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REPORT OF WORK PERFORMED IN BEN NEVIS & PONTIAC TOWNSHIPS UNDER ONTARIO GOVERNMENT'S MINERAL EXPLORATION ASSISTANCE PROGRAM

CONTRACT KL-33.

D.R. Hawke B.Sc. and W.R. Ryall Ph.D. Amax Exploration, Inc. Timmins, Ontario

July 1973

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TABLE OF FIGURES

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Figure 1.	Location Map	After Page 1
Figure 2.	Location Map for drill holes TX-99 and TX-100	After Page 3
Figure 3.	Location Map for drill holes TX-101 to TX-106 incl	In pocket at back
Figure 4.	Location Map for drill holes TX-107 to TX-109 incl	In pocket at back

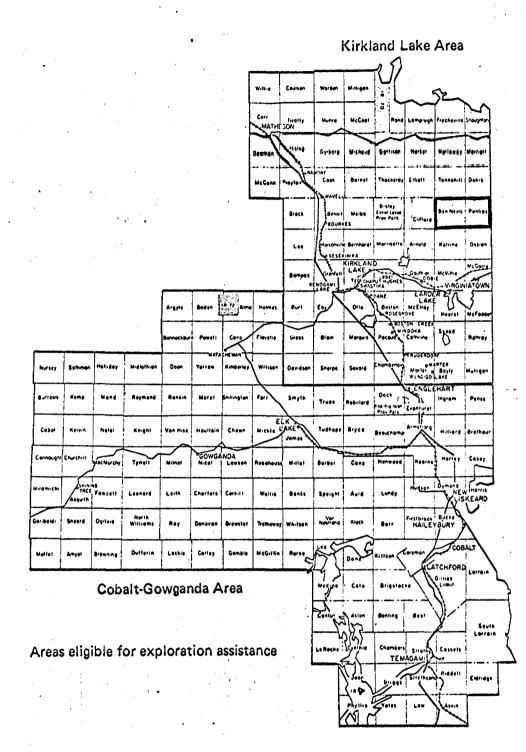


Figure 1. Location of claim groups in Pontiac and Ben Nevis Townships

... Amax Exploration, Inc....

Page 1

I. SUMMARY

Diamond drill testing of IP targets in Ben Nevis and Pontiac Townships was completed with a total of eleven holes for an aggregate of 4145 feet. All holes intersected sulphide mineralization but this was mostly pyrite accompanied by weak base metal mineralization. Hole TX-102, drilled in Ben Nevis Township, returned the most encouragement with 7.5 feet averaging 2.63% Zn, 0.40% Cu, 41.7 ppm Ag and 0.08% Pb. Extension of this zone could not be located with an additional two closely spaced holes.

<u>PART A</u> Ben Nevis Township by

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<u>W.R. Ryall</u>

II. INTRODUCTION

IP surveys, carried out in the fall and early winter of 1972, with the aid of the Ontario Government's Mineral Exploration Assistance Program, revealed several anomalous zones occuring in favourable geological environments which deserved diamond drill testing. A further request was made to the Ontario Government in March 1973 soliciting assistance under the above Program.

This request was approved and drilling commenced in Ben Nevis Township on April 2, 1973. A total of 3261 feet was drilled in Ben Nevis Township with all 8 holes intersecting pyrite mineralization. Two holes, TX-102 and TX-104, intersected copper, zinc, and lead mineralization in anomalous proportions, but not over economically significant widths. Two holes drilled to test the continuity of mineralization encountered in hole TX-102 showed that it did not extend to the area of later holes.

III. DIAMOND DRILLING

Eight holes were drilled as follows.

Number	<u>Location</u>	Dip	Length	Zone	Reference
TX-99-73	Ben Nevis-2 L6E 10+00S	-45°N	408 ft.	"Silver breccia"	Fig. 2
TX-100-73	Ben Nevis-2 L2E 6+00S	-45°N	400 ft.	-	Fig. 2
TX-101-73	Canagau L28S, 24+00W	-45°E	500 ft.	Zone D	Fig. 3
TX-102-73	Canagau L45+50S, 11+00W	-45°SE	500 ft.	Zone C	Fig. 3

Number	Location	<u>Dip</u>	Length	Zone	Reference
TX-103-73	Canagau L26S, 7+50E	-45°W	400 ft,	Zone B	Fig. 3
TX-104-73	Canagau L6S, 1+00E	-45°W	453 ft.	Zone A	Fig. 3
TX-105-73	Canagau 45+10S, 11+30W	-45°SE	300 ft.	Zone C	Fig. 3
TX-106-73	Canagau 45+70S, 11+40W	-45°SE	300 ft.	Zone C	Fig. 3
			·		

Drill logs are attached overleaf together with assay results. All holes intersected sulphide mineralization but in most instances this was pyrite carrying only weak values of Cu, Zn, Pb and Ag.

DDH TX-102-73 returned anomalously high values from 65 to 72.5 ft. and in sections in the interval 469 to 478 ft. The 7.5 ft. from 65 ft. averaged 2.63% Zn, 0.40% Cu, 41.7 ppm Ag, 0.08% Pb. Within this section 2.0 ft. from 65 ft. averaged 2.34% Zn, 0.11% Cu, 12.3 ppm Ag, 0.02% Pb and 2.0 ft. from 67 ft. averaged 0.81% Zn, 0.84% Cu, 32.4 ppm Ag, 0.05% Pb and 3.2 ft. from 69.3 ft. averaged 4.21% Zn, 0.31% Cu, 59.0 ppm Ag, 0.15% Pb.

In the deeper section encouraging values were reported from 469 to 478 ft., the best section being 2.0 ft. from 469 ft. which averaged 3.46% Zn, 0.17% Cu, 16.6 ppm Ag, 1.50% Pb.

Two holes were drilled in the vicinity of TX-102 to attempt to intersect possible extension of the above zones. TX-105 was drilled 50 ft. behind and TX-106 was drilled 50 ft. SW of TX-102. Both holes were unsuccessful in extending the limits of the mineralized zones.

PART B

Pontiac Township

by

<u>D.R. Hawke</u>

IV. INTRODUCTION

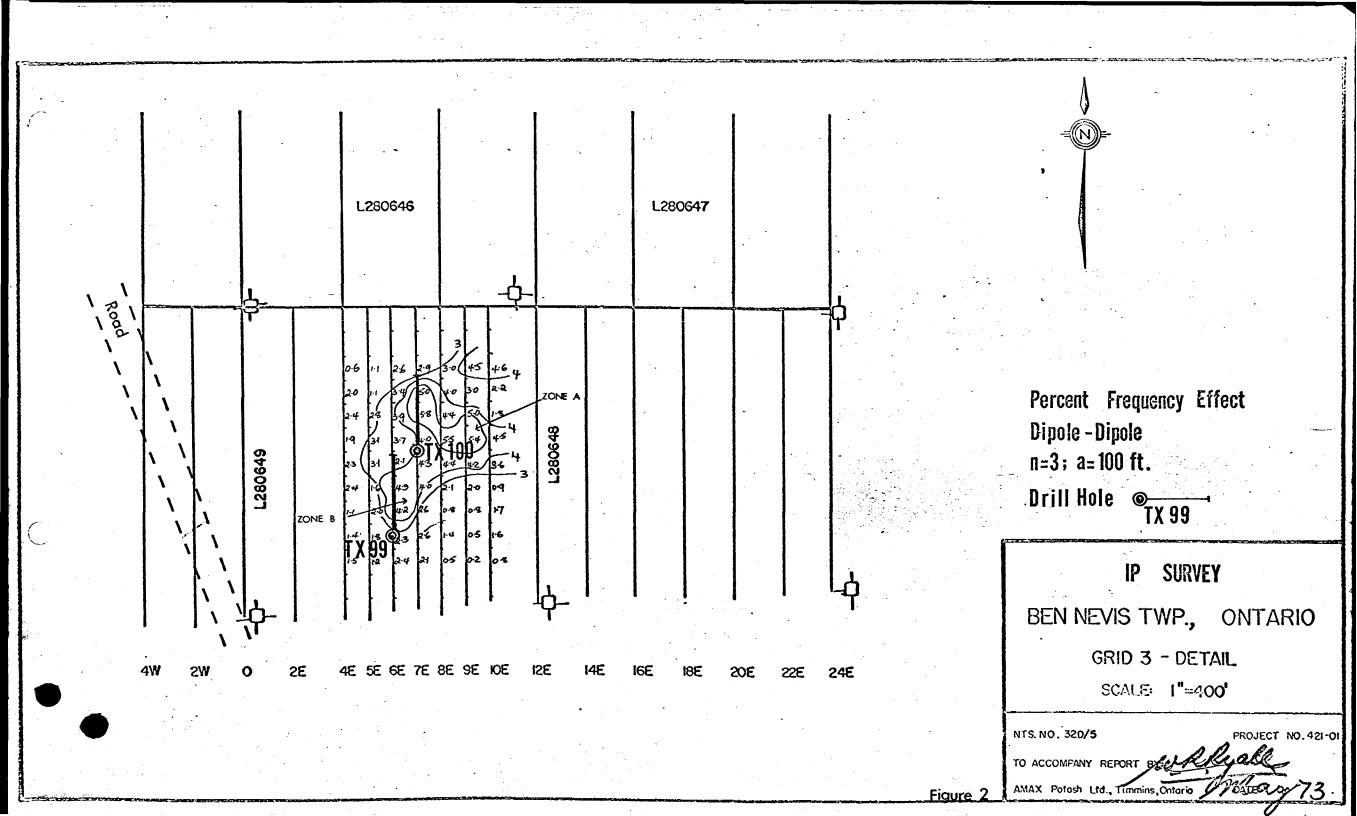
In July 1971 an IP survey carried out in Pontiac Township defined an anomalous zone occuring in a favourable geological environment. This was enhanced the following summer by a geochemical survey which revealed a coincident geochem anomaly. Three diamond drill holes were planned to adequately test the IPgeochem anomaly. Drilling commenced on June 6, 1973 with a total of 884 feet being drilled. Each hole contained disseminated pyrite mineralization while two contained short sections of very weakly disseminated chalcopyrite. No economically significant assays were obtained in any of the holes.

V. DIAMOND DRILLING

The data for the three holes is presented in the following table.

Number	Location	Dip	<u>Length</u>	Reference
TX-107-73	L4N 3+20E	-50°	312 ft.	Fig. 4
TX-108-73	L4N 1+00E	-45°	275 ft.	Fig. 4
TX-109-73	LO 2+50W	-45°	<u>297</u> ft.	Fig. 4
Total	Footage		884 ft.	

The drill logs along with the assay results are attached overleaf. The three holes were designed to test the three intense regions of the IP anomaly. Disseminated pyrite in rhyolitic to dacitic host rocks was intersected in all three holes. Holes TX-107 and TX-109 contained short sections of very sparsely disseminated chalcopyrite. The mineralization tends to occur as discrete blebs and patches, which accounts for the strong IP response. The results of this drill program failed to provide any encouragement for further work on this property.



DIAMOND DRILL RECORD

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TX-99-73 Hole No.....

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AMAX EXPLORATION, INC. DIAMOND DRILL RECORD

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Hole No. TX-99-73 Sheet No. 2

Foot			DESCRIPTION	Sample No.	From	То	Length		1	1	1	1	1
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309.0	325.0	DACITE	As for section from 31-227 ft.										
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329.0	382.0	DACITE	As for section from 31-227 ft. except 2 ft. section at 366 ft. DACITE FRAGMENTAL with 15% py.					 					
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382.0	385.0	DACITE FRAGMENTAL	As for section from 10-31 ft.			 		<u> </u>	<u> </u>				
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DIAMOND DRILL RECORD

Hole No. TX-100-73

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Hole No.	TX-100-73	Sheet 1	Length	400		Commenced	7 April 19		Dip: C	ollar	<u>45°</u>				Location	Sketch	North	1	
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DIAMOND DRILL RECORD

Hole No. TX-100-73 Sheet No. 2

Foot:	age To	DESCRIPTION	Sample No.	From	То	Length	Au oz/ton	Ag ppm	Cu ppm	Zn ppm		
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		134-195 ft. Fragmental, mottled appearance due to heavy	 							<u> </u>		<u> </u>
		development of carbonate-silica amygdules averaging less than 0.5 in across. Frags to 2 in across set in heavily chloritized and carbonatized groundmass. Py disseminated through section		<u> </u>	1				· · · · · · · · · · · · · · · · · · ·			
		less than 0.5 in across. Frags to 2 in across	1		<u> </u>		1					
		set in heavily chloritized and carbonatized	1			+						
	· · · · · ·	groundmass. Py disseminated through section	1		1	1	1			<u> </u>		
		av 2-3%.	1		1		1					
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	and the later of the second	195-360 ft. Light grey, more massive section chlorite	4283	239	240	1.0	nil	0.8	62	53		
	· · · · · · · · · · · · · · · · · · ·	alteration not as heavy as above but sericite		1						1		
		and carbonate heavy. Py disseminated through	4284	323	324	1.0	nil	3.1	344	472		†
	· · · ·	section generally av 2-5% but locally is to 30%	1		1	1	1					
		and carbonate heavy. Py disseminated through section generally av 2-5% but locally is to 30% eg sections shown at right.	4285	336	337	1.0	nil	0.8	82	20		
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		360-364 ft. Highly carbonatized section.			1	1	1	· · · · · ·				[
			1		1	1	1					
	····· • • • • • • • • • • • • • • • • •	364-400 ft. Grey, fairly massive section with background	4286	364	365	1.0	nil	1.1	52	58		F
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AMAX EXPLORATION, INC.

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DIAMOND DRILL RECORD

Hole No. TX-101-73

	<u>TX-101-73</u>	Sheet 1 Length	<u>500 ft.</u>	Commenced	12 April 1973	Dip:	Collar	-45°		4		Location	Sketch	Nort	h	
Property .			090°	Completed	16 April 1973		-			_			<u></u>	`		
Township	Ben Nevis	Dip	-45°	Drilling Co.	Continental D.D.	Etch	Test	Depth	Rdg	. Tr	ue					
Location .	L28S, 24+	UUE Objective		Core Size	BQ	-										
	W.R. Ryal	y		Casing Left in	h Hole										1 28	0635
	n Timmins		<u></u>			-		********						Claim	No. <u>L28</u>	5000
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16.0	27.0	DACITE	Light grey, massi	ivo generall	v even grained		· · · ·							<u> </u>	ļ	
10.0	27.0	DACITE	significant carbo							<u> </u>			<u> </u>			
					av size 0.1-0.75 in								<u> </u>	<u> </u>		
	+				y. Streaky sericite						1	-	1	†		†
<u> </u>			alteration mostly	v as x-cuttin	g veins up to 0.25 in						1		f			<u> </u>
		· · · · · · · · · · · · · · · · · · ·	across. Patchy py							1	1	· ·	1		·	<u> </u>
<u> </u>	1	- -	· · · · · · · · · · · · · · · · · · ·	<u></u>			1	·			1		1	1		
27.0	40.0	DACITE FRAGMENTAL			but in places crude								1.0	1		
			foliation at abou	ut 60° to C.A	. Groundmass heavily											
					d ragged-edged patches											
		· · · · · · · · · · · · · · · · · · ·			ericite. Fragments and											
					t 50% of rock giving a											
			<u>mottled_appearanc</u>	<u>ce. Rusty str</u>	eaks x-cutting. Fragme	<u>ents</u>					L					-
					ut many may be larger						<u> </u>		<u> </u>			
		······································	than 10 in across	s Py sparse.					_	<u> </u>	ļ			L		
		DAGTE		1.1.2.1.1						ļ			ļ	Ļ		ļ
40.0	56.5	DACITE			hard not as altered		L			<u> </u>	ļ	_	<u> </u>	<u> </u>	ļ	
·	<u> </u>	· · ·			. heavy development Occasional patches of		ļ	ļ			↓		<u> </u>		ļ	
	· · ·				ized rock near 41 and					·	<u> </u>				ļ	<u> </u>
		·····			th carbonate, silica						<u> </u>			· · · · · · · · · · · · · · · · · · ·	ļ	<u> </u>
		·	and rare py - els								<u> </u>	_		<u> </u>	<u> </u>	┢╌──
			anu rare py = ets	semilere hy sh	4136.		<u> </u>								 	+
56.5	61.0	DACITE FRAGMENTAL	As for section fr	rom 27-40 ft			<u>+</u>			<u> </u>		-	+			
		DIGITE TRUBERIAL		1 Via 27 TO 16.	<u></u>		1			+			1			1
	++					<u> </u>				1	1	-	1 .		<u> </u>	1
	i t				······					1	1	-	1	1		
	++		<u></u>				1				1	1	1	1	1	1

DIAMOND DRILL RECORD

Hole No. TX-101-73 Sheet No. 2

Foot			DESCRIPTION	Sample	From	То	Length	Au	Ag	Cu	Zn		
From	To			No.	FIOM	10	Length	oz/toi	h ppm	ppm	ppm		
								1					
61.0	72.0	DACITE	As for section from 16-27 ft.	1		· · · · ·							
					†- -								
72.0	73.5	DACITE FRAGMENTAL	As for section from 27-40 ft.										
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1	1			1					
73.5	86.0	DACITE	As for section from 16-27 ft.	†*****	1								
			Heavy streaks of sericite at 78 ft.		1			1		1			
		······································					t	1					
86.0	92.0	DACITE FRAGMENTAL	As for section from 27-40 ft.		1			1					· · ·
	2210												
92.0	179.0	DACITE	Grey, mostly massive, amygdaloidal in part, as	4287	133	134	1.0	nil	5.0	405	174		
		UNIONIE	before commonly mottled appearance due to patchy	7201	1	<u> </u>	1.0	1					
		· · · · · · · · · · · · · · · · · · ·	sericite development, white carbonate alteration	4288	138	139	1.0	nil	2.5	175	155		
			common. Rock is brecciated in part. Section 118-119	17200	1.50		<u> </u>		<u> </u>				<u> </u>
			ft. porous, rusty. From about 121 to 179 ft. py	4289	145	146	1.0	nil	2.6	245	4830		
			increases to an av of 5% over section. Py is	4203	145	140	1.0		2.0		- +000		
:			generally associated with patchy sericite-	1200	155.5	165 5	1.0	nil	2.1	266	4500	· · · · · · · · · · · · · · · · · · ·	
			carbonate-silica alteration which frequently is	17250	133.3	103.5	1.0	1	2.1		1000		
			developed as veinlets at about 60-70° to CA.	4201	168.5	170 0	1.5	nil	2.1	326	8400		
			Py is heavy in places reaching 15-20% over 1 ft.	7651	100.5	1/0.0	1.5		2.1	520	0100		
			sections - eq at 128, 134, 148-150, 169, 177 ft.	<u> </u>					{	╂─────			
			<u>Sections of at 120, 104, 140 100, 103, 177 10.</u>		<u> </u>								
179.0	200.0	DACITE FRAGMENTAL	Med. grey overall colour but groundmass frequently		+			1					
			dark green-black due to heavy chlorite					1					
			development. Fragments up to 3 in across and										
			mostly lighter coloured than groundmass. Streaky		1				<u> </u>				
· ·			sericite-rich bands and veinlets common. Py av				· ·						
			1.t. 2% but heavy patches over 1-2 in are common.		1								
				1	1		1				· · ·		
				1	-			1	1		1		
3								1	1				
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				<u> </u>	1 .		<u> </u>	<u> </u>	<u> </u>	<u> -</u>			
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	• .	 A specific strain	$\frac{1}{2} \left(\frac{1}{2} + 1$	1	I saw s see	•. <u> </u>	a		<u>.</u>	United and the second s	• • • • • •	la de la composición de la com	l s str

DIAMOND DRILL RECORD

Hole No. <u>TX-101-73</u> Sheet No. <u>3</u>

Determ D D E C I I Same Prom To Lance Au Ag Cut To 200.0 500.0 DACITE Grey, massive, anydules prevalent un to 1 in across 4222 222 222 222 222 222 222 222 222 223 20.0 nil 1.9 670 670							1				******		
200,0 DACITE Grey, massive, anyulues prevalent up to 1 in across 4222 325 327 2.0 mit 1.9 61 670 Infilled with site-acrobate and py. Frequent 4233 360 361 1.0 mit 2.0 251 4340 Image: Comparison of the acrobate and py. Frequent 4233 360 361 1.0 mit 2.0 251 4340 Image: Comparison of the acrobate and py. Frequent 4234 438 439 1.0 mit 1.0 1.1 3.0 100 253 Image: Comparison of the acrobate and carbonate sitic actions 4294 438 439 1.0 1.1 1.0 111 3.0 100 253 Image: Comparison of the acrobate and carbonate sitic actions 4294 438 439 1.0 1.0 111 1.0 110 3300 Image: Comparison of the acrobate and carbonate and carbonate sitic acrobate with a descions 4295 460.5 #62.0 1.5 111 1.9 281 1720 Image: Comparison of the and provide acrobate with acrobate			DESCRIPTION	Sam No	ole From	n To	Length	Au oz/ton					
infilled with silled-carbonate and py Frequent 201 1.0	200.0	500.0	DACITE Grev, massive, amydules prevalent up to 1 in acros	s 42	32 32	5 327	2.0		T	61	670	[
development of braccisted sections up to 3 ft. in 4223 360 361 1.0 ni1 2.0 251 490 development. Irregularly shaped sections. 4294 433 439 1.0 ni1 3.0 100 253 development. Irregularly shaped sections. 4294 433 439 1.0 ni1 3.0 100 253 developed from cspcciality in brecciated sections. 4295 452 452 453 1.0 ni1 1.8 110 3390 conting core. Maskive. white and ky silica 4296 460.5 462.0 1.5 ni1 1.9 281 1720 silica from 322.0 10 12.2 1.5 ni1 1.9 281 1720 silica from 322.0 10 1.0 1.2 1.2 1.5 ni1 2.0 41 129 silica from 322.0 10 1.4 1.0 1.0 1.1 100 129 120 100 100 100 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>[</td>											1		[
				42	93 36	0 361	1.0	nil	2.0	251	4940	[
development. Irregularly shaped sections. 4294 438 439 1.0 n11 3.0 100 253 Abundant carbonate and carbonate-silics veinlets 4295 452 453 1.0 n11 1.8 110 3390 Accurting core, Massize, white milky silica 4295 452 453 1.0 n11 1.8 110 3390 Silica from 322.0 to 324.5 ft. Sections from 332-360 ft. ad 373-413 ft. very massive, least 4296 460.5 462.5 1.5 n11 2.0 41 129 Silica from 322.425 ft., 437-439 ft. ftractured 4297 481.0 422.5 1.5 n11 2.0 41 129 Silica from 322.425 ft., 437-439 ft. ftractured ftractured 4297 481.0 429.5 1.5 n11 2.0 41 129 Silica from 422.425 ft., 437-439 ft. ftractured ftractured 4297 421.0 4297 421.0 4297 421.0 4297 421.0 429.5 420.0 421.0 429.								1				[]	
common especially in brecciated sections. 429 425 432 433 10 330 Abundant carbonate and crobonate-silica verinets 429 425 432 432 432 1.0 nil 1.8 10 330 Silica from 322.0 to 324.5 ft. sections from 4296 460.5 462.0 1.5 nil 1.9 281 120 Silica from 322.4 to 324.5 ft. sections from 4297 431.0 482.5 1.5 nil 2.0 41 129 Silica from 322.4 to 324.5 ft. sections from 4297 431.0 482.5 1.5 nil 2.0 41 129 Silica from 322.4 to 324.5 ft. sections from 4297 431.0 482.5 1.5 nil 2.0 41 129 Silica from 322.4 to 324.5 ft. sections from 4297 431.0 482.5 1.5 nil 2.0 41 129 Silica from 322.4 to 324.5 ft. sections from 1.4 4297 431.0 482.5 1.5 11 2.0 41 129 Silica from 322.4 to 328 ft. section from 1.0 1.0					94 43	8 439	1.0	nil	3.0	100	253		
Abundant carbonate and carbonates and carbonates and carbonates and carbonates and carbonates and carbonates and carbonates and carbonate and carbonate and carbonate white milky silica 4255 452 453 1.0. nil 1.8 110 3390										1	1	t	[
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developed from 220.5 to 267 ft. and heavy white 4296 460.5 462.0 1.5 n11 1.9 281 1720 333-360 ft. and 373-413 ft. very massive, least 4297 481.0 482.5 1.5 n11 2.0 41 128 altered with only about 1% py. Core badly fractured interval rock is heavily breciated with development 2.0 41 128 interval rock is heavily breciated with development 0 0 0 1.5 1.5 1.1 2.0 41 128 of heavy chlorite and plentiful silica verinlets. 0													1
silica from 322.0 to 324.5 ft. Sections from 338-360 ft. and 373-413 ft. very massive, least 4297 481.0 482.5 1.5 nil 2.0 41 129 altered with only about 1% py. Core badly fractured fractured 1.5 nil 2.0 41 129 interval rock is heavily brecciated with development interval rock is heavily brecciated with development 1.5 nil 2.0 41 129 of heavy chlorite and plentiful silica veinlets. 1.5 nil 1.5 nil 2.0 41 129 patches av. 255 over 6 in intervals. 1.5 nil 1.5 nil 1.5 nil over entire section av about 25 but over short 1.5 nil 1.5 nil 1.5 nil intervals is massive to patchy, shorting a tendancy 1.5 nil 1.5 nil 1.5 nil intervals is massive to patchy, shorting a tendancy 1.5 nil 1.5 nil 1.5 nil intervals is massive to patchy, shorting a tendancy 1.5 nil 1.5 nil 1.5 nil intervals is massive to patchy, shorting a tendancy 1.5 nil 1.5 nil 1.5 nil intervals is massive to patchy, shorting a tendancy 1.5 nil 1.5 nil 1.5 nil intervals is massive to patchy, shorting a tendancy 1.5 nil 1.5 nil 1.5 nil intervals is massive to patchy, shorting a tendancy 1.5 nil 1.5 nil 1.5 nil intervals is massive to patchy, shorting a tendancy 1.5 nil <			developed from 263.5 to 267 ft. and heavy white	42	96 460.	5 462.0	1.5	nil	1.9	281	1720	1	
338-360 ft. and 373-413 ft. very massive, least 4297 481.0 482.5 1.5 nil 2.0 41 129 interval from 422-425 ft., 437-439 ft., 447-451 ft. in this interval interval interval interval interval sevily breciated with development. interval interval interval of heavy chlorite and plentiful silica venlets. interval interval interval sevily in places. Py heavily developed in interval interval interval sassive to patchy, shoring a tendancy interval interval interval is massive to patchy, shoring a tendancy interval interval interval is massive to patchy, shoring a tendancy interval interval interval is massive to patchy, shoring a tendancy interval interval interval is massive to patchy, shoring a tendancy interval interval interval is massive to patchy, shoring a tendancy interval interval interval is massive to patchy, shoring a tendancy interval interval interval is massive to patchy, shoring a tendancy interval interval interval is massive to patchy, shoring a tendancy interval interval interval is massive to patchy, shoring a tendancy			silica from 322.0 to 324.5 ft. Sections from						1				ļ l
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from 422-425 ft., 437-439 ft., 447-451 ft. In this interval rock is heavily brecitated with development of heavy chlorite and plentful silica veinlets. Core rusty in places. Py heavily developed in patches av. 25% over 6 in intervals. Py disseminated over entire section av about 2% but over short interval is is massive to patchy, showing a tendancy carbonate alteration coupled with breccitation. Py carbonate alteration coupled with breccitation. Py occurs disseminated through entire section but is carbonate alteration coupled with breccitation. Py data ft5%, 204.5-286 ft5%, 297-298 ft5%, 246.5-248 ft5%, 204.5-280 ft5%, 297-298 ft5%, att development of silica and carbonate veinlets in no amydaloidal section, 412.5-424.5 2-3% py in no amydaloidal section, 412.5-424.5 2-3% py in an advier sericition secolated with development of silica and carbonate veinlets with fracturing, 25% py new 412.5 ft. and and as heavy patchy disseminations associated with heavy section near 482 ft. 500.0 END OF Hole.									· · · ·		<u> </u>		
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of heavy chlorite and plentiful silica veinlets.					_			1					
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patches av. 25% over 6 in intervals. Py disseminated			Core rusty in places. Py heavily developed in							1			1
over entire section av about 2% but over short intervals is massive to patchy, showing a tendancy to be heavier where rock shows intense chlorite- carbonate alteration coupled with brecciation. Py occurs disseminated through entire section but is intervals 2000 heavier in the following intervals 227-228 ft-5%, intervals 227-228 ft-5%, 266.5-248 ft-5%, 286 ft-5%, 287 5ft-5%, intervals 227-228 ft-5%, 266.5-248 ft-5%, 286 ft-5%, 287 5ft-5%, intervals 227-228 ft-5%, in on anyoquologial section. 412.5-285 ft5%, intervals 227 ft-5%, in on anyoquologial section. 412.5-424.5 2-38 py intervals 227 ft5%, in non anyoquologial section. 412.5-424.5 2-38 py intervals 25-327 ft5%, in section of heavier sericitization associated intervals 25 ft. and with fracturing, 25% py near 412.5 ft. and intervals 25 ft. and in section of heavier sericitization associated intervals 25 ft. and with fracturing, 25% py near 412.5 ft. and intervals 25 ft. and in section of heavier sericitization associated intervals 25 ft. and with slica veinlets and patches, 481-483 ft5% intervals 25 ft. and with heavy section near 482 ft. intervals 25 ft. and S00.0 END OF HOLE. intervals 25 ft. and with heavy section near 482 ft. intervals 25 ft. and with heavy section near 482 ft. i			patches av. 25% over 6 in intervals. Py disseminat	ted				1					1
intervals is massive to patchy, showing a tendancy intervals is massive to patchy, showing a tendancy to be heavier where rock shows intense chlorite- carbonate alteration coupled with brecciation. Py occurs disseminated through entire section but is is heavier in the following intervals 227-228 ft5%, intervals 227 ft5%, 246.5-248 ft5%, 284.5-285 ft5%, 297-298 ft-5%, intervals 227 ft5%, in non amydaloidal section, 412.5-424.5 2-3% py in section of heavier sericitization associated with development of silic and carbonate veinlets in section of heavier sericitization associated with fracturing, 25% py near 412.5 ft. and in section of heavier sericitization associated with fracturing, 25% py near 412.5 ft. and in and as heavy patchy disseminations associated with silica veinlets and patches, 481-483 ft5% in with heavy section near 482 ft. 500.0 END OF HOLE. in NR. Ryall/			over entire section av about 2% but over short				-	1					1
to be heavier where rock shows intense chlorite- carbonate alteration coupled with brecciation. Py				/			-		1				
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heavier in the following intervals 227-228 ft5%, 246.5-248 ft5%, 284.5-285 ft5%, 297-298 ft-5%,		· · ·	carbonate alteration coupled with brecciation. Py				· ·		1	1			1
246.5-248 ft5%, 284.5-285 ft5%, 297-298 ft-5%, 325-327 ft5%, 360-366 ft5-10%, associated with development of silica and carbonate veinlets 1 in non amygdaloidal section, 412.5-424.5 2-3% py 1 in section of heavier sericitization associated 1 with fracturing, 25% py near 412.5 ft. and 1 438-439 ft. 450-462 ft 5% as amygdule fillings 1 and as heavy patchy disseminations associated 1 with silica veinlets and patches, 481-483 ft5% 1 with heavy section near 482 ft. 1 .500.0 END OF HOLE. 1 With Ray Section near 482 ft. 1	<u></u>		occurs disseminated through entire section but is		.								[
325-327 ft5%, 360-366 ft:-5-10%, associated		· ·		,		-							[
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DIAMOND DRILL RECORD

Hole No. 7X-102-73

Hole No.	D H I O I O			<u>500 ft.</u>		Commenced a	8 April 1973		Dip	: Collar	-45°				Location	Sketch	Nort	h	
Property	Ben Nevis	Grid 3 B	Bearing			ovinpicica .	24 April 1973			1 77 .			-				л Ņ		
Township	Ben Nevis		Dip	-45°			Continental D.D.		Etc	h Test	Depth	Rdg.	Tr	ue		୍			
Location	L45+50S 11+00W		Objective		· · · · · · · · · · · · · · · · · · ·	0010 0400 0	3.Q.												
	W.R. Ryall					Casing Left in	Hole				•••••••••••••••••••••••••••••••••••								
	on Timmin					-			·····-								Claim	No. L28	0648
Core Locatio		3 VITICE		**************************************							••••••••••••••••••••••••••••••••••••••		·····				Sealer	1'' = 100	\ 0 ?
D l																	Scale:	1 = 100	
Remarks .					********	*****	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·						L_		•			
Foo	otage			DES	CRIPT	TON				Sample	From	To	Tanath	Au	Ag	Cu	Zn	Pb	
From	To	· .		<u> </u>			· · · · · · · · · · · · · · · · · · ·			No.	From	10	Length	oz.	ppm	ppm	ppm	ppm	
				·															
0.0	11.0	OVERBURDEN	-	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·												
11.0	- CO F		45 N 7 A 1	0			J			1500	00.0			00					
11.0	62.5	DACITE FRAGM	IENTAL	Dark gre	ey, massive	, mod. naro	d, abundant chlor	ite		1509	26.0	27.5	1.5	.02	3.1	111	5400		
							with latter common			1510	35.3	36.2	0.9		4.9	172	534		
	-						rock. Less fragment ca infilled amygdu		-	1510	35.5	_30.2	0.5		4.3	172			
<u></u>	+	·····					.25-0.5 ins. Frequ		V	1511	39.0	40.0	1.0		2.5	64	3430	·	[
							f amygdules. Fragm					- 40.0	1.0		2.5	04	3430		
	· · · · · · · · · · · · · · · · · · ·	· · · ·					than groundmass ar			1512	40.0	45.0	5.0		0.9	44	364		
	-		·				in across. Core	<u> </u>											
	1 1			fracture	ed and rust	y 29-30 ft	and 34-35 ft. Mas	ssive		1513	55.0	60.0	5.0		1.1	45	345		
				white ca	rbonate ve	in from 35	.5 to 36.5 ft. cor	ntain	S										
							s contain 2-15% py			1514	60.0	62.5	2.5		0.9	38	383		
			18				ction 60-61.5 ft.								1		· ·		<u> </u>
				streakii	<u>ng subparal</u>	lel weak fo	oliation 45 to 60°	° to	C.A	•									
																			[
62.5	83.0	DACITE					ard, abundant amy			1501	63.6	65.0	1.4	nil	2.6	98	820	44	
							<u>te carbonate av O</u> .												
			······································				and fragmental 76-		<u>t.</u>	1502	65.0	66.0	1.0	.01	14.1	1300	24300	228	
	<u></u>						e(?) and carbonate		<u> </u>										L
	++						nate veinlets some Heavy py with cr			1503	66.0	67.0	1.0	nil	10.5	970	22400	154	ļ
		· · · · · · · · · · · · · · · · · · ·						1504	67.0	67.0	. 0 0	02	17 0	7000	7000	100			
							dational contact				67.0	67.9	0.9	.03	17.0	7600	7900	482	<u> </u>
				DETUW LI		· rusty and	a in places inded	<u>neu</u>	1001	1505	67 0	69.0	2.0	.01	45.0	9300	8300	600	
			·····								0, 10			•••	13.0		0000		
				···· <u>·</u> <u>·</u>	· · · · · · · · · · · · · · · · · · ·										· · · · ·			· ·	
	1 1									-				· · · ·					
	1 1	······································						•							1				<u> </u>

AMAX EXPLORATION, INC. DIAMOND DRILL RECORD

Foota:	·····											1 DL I	
	To		DESCRIPTION	Sample No.	From	To	Length	AU	Ag ppm	Cu ppm	Zn ppm	Pb ppm	i
1		······································		1506	69.3	70.5	1.2	.01	92.0		54600	1820	
~				1500	09.5	/0.5	1.6	-01	92.0	3390	54000	1020	
~				1507	70 5	71.5	1.0	nil	10.9	494	7600	360	
·····				1307	70.5	/1.5	1.0	11 1 1	10.9	494	7000	- 300	
~		· · · · · · · · · · · · · · · · · · ·		1508	71 5	72.5	1.0		57.0	2490	53100	2040	
				1300		12.5	1.0		57.0	2400	133100	2040	
				1515	72.5	75.0	2.5		2.3	83	2350		
				1313	12.5	15.0			2.5	05	2330		·
	·			1516	75.0	80.0	5.0		2.8	94	1750		
	<u> </u>			1510	75.0	00.0	5.0		2.0		1/30		
				1517	80.0	83.0	3.0		1.5	50	324		·
	-			1317	00.0	05.0	5.0		1.5	50	524		
		· · · · · · · · · · · · · · · · · · ·								·			·
83.0	199.0	DACITE	Meddark grey, massive, mod. soft, altered feldspar	1518	90.0	95.0	5.0		1.2	57	113		
		DITOTTE	phenocrysts 0.1 to 0.25 in set in a dark grey	1510	30.0	95.0	5.0		1.2	5/	115		·
			chloritized and carbonatized groundmass. Few thin	1519	100.0	105 0	F 0				1 2 2		
			streaky carbonate veinlets but striking absence of	1519	100.0	105.0	5.0		1.1	20	133		
			amygdules. Massive white carbonate 122-123 ft,	1520	101 5	100 5	1.0			1040	774		
		· · · · · · · · · · · · · · · · · · ·	136.5 to 139 ft. contain weak py and enclose angular	1520	121.5	122.5	1.0		3.5	1840	114		
			fragments of host rock. Core fractured 143-146 ft.	1521	126 5	100 0	2 5			7.0	100		
			and 148.5 to 150 ft. Py gen present as finely diss	1521	130.5	139.0	2.5		2.5	14	100		·
			form av 1.t. 1% but in intervals 172.5-173.5 ft.,	1522	155 0	160.0	5.0		7 4	10	270		· · ·
			177-178.5 ft., 198-199 ft. heavier py to 10%	1522	155.0	100.0	5.0		1.4	49	370		·
<u> </u>			associated with carbonate veins and chlorite-rich	1523	167 5	168.5	1.0		1.9	128	780		
			sections.	1525	107.5	100.5	1.0		1.9	120	100		
		· · · · · · · · · · · · · · · · · · ·		1524	172 0	173.8	1.8		1.1	69	105		, <u></u>
		· · · · · · · · · · · · · · · · · · ·		1524	176.0		0		L + L		105		·
				1525	177 5	178.5	1.0		0.6	28	94		
215.0	225.8	DACITE	Med. grey, med. grained few amygdules and carbonate	152.5	1//.5	1/0.5			0.0		94		
			veins. Brecciated at 220 ft. with heavy dark green	· ·									·
			chlorite. Weak diss. py throughout av 1-2%.			<u> </u>			1		t		
			cinorice. Mean urss. by cirroughout av 1-2%,								 		
225.8	233.0	DACITE BRECCIA	Med. grey colour comp. of dacite fragments 0.25 to										·
		BROITE BREODIN	0.50 in set in leucocratic, carbonate rich matrix.									· · · ·	
		. •	Soft due to extensive chlorite alteration of				·		<u></u> }		 		·
			fragments. Py sparse.		<u> </u>					· · · · · · · · · · · · · · · · · · ·	<u> </u>		·
			IT aguicito. Fy sparse.	1									
233.0	240.0	DACITE	As four motion of a contract for	1							<u>+</u>		
			As for section 215.0-255.8 ft.	1						· · · · · · · · · · · · · · · · · · ·	<u> </u>		·
							· · · · ·		-		<u> </u>	i	
		· · ·				·····	-						

DIAMOND DRILL RECORD

Hole No. TX-102-73 Sheet No.3

Foota From	uge To		DESCRIPTION	Sample No.	From	То	Length	Au	Ag ppm	Cu ppm	Zn ppm	Pb ppm	
From	10		······································				<u> </u>	02					
240.0	241.5	DACITE BRECCIA	As for section 225.8-233.0 ft. 10% py 240-241 ft.	1527	240.0	241.0	1.0		2.8	449	329		
241.5	278.0	DACITE	Med. grey, massive, fine grained, few amygdules infilled with quartz-feldspar-chlorite. Absence of carbonate veins. From 271.4-272.4 ft. 5% py in carbonate.	1528	271.4	272.4	1.0		1.7	40	278		
278.0	285.0	DACITE BRECCIA	As for section 225.8-233.0 ft.	1529	280.0	281.0	1.0		2.3	47	126		
285.0	291.0	DACITE	As for section 215.0-225.8 ft.				ļ	<u> </u>					
291.0	296.5	DACITE BRECCIA	As for section 225.8-233.0 ft.		•								
296.5	297.5	DACITE	As for section 215.0-225.8 ft.										
297.5	301.5	DACITE BRECCIA	As for section 225.8-233.0 ft.										
301.5	325.0	DACITE	As for section 215.0-225.8 ft.										
325.0	330.0	DACITE BRECCIA	Generally as for section 225.8-233.0 ft. but increasing number of carbonate veinlets and streaks. Fragments heavily sericitized in chlorite- rich groundmass. Py av. 1-2% but in interval 328-330 ft. av. 5%.										
330.0	363.0	DACITE	Med. grey, massive, fine grained chloritized	1530	333.0	335.0	2.0		2.1	41	166		
			groundmass hosting amygdules infilled with feldspar- carbonate and rare py. Py av. 2% but heavier in carbonate-rich sections. Sections at right contain	1531	338.5	340.0	1.5		4.3	192	320		
			5-10% py with sparse sphal.	1532	341.0	342.1	1.0		4.1	294	130		
				1533	345.9	346.9	1.0		3.1	95	262		
				1534	348.0	348.6	0.6		5.4	179	96		
				•									
									· · ·				

AMAX EXPLORATION, INC. DIAMOND DRILL RECORD

Hole No. TX-102-73 Sheet No. 4

Foots				1	1 -	1	1		1.00	<u> </u>	7.	Pb	1
From	To	. •	DESCRIPTION	Sample No.	From	То	Length	Au	Ag ppm	Cu ppm	Zn ppm	ppm	1
			······································					07.					
363.0	380.0	DACITE	Med. grey more plentiful amygdules, mod. soft due	1535	370 (372.5	2.5		5.1	101	74		
			Med. grey, more plentiful amygdules, mod. soft due to chlorite alteration of groundmass. Py av 2%.	1.333	+ 3/0.1	1 0/2.0			1				
				1536	375.0	377.5	2.5		1.8	69	193	<u> </u>	
			· · · · · · · · · · · · · · · · · · ·										
	415.5	DACITE	Grey, fine grained, amygdaloidal but less so than	1537	400.0	0 402.0	2.0		3.6	39	85		
			<u>above section, abundant thin carbonate veinlets</u>	_									
			av 45° to C.A., brecciated in part, crude foliation	1538	403.0	0 404.5	1.5		4.7	41	84	ļ!	
			about 60° to C.A.	17520-	10						ļ	ļ/	l
				1539	410.0	0 412.0	2.0	ļ	3.1	66	76	ļļ	
				11540	410			_	+ , ,			<u> </u>	ļ
		·		1540	412.0	0 413.0	1.5		1.9	64	175		
415.5	466.0	DACITE	Darkery grey, med. grained, massive, approx. equal	+								<u> </u>	·
		DROTTE	amount altered feldspar and ferromagnesian mineral									}	
		· · · ·	set in a fine grained chloritized groundmass		<u> </u>	1						<u></u>	
			Py sparse av 1 1.t. 1%.	1									l
				1		1	1						
466.0	473.0	DACITE FRAGMENTAL	Med. grey, fairly massive, irregularly defined	1541	466.0	467.0	1.0		5.1	296	2700		
			fragments up to 2 in set in chlorite rich										
		and a second second second second second second second second second second second second second second second	groundmass. Py av. 10% but to 30% from 467-470.	1542	467.0	469.0	2.0		3.2	92	810	150	
	<u> </u>		Massive py with sphal and gel 469-470 ft.										L
				1543	469.0	9 470.0	2.0		16.6	1670	34600	15000	
				11544	470	170 5	0.0		1	10	1420	110	
				1544	4/0.:	5 472.5	2.0		2.1	48	1430	110	
473.0	500.0	DACITE	As for section from 363-380 ft.	1545	478	480.0	2.0		4.5	600	5220	2980	
		UTION 12	15% py 475.7 to 480 ft. containing sphal and gal.	1070		1 +00.0	<u> </u>		+			2300	t
		<u></u>		1546	475.	7 478.0	2.3		6.5	519	2330	1440	
											1		
	500.0	END OF HOLE.				1							
		·									ļ	ļ	I
					Í				<u> </u>		['	ļ]	
			<i>L L L D D D D D D D D D D</i>		·	<u> </u>			· · · · ·		<u> </u> ']	ļ'
		·	wokyall			+						┠┚	
			W.R. Ryall.	-							<u></u>	<u> </u>	
		· · · · · · · · · · · · · · · · · · ·	M.N. Nyally.		<u> </u>								
					+	-	 					╂────┤	
		• • • • • • • • • • • • • • • • • • •		· ·			-					 	
	······································			1		<u>†</u>	1		1		<u> </u>		!
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AMAX EXPLORATION, INC.

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DIAMOND DRILL RECORD

Hole No. TX-103-73

Hole No	TX-103-73	Sheet 1	Length	400 ft. 270°		oonnicheeu	27 April 1973 28 April 1973		Dip: Collar		15°		. 1	Location	Sketch	North	1	
Property .	Canagau O	peron	Bearing	-45°		Completed	20 April 1975		Etal Deat	Denth	D .	m				1 ^		
Township .	Ben Nevis		. Dip	-40		Drilling Co.	Continental D.D.	·	Etch Test	Depth	Rdg	. True				1		
Location .	L26+00S		. Objective			Core Size							-					
	7+50E W.R. R	vall	-			Casing Left i	in Hole <u>nil</u>						-				112	2782
Logged By	n Timmin	o Offico	-										-			Claim	No	_/02
Core Locatio	n <u>[[]]]</u>	S UTTICE				•	••••••••••••••••••••••••••••••••••••						-			Scale	1" = 100	07
								. –						~		Deale.	1 100	0
Remarks		***********					· · · · · · · · · · · · · · · · · · ·							<u> </u>		J		
		***************************************	********										-					
Foo	tage	an Birlin Carpella Bartin the State and an annual annual annual annual annual annual annual annual annual annua		·					Samp	le			<u> </u>	Cu	Zn	Ag		1
From	To			D	ESCRIP	TION			No.		To	Length	1	DDW	ppm	ppm		
0.0	7.0	OVER	RBURDEN				· · · ·											
							•											
7.0	10.0	RHYC	DLITE	·			nard, siliceous			7.0	7.3	0.3		88	5500	7.7		
					fine grained	d, incip	pient sericitizat	tion. Py										
		-			rare - top 3	<u>3" of secti</u>	on contains 5% of	liss. py	•									
		51112																
10.0	25.0	RHY	OLITE FRA	GMENTAL			rey, consists of		,		ļ							
							ed RHYOLITE frage			+								
·							oured siliceous of		156) 11.0	12.0	1.0		30	650	2.6		
							veinlets and in				ļ	-						
		. ·					reaks. Fragments				<u> </u>							
		· · · · · · · · · · · · · · · · · · ·					ricitized. Py av				<u> </u>							
							2 ft. 5% py with							171	000			· · · · ·
		•					to 17.5 ft. av		156	1 16.5	17.5	1.0		171	880	10.6		
			· · · · · · · · · · · · · · · · · · ·		with 2in mass	sive section	on, 23 to 24 ft.	av 5% p	y.									ļ
	34.0	DUV		DUVDV	Deale mark f		1				<u> </u>	· · ·	[
25.0	34.0	KHT	OLITE POR	CPHIRI			d groundmass hos			·	_	ļ						
	· · ·						crysts up to 0.1				_							
	 						oundant chlorite					<u>├</u>						
					rusty patch		iteration. Py spe	arse but										
	<u> </u>	••••••••••••••••••••••••••••••••••••			rusty patch	di 29 11.				-		<u> </u>						<u> -</u>
3 4.0	72.0	DUV	DLITE		light grov	to aroon av	rey massive, har	d cilic	00115		<u> </u>	<u>├</u> ──						
	12.0						ive sericite alt		cous		+	<u> </u>						<u> </u>
			····· • • • • • • • • • • • • • • • • •	,,	common to 4	2.5 ft when	re rock becomes	larker						-				<u> </u>
							ase in chlorite				+							<u> </u>
							out occurs to 5%				1							
		·		· · · · · · · · · · · · · · · · · · ·	veinlets at	44 ft.					+							<u>↓</u>
•	+				Tennets de		·····	<u></u>			1	i						<u> </u>
							· · · · · · · · · · · · · · · · · · ·				1							1
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AMAX EXPLORATION, INC. DIAMOND DRILL RECORD

Hole No. TX-103-73 Sheet No. 2

Footag	ze To	DE	SCRIPTION	Sample No.	From	То	Length		Cu	Zn ppm	Ag ppm	
rom			Comment of light groop angular siling a			<u> </u>			ppm			
72.0	87.0	RHYOLITE FRAGMENTAL	Composed of light green angular siliceous	ļ		ļ					ll-	
			fragments to 3 in set in a fine grained softer	· · · · · ·								
			groundmass which is heavily sericitized at top				ļ					
		· · · · · · · · · · · · · · · · · · ·	of section but less so to base. Spotty chlorite					ļ				
			present throughout but shows greater development			<u> </u>						
		·	over lower 4 ft. where rock is more massive.					l				
		· · · · · · · · · · · · · · · · · · ·	Py_sparse	<u> </u>		ļ				·		
				<u> </u>		<u> </u>						
87.0	114.0	RHYOLITE	Light grey to dark grey according to chlorite	ļ							ļ	
	· · · · · · · · · · · · · · · · · · ·		content. Lighter sections contain heavier	<u> </u>								
			sericitic alteration in which frequent chlorite	<u> </u>								
			spots give rock mottled appearance. Rock is									
		· · · · · · · · · · · · · · · · · · ·	massive, fine grained, fairly hard where									
			unaltered. Occassional siliceous veinlet at high			ļ						
			angle to C.A. Sulphides sparse, weak diss. py									
			av 1.t. 1% but from 92.5-93.0 ft cpy and py	1562	92.5	93.0	0.5		21600	2960	10.4	
			occur. At 92.5 ft 0.5 in seam massive cpy and									
			from 92.5-93.0 ft cpy and py occur in late stage	1								
		, , , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	chlorite-carbonate veinlets.	<u> </u>		<u> </u>						
				+		 					<u> </u>	
114.0	315.5	DACITE	Med. to dark green grey, generally massive,									
			mod hard. Consists of ragged altered feldspar			<u> </u>						
			phenocrysts av 0.1 in set in fine-med. grained	<u> </u>	·	<u> </u>	_	· · · ·			1	
			chloritized groundmass. Some sections non	<u> </u>	· · · · · · · · · · · · · · · · · · ·						 	
	· · · · · · · · · · · · · · · · · · ·		porphyritic but grade into porphyritic sections	+							<u>├────</u>	·
			over a few feet. Numerous siliceous veinlets	1563	248 0	249.0	1.0	<u> </u>	149	56	1.7	·
_			cross cutting at angles ranging from 40° to 75°	1303	240.0	-2+2.0	1.0			- 30	<u> </u>	
		<u></u>		564	260 0	270.0	1.0		27	48	1.8	
				1504	209.0	2/0.0	1.0			40	1.0	
			4 in. Frequently these veins enclose host rock	+		ļ						
			fragments and py concentrations eg. from	+	 			<u> </u>				
1			248-249 ft 3% py, 269-270 ft. 3% py - elsewhere	·			 				<u> </u>	
		·	py is developed as isolated cubic crystals and			ļ					 	
				1 .	1							Ì
			as irregular disseminations over most of unit	<u> </u>	ļ							
			as irregular disseminations over most of unit but av about 1%.									· ·
	·											
	· · · · · · · · · · · · · · · · · · ·											
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DIAMOND DRILL RECORD

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Hole No. <u>TX-103-73</u> Sheet No. <u>3</u>

				Ш		•			:	Sheet No.	3		
Foota From	nge		DESCRIPTION	Sample No.	From	To	Length		Cu ppm	Zn	Ag ppm		
315.5	400.0	RHYOLITE	Light greenish grey, porphyritic in part with				<u> </u>	<u> </u>					
		KIIULIIL	altered ragged feldspar phenocrysts set in a f	ind	<u> </u>					+			
			grained sericitized groundmass. Patchy sericit		+		<u> </u>			┼───			
			development. Frequently chlorite patches prese		-{				<u> </u>	+			
~		· · · · · · · · · · · · · · · · · · ·	in groundmass. Numerous silica veinlets										
			crosscutting core generally at about 40 to 75°					<u> </u>		+			
			to C.A. Av width 0.1 to 0.5 in but from 365 t		1					1			
		······································	371 ft coarsely crystalline silica forms 90 o					1	1	1	1		
			and is fractured throughout, but most heavily		1	1	[f	1	1	1		
			from 365 to 366 ft, 366.5 to 367 ft and 369 to	1565	371.0	373.0	2.0		458	121	7.6		
			371 ft. Pock fragments are common in this vein		1	10/010			1	1			
			which is rusty from 367.5 to 370 ft, though no		376.0	377.5	1.5		228	137	4.8		
			sulphides are present. Chlorite common in vein			1	1			1	1		
			over most of the section py is present to abou		383.0	384.0	1.0		670	134	2.3		
			1% with up to 5% present over 1 to 3 inches.				1		1		1		
			From 371 to 373 ft py av 10%, 376-377.5 ft	1568	391.5	392.0	0.5		47	81	1.4		
			av 5%. In these sections heavy sericite is						1	1	1		
			present and rock is soft. From 383-384 ft		1		1		1	1	{·······	·	
			heavy chlorite gives rock a dark grey colour		1				1	1			
			and assoc with thin carbonate veinlets rare di	SS							1		
			cpy.									-	
		· · · · · · · · · · · · · · · · · · ·											
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			W.R. Ryall.//		+	+		 					
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DIAMOND DRILL RECORD

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Hole No. TX-104-73

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Hole No	TX-104-73	Sheet 1	Length	453 ft.		Commenced	1 May 73		Dip: Co	ollar	-45°				Location	Sketch	Nort	h	
. ropercy .	Canagau Or	otion	Bearing	270°		. Completed	3 May 73			_							n v		
township	Ben Nevis L6+25S		Dip	-45°		Drilling Co.	Continenta		Etch Te	est	Depth	Rdg.	. Tru	26					
Location .	1+50E		Objective		······································	Core Size	BQ												
		1				. Casing Left i	in Hole	·····										110	200
Logged By '	W.R. Ryal			<u>411-1-1111-1-1-11111-1-1-1-1-1-1-1-1-1-</u>		-		······						-+Ð			Claim	No. 1162	200
Core Locatio	m <u>Timmins</u>	s UTTICE				-											Gaulter	177 107	
		·]-									Scale:	1" = 100	Ю.
Remarks														L_			J		
								······											
Foo	tage	· · · · · · · · · · · · · · · · · · ·							19	Sample				Cu	Zn	Pb	Ag		1
From	To			D	ESCRIP	TION				No.	From	То	Length	nda		ppm	DDM	i i	
0.0		OVERBU	URDEN	· · · ·										- PPm		<u>PP</u>	E_::::		<u> </u>
	1						•								1			[1
13.0	41.5	DACIT	E FRAGME	NTAL	Med grey, fai	irly massiv	e but crude	foliation											
					at about 60°	to C.A. ne	ar collar de	fined by										•	
					fragment elor				g										
					in groundmass														
					lighter colou	ir than chl	orite-rich g	roundmass.		1547	35.5	36.5	1.0	127	4510	304	2.7		
					Fragmented se														
				<u></u> i	Py av 1-2% ov					1548	37.5	38.5	1.0	114	3490	442	3.4	L'	
					36.5 ft., 37.				s									!	
					10%. Near 38	ft. occurs	patch 0.75	<u>in across</u>									-		
		· · · · · · · · · · · · · · · · · · ·	` .		massive sphal		cpy. At 46	<u>ft. sphal i</u>	s						L			L'	
	·				assoc. with p	by.									<u> </u>			!	
				·····			· · · · · · · · · · · · · · · · · · ·								ļ			Ļ'	L
41.5	195.0	DACITI	<u>E</u>		Med dark g	rey, gener	<u>ally massive</u>	<u>but</u>					·						
		·			brecciated se														
	· · · ·				porphyritic v									·	ļ			L	
			-		fine grained										<u> </u>			ļ	<u> </u>
					Fragmental se										ļ				
	4			· .	dacite_enclos											ļ			
				<u> </u>	matrix. The														<u> </u>
					being prevale											· · · · ·		'	L
					occurs through										ļ	ļ		<u> </u>	L
		•			core near 67.					· ·					· · ·	ļ		<u> </u>	ļ
			· · · · · · · · · · · · · · · · · · ·		av. 10% py at				<u>x.</u>				·		<u> </u>	<u> </u>		 	
					<u>1 in x 0.75 x</u>	x U.5 1n [1	<u>nea w. Zn an</u>	ia/or py	<u> </u>						 		·	<u> </u>	Į
					carbonate.			<u></u>										<u> </u>	
				· .	· · ·		······································							-	 	<u> </u>		<u> </u>	<u> </u>
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	4 1								1				i		1 Contraction	1	t j	1	1

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DIAMOND DRILL RECORD

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Hole No. TX-104-73 Sheet No.2

								•	5	heet No.	-	******
Foota From	ge To		DESCRIPTION	Sample No.	From	To	Length	Cu	Zn ppm	Pb nom	Ag ppm	
			crystals. Lighter coloured sections, particular	1 v		1	1	1 1/1/11	1 10100	1 1.1	- Prine	
~			below about 140 ft. show development of sericite	1549	132	0 133.0	1 1 0	236	6800	520	4.2	
			and contain heaviest py - 132-133 ft 10% py,		102.1		1		0000	520	706	
~			as coarse disseminated crystals to 1/8 in. acros	s	1				1		[
			and finely crystalline massive py in carbonate		1	1	1	· ·	1			
			veinlets. 2 in band massive gal. cpy and sphal a	t	1		<u> </u>	1	1			
		· · · ·	190 ft. Crude foliation at about 45° to C.A.		1	1			1			
			defined near and of section by lighter bands.			1		1				
					1		1		1			
195.0	302.0	RHYOLITE	Light grey, massive, even grained, med. soft due					1				
		· · · · · · · · · · · · · · · · · · ·	to abundant sericite development. Some chlorite-									
		· · · · · · · · · · · · · · · · · · ·	rich streaking which is better developed in									
		<u>.</u>	latter half of section. Py weakly diss to l.t. 1	%								
		·	to 225 ft. when it reaches 1% and rare patches o	f						:		
			cpy and sphal occur diss through rock to about	1550	244.0	245.0	1.0	203	10500	1640	3.3	
			240 ft. Few x-cutting carbonate veinlets throug	h				1	1			
			section. Py incr. from 240 ft. and av 10% from	1551	274.0	275.5	1.5	1160	1330	22600	27.3	
			244-246 ft, 20% py with gal. and sphal. 274-275.					T				
	-		ft, 288-289 ft. av. 5% diss py - py associated		277.5	280.0	2.5	600	3120	3680	5.3	
	·		with sphal, 289-290 ft. massive sphal-gal with									
			minor cpy, 294-5 ft av 5% py with minor sphal.	1553	289.0	290.0	1.0	1200	45200	68000	41.3	
	· · · · · · · · · · · · · · · · · · ·						<u> </u>	<u> </u>		·		
			Fractured core at 212 and 221 ft. Persistent	1554	294.0	295.0	1.0	86	680	1100	1.4	
			fractures at 60° to C.A. near 232 ft.			<u> </u>			<u> </u>			
								<u> </u>				
302.0	329.0	DACITE PORPHYRY	Light grey, massive, white feldspar phenocrysts		· ·	L	<u> </u>		<u></u>			
			av 0.2 in across but largest to 1 in set in a									· .
		· · ·	fine grained chloritized and sericitized ground-				L	<u> .</u>		·		
	-	· · · · · · · · · · · · · · · · · · ·	mass. Grades into unit described below by		307.5	309.0	1.5	304	9300	8600	8.3	
			dimunition of phenocrysts. Py common through sec		ļ.		1	ļ	<u> </u>			
			av 2% but in several sections reaches 10%. From		324.0	325.0	1.0	680	18200	2820	10.1	
	· ·		307.5 to 309 ft. 10% py with 5% comb gal and sph	<u>a] </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>			
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DIAMOND DRILL RECORD

Hole No. <u>TX-104-73</u> Sheet No. <u>3</u>

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Foota	age To		DESCRIPTION	Sample No.	From	То	Length	Cu ppm	Zn ppm	Pb ppm	Ag ppm		
						1	<u> </u>						<u> </u>
329.0	412.0	DACITE	Med. grey, massive, poor foliation due to		┨────	<u> </u>							
	412.0	DAGITE	mineral streaking at 50-60° to C.A. near top of	1557	353 0	355.0	2.0	111	7400	3400	6.7		
		· · · · · · · · · · · · · · · · · · ·	section porphyritic over intervals 335-340 ft.	1337	333.0	333.0	2.0	144	1/400	1 3400	0./	<u> </u>	
~			342-365 ft., $395-412$ ft. with feldspar to 0.3 in										+
			Some amygdules infilled with quartz-feldspathic	-	+				· [· · · · · ·	+			
~		······································	material carbonate and py Groundmass mottled				1						
			material carbonate and py. Groundmass mottled with dark chlorite-rich spots. Py av 2% with rare patches av 10-15% over 1-2 in. av 5% py	_									
			rare patches av 10-15% over 1-2 in. av 5% py										
			348-350 ft., 368-370 ft. Fragmental 349-350 ft.			<u> </u>						L	
			·			<u> </u>					<u> </u>	<u> </u>	
412.0	450.5	DACITE	Light grey, massive, unfoliated and non		<u> </u>	-	<u> </u>		<u> </u>	<u> </u>	L		
	·		porphyritic, abundant sericite alteration with patchy chlorite.					ļ	<u> </u>				
			patchy chlorite.		ļ		<u> </u>		<u> </u>	ļ	ļ	ļ	
										_			
450.5	453.0	DACITE FRAGMENTAL	Med. grey, massive, light coloured fragments to				L	<u> </u>					L
		·	2 in set in a fine grained sericitized and		ļ	1		l			L		
			chloritized groundmass.				L						
	450.0						ļ	 					
	453.0	END OF HOLE.				<u></u>		ļ					
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DIAMOND DRILL RECORD

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Hole No. 1X-105-73

Hole No Property	TX-105-73 Ben Nevis	Sheet 1 Length 300 Bearing 135°	ft. Commenced 7 May 1973 Completed 8 May 1973	Dip:	Collar	-4	5°			Location	1 Sketch	North	· · · · · · · · · · · · · · · · · · ·	
Township Location	Ben Nevis 45+10S, 1	Dip -45° 1+30W Objective	Completed Continental D.D. Drilling Co. Continental D.D. Core Size BQ Casing Left in Hole	Etch	Test	Depth	Rdg	;. Tr	ue		· Q			
Logged By	W.R. Rya m_Timmins			-								Claim 1	No. <u>L280</u>)648
					i							Scale:	l" = 100	0'
Remarks _									L			J		
Foo	tage				Sample	1		1	I Ag	Cu	<u> </u> Zn			<u> </u>
From	То		DESCRIPTION		No.	From	То	Length	ppm	ppm	ppm			l
0.0	7.0	OVERBURDEN												
7.0	05.0	DACITE	Mad avoir magning mad have fing guningd			 								
7.0	85.0	DACITE	Med grey, massive, mod hard, fine grained, porphyritic in part with altered feldspar	<u> </u>		+				·				
	+		phenocrysts av 0.1 in. Amygdaloidal in part w	vith					†					
• •••• •••			amygdules ranging from 0.1 to 0.5 in infilled			<u> </u>		+	1					· · · ·
	+	<u> </u>	fine grained carbonate. Numerous thin fine gr					1						
			silica veinlets cutting core at high angles.											
			is brecciated in part and contains lighter										·	
			coloured fragments near 65 ft.											
				·	L				1					
85.0	100.0	DACITE	Dark grey, even grained, mod hard, massive,		L					<u>.</u>				L
	ļ		absence of fragments and only few amygdules.		ļ	ļ								L
			crosscutting silica veinlets except at 92.5 f	ft	ļ	ļ		_	ļ					<u> </u>
			where 4 in carbonate vein occurs. Py occurs		ļ			ļ	ļ					L
			throughout as coarse diss cubes that make up	F 64	· · ·				ļ	·				L
			about 2% of unit. Fragmental over 6 in at 99.	.5 TT.		ļ		<u> </u>	<u> </u> .					I
100.0	117.0	DACITE FRAGMENTAL	Dark grey, massive, med hard. Consists of lig						{					l
100.0	117.0	DACITE FRAGMENTAL	coloured, angular fragments from 0.2 to 3 in	<u>jiic</u>		<u> </u>			<u> </u>					
			across set in a fine grained chloritized and		<u> </u>	<u> </u>								
			carbonatized groundmass. Carbonate and silica											<u>├</u> ───
	+		common as splashes and crosscutting veinlets.					+						<u> </u>
	+		Py present throughout but av 1.t. 1%.	· · · · ·		<u>†</u>					1			
					† 			1	+					
117.0	119.0	FELSIC DYKE	Light green, massive, even grained, composed	of										
			interlocking plates of light green micaceous											
	1		mineral av grain size 0.05 in with interstiti silica and carbonate. Py disseminated through	ial										
			silica and čarbonate. Py disseminated through	nout	Ť									
	1											1		

AMAX EXPLORATION, INC. DIAMOND DRILL RECORD

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Hole No. TX-105-73 Sheet No. 2

Foota		D	ESCRIPTION	Sample No.	From	То	Length	Ag	Cu	Zn			
From	<u> </u>			NO.	<u> </u>	<u> </u>		_ppm	ppm_	ррп			
			to 1%. 12 in quartz-calcite vein at centre of	ļ	<u> </u>								
		······································	section.	<u> </u>	ļ				L				
			· · · · · · · · · · · · · · · · · · ·	<u> </u>					l				
119.0	154.0	DACITE	Light - med grey, massive, amygdaloidal in part					• • • • • •					
			av 0.1 to 0.5 in across infilled with fine graine	ed	ļ				L				
			silica and carbonate. Brecciated in part with										
		······································	fragments healed with chlorite and/or sericite-		1								
			rich veinlets. Minor py diss throughout av 1-2%.	1		•							
			· · · ·										
154.0	230.0	DACITE	Dark grey, massive, altered feldspar phenocrysts										
			<pre>set in a fine grained matrix which is highly alte</pre>	red	1								
		·	with abundant chlorite and carbonate. Only rare										
			silica and carbonate veinlets in contrast to										-
			units described above. Fine py through groundmass	4298	204.0	205.0	1.0	1.3	237	2200			
			av 1% and accompanied by cpy in places. 5% py										
			from 204 to 205 ft and 223.5 to 224 ft.	4299	223.5	224.0	0.5	2.1	213	346			
												1	
230.0	256.5	DACITE	Light grey to green-grey, generally massive, fine	2	1								
	}		grained, fairly soft due to chlorite and			1							
			carbonate alteration of groundmass. Plentiful	4300	247.5	248.5	1.0	0.5	104	119			
· .			crosscutting silica and carbonate veinlets. Py										
			more abundant in this section av 3% but is heavie	er		1		-					
			in lighter coloured sections where carbonate	1	1	1 .			[. 1	
			veining is prevalent.	T									
				1									
256.5	268.5	DACITE FRAGMENTAL	Light green overall with fragments being lighter	1									
			than fine grained chloritized groundmass. Massive	2									
			med hard. Fragments range from 0.2 in to 3 in										
			across. Plentiful silica veinlets crosscutting.		·						1	T	
			Sulphides very rare but occassional diss py is										
			observed.										
268.5	300.0	DACITE	Grey, med grained, massive overall but interval		ſ								
		na ang ng na na na na na na na na na na na na na	281.5 to 283 ft rock is brecciated. Rare siliceou	15									·
			veinlets cross cutting at about 40-60° to C.A.	1	1	1							
			Less regular and pervasive carbonate alteration	1									
			or veining hosts py mineralization which						[
			frequently contains appreciable cpy. Py never			1			1				
			q.t. 5% over 6 in sections.	1	1	<u> </u>							·
				-	1				1				
				1	1	1			İ				·

AMAX EXPLORATION, INC. DIAMOND DRILL RECORD

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Hole No. TX-105-73 Sheet No.3

Foot	age		Sample		·		1	1	1	1	1	I
From	То	DESCRIPTION	No.	From	То	Length						
							1	1		1	1	1
	300.0	END OF HOLE.				1				<u> </u>	<u> </u>	<u> </u>
			· · · · · · · · · · · · · · · · · · ·	<u> </u>	· · · · · · · · · · · · · · · · · · ·	<u>.</u>	1		1			
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		procharge for						<u> </u>		 		<u> </u>
		W.R. Ryall.					 					
		Ν.Ν. ηγαιι.						 		· · ·	 	
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DIAMOND DRILL RECORD

* Hole No. TX-106-73

	TX-106-73						·	Location	Sketch	North	L								
Township	Ben Nevis Ben Nevis 45+70S, li		Bearing Dip Objective	-45°		Completed Drilling Co. Core Size Casing Left	<u>Continenta</u> BQ		Etch 1	ſest	Depth	Rdg.	Tr	ue	<u> </u>	Q			
Logged By Core Locatio	W.R. Ryal on Timmir	l ns Office														·)	Claim	_{№.} <u>L28</u>	0648
Remarks _						1				······································					·		Scale:	1" = 100	' 0'
	tage To	<u> </u>		DE	SCRIP	TION	· · ·			Sample No.	From	То	Length	Ag ppm	Cu ppm	Zn ppm			
		OVEDR	BURDEN		<u> </u>									PP		PP			
0.0	10.0		JONDEN		· · · · · · · · · · · · · · · · · · ·										-				
10.0	32.0	DACIT	E FRAGMEN	ITAL	Dark grev, m	assive. Co	mposed of a	ngular dacit	e										
					fragments ra	inging from	0.1 in to	6 in diam se	t in	··· #= =4: *					1	-			
				· · · · ·	a med-fine of	rained gro	undmass whi	ch shows hea	vy										
					chlorite alt										1				
								h about 1% d	iss										[
-					py. Numerous	fine grai	ned silica	veinlets cro	SS										
					cutting core	e. 6 in rus	ty patch ne	ar 23 ft.											\square
<u></u>				· · ·				· · · · · · · · · · · · · · · · · · ·											[
32.0	34.0	FELSI	IC DYKE		Light green	, massive,	even graine	d, av grain											
						, composed	l of interlo	cking plates							1				
								h interstiti											(
					carbonate ar	nd silica.	Weak py dis	s throughout					·	·	1				
					6 in quartz	vein at 33	3.5 ft conta	ins few diss											
					specs cpy.	-	1												[
															1				
34.0	60.0	DACI	TE	· .	Grey, massiv	ve, med har	rd, even gra	ined, compos	ed	1569	55.0	56.0	1.0	1.3	45	39			
								.t. 0.1 in s	et										
								ndmass. Rock					-						
		· · · · · · · · · · · · · · · · · · ·						ericite veins						·					
		<u> </u>						ear 44 ft. an						<u>.</u>					
				·				<u>unit av abou</u>	it						1				
					1% but betwe	een 55 and	<u>56 ft av 5%</u>	2 •			L				<u> </u>				
		-		<u> </u>	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·				l			L					
					, , , , , , , , , , , , , , , , ,		-						-						ļ
													· · · · · · · · · · · · · · · · · · ·	ļ		· ·	L		L
	<u> </u>	·					······							ļ	1				ļ
					·									<u> </u>				·····	L
•	1				· · · · · · · · · · · · · · · · · · ·				2 I	A. 2. A.	l			I		I, I	L., I		1

DIAMOND DRILL RECORD

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Hole No... 2 Sheet No.

TX-105-73

Foota:	ge To		DESCRIPTION	Sample No.	From	То	Length	Ag	Cu DDm	Zn		
60.0	103.0	DACITE	Grey, massive, amygdaloidal, mod soft due to					- <u> </u> 4+011				
			abundant development of carbonate veinlets and			<u> </u>	<u> </u>	<u> </u>				
····			patches. Amygdules very prominent in this unit,					{				
		······································	average 0.3 in across and are infilled with		<u> </u>							
			fine grained silica-carbonate. Carbonate veins									
		· · · · · · · · · · · · · · · · · · ·	or patches reach 6 in and 8 in C.L. at 77 and						······································	1		
			91 ft., resp. Sulphides rare, diss py av 1.t. 1	%						<u> </u>		
		ـــــــــــــــــــــــــــــــــــــ										
103.0	186.0	DACITE	Grey, massive, even grained, only few amygdules	near	1			<u> </u>				
			top of section and poorly developed elsewhere.			1						
			Few carbonate-silica veinlets, largest are 1 in	1570	169.0	171 0	2.0	0.5	43	99		
			at 121.5 ft and 3 in at 123 ft. Groundmass	13/0	103.0	171.0	2.0	0.5				
		<u> </u>	contains heavy chlorite giving the rock a		<u> </u>							
		· · · · · · · · · · · · · · · · · · ·	mottled appearance. Py is sporadically							<u> </u>		
			developed through section av about 1% but occur	<u>_</u>	<u> </u>							
			to 5% in the section: 169 to 171 ft.	<u>></u>								
————							<u> </u>	<u> </u>				
106 0	211.0	DACITE	As for section from 60-103 ft. 5% py from 196 t			<u> </u>						
186.0	211.0	DACITE	197 ft. Heavy fracturing and carbonate veining	1571	196.0	107 0	1.0	1.0	59	302		·
			at 201 ft contains a few blebs of cpy.	13/1	190.0	197.0	1.0	1.0	55	- 302		<u> </u>
			at zor it contains a rew blebs of cpy.		+		├					
211.0	220.0	DACITE	As for section from 103 to 186 ft.		·							
220.0	300.0	DACITE	Med grey, massive over most of section but from	1572	235.0	237.5	2.5	0.9	86	229		
			290-300 ft rock shows poor foliation at about		Γ							
			40 to 50° to C.A. Heavy patches of black chlori	te 1573	266.0	267.5	1.5	0.8	24	142		
			and patchy sericite alteration. Plentiful									
			carbonate-silica infilled amygdules and numerou	s 1574	272.0	272.5	0.5	2.8	76	458		
			crosscutting carbonate-silica veins. Py general									
			heavier in this unit and av 1 to 2% between 235									
			to 237.5 ft av 10%. 266 to 267.5 ft av 5%							1		
			272-272.5 ft av 5%. Py mostly occurs as diss									
			cubes av 0.05 in.									
	300.00	END OF HOLE.										
	<u></u>					 		 	 	<u> </u>	 	
		·	the All a Di			 	<u> </u>				·	
			makyoldun		ļ	· · · · ·	ļ	[· · · ·	<u> </u>	· · · · · ·	
		· · · · · · · · · · · · · · · · · · ·	W.R. Ryall.	·	l	ļ	ļ			<u> </u>		
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AMAX POTASH LIMITED

DIAMOND DRILL RECORD

TX-107-73

Hole No.....

312.0 Dip: Collar -50° Hole No. TX-107-73 Sheet 1 Commenced June 1973 Length Location Sketch North 245° Completed June 1973 Drilling Co. Continental D.D. Property Township Pontiac Bearing -50° Etch Test Depth Rdg. True Dip Location Line 4N, 3+20E Test IP Anomaly Core Size AQ Objective _ Casing Left in Hole _36 feet Claim No. L265792 Logged By D.R. Hawke Core Location Timmins Office Scale: 1'' = 1000'Remarks _ Footage Sample DESCRIPTION From To Length No. To From 46.8 Casing. 0.0 25.3 - 28.0 - light blue grey rhyolite breccia - frags. very hazy - very slightly sericitic - may be a boulder Light green grey Rhyolite tuff breccia, size of frags decreases down the hole 46.8 125.8 moderatly to highly sericitic, banded. Sericite occurs as fine stringers & veinlets at 45° to c. axis. 46.8 - 73.0 - contains much introduced qtz. & carb. 50.9 - - 1/2" bleb of sulphide approx. 85% py & 15% cp. 53.1 - 73.0 - contains a few elongate blebs py << 1%. 75.5 - 76.2 - 5-7% py. 82.8 - 84.2 - lost core. 85.0 - 85.0 - lost core. 86.6 - 88.1 - lost core. 90.2 - 91.3 - lost core. 94.1 - 95.0 - lost core. 89.2 - 89.5 - qtz. carb. veinlet. 86.4 - 86.5 - gtz., carb. veinlet. 101.4 - qtz. carb. veinlet at 45° to c. axis. 105.9 - " " " 60° to c. axis. - " " " 45° to c. axis. " " " 60° to c. axis. 107.5 107.5 - 104.2 - 10st core. 108.5 - 109.2 - " 11 110.0 - 111.1 - " 112.6 - 114.2 -

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DIAMOND DRILL RECORD

Hole No. TX-107-73

Sheet No. 2

Foota		DESCRIPTION	Sample	From	То	Length	Cu	Zn	Ag	oz Au		
From	To		No.	110111			ppm_	<u>p;=</u>	ppm			
		116.1 - 117.2 - Lost core.										
		116.1 - 117.2 - Lost core. 118.3 - 120.0 - " "										
		114.0 - 125.0 - Highly carb. & ser.										
		80.6 - 140.7 - core badly broken, poor recovery.								-		
				1	[
125.8	127.4	Light grey fine gr. massive rhyolite.		1								
	-	-no mineralization.										
				<u>†</u>								
127.4	140.0	Grey green f.g. rhyolite tuff breccia		<u> </u>					·····			
		Very slightly sericitic		1								
		No.sulphides.						:		•		
				1				· · · · · ·				
140.0	143.7	Grey green agglomerate		140.0	145 0	5.0	77	344	1.1	Nil		
140.0		- frags up to 6" across, moderately sericitic	- 10/1	1140.0	145.0	- 3.0		544				
		- matrix looks like coarse An tuff.										
······································		- contains a few small blebs py < 1%.										
		concarns a rew smarr brebs py < 100										
143.7	145.5	Dark grey black m.g. dacite			<u> </u>	· ·						
143.7	145.5	- slightly chloritic		<u> </u>								
		- contains a few small blebs & stringers of py up to 3%.			<u> </u>			· ·				
		- concarns a rew smarr brebs a ser ingers or py up to sm										
145.5	146.5	light grey f.g. massive Rhyolite					·					
143.5	140.0	- quite siliceous						-				
		- moderately carbonatized.										
		- moderacery carbonacized.		<u> </u>								
146.5	158.2	Grey green Rhyolite breccia										
140.5		- contains only a few frags.										
		- moderately ser.				<u> </u>				·		
		- contains many small irreg. blebs & veinlets of carbonate.		1	<u> </u>		· · · · · · · · · · · · · · · · · · ·					
		- contains many small integ. Diebs a venifiels of carbonates		1	1	[
		150.0 - 154.5		1								
		- contains numerous blebs py up to 10%						[
		- contains numerous blebs chlorite giving rock mottled appearance.						i				
		containts manerous breds entorrise grang rock inderred appearance.		1	1	1		[
158.2	166.1	Dark green gray f.g. dacite	1612	150.0	155.0	5.0	1240	133	1.2	Nil		
1.00.2		-no sulphides.		1.00.0	1.00.0	1	<u>+</u>	<u> </u>		t	<u>├</u> ───	
		-no surphildes.		<u> </u>	1		t	f				
				+		1	· · ·	1				<u> </u>
					<u> </u>	<u>├</u>	 	 				
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Hole No. TX-107-73 Sheet No. 3

				•								
Foota		DESCRIPTION	Sample	From	То	Length	Cu	Zn	Ag	oz Au		ι.
From	To		No.			Dengen	ppm	ppm	ppm			L
166.1	167.2	Light grey f.g. Rhyolite										1
		Appears very siliceous										· · · ·
		Contains a few blebs py < 1%.		1	· · ·							
				1								
167.2	179.5			1								[_
107.12		Contains a few small irregular stringers carb.			[·
	·····	Johnannis a Ten Sinarri Thregarar burnigars sarbi		1	[-	<u> </u>
179.5	194.9	Light grey f.g. rhyolite	1613	185.0	190.0	5.0	45	1590	0.8	Nil		
		-faint banding at 65° to c. axis		1								
		- may be slightly tuffaceous & sericitic			-				[
		- appears quite siliceous			<u> </u>							<u>├</u> ────
		- contains a few small blebs py 1-2%			[-	· · · · · · · · · · · · · · · · · · ·					
		- CONTAINS & TEW SMAIL DIEDS DY 1-2%		<u> </u>								
		102 A 104 0 contains a fau small she stringers for small blobs on			<u> </u>							
·		193.4 - 194.9 - contains a few small chl. stringers &veryfew small blebs cp.			 	[[·			
					 	ļ						
194.9	271.5	green grey m.g. feld. porph. contains white to pink feld pheno. up to 4mm. in diam.		<u> </u>	ļ	I						
· · ·		contains white to pink feld pheno. up to 4mm. in diam.		ļ								·
				L	L			·	·	· ·		
		215.0 - 216.1 - qtz. carb. veins										L
		220.5 - 220.6 - qtz. carb. veinlet				<u> </u>						
		227.7 - 227.8 - """ with chl.										L
		232.5 - 232.6 - " " "		<u> </u>			·		<u> </u>	1		
		236.5 - 236.6 - " " "				· .						
		237.4 - 237.5 - " " "										1
	·	,						-				
271.5	291.0	Greenish grey f.g. Andesite									•	
		Contains a few small qtz carb. stringers		1								
		" " scattered blebs py.			1						-	· ·
	· ·		1	1		1		[1			
291.0	312.0	light green grev rhvolite tuff breccia.	1615	295.0	300.0	5.0	85	80	0.5	Nil		
		Light green grey rhyolite tuff breccia. -moderately ser. & chl.	1616	300.0	305.0	5.0			0.4	Nil		
	·····			1000.0								<u> </u>
		295.0 - 297.7 - tuffaceous			†	<u> </u>						<u> </u>
·		contains numerous small blebs & stringers py approx. 1%.		+	<u> </u>			·····				<u> </u>
		concarns numerous smarr brebs a scringers py approx. 1%.		+								<u> </u>
		297.7 - 301.4 - contains numerous small white flecks		+	<u> </u>	{			<u> </u>			
							ļ					<u> </u>
		301.4 - 310.9 - contains a few small scattered blebs py - good breccia			· · · · · · · · · · · · · · · · · · ·	 				<u> </u>		<u> </u>
			<u></u>			·{	 	 	 	 		
	312.0	END OF HOLE. Donald Refference		·	<u> </u>	!		Į		<u> </u>		ļ
	·		••	·		<u> </u>	ļ	ļ	 	ļ	_	1 -
		Donald R. Hawke.	. F .	1	l	1	1 -	I	I	L'	I.	l

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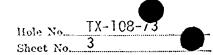
DIAMOND DRILL RECORD

Hole No. TX-108-73

Hole No.	TX-108-73 Pontiac	- 245°					Location	Sketch	North				
Township Location	Pontiac Pontiac L4N 1+00E	Bearing Image: constraint of the second se	Etch Test		Depth	Rdg	. Tr	ue	 				
Logged By Core Locatio	D.R. Hawke								2		l	™L265	
Remarks _					· · · · · · · · · · · · · · · · · · ·				-		Scale: 1	. = 100	
	otage	DESCRIPTION	I Sar	nple	From	То	Length	Au	Cu	Zn ppm	Ag ppm		
From	To			·				ppm	ppm	ppm	ppm		
0.0	3.4	CASING										:	
3.4	88.6	Green Grey f.g. porphyritic dacite.											
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		Contains numerous small light & dark phenocrysts up to 3 mm.					· · ·						
		Many of the white phenocrysts contain abundant carb. & may be amygdules.											· ·
		Contains a few blebs & stringers py generally<<1%.					ļ		<u> </u>				
	· .	17.1 - 18.0 very numerous white carb. spots	[.]				ļ	·					ļ
		<u>22.1 - 22.8 more py, 2-3%</u>					<u> </u>	<u> </u>					<u> </u>
		becomes more andesitic down the hole.					 	 				·	├ ──~
		31.2 - 32.5 Very numerous white round carb. spots, flow top:				· · · · · · · · · · · · · · · · · · ·			<u> </u>				
				517	61 5	66.5	5.0	Nil	104	181	8.5		
· .		31.2 - 32.5 very numerous white round carb. spots., flow top? 37.3 - 37.5 """"""""""""""""""""""""""""""""""""		<u>, 10</u>	01.5	00.5	5.0		104	101	- 0.5		i
		$62.8 - 64.5$ more py \approx 3-5% in blebs & stringers with much qtz & carb.				 :_			<u> · </u>				
		64.4 - 64.6 numerous white carb. spots, flow top.					1			·			
		65.5 - 66.5 more py ≈ 2% as at 62.8-64.5				<u> </u>	1		1				i
		83.7 - 83.8 large stringer py.											
88.6	104.4	Light grey m.g. massive diorite.				ļ	ļ	ļ					
	1-110 0				110 0	115 0	5.0	Nil	38	76			
104.4	118.0	As at 3.4-88.6		618	110.0	115.0	1 5.0		30	70	.8		
		$105.4 - 106.4$ contains a few by stringers $\approx 1\%$ of rock					+						<u> </u>
		105.4 - 106.4 contains a few py stringers ≈ 1% of rock 110.2 - 118.0 " " " & veinlets up to 1% of rock.					+	<u> </u>	1				<u>├</u> ──
		112.3 - 113.8 contains numerous round white carb, spots								1			
		115.2 - 116.7 " " " " " "					·						
						-							
			· · ·			ļ		l					

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		AMAX POTASH LIMITED			·	TV 100						
		DIAMOND DRILL RECO	ORD					H	ole No	1 X-108- 2	.1.5	
Foota		DESCRIPTION	Sample No.	From	То	Length	Au	Cu	Zn	Ag		
From 118.0	то 126.1	Dark grey, Rhyolite breccia, slightly sericitic	1619	115.0	120.0	5.0	ppm Nil	<u>ppm</u> 50	ppm 534	ppm 1.3		
		Numerous frags. up to 2-1/2"			,							;
		- contains small blebs & stringers py, 1-2%		ļ								
		123.8 - 124.5 matrix becomes tuffaceous.						······				
126.1	130.4	Dark green grey f.g., porphyritic rhyolite		· ·								
· · · ·		Contains some small (< 1mm) white phenocrysts		 	· · · · · · · · · · · · · · · · · · ·					· .	-	
		Contains a few small specks py.		<u> </u>	·							
130.4	135.3	Light green grey f.g. rhyolite										
· · · · · · · · · · · · · · · · · · ·		Brecciated in places.	·····		· .							_
135.3	169.8	As at 3.4 - 88.6 - non porphyritic										
169.8	174.6	Light green grey f.g. Rhyolite							· · · · · · · · · · · · · · · · · · ·			
103.0	174.0	Contains many irregular blebs & stringers of qtz & carb.		1								
		Very few small blebs py.							•			
174.6	197.5	Dark grey Rhyolite breccia.	1620	177.0	180 0	3.0	Nil	84	169	1.4		
		Slightly sericitic.	1621	180.0	185.0	5.0	Nil	134	157	1.5		<u> </u>
		177.9 - 183.3 contains much fine disseminated py, approx. 10%	1627	185.0	190.0	5.0	Nil	17	75	.7		
		177.9 - 185.5 concarns much rine disseminated py, approx. 10%									·	
		183.3 - 197.5 as at 177.9-183.3 approx. 1-2% py.			1							
197.5	219.0	Dark grey f.g. dacite	· · · · ·									
		Contains a few small round white carb. spots.										
		Contains a few small blebs py << 1%.	· .					- 				
219.0	242.5	Light g r een m.g. massive diorite	· · · · ·	ļ		ļ				·····		
		236.7 - 236.9 rusty zone, contains a few small py cubes.			<u> </u>							
		237.6 - 237.7 as at 236.7-236.9			<u> </u>	·	<u> </u>					
	-				<u> </u>	1	· · · · ·	1 :				
		239.0 - 239.1 as at 236.7-236.9										
· · ·		239.1 - 239.8 qtz. carb. veinlet	·	+				<u> </u>				
				1	1	1	1	1		_		<u> </u>



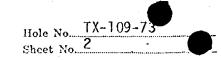
			······				·	· · · · · · · · · · · · · · · · · · ·				
Foot		DESCRIPTION	Sample No.	From	То	Length		1			, 1	
From	To		NO.					!				
	-										-	
242.5	266.2	Green grey Rhyolite breccia										
		- frags. up to 1-1/2", generally guite hazy.										
		- matrix is dacitic.										
		 matrix is dacitic. contains very few small blebs py << 1%. 										
												·
266.2	267.6	Dark green porph. dacite										
		-Contains a few small white phenocrysts	•									
		-No sulphides.										
267.6	274.0	Light green Rhyolite breccia										
		Contains only a few hazy fragments.			1		·					
		Very slightly sericitic		1		[1	1			
		Contains only a few hazy fragments. Very slightly sericitic Contains a few very small blebs py << 1%.				1		1				
274.0	275.0	Light green M.G. diorite?		1				1				
					· ·			1		·		
	275.0	END OF HOLE.					· ·		1			
				<u> </u>	· · ·				1			
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AMAX POTASH LIMITED

DIAMOND DRILL RECORD

Hole No. TX-109-73

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Hole No	TX-109-73 Pontiac	Sheet 1 Length 297.0 Commenced June 1973 Di Bearing 65° Commenced June 1973	ip: Collar					Location	Sketch	North		
To serve a later	PONTIAC	$1 \text{ pm} = -43^{\circ}$	tch Test	Depth	Rdg.	Tru	ie 🔽			1 1		۰.
Location _	LO, 2+50W	Objective Test IP Anomaly Core Size AU										
Treased By	D.R. Hawk	Casing Left in Hole 34 feet	····	· · · ·				-		Claim N	1265	5792
Core Location	n <u>Timmins</u>	Office	······································					୧		Claim N	0	
										Scale: 1	" = 1000	0'
Remarks							L_]		
	······································		· · · · · · · · · · · · · · · · · · ·			·····						
Foot From	age To	DESCRIPTION	Sample No.	From	То	Length	Au ppm	Cu ppm	Zn ppm	Ag ppm		
	10						ppm		- ppm	ppm		
0.0	31.4	Casing	· · · · · · · · · · · · · · · · · · ·									
31.4	42.2	Dark grey med. to c.g. rhyolite, appears to have been rextallized by diorite										
	46.6	no sulphides						- 				
	100.0											
42.2	108.9	Light green to grey med. to coarse grained diorite 31.4 - 47.6 med. to f.g. chill zone	· ·	ļ			<u></u>					·
		- moderately carbonatized		<u> </u>			·····					· · · · · · · · · · · · · · · · · · ·
						•						
108.9	120.3	Dark grey m.g. rhyolite - appears to have been rextallized by diorite		<u> </u>				_		-		
		- contains a few blebs py < 1%					<u>.</u>	·				
120.3	149.0	Dark grey f.g. porphyritic dacite		110.0			Nil	58	94	1.3		
		Contains a few small (1-2 mm) round white phenocrysts Also contains some small white blebs & veinlets of qtz. + carb.		115.0			Nil	63	118	1.1		
		Also concerns some smerr wille blebs a vennets of quz carb.		120.0			Nil Nil	<u>41</u> 58	217 538	2.2	·	·
		121.7 - 133.6	1629	130.0	135.0	5.0	Nil	47	101	.7	•	
		contains numerous blebs & stringers of fine py (3-5%), up to 20%.	1623	137.0	141.0	4.0	Nil	3680	292	5.5		
		136.8 - 140.4	1625	140.0	145 0	5.0	Nil	61	188	2.0		
		core highly weathered & rusted & badly broken recovery pooy	1025_	140.0	145.9	5.0		01	100	2.0		
		malachite & some cp observed from 137.1-137.9, also much py.	-	· .								
		140.4 - j47.4	1620	145.0	150 0	5.0	Nil	70	200	1.4	· · ·	
	· · · · ·	contains numerous irreg. blebs & stringers py (3-5%)	1030	143.0	1.30.0	5.0		+ /0	200			
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Foot	age	DESCRIPTION	Sample			T	Au	Cu	Zn	Ag	Ī	
From	To	DESCRIPTION	No.	From	To	Length	ppm_	ppm_		pom		
							••	•••	1			
		141.7 - 145.0	1									
		core badly broken, recovery poor										
149.0	154.4	Light green grey f.g. massive rhyolite										
	· · · · · · · · · · · · · · · · · · ·	slight ly sericitic		L					<u> </u>	 		
		contains a few py cubes << 1%							l	·		
]	-		
154.4	171.4	Dark blue grey - f.g. rhyolite	1631	155.0	160.0	5.0	Nil	270	515	4.1	·	
		slightly tuffaceous, faint banding at 70° to core axis.	1632	160.0	165.0	5.0	Nil	67	50	1.4		·
		contains much fine disseminated py. approx. 3%	1633	165.0	170.0	5.0	Nil	67	30	1.4		
171.4	197.5	amoon amou f a maccivo dacito		l	 							
1/1.4	197.5	green grey f.g. massive dacite contains a few small specks py << 1%.		 					J			
		concarns a rew smarr specks py << 1%.							l			
107 5	100 3	Light grow Dhuglita huggain		 					[]]	L		
197.5	198.3	Light grey Rhyolite breccia Appears very siliceous		1								· · · · · · · · · · · · · · · · · · ·
		Contains a few specks py <<1%		<u> </u>	· · · · ·		· · · ·					
		concarns a rew specks py <1%			<u> </u>							
198.3	202.3	Dark grey f.g. massive dacite		+					!		·	
		py << 1%.	- 		· · · ·			· ·			i}	<u> </u>
							· · · ·		[!		·	
202.3	225.2	Light blue grey f.g. Rhyolite as at 154.4 - 171.4	1634	205.0	210.0	5.0	Nil	640	31	.6		
		py approx. 1-2%		210.0				370	21	.2	· · · · · · · · · · · · · · · · · · ·	· · · ·
	·····		1636	215.0	220.0	5.0		395	27	.5	· · ·	
		190.5 - 202.3	1637	220.0	225 0	5.0	Nil	92	7	5	· · ·	
		Rock is bleached (i.e. silicified) to a light grey white	1	1								
		bleached areas contain much less py.					1					
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TX-109-7

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Hole No..... Sheet No...

Foot	age To	DESCRIPTION	Sample No.	From	То	Length						
rom		Dark green grey feld. porph. Matrix is m.g. Phenocrysts subhedral, 6mm to 4 mm in diameter - no sulphides.								<u> </u>		[
225.2	297.0	Matrix is m a					<u> </u>				j	
		Phenocrysts subhedral, 6mm to 4 mm in diameter						<u> </u>				[
		- no sulphides.			· · · · · · ·							[
							· ·					[
		225.4 - 245.0 less phenocrysts										
		less phenocrysts		·								I
												<u> </u>
		277.0 - 297.4 less phenocrysts				<u> </u>		ļ		ļ!		
		less phenocrysts				· · · · ·		ļ		ļ/		
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	207.0		· · ·				 					
	297.0	END OF HOLE.			 				╆			
			 					 				
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TX-109-7

Hole No. T) Sheet No. 3

Foot	age	DESCRIPTION	Sample No.	From	To	Length						· ·
From	To	Dark green grey feld. porph. Matrix is m.g. Phenocrysts subhedral, 6mm to 4 mm in diameter - no sulphides.										
225.2	297.0	Matwix ic m.d.							 			
		Phenocrysts subhedral. 6mm to 4 mm in diameter			· · · · · · · · · · · · · · · · · · ·	<u>+</u>						
		- no sulphides.					<u> </u>		1			
							· ·			<u> </u>		
		225.4 - 245.0						1				
		less phenocrysts	· · · ·									
							· · ·					
	L	277.0 - 297.4					L	<u> </u>	<u> </u>			
		less phenocrysts	<u> </u>			ļ	ļ	ļ	<u></u>	<u> </u>		
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	297.0	END OF HOLE.	 	 	 		 	<u> </u>		 		
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<u></u>		Donald R. Hawke	 		 		<u> </u>					
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VI. CONCLUSIONS & RECOMMENDATIONS

The diamond drill program carried out in Ben Nevis and Pontiac Townships tested intense regions of the several IP anomalous zones and the failure to intersect economic widths of base metal mineralization casts doubt on the likelihood that these zones host potential ore bodies.

The discovery of encouraging base metal mineralization in Zone C, Ben Nevis Township, intersected in hole TX-102, indicates this area to have enhanced potential and additional drill testing should be performed in the vicinity of station 7+00W, Line 48S where the anomaly appears more intense. Probably additional IP survey, utilizing a 100 ft. dipole, and, certainly, detailed geological mapping should be carried out in this area prior to drill testing.

In Pontiac Township the drilling has indicated the IP anomaly to be primarily due to disseminated pyrite mineralization although weak chalcopyrite was encountered in short sections of drill holes TX-107 and TX-109. No further work is recommended for this property.

Donald R. Hawke.

William_R

