13.5 - 14 @ 45° to Core axis and @ 18.5 - 20 also @ 45° to core axis There are some very fine hairline stringers of quartz-carbonate which usually carry a smell of po and cp. 23.5-23.9 blob of chert very irregular in shape The lower contact of the hornblende gabbro is finer grained @ 45° to the Core Axis along a quartz-carbonate stringer with po, cp						
37.4	40.8	Chert - grey to whitish in colour - rather milky. The first inch is filled with numerous laths of amphibole - very black. The remainder of the zone is weakly banded in darker and lighter patches, massive. There are some blobs of po with some cp. The po is quite strongly magnetic. locally, very fine	37	41		4		Chert - 5% po minor cp

FORM 922
 NORTH _____
 EAST _____
 ELEV. _____
 AZIM. _____
 DIP _____

DIAMOND DRILL REPORT

HOLE NO. A-6-72 ...2
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

PROPERTY WILSON OPTION #1
 Ashmore Twp.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		disseminated mineral.						
40.8	46.3	Zone of carbonatized andesite -?- Most of the rock is carbonate and there are local patches of dark grey chert - gradational - and irregular in shape. It is also gradational from the more massive cherty material. There is a lot of blue-grey chert as interstitial with the carbonate. Mineralization is mostly po - very minor cp. (5% po)	41	46		5		A2? - minor po, py, cp
			47	49		2	5'	" - 5% po cp
46.3	47.9	Short zone of cherty material, banded blue-grey and darker grey @ 45° to the Core Axis. Numerous quartz-carbonate stringers. The upper contact is more or less gradational - lower @ 45° to the Core Axis Some shearing and some biotite along single planes of shearing @ 45° There are some small stringers of po usually with quartz-carbonate often minor cp. @ 47.8 small bit od cp with a po bearing stringer.						
47.9	63.2	Andesite - and carbonatized andesite The first 2 feet is massive andesite with numerous quartz-carbonate stringers @ 45° to the Core Axis, bearing some po and py. Mineralization is erratic though.						

FORM 522
 NORTH _____
 EAST _____
 ELEV. _____
 AZIM. _____
 DIP _____

DIAMOND DRILL REPORT

HOLE NO. A-6-72 ...3
 COMMENCED _____
 FINISHED _____
 PURPOSE OF HOLE _____

PROPERTY WILSON OPTION #1
 Ashmore Twp.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		After that the andesite is generally massive with carbonatized sections. Very minor disseminated py, cp only locally. Lower contact slightly irregular @ 60° to the Core Axis.						
63.2	76.4	Albite porphyry (logged in previous holes as diorite), There are numerous feldspar phenocrysts or metacrysts, some epidote alteration, and some biotite. Mineralization is minor with some very finely disseminated po, py. The lower contact of the dyke is nearly normal to the Core Axis.						
76.4	84.8	Andesite - brownish, carbonatized, with very minor mineral (some py visible) Contact with dyke @ 84.8 is at 45°						
84.8	128.4	Albite porphyry with numerous feldspars as before, locally finer grained. There is some biotite developed throughout. Epidote alteration is common. There is approximately 3% pyrite disseminated throughout. A quartz-carbonate stringer @ 108.5 has the only po cp seen in this zone - only a minor amount - The pyrite commonly shows a cubic habit. Lower contact @ 45°.						

FORM 622
 NORTH _____
 EAST. _____
 ELEV. _____
 AZIM. _____
 DIP _____

DIAMOND DRILL REPORT

HOLE NO. _____
 COMMENCED A-6-72 ...4
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

PROPERTY WILSON OPTION #1
Ashmore Twp.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
128.4	187.2	Andesite - the first few feet are massive and chloritic but it grades into a darker carbonatized lava. Mineralization is very minor - usually pyrite but a few specks of cp are seen (rare). Around 160 you start to get some epidote alteration in the andesite. some talc ? in the sections that are strongly chloritic. Around 183 the andesite becomes brecciated with infillings of calcite and numerous bands of alteration. These bands show no consistent strike. @ 185 the andesite becomes quite siliceous and hard with a few of the breccia fractures filled with py, po, and cp. It appears to grade into a chert horizon around 187.2						
187.2	195.6	A short blue-grey chert band, locally layering @ 80 to 85° to the Core Axis. The chert is brecciated as the surrounding andesite with mainly po filling stringers - very minor cp. The EM-17 conductor plots here. The po is magnetic but not strongly so.	185	190		5		5% po minor cp
			190	195		5		5% po minor cp
195.6	492	Andesite - banded @ 90° to the Core Axis in alteration layers of chloritic and carbonatized andesite.						

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

DIAMOND DRILL REPORT

PROPERTY WILSON OPTION #1
Ashmore Twp.

HOLE NO. A-6-72 ...5
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		There is some biotite developed. The rock grades to a more uniform carbonatized andesite around 202.- it is more greenish than the ordinary brownish carbonatized andesite. Generally unmineralized but there is a small stringer @ 212.7 with some po,cp and py.						
		- 253-255 blue-grey chert band with some py and minor cp in stringers.	254	255		1		Chert - minor py cp
		Contacts normal to the Core Axis.						
		After 255 we return to a carbonatized andesite with a speckled type of carbonate alteration.						
		@ 286 and @ 299.8 quartz stringer with some tourmaline.						
		328-329 short black siliceous band with strong alteration at both contacts, Contacts are gradational - 7% disseminated py	328	329		1		10% diss. py
		After that there is minor disseminated po,py and cp in a zone that has patchy alteration - mainly local zones of silicification and carbonatization.	335	340		5		minor diss. sulph. py po c p
		@ 346.5-348.5 gradational contacts on a paler green tuff unit. The fragments are small - leached white - locally feldspar metacrysts. After the tuff	340	345		5		" " " py po cp

FORM 522
 NORTH _____
 EAST. _____
 ELEV. _____
 AZIM. _____
 DIP _____

DIAMOND DRILL REPORT

HOLE NO. _____
 COMMENCED A-6-72 ...6
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

PROPERTY WILSON OPTION #1
Ashmore Twp.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		there are a few bands of the brownish carbonatized andesite.						
		Around 350 there is some silicification and another tuff unit.-(352.3-353)						
		353-360 zone of strong leaching, chloritization and carbonatization no mineral.						
		After 360 a return to the dark green carbonatized andesite - only rare specks of mineralization - some biotite devel.						
		389.2-389.8 Short altered band containing 15% po 3% cp (EM-16 ?)	389	390		1		A2 alt. - 10% po 2% cp
		Around 415, the rock starts to become strongly silicified and greyer in colour.						
		It is not a chert unit.. unmineralized around 424 this zone ends in a short altered, breccia zone.						
		After 424 - brownish carbonatized andesite. leaching around quartz-carbonate stringers. @435 and @438 chert.						
		440.8-444 short tuff band as before						
		444-463.8 andesite carbonatized						
		463.8-465 a highly contorted zone of mixed andesite and blue-grey chert.						
		465-467 silicified andesite						
		The remainder of the hole is						

FORM 922
 NORTH _____
 EAST _____
 ELEV. _____
 AZIM. _____
 DIP _____

DIAMOND DRILL REPORT

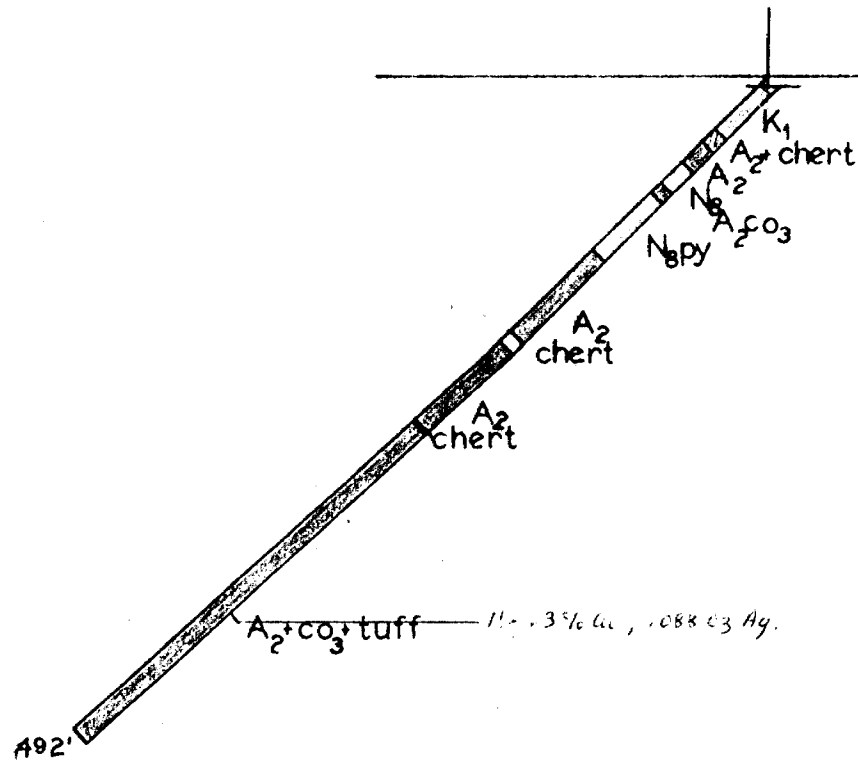
HOLE NO. A-6-72 ...7
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

PROPERTY WILSON OPTION #1
Ashmore Twp.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		andesite with short zones of carbonatization.						
	492	END OF HOLE						
		SAMPLES FOR THIN SECTION						
	5	Hornblende Gabbro						
	51	Massive andesite						
	100	Albite porphyry - with epidote						
	150	Chloritic and carbonatized andesite minor py						
	200	Dark green strongly chloritized andesite						
	250	Very dark silicified andesite						
	254	Chert band						
	300	Carbonatized andesite - unmineralized						
	350	Carbonatized band in the andesite						
	356	Strongly altered zone - chlorite carbonate						
	399	Dark green andesite with biotite						
	450	Altered andesite with carbonate chlorite						
	492	massive andesite.						

HOLLINGER MINES LIMITED
 TIMMINS, ONTARIO
Don R. Alexander

A-6-72
xl. 12E 06.75N
Az 180°



scale 1"=100'

FORM 522

NORTH 775N
 EAST x1 18E
 ELEV. Surface
 AZIM. 180°
 DIP check collar @ 41°
@ 300 - 41°

DIAMOND DRILL REPORT

PROPERTY WILSON OPTION #1
Ashmore Twp.

HOLE NO. A-7-72
 COMMENCED January 29/72
 FINISHED January 31/72
 PURPOSE OF Test EM & Mag.
 HOLE Test EM & Mag.

Drilled by: Bradley Bros.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
0	10	Casing						
10	53	Hornblende Gabbro - after 39 the gabbro is similar to the previous hole. - numerous blocky crystals of hornblende - some altered to chlorite, occasional hairline stringers of quartz-carbonate. nonmagnetic, unmineralized, carbonatized. Previous to 39, the gabbro is much more highly altered - almost all of the hornblende crystals are altered to chlorite, with the pseudomorphic shapes best seen on the fresh surface. There are some large greenish feldspars developed and occasionally you can see some amphibole and biotite. Much more carbonate in this zone - unmineralized. The gabbro becomes finer grained near the contact. Contact broken.						
53	76.3	The first 2 feet here is massive andesite, while after that there is a whole zone of interbedded chert and andesite. Units are too small to be logged individually. 3 main types - grey-green carbonatized andesite, blue-grey chert, and a dark grey to black siliceous member. the latter						

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

DIAMOND DRILL REPORT

PROPERTY WILSON OPTION #1
 Ashmore Twp.

HOLE NO. A-7-72 ...2
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		is very massive. Banding is generally normal to the Core Axis. There is some finely disseminated py po locally, while most of the mineralization is in larger blobs and stringers as po & cp.						
		69.5-69.9 iron? very fine grained, black, strongly magnetic, with cp po.	68	70		2		minor cp po
			70	73		3		negligible sulphides
			73	75		2		minor sulphides
76.3	131.1	Andesite - the first foot is the brownish carbonatized variety, while after that there is approximately 10' of massive andesite. The rest of the zone is carbonatized andesite but it is dark green in colour. Strong alteration @ 99 with some epidote. There is usually some very fine specks of cp throughout the the zone although there is not much cp overall. Some tremolite ? locally.						
		Around 121 some silicification - core changes to a dark grey to black @ 123 After 128, brownish carbonatization.						
131.1	150.6	Albite porphyry - as in previous holes with feldspar, minor epidote, some biotite, and unmineralized. Upper contact @ 90° lower @ 45°.						
150.6	302	Massive grey-green andesite, 2 small pyritic bands @ 187.5. The rock						

FORM 922

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

DIAMOND DRILL REPORT

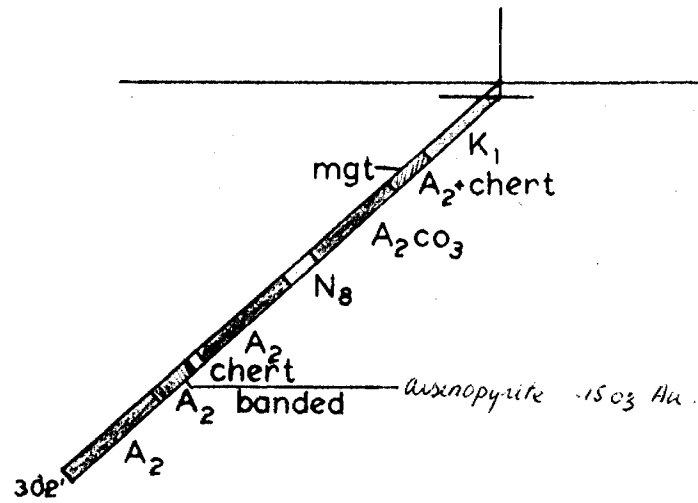
 HOLE NO. A-7-72 ...3
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

 PROPERTY WILSON OPTION #1
 Ashmore Twp.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		becomes highly carbonatized and brownish						
		around 194, then the rock grades into						
		one of the dark silicified zones around 203.						
		208-210.2 - Silicified but pale green						
		andesite.	210	212		2		A2 silic - minor po py cp
		210.2-216.5 - Darker andesite grades	212	215		3		" - 5-7% po py cp
		darker grey with cherty and carbonatized	215	217		2		" - 5-7% po py cp
		sections. 5% py po cp	217	220		3		A2 alt. - neg. sulph.
		216.5-218 - banded altered andesite						
		218-219.8 - silicified band - grey						
		219.8-240.2 - banded altered andesite						
		- banding @ 90°, numerous stringers of						
		quartz-carbonate; Some bands are chloritized,						
		some carbonatized andesite with talc?						
		& biotite. @ 225.5 3 tiny bands carrying						
		arsenopyrite ½" of core along quartz-	225.5					grab sample - Aspy for
		carbonate stringers. Very minor mineralization						Geochemistry & Au
		some core broken @ 230.						
		240.2-250 - grey silicified andesite -						
		very minor mineralization - isolated blebs						
		of po cp. 250-302 - Massive andesite only						
		local splashes of mineralization.						
		264-265 Quartz-carbonate stringer	264	265		1		mass. andes. - minor po py cp
		along the core axis with minor po py cp.						
	302	END OF HOLE						

Casing left in hole.

A-7-72
xl. 18E @ 7.75N
Az 180°



scale 1"=100'

FORM 522
 NORTH 1 + 25 S
 EAST. XL 8 E
 ELEV. surface
 AZIM. 180°
 DIP Check collar @ 45°

DIAMOND DRILL REPORT

HOLE NO. A-8-72
 COMMENCED Feb. 2, 1972
 FINISHED Feb. 3, 1972
 PURPOSE OF HOLE Test copper zone

PROPERTY WILSON OPTION #1
 Claim TB 229617, Ashmore Township, Ont.

Drilled by: Bradley Bros.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
0	69	Casing.						
69	160.4	The first 10 feet is carbonatized andesite - brownish - minor biotite. Then the andesite becomes more massive and grey green in colour. First bit of mineralization seen around 82 - minor pyrite. Around 100 there are a couple of elliptical lenses of po py - magnetic. After that the andesite becomes weakly brecciated with chlorite and minor pyrite along these fractures. Locally the rock is carbonatized brownish. There are a few qtz-CO ₂ stringers cutting the core - some are stained brownish. Around 119 there is some dark green silicified andesite which grades to the brownish carbonatized andesite around 124. The intermediary (121-124) is a putty colour. Only minor mineralization - a few specks cp seen. 129-133 grey green silicified andesite. 133-143 brownish carbonatized andesite. 143-144.2 intermediary. 144.2-145.3 dark green silicified andesite. Short band of py @ 145.1						

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

DIAMOND DRILL REPORT

PROPERTY WILSON OPTION #1
 Ashmore Township

HOLE NO. A-8-72
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		145.3-148 grey green silicified andesite grades to a more cherty member @ 147 with 15% py.						
		148 dark green carbonatized andesite grades to a grey green massive andesite around 150.						
		153.2 dark green and carbonatized andesite again with minor pyrite, grades to a brownish carbonatized rock around 154.5 and then to a massive grey green andesite with local carbonatized patches around 157.5.						
160.4	183.8	Albite porphyry - light grey to dark grey with numerous feldspar phenocrysts (or metacrysts). This dyke is a bit finer grained than that usually encountered. Minor biotite developed, epidote alteration common. Upper contact broken. Lower @ 60° to the Core Axis.						
			184	186		2		A ₂ + chert minor sulph.
			186	188		2		Cherty .6Cu.
183.8	212	Up to 185 - short zone of highly carbonatized andesite, some very fine disseminated mineralization @ 184.7 some py cp.						
		185-193 a whole zone of mixed blue-grey chert and andesite. A few quartz stringers and some cp, po, py throughout.						
			188	193		5		Cherty neg. sulph.
			193	196		3		Neg. sulph.
		193-200.9 weakly banded carbonatized	196	201		5		A ₂ - minor py, po, cp.

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

DIAMOND DRILL REPORT

PROPERTY WILSON OPTION #1Asmore TownshipHOLE NO. A-3-72

COMMENCED _____

FINISHED _____

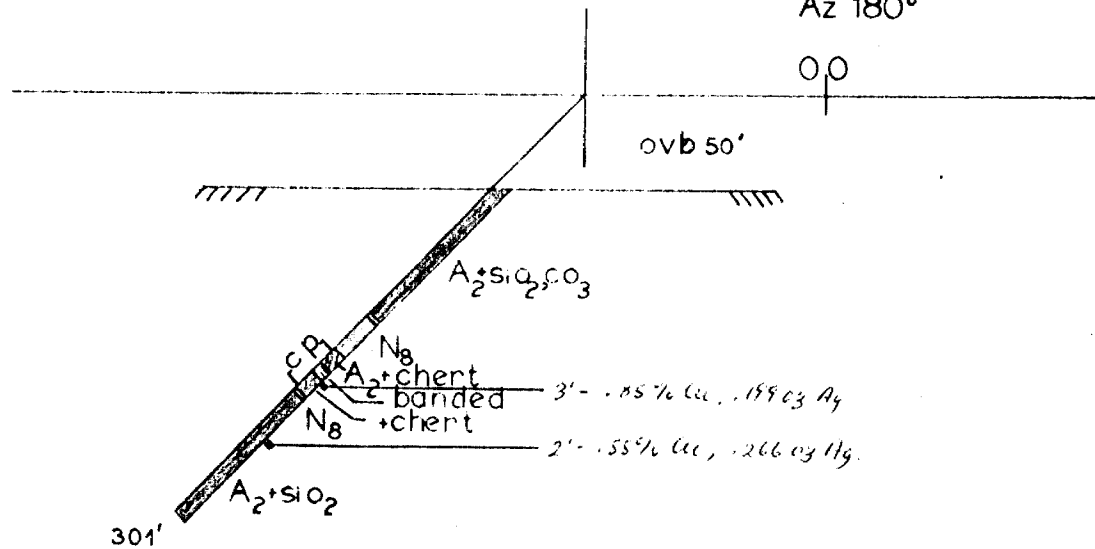
PURPOSE OF _____

HOLE _____

3.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		andesite, some biotite - siliceous zone	201	202		1		Cherty - minor sulph.
		(dark) 194.5-195 some disseminated py po	202	204		2		Cherty - 1% Cu.
		cp. 200.9-212 zone of mostly blue-grey	204	210		6		" - minor sulph.
		chert fractured with cp and po. Minor py	210	212		.2		A ₂ + chert - .5 Cu.
		Some andesite?						
212	213.6	Albite porphyry - as previous with						
		feldspar, minor epidote, some biotite.						
213.6	301	Andesite - mixed greyish siliceous zones						
		and grey green massive andesite zones in	242	244		2		A ₂ - with qtz-CO ₂ str.
		general crude contacts at 45° to the						Minor cp, py, po.
		Core Axis. Only minor cp seen in qtz-CO ₂						
		stringers. @ 243, 276, 290 the rock						
		itself is generally unmineralized. Some						
		biotite.						
	301	END OF HOLE.						

A-8-72
xl. 8E01-25S
Az 180°



scale 1"=100'

SUMMARY OF ASSAY RESULTS

Average Values

	<u>Cu(ppm)</u>	<u>Zn(ppm)</u>	<u>Ni(ppm)</u>	<u>Ag(oz)</u>	<u>Pb(ppm)</u>	<u>Au(oz)</u>
<u>DDH A-3-72</u>						
208-213	1174	64		.070		Nil
215-230	779	75		.059		Nil
234-235	1830	67	165	.093	18	Nil
240-245	2940	261	254	.128	209	Nil
249-250	3380	6100	326	.231	2060	Nil
255-260	700	126	183	.073	43	.02
285-320	1026	67	222	.072	21	Nil

Best intersections: 240-245 .294% Cu, .128 oz Ag.

249-250 .338% Cu, .61% Zn, .231 oz Ag.

DDH A-4-72

164-167	84	60	121	.029	12	Nil
@ 200 - py	173	1050	1410	.082	85	Nil
230-235	4990	132	119	.181	10	.02
250-307	4700	182	139	.14	13	.006
307-310	1630	199	51	.070	10	Nil
316-318	1370	92	171	.073	13	Nil

Best intersections: 250-252 1.56% Cu, .43 oz Ag.

275-276 .69% Cu, .23 oz Ag.

303-305 2.36% Cu, .15 oz Ag.

	<u>Cu(ppm)</u>	<u>Zn(ppm)</u>	<u>Ni(ppm)</u>	<u>Ag(oz)</u>	<u>Pb(ppm)</u>	<u>Au(oz)</u>
<u>DDH A-5-72</u>						
240-255	5987	80	90	.176	18	
302-303	15200	134	299	.789	34	

Best intersections: 240-241 6.9% Cu, 1.578 oz Ag.
 302-303 1.52% Cu, .789 oz Ag.

DDH A-6-72

37-46	176	56	106	.035	27	Nil
47-49	720	38	78	.038	10	.01
185-195	398	33	97	.028	8.5	.005
254-255	1550	108	56	.064	17	.005
328-329	282	137	105	.053	39	Nil
335-345	145	56	139	.034	9	Nil
389-390	3010	71	156	.088	13	.005

Best intersection: 389-390 .3% Cu, .088 oz Ag.

DDH A-7-72

58-83	151	55	82	.024	12	.017
207-232	95	75	193	.046	14	Nil
@ 225.5 Aspy	8	37	264	.096	27	.15
264-265	454	90	93	.094	10	.05

- 58-75 .025 oz Au.

	<u>Cu(ppm)</u>	<u>Zn(ppm)</u>	<u>Ni(ppm)</u>	<u>Ag(oz)</u>	<u>Pb(ppm)</u>	<u>Au(oz)</u>
<u>DDH A-8-72</u>						
184-212	1540	74	88	.086	14	Nil
242-244	5490	60	110	.266	15	.005

Best intersections: 201-204 .85% Cu, .199 oz Ag.
242-244 .55% Cu, .266 oz Ag.



42E10NW0145 16 ASHMORE

020

HOLLINGER MINES LIMITED

REPORT

ON

GOVERNMENT EXPLORATION ASSISTANCE PROGRAMME

WILSON and KALSON OPTIONS

ASHMORE TOWNSHIP



42E10NW0145 16 ASHMORE

020C

TABLE OF CONTENTS

	Page
I - SUMMARY OF EXPLORATION	1
A - LOCATION	1
B - WORK DONE	1
II - OPTION TERMS	2
III - GENERAL GEOLOGY	3
IV - RESULTS	5
A - DRILLING	5
B - ASSAYING	6
V - CONCLUSIONS and RECOMMENDATIONS	6

APPENDICES

APPENDIX I	- PLANS OF DRILLING
APPENDIX II	- DRILL SECTIONS
APPENDIX III	- SUMMARY OF ASSAYS
APPENDIX IV	- MAP OF PROPERTY

I. SUMMARY OF EXPLORATION

A. Location

Ashmore Township is located in the Thunder Bay Mining Division and comprises part of the Little Long Lac gold mining area.

The property consists of 25 unpatented and two patented claims under option, and is located approximately four miles east of Geraldton along Highway 11.

The unpatented claims included are:

TB 139350-353 incl.; TB 229616-618 incl.;
TB 230337-339 incl.; TB 238726-728 incl.;
TB 239955; TB 325351-359 incl.; and
TB 372798-799 incl.

The two patented claims under option are:

TB 10164 and TB 10971.

B. Work Done

The original 14 claim group was acquired in March, 1970, and Hollinger Mines Limited performed geophysical (magnetic and electromagnetic) surveys over most of this group. On the basis of the geophysical data, two holes were drilled in 1970, with a total length of 1117 feet. Later in mid-1971 a geological survey was performed over this original group. Both the drilling results and the geological survey were filed for assessment.

In the last quarter of 1971, Hollinger Mines Limited applied and received a subsidy to do further work on the property through the provisions of the Ontario Government's Exploration Assistance Programme. Under this programme, geophysical (magnetic and electromagnetic) surveys were performed on nine claims that had been added in 1971. These claims (numbered TB 325351-359 incl.) were adjacent to the original group on the eastern boundary.

The assistance programme continued into the first quarter of 1972, when a drilling programme was initiated. Six holes, with a total footage of 2483 feet, were drilled to check anomalous copper values obtained in the 1970 drilling and to test a zone of ground conductivity.

Since that programme expired on March 31, 1972, two patented claims, adjacent to the west boundary of the original group, have been added. In May 1972, a geological survey was completed over the nine claims to the east (TB 325351-359 incl.), and in November 1972, magnetic, electromagnetic and geological surveys were completed over the two patented claims.

In April 1973, a second Exploration Assistance Agreement was signed to cover a drilling programme designed to test:

- (a) a coincident magnetic-electromagnetic anomaly on patented claim 10971;
- (b) the best intersection obtained in the 1972 drilling at depth; and
- (c) a magnetic anomaly assumed to be on or near the contact between the Temiskaming sediments and Keewatin volcanics.

II. OPTION TERMS

An option agreement, dated March 23, 1970, between Donald Wilson of P. O. Box 730, Geraldton, Ontario, of the first part and Hollinger Mines Limited of the second part, gave Hollinger the right to explore the original 14 claims and any subsequent contiguous claims staked by Wilson or Hollinger.

The payments, under which Hollinger may acquire the property, are:

A sum of \$ 1,500.00 upon signing the Option,
\$ 1,000.00 on or before March 23, 1971,
\$ 1,000.00 on or before March 23, 1972,
\$ 1,000.00 on or before March 23, 1973,
\$ 1,000.00 on or before March 23, 1974,
and a further sum of \$100,000.00 on or before March 23, 1975.

Thus, total payments of \$105,500.00 are needed to acquire the property.

Also, for any ore mined and milled from said mining lands in excess of the first million tons, Wilson shall receive a 25-cent-per-ton royalty.

A total of \$4,500.00 has been paid to date as set out by the above agreement.

By a similar agreement dated October 30, 1972, the two patented claims (TB 10164 and TB 10971) were optioned to Hollinger by Mr. Herbert Kelson of Geraldton, Ontario.

The payments by which Hollinger may acquire this property are:

A sum of \$ 1,000.00 on signing the Option,
\$ 1,000.00 on or before October 30, 1973,
\$ 1,000.00 on or before October 30, 1974,
and a further sum of \$125,000.00 on or before October 30, 1975.

A total of \$1,000.00 has been paid to date, as outlined in the above agreement.

III. GENERAL GEOLOGY:

The property is largely underlain by a sequence of Keewatin lavas intruded by younger hornblende gabbros, hornblende diorites and albite (or just feldspar) porphyry. The southern portion of the property is underlain by Temiskaming sediments. The Temiskaming sediments encountered were conglomerates and arkose which are similarly intruded by the gabbro, diorite and albite porphyry.

The Keewatin lavas consist of andesitic to dacitic flows and tuffs which are highly metamorphosed. Biotite and chlorite are often found in these volcanics, with accessory carbonate and silica. The tuffs are characterized by numerous, small, subangular fragments in a chloritic matrix. The tuff horizons generally have a gradational contact with the massive flows.

The massive flows often contain narrow chert horizons. Initially these cherty zones were thought to represent flow tops, but there are at least three different types of occurrences:

1. Chert bands gradational with the andesite (flow tops?)
2. Chert bands with abrupt contacts.
3. Zones of mixed blue grey chert and andesite (silicification?)

Although intersections of chert were quite common in the 1972 drilling, very few chert horizons were encountered in the present programme. Hence, no additional interpretations can be made about these units.

The hornblende gabbros are easily distinguished by the numerous blocky crystals of hornblende in a dark green chloritic matrix. Often these blocky crystals are altered to chlorite; however, the crystal habit usually remains. The gabbros, as with the diorites, are presumed to be Early Algonian in age.

The only hornblende diorite encountered was in hole A-14-73, on claim TB 139352. No surface exposures of this unit are noted on the property. Although the blocky crystals of hornblende still persist, as in the gabbro, they are only locally developed and calcic feldspar is the predominant mineral. Unlike the gabbro, the diorite was weakly magnetic, although there is no expression of an anomaly from the geomagnetic survey performed in the area.

The albite porphyry dykes are presumed to be Late Algonian in age, since in a couple of surface exposures the porphyries are seen to intrude the hornblende gabbro. The high sodic feldspar content is diagnostic of all dykes encountered. This rock is usually pale grey in colour and quite hard, with the main alteration noted being slight amounts of epidote after feldspar.

Temiskaming sediments are encountered in surface exposures on the Kelson claims and in drill hole A-14-73, on claim TB 139352. Most of the Temiskaming series here is represented by conglomerates, with only a few zones of arkosic material noted in the drill hole.

The conglomerate contains a variety of pebble types that show a wide range of size and shape. Many of the smaller pebbles (usually less than $\frac{1}{2}$ inch), tend to be quite angular, while the larger ones (1 inch or greater), are distinctly more rounded in nature. The matrix of the conglomerate is brownish and moderately biotitic with small quartz 'eyes' scattered throughout. Local increases in alteration create a much softer, more chloritic matrix.

The arkosic bands seen in the drill hole are relatively narrow and are characterized by numerous small grains of quartz and feldspar, in a greyish to grey-green matrix. Contacts are usually gradational with the conglomerate units.

IV. RESULTS

A. Drilling

Five holes were drilled encountering the rock types previously described under general geology, being: Chert, Andesite, Hornblende Diorite, Hornblende Gabbro, Albite Porphyry, and Temiskaming sediments including arkose and conglomerate.

All of the drill logs will be filed for assessment, hence only a plan of the drilling plus a copy of the drill sections accompany this report. A total of 2391 feet were drilled; 1005 feet to test the magnetic-electromagnetic anomaly on the Kelson claims; 596 feet to check the wide copper bearing zone found in the 1972 drilling, and 790 feet to test the magnetic anomaly in the Temiskaming sediments.

The magnetic-electromagnetic anomaly on the Kelson claims was attributed to a narrow (up to one foot) band of massive pyrrhotite carrying minor pyrite and chalcopyrite. The excellent profiles obtained from the geophysical surveys from such a narrow zone are probably related to the rather shallow overburden depths in the area.

During the 1972 drilling, an intersection of 57 feet assaying .47% copper, .14 ounces/ton silver, was obtained in hole A-4-72. Hole A-12-73 was set out to cross this zone approximately 100 feet vertically below the original intersection. Although a substantial width of rock anomalous in copper was encountered, assays show the zone to be leaner at this depth.

Drill hole A-14-73 was designed to cross section a magnetic anomaly presumed to be in the Keewatin volcanics -- the additional footage allowing the hole to cut the volcanic-sedimentary contact. Unexpectedly, after 126 feet of overburden, the hole collared in Temiskaming conglomerate which extended to a dyke of hornblende diorite at 640.3 feet. The magnetic anomaly was attributed to approximately 45 feet of conglomerate containing numerous disseminated blebs of pyrrhotite.

Previous to the drilling of hole A-14-73, two claims were added along our south boundary to protect any possible results obtained in that hole. Thus, the

present number of claims mentioned at the first of this report is two greater than the number indicated upon signing the Exploration Assistance Agreement. No work was carried out on these two new claims (TB 372798 and TB 372799), so that none of the provisions of the Agreement were violated.

B. Assaying

Assaying of core samples was completed at Hollinger Mines Limited, Assay Department, by the atomic absorption method. Samples were assayed for various elements, including: copper, zinc, nickel, silver, lead and gold.

Each sample is prepared by crushing and grinding the rock to a -100 mesh fraction, then decomposing the product by the addition of hot nitric and hydrochloric acids.

A list of the assay results accompanies this report in summary form.

V. CONCLUSIONS and RECOMMENDATIONS

Exploration to date has revealed two relatively strong electromagnetic anomalies with associated high magnetics, to be related to narrow bands of massive or near massive pyrrhotite with minor accessory pyrite and chalcopyrite. One of these anomalies was outlined and drilled in 1972, the second anomaly lying within the Kelson claims and being drilled during the course of the present programme.

Further, a zone of disseminated sulphides having economic implications was previously outlined by drilling, to the east of the geophysical anomalies more recently located on the Kelson claims. Thus, the Kelson anomalies appeared to be ideal targets for drilling as suggested from the nearby pyrrhotite-chalcopyrite zone. Unfortunately, the data now available indicate that this entire section is not viable for mineral exploitation.

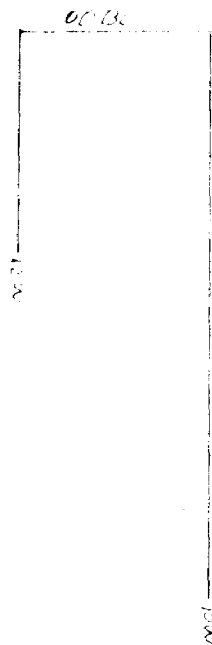
However, due to the intimate relationship between pyrrhotite and chalcopyrite noted in this area, magnetic horizons would appear to be favourable drill targets, either with or without a coincident electromagnetic anomaly. Several untested magnetic anomalies, which do not appear to be indicative of a change in rock type, remain on the Wilson claims. The most probable interpretation to be applied to this is that the anomalies suggest the presence of pyrrhotite - hopefully continuing its association with chalcopyrite.

The presence of Timiskaming sediments on the property may indicate an additional exploration opportunity, in search of gold. Although most of the Timiskaming belt here has been extensively drilled, very little work has been done in the Eldee Lake area. Unfortunately, the results received to date in the sediments have been very poor and no major structural features, which are often closely associated with gold ores, appear to be indicated. In the absence of known stringer zones, or structural controls, a couple of cross-sectional holes may be warranted to test the Keewatin-Timiskaming contact.

August 1, 1973.

Dale R. Alexander
HOLLINGER MINES LIMITED
TIMMINS, ONTARIO

PLAN OF DRILLING - WILSON
 AND NEARBY AREAS
 1915



Kaiser claim 22971
 patented

Hornblende diorite
 Dioritic Porphyry
 Andesite

bx breccia + tuff
 o fragmental
 chert □
 overburden

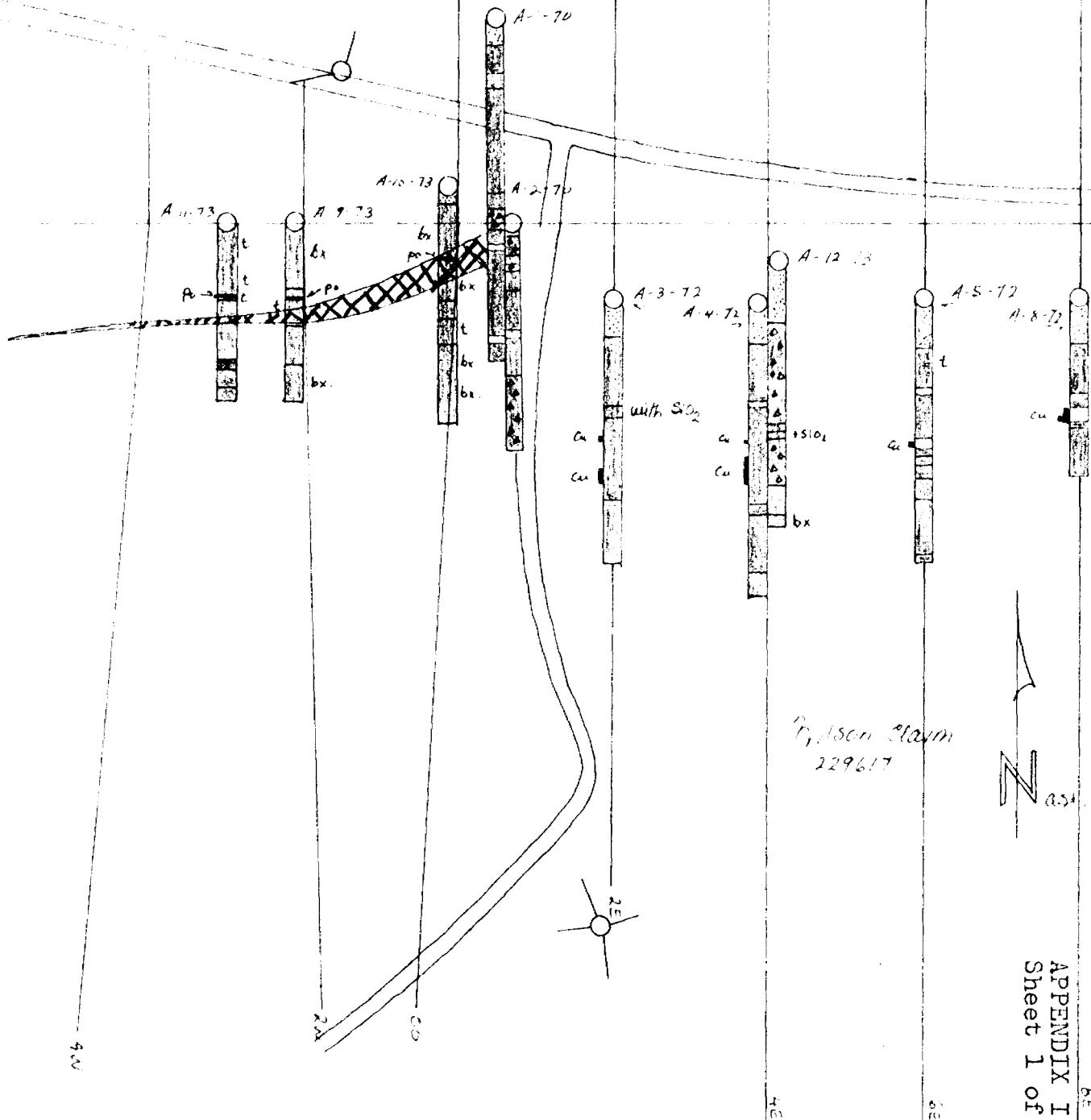
3W



5W

4W

Highway 11



Kaiser claim
 229617



35E

Scale - 1" = 200'

APPENDIX I
 Sheet 1 of 2

6E

Section of Lake Hyde A-14-73

H: Post 139353

1" = 200'

North

Lake Lake

Lake shoreline

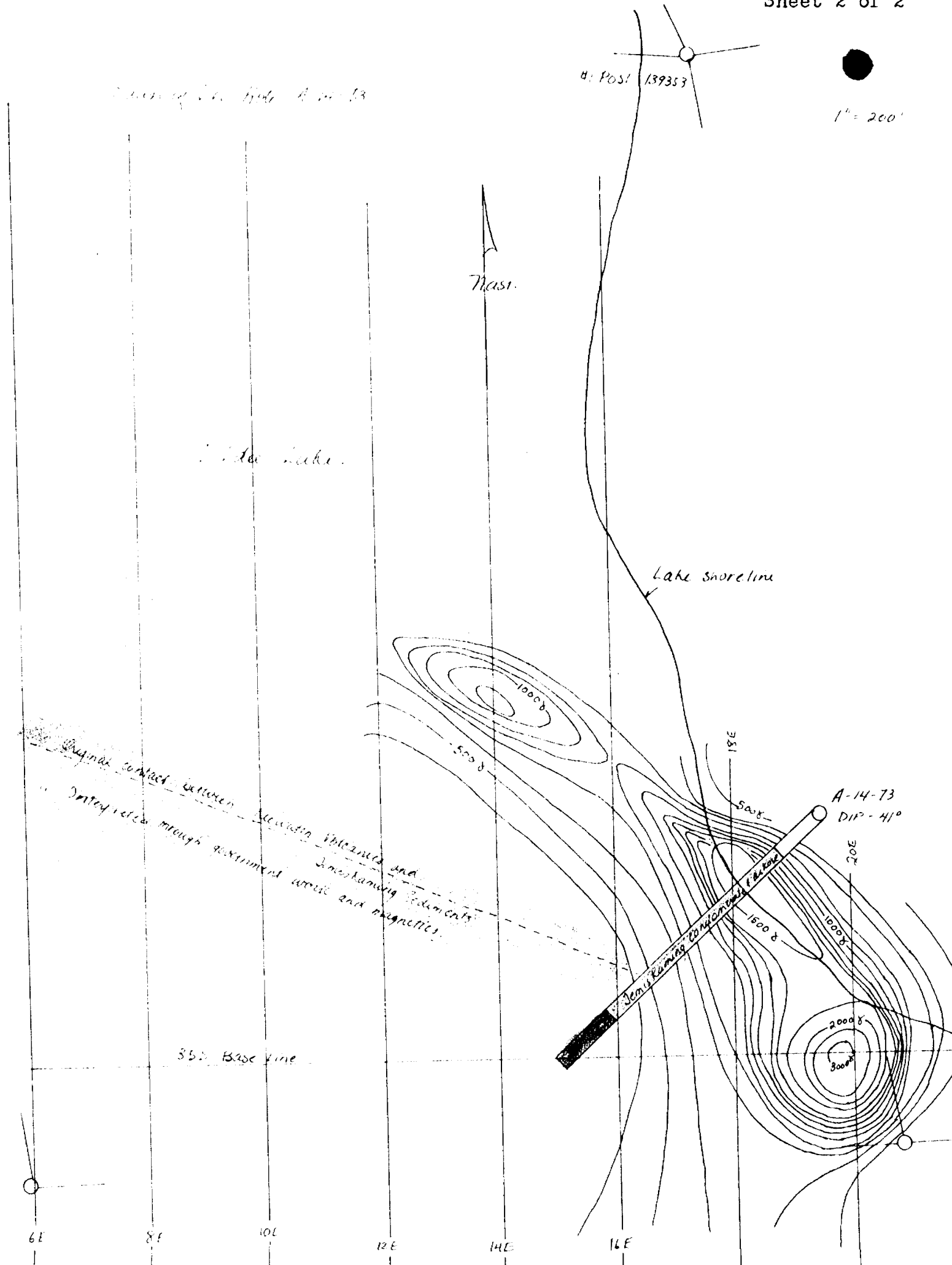
Original contact between Alvarado Volcanics and
underlying sediments
Dip-sloped through government work and magnetic

352 Base line

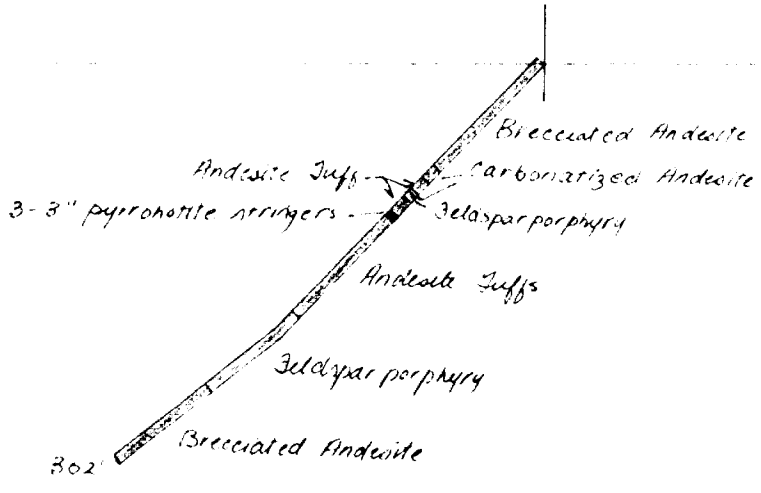
A-14-73
DIP - 41°

Jerry King's Conformation of Lake

6E 8E 10E 12E 14E 16E



A-9-73
XL2W @ 00BL
Az. 180°

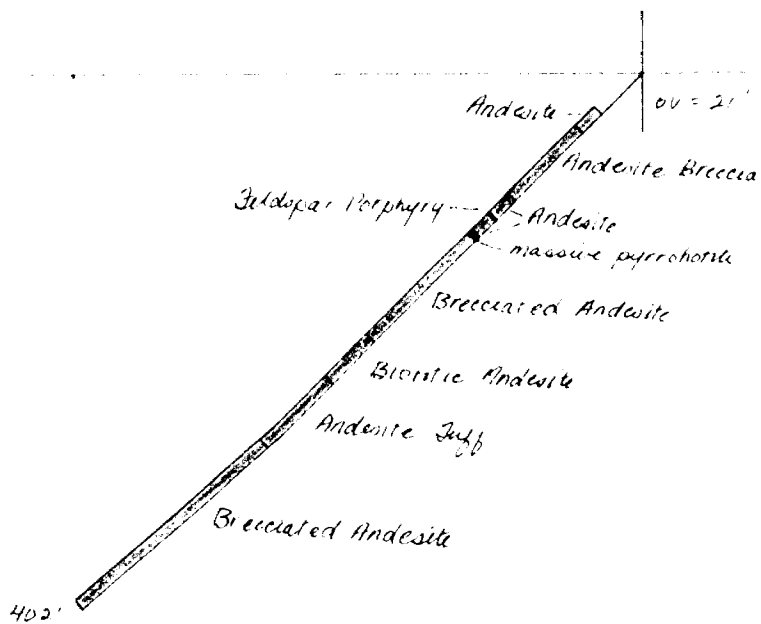


Scale 1" = 100'

A-10-73

XL 00 @ 0150' N

Az - 180°

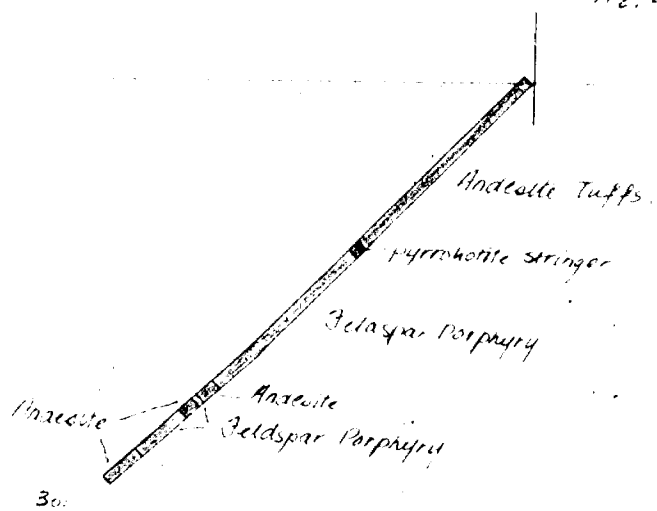


Scale 1" = 100'

A-11-73

3100 W @ 00BL

A2. - 180°

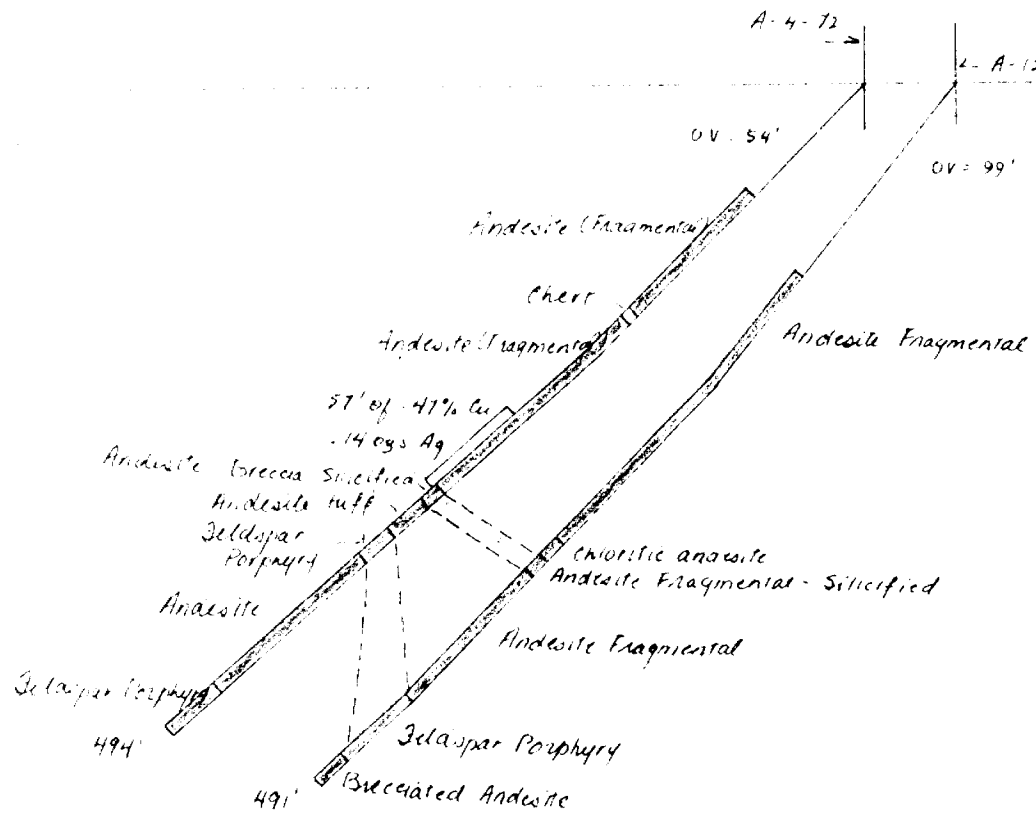


Scale - 1" = 100'

A-12-73

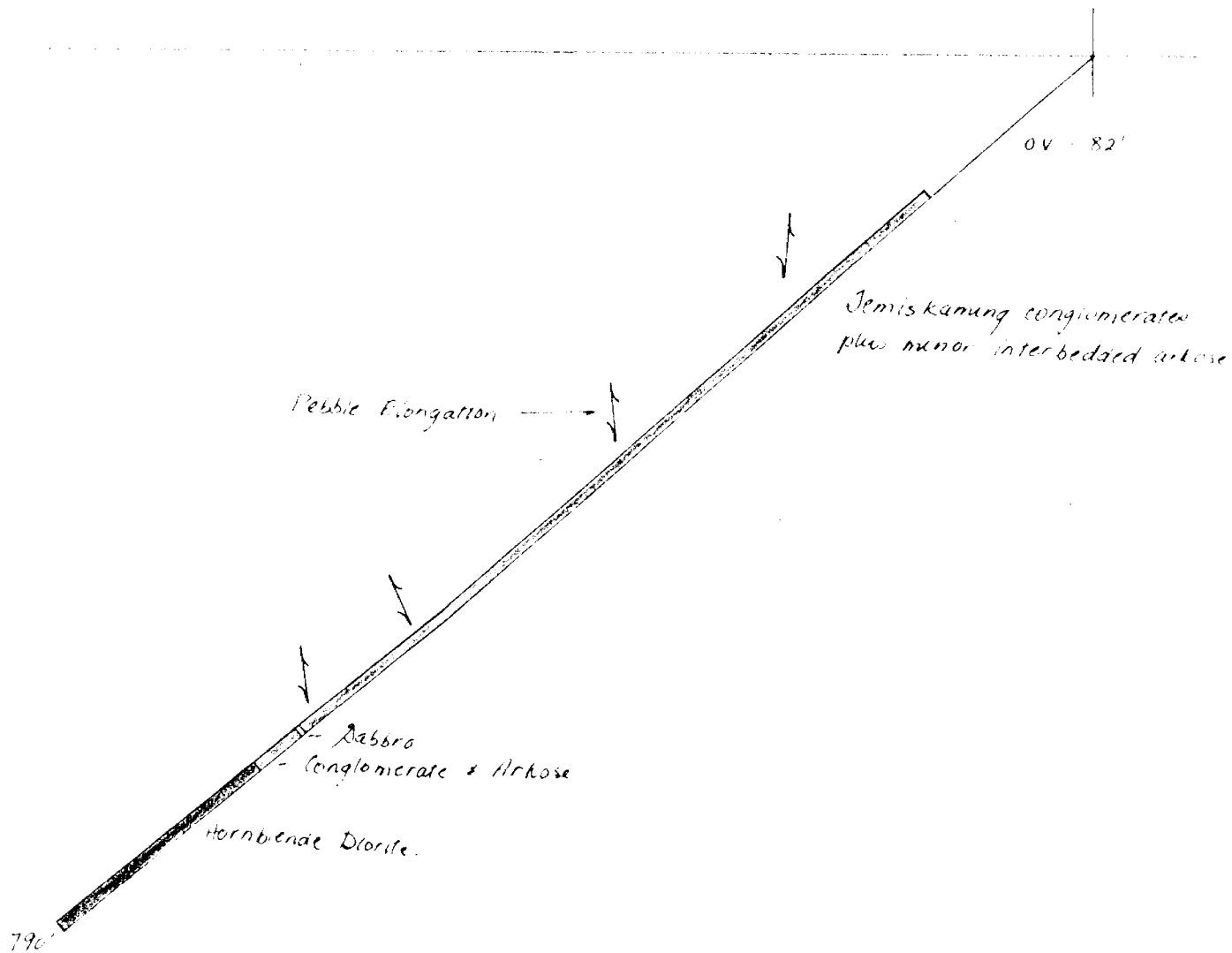
XL 4E @ 0143'S

A2 - 180°



Scale 1" = 100'

A-14-73
19150 E, 31100 S
Az. - 228°



Scale - 1" = 100'

SUMMARY OF ASSAY RESULTS

DDH A-9-73	AVERAGE VALUES					
	Cu(ppm)	Zn(ppm)	Ni(ppm)	Ag(oz)	Pb(ppm)	Au(oz)
85-140	385	84	79	.04	12	N11
265-302	725	53	126	.06	16	N11

Highest assays: 87-90 .17% Cu, .08 oz Ag
 110-112 .26% Cu, .07% Zn, .09 oz Ag - 3 bands of pyrrhotite
 132-135 .28% Cu, .11 oz Ag
 275-280 .17% Cu, .10 oz Ag

Two sections with gold in trace amounts:

85-87 .07% Cu, .04 oz Ag, .01 oz Au
 and 130-132 .01% Cu, .02 oz Ag, .01 oz Au.

The grab samples (at 25 foot intervals) for geochemistry were all background with exception to one sample @ 275 feet: 1.16% Cu, .38 oz Ag, .01 oz Au from a quartz stringer with chalcopyrite.

DDH A-10-73	Cu(ppm)	Zn(ppm)	Ni(ppm)	Ag(oz)	Pb(ppm)	Au(oz)
40-60	329	48	77	.03	20	N11
80-135	1074	83	82	.05	13	N11
(88-130)	1358	88	76	.05	12	N11
240-250	783	58	73	.05	11	N11
(242-247)	1580	82	90	.09	10	N11
305-402	492	102	129	.05	32	N11
(370-380)	2380	78	177	.10	20	N11

Highest assays: 45-47 .19% Cu, .08 oz Ag
 88-90 .32% Cu, .09 oz Ag
 90-93 .32% Cu, .12 oz Ag
 117-119 .25% Cu, .07 oz Ag
 119-121 1.63% Cu, .06% Zn, .25oz Ag -
 1.6 feet of massive pyrrhotite with pyrite, chalcopyrite.

A-10-73 (continued)

242-245 .19% Cu, .11 oz Ag
245-247 .10% Cu, .05 oz Ag
370-375 .34% Cu, .13 oz Ag
375-380 .135% Cu, .07 oz Ag

All grab samples showed background values.
All assays for gold were Nil.

DDH A-11-73	Cu(ppm)	Zn(ppm)	Ni(ppm)	Ag(oz)	Pb(ppm)	Au(oz)
40-50	190	45	87	.03	12	Nil
80-130	284	82	84	.03	17	Nil

Highest assays: 100-105 .10% Cu, .05 oz Ag
123-125 .05% Cu, .09 oz Ag - 1 foot of pyrrhotite.

All assays and grab samples in this hole were much poorer.
All assays for gold were Nil.

DDH A-12-73	Cu(ppm)	Zn(ppm)	Ni(ppm)	Ag(oz)	Pb(ppm)	Au(oz)
160-195	334	37	89	.02	12	Nil
(172-177)	1608	38	121	.03	12	Nil
250-265	201	47	111	.03	14	Nil
285-360	372	89	91	.05	11	Nil
(350-360)	510	302	98	.05	10	Nil

Highest assays: 167-170 .08% Cu, .03 oz Ag
172-175 .222% Cu, .05 oz Ag
175-177 .068% Cu, .02 oz Ag
253-255 .077% Cu, .05 oz Ag
292-294 .145% Cu, .05 oz Ag
295-300 .069% Cu, .03 oz Ag
310-315 .06% Cu, .04 oz Ag
320-323 .066% Cu, .21 oz Ag
330-335 .08% Cu, .07 oz Ag
355-360 .09% Cu, .06 oz Ag

A-12-73 (continued)

Most of the grab samples in this hole yielded background values, except for two as follows:

	Cu ppm	Zn ppm	Ni ppm	Ag oz	Pb ppm	Au oz
@ 275'	57	3460	35	.3	18	Nil
@ 300'	3170	85	188	2.6	38	Nil

In the light of high assays for split samples shown above, it thus appears that the interval 275' to 360' is characterized by values which are high background or slightly above.

All assays for gold values were Nil.

DDH A-14-73	Cu(ppm)	Zn(ppm)	Ni(ppm)	Ag(oz)	Pb(ppm)	Au(oz)
200-360	108	83	97	.02	19	Nil
640-695	500	40	50	.04	10	Nil
(640-655)	1240	58	54	.07	11	Nil
720-745	450	48	59	.04	11	Nil
760-780	523	32	40	.03	12	Nil

Highest assays:

315-320	.03% Cu, .02 oz Ag
640-645	.17% Cu, .10 oz Ag
645-650	.13% Cu, .06 oz Ag
650-655	.08% Cu, .05 oz Ag
732-735	.09% Cu, .07 oz Ag
737-740	.13% Cu, .08 oz Ag
764-765	.32% Cu, .17 oz Ag
768-770	.09% Cu, .04 oz Ag
770-771	.07% Cu, .03 oz Ag

All grab samples yielded background values.

Although this hole intersected Temiskaming conglomerate and arkose which enhanced the prospect of finding gold, all assays for gold were Nil. The sediments would appear to be barren unless affected by a major structural feature and/or host to one or more stringer zones.

T.B. 134353

Ashmore Trwp.
Report H. 102-73.
Hollinger Mines Ltd. T.B.

A-14-73
- 41°
L'190'

30'

570'

35 S. 13.1.

790'

6E

8E

10E

12E

14E

16E

18E

20E

W. H. Hansen
HOLLINGER MINES LIMITED
TIMMINS, ONTARIO

Scale - 1" = 200'

Location of Collar from North 570°
2 - TB 139353 West 30°

FORM 522

NORTH 314-005
EAST 10-503
ELEV. surface
AZIM. 2225
DIP Check collar: 41°; 300' - 41°
600' - 39°; 790' - 38.5°

DIAMOND DRILL REPORT

PROPERTY WILSON OPTION #1
Claim TB 139353, Ashmore Township

HOLE NO. A-14-73
COMMENCED June 21, 1973
FINISHED July 1, 1973
PURPOSE OF HOLE test magnetic anomaly
Drilled by radley mas.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
0	126	CASING.						
126	640.3	<p>Conglomerate - Temiskaming in age.</p> <p>Up to 180 the conglomerate is slightly greenish grey to grey in colour. After 180 the conglomerate is grey in colour with numerous fragments or pebbles. The more sedimentary nature of the conglomerate is not truly noted until further down the hole where the pebbles are much more rounded.</p> <p>After 180 we start to get a few smoky quartz eyes and the conglomerate tends to look nearly identical to the outcrop on the Nelson Option. The texture also changes somewhat after 180 from the sugary nature over the first 60' to a more massive groundmass with the quartz eyes.</p> <p>About the only other distinguishable mineral in the matrix is biotite which occurs in very tiny brownish flecks. The amount of biotite decreases after 180.</p> <p>The pebble size is generally in the 1/4 to 1/2" range although some fragments are greater than an inch. The larger pebbles are usually elongate at approximately 45° to the core axis. The smaller fragments</p>						

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

DIAMOND DRILL REPORT

PROPERTY Wilson Option #1
Ashmore Dip.

HOLE NO. A-14-73

2.

COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		are generally more angular although this type of occurrence is also seen in the outcrop on the Kalson property. The pebbles are of several types - the dominant type being blue grey and cherty - in some instances almost translucent; grey to buff cherty pebbles; black siliceous pebbles - further down the hole some of these look rather slaty; plus some dark brownish to greenish pebbles which often contain chlorite-biotite.						
		153.4-158 and 167-180 are more massive sections - dark grey green in colour - no distinguishable minerals. The pebble size and number just generally decreases into these zones - arkosic?						
		After 180 the pebble size gradually increases over 2' and then we start to get some better conglomerate and the quartz eyes begin to occur.						
		Mineralization is only minor with a few tiny blebs of sulphides in the early part of the hole - mostly pyrite - some pyrrhotite and rarely chalcopyrite. The pyrrhotite is only weakly magnetic - and the chalcopyrite is generally associated						

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

DIAMOND DRILL REPORT

PROPERTY _____ WILSON OPTION #1 _____
 Ashmore Twp.

HOLE NO. 2-11-73
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		with it in tiny splashes. After 210 there						
		is a general increase in the amount of						
		sulphides - here we have mostly dissemin-	200	205		5		Cgl - very minor sulph.
		ated blebs of pyrrhotite and the rock is	205	210		5		" " " "
		more magnetic. Cp is very minor here.	210	215		5		" " " " tr. cp
		Around 282 the size and number of	215	220		5		" minor po py
		pebbles gradually decreases into a short	220	225		5		" " po py, tr cp
		zone of arkose from 304.5 to 330. In the	225	230		5		" " po py
		conglomerate up to the arkose the fragments	230	235		5		" " po py
		are mainly of the bluish grey type;	235	240		5		" " po py
		similarly at the lower contact after 330	240	245		5		" " po py, tr. cp
		although the gradation here (330) is much	245	250		5		" " po py, tr. cp
		faster.	250	255		5		" " po py
		The arkose is greener in colour than	255	260		5		" " po py
		the grey conglomerate and contains a few	260	265		5		" very minor sulph.
		noticeable grains of quartz and feldspar.	265	270		5		" " " "
		Practically unaltered - very minor	270	275		5		" " " "
		chlorite-sericite nearly the same as the	275	280		5		" minor pyrite
		alteration in the conglomerate. Very	280	285		5		" " pyrite
		minor pyrite in the arkose - splash of	285	290		5		" very minor py
		chalcopyrite at 319.5. There are a few	290	295		5		" " " py
		carbonate stringers in the arkose unlike	295	300		5		" minor py
		the conglomerate and there is some minor						
		brecciation and alteration with a few						
		narrow carbonate stringers from 308.5 to						
		310.5.						

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

DIAMOND DRILL REPORT

PROPERTY WILSON OPTION #1

Ashmore Twp.

HOLE NO. A-11-73
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		After the arkose we are into a good conglomerate before 340. There is a notable increase in py po here as well with numerous blebs all along the core. Schistosity due to fragment elongation at 55° to the core. Similar lithology as previously described conglomerate.	300	305		5		3sl - very minor py po
			305	310		5		arkose - very minor py po
			310	315		5		" " " py po
			315	320		5		" " " py po cp
			320	325		5		" " " py po
		After 360 the matrix of the conglomerate becomes greener and there are very numerous well rounded pebbles. Mostly blue grey cherty, some white, some porphyry, some black, some brown and some dark green. Pyrite-pyrrhotite content rapidly decreases after 380.	325	330		5		" " " py po
			330	335		5		3sl minor py po
			335	340		5		" " py po
			340	345		5		" 3/4 py po
			345	350		5		" minor py po
			350	355		5		" 3/4 py po
			355	360		5		" 3/4 py po
		406-407.5 - short arkosic band; speckled nature of Qtz-feldspar.						
		419.4-445 - rather sharp upper contact at 40° to dark grey fairly massive, very slightly altered arkose.						
		445-448 - very dark grey conglomerate very small blue grey fragments, some pyrite - contacts gradational.						
		448-456.7 - gradation to greenish arkose, fairly massive, minor pyrite.						
		456.7-501.2 - gradation to a good conglomerate - mostly bluish grey and						

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

DIAMOND DRILL REPORT

PROPERTY WILSON OPTION #1
 Ashmore Twp.

HOLE NO. 4-14-73

5.

COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		whitish cherty fragments, minor py po.						
		lineation of fragments at about 75° to the core.						
		501.2-509.1 - short shear (1") at 401.2 at 60° to core then conglomerate with a more arkosic matrix. Fragments are much fewer in number than other conglomerate horizons.						
		509.1-521 - short band of coarse conglomerate - more brownish chloritic alteration. Traces of sulphides.						
		521-543.8 - some arkose but mostly conglomeratic fragments in a more arkosic matrix - similar to the unit 501-509 but here there is some areas with no fragments. Both contacts gradational - lower is more rapid. A little more alteration here - chlorite, sericite. Lineation at 60° to core.						
		543.8-605.8 - return to conglomerate lineated at 60° (long axis of fragments). Much more highly altered than previous - matrix is quite brownish. Large number of pebbles as before - mostly blue grey cherty, some white, some buff cherty, some brownish and sandy. At 554.9 trace of						

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

DIAMOND DRILL REPORT

PROPERTY _____ WILSON OPTION #1
 Ashmore Twp.

HOLE NO. A-14-73
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		chalcopyrite - otherwise very little sulphides. Around 565 we grade into a less altered conglomerate and the colour changes from brownish to grey. Further along the zone the conglomerate also becomes more arkosic and the size and number of pebbles decreases to the end of the zone.						
		605.8-609.8 - contacts at 45° - converging to a short Dyke of gabbro??						
		Very fine groundmass with some fairly large irregular blebs of brownish biotitic material and some jade green spots of chlorite. It appears to have no effect on the arkosic material at either contact although the dyke seems to be slightly chilled and brownish at its contacts.						
		Non-magnetic, carbonatized.						
		609.8-611.3 - arkosic, grey green as before.						
		611.3-623 - sharp contact at 45° to band of conglomerate, grey, hard, numerous pebbles. Minor sulphides, trace of cp						
		612.1. Lower contact is quite abrupt at 80° to core into the much finer conglomerate.						
		623-640.3 - gradation from the conglomerate for the first 2' then quite a						

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

DIAMOND DRILL REPORT

PROPERTY WILSON OPTION #1

Ashmore Twp.

HOLE NO. A-1A-73 7.
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		dark grey green arkose. Massive. Very						
		minor sulphides. Lower contact along a						
		quartz stringer.	640	645		5		T ₁ - very minor cp po py
640.3	790	Hornblende diorite dyke, upper contact	645	650		5		" minor py po cp
		along a quartz stringer. Rather high per-	650	655		5		" " cp py
		centage of feldspar here and locally the	655	660		5		" " py cp
		feldspar content is extreme. The rock is	660	665		5		" " py cp
		medium green in colour with fairly numerous	665	670		5		" very minor py, tr. cp
		blebs of pseudomorphic chlorite after horn-	670	675		5		" trace py
		blende. The rock is very slightly magnetic.	675	680		5		" negligible sulph.
		Up to 662 there are quite a few quartz	680	685		5		" few traces of py.
		stringers - usually at a low angle to the	685	690		5		" minor py cp
		core - mostly bluish in colour. Associated	690	695		5		" few traces py
		around these stringers are some sulphides						
		py po with some good sized splashes of						
		chalcopyrite.						
		667.5-670.3 - few quartz-carbonate						
		stringers here, making the diorite quite						
		altered. The diorite becomes finer grained,						
		more silicified, with some brick red						
		staining of the feldspar. Accessory chlorite						
		with the stringers - less than normal						
		chlorite within the diorite.						
		Some chalcopyrite around a quartz						
		stringer at 686.						
		Around 722.5 the diorite becomes a bit						

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

DIAMOND DRILL REPORT

PROPERTY WILSON OPTION #1

Ashmore Twp.

HOLE NO. A-14-73
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		finer grained and then around 728.8 the						
		rock becomes very brownish and micaceous.						
		After 728.8 to 741.3 the rock looks some-	720	725		5		L ₁ - traces of py po cp
		what like the matrix of the brownish con-	725	730		5		" minor qtz, minor py po
		glomeratic. There is so much biotite and	730	732		2		" " " minor py po cp
		quartz around this zone that it is very	732	735		3		" 80% " tr. py cp
		difficult to interpret. There is about	735	737		2		" 30% " minor py po cp
		30% bluish qtz stringers here and some	737	740		3		" 20% " minor py po cp
		sulphides associated with them.	740	742		2		" minor " " py po cp
		741.3-790 - greyer diorite than	742	745		3		" neglig. sulph or qtz
		previous - contact along stringer zone	745	750		5		" " " " "
		with above. Rather mottled appearance						
		with the high feldspar content. Only 3						
		stringers here - white, quartz-carbonate	760	764		4		L ₁ mass. (slightly magnetic)
		with very minor sulphides:- 764.8, 778.2	764	765		1		L ₁ mass., 1" str. @ 20° to C.A. - bordered by heavy black tourma- line with minor cp throughout.
		and 788.						
			765	768		3		Mass L ₁ - minor py @ 30° to C.A. (magnetic).
			768	770		2		Slightly min. - qtz L ₁ w. small tourmaline str. - w. cp & py (magnetic)
	790	END OF HOLE	770	771		1		Mass. alt. L ₁ with py & cp (magnetic)
			771	775		4		Coarse grained L ₁ massive,
		<i>Dale R. Alexander</i>	775	777		2		Coarse gr. L ₁ - slightly min.
		HOLLINGER MINES LIMITED	777	779		2		1" green qtz str 20° to C.A. cp + py, shear plain @ 10° to C.A.
		TIMMINS, ONTARIO	779	780		1		Qtz diorite - chloritic and pyritic (magnetic)
			788	789		1		2" qtz calcite str. in an un- mineralized diorite.

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

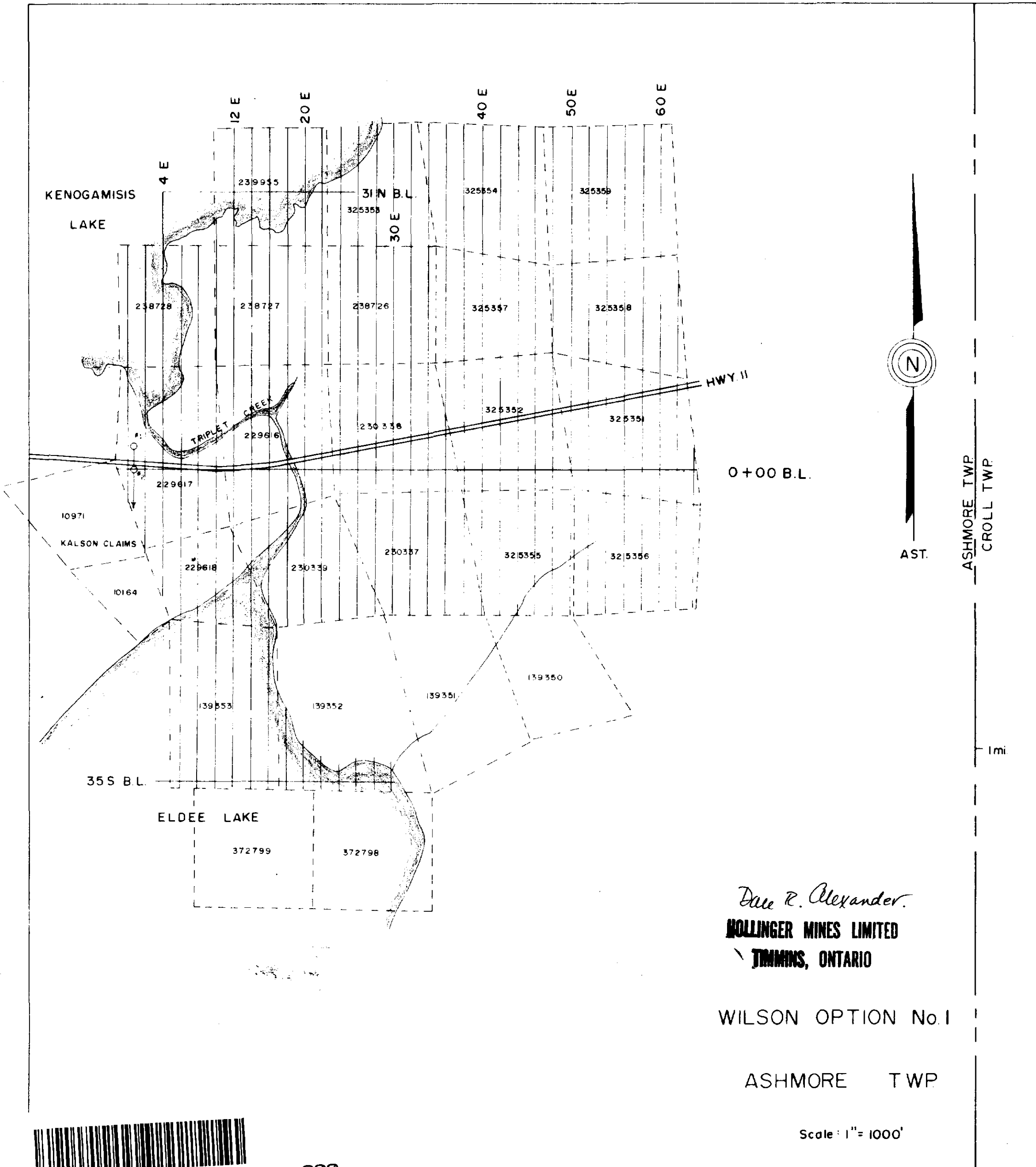
DIAMOND DRILL REPORT

PROPERTY WILSON OPTION #1

Ashmore Twp.

HOLE NO. 1-21-73
 COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		Geochemistry and Thin Section						
G	126	Temiskaming conglomerate - biotitic						
G + TS	150	Biotitic conglomerate						
G	175	More massive sediment - arkose?						
G + TS	200	Conglomerate						
G	225	"						
G + TS	250	"						
G	275	"						
G + TS	300	More arkosic part of gradation						
G + TS	325	Arkose - greenish						
G + TS	350	Good coarse conglomerate - some py						
G	375	Coarse conglomerate						
G + TS	400	Finer conglomerate						
G	425	Dark grey arkose						
G + TS	450	Arkose with a few dark fragments						
G	475	Conglomerate, blue grey pebbles						
G + TS	500	Dark grey conglomerate						
G	525	Conglomerate - few pebbles - arkosic matrix						
G + TS	550	Conglomerate - more highly altered + py						
G	575	Conglomerate - greyish						
G + TS	600	Conglomerate - more arkosic matrix						
	608	To Dr. Huddle - gabbro?						
G	625	Grey green arkose						
G + TS	650	Quite highly altered diorite, py cp						



KENOGAMISIS
LAKE

TRIPLET
CREEK

10971
KALSON CLAIMS

35S B.L.

ELDEE LAKE

HWY 11

0+00 B.L.



AST.

ASHMORE TWP.
CROLL TWP.

1 mi.

Done R. Alexander.
HOLLINGER MINES LIMITED
TIMMINS, ONTARIO

WILSON OPTION No. 1

ASHMORE TWP.

Scale: 1" = 1000'



42E10NW0145 16 ASHMORE