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1978 SURFACE DIAMOND DRILLING PROGRAM

DRUMMOND - HARGRAVE - #1611 - NORTH DRUMMOND CLAIMS

SUMMARY REPORT FOR M.E.A.P. AGREEMENT, CONTRACT NO. CG-141

Submitted by:

R. S. Nichols, B.Sc., P. Eng.

December 18, 1978



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TABLE OF CONTENTS

<u>Subject</u>	<u>Page</u>
Introduction.....	1
Location and Access.....	1
Geology.....	2
Economic Geology.....	3
Purpose of the Surface Diamond Drilling Program.....	4
Results of the Program.....	4
Table 1, Summary of Drill Holes	
Diamond Drill Logs, C.S. 103 - C.S. 115, Inclusive.....	Back of Report.
Drummond - Hargrave - Bursary Area, Surface Diamond Drilling Plan	.....In Pocket.
North Drummond Area, Surface Diamond Drilling Plan.....	In Pocket.

## Introduction

A total of 8,094' of diamond drilling in 13 holes, C.S. 103 to C.S. 115 inclusive, was completed on the Hargrave, Drummond, #1611 and North Drummond claims during the period August 18th to December 11th, 1978. This program was done to follow-up previous drilling and to test previously unexplored areas for silver mineralization.

Ore grade silver veins were not encountered with this program. Some low grade silver-arsenide mineralization was intersected. The two general areas tested were the south and north limbs of the Kerr Lake diabase arch. These areas have potential for hosting ore grade silver veins. However, the depth of the favourable Nipissing - Keewatin contact is such that the surface diamond drilling or underground development necessary to adequately test the area would be substantial.

No further surface drilling is proposed or warranted at this time.

## Location and Access

The Hargrave, Drummond, #1611 and North Drummond claims are essentially contiguous claims about 2 miles south-east of the Town of Cobalt. They are located in Lot 2, Con. IV and Con. V in Coleman Township within the main Cobalt silver producing area.

The properties are easily accessible by car on secondary gravel roads from the Town of Cobalt. Refer to the Index Maps on the Surface Drill Holes plans accompanying this report. Drill holes C.S. 103 to C.S. 108 inclusive are shown on the "Drummond - Hargrave - Bursary Area Surface Diamond Drilling Plan". Drill holes C.S. 109 to C.S. 115 inclusive are shown on the "North Drummond Area, Surface Diamond Drilling Plan".

## Geology

The general geology of the area consists of steeply dipping Keewatin volcanics and sediments partially overlain by flat lying Huronian sediments, both of which have been intruded by and underlie a gently undulating Nipissing diabase sheet-like dyke. Keewatin and Huronian rocks are exposed on surface in the central part of the area where the lower Nipissing contact formed an arch which has since been eroded.

The Keewatin rocks, where exposed, consist of cherts and tuffs striking northeasterly. The surface drilling has indicated various types of volcanics and sediments striking north - south on both sides of the diabase arch. Although the volcanics and sediments interfinger, the stratigraphic sequence of rock types from oldest to youngest appears from surface drilling to be:

- a) MAFIC FLOWS - dark green, massive or pillowed with incipient brecciation developed locally.
- b) PYROCLASTIC TUFF BRECCIA - light coloured, feldspar crystal tuff with angular fragments of feldspar porphyry, mafic flow and chert. In hole C.S. 111 under the north limb of the Nipissing arch this unit consists solely of mafic fragments and matrix.
- c) BLACK ARGILLITE - very fine grained, black, sometimes cherty or graphitic, well-bedded argillite.
- d) CHERT/TUFF - fine grained, hard, light grey, usually well bedded tuff interbedded with light grey chert. Local "grid" type alteration occurs occasionally in this unit.

Flat lying lamprophyre dykes ranging from 1' - 100' thick cut across the Keewatin rocks. The dykes are dark green, massive, coarse grained, with either conspicuous biotite or amphibole grains.

Huronian sediments, overlying the Keewatin, occur under the Kerr Lake diabase arch. The beds strike a little north of east and dip gently to the north. This program did not intersect Huronian sediments. Surface exposures indicate a basal conglomerate with 80% pebbles in a greywacke matrix overlain by massive to well-bedded, light grey, medium grained quartzite,

The Nipissing diabase, which intrudes the Keewatin and Huronian is a dark green, massive, coarse grained somewhat differentiated dyke about 1000' thick. Above about 100' from the lower contact 5 - 15% coarse, honey-brown coloured, hypersthene phenocrysts occur. Below this, the diabase is slightly finer grained and darker coloured. The lower contact of the dyke forms an arch, the Kerr Lake arch, striking at an azimuth of  $070^{\circ}$ . Close to the arch the contact is relatively steep, about  $40^{\circ}$ , then becomes about  $15^{\circ}$  -  $20^{\circ}$ .

#### Economic Geology

An estimated 53,700,000 ozs. Ag (Mineral Resources Circular No. 10, 1968, by A.O. Sergiades) has been produced in the immediate area (Kerr Lake, Silver Leaf, Crown Reserve, Drummond and Hargrave claims).

Essentially all of this silver was produced from steeply dipping carbonate veins occurring in Huronian sediments. One exception is the Kerr Lake No. 3 vein in which an estimated 3,000,000 ozs. Ag was produced from the vein in Nipissing diabase.

The majority of the veins in this area strike northeasterly or north - south. The proposed holes were intended to intersect veins striking north - south.

Purpose of the Surface Diamond Drilling Program

This surface diamond drilling program was intended to follow-up previously intersected low grade silver - arsenide values as well as to test unexplored areas for economic silver mineralization.

The general target area was the lower Nipissing - Keewatin contact north and south of the diabase arch. There has been significant silver production from veins in this geological setting in other areas of the Cobalt Camp. The areas tested have had relatively little exploration because of the increasing depth to the contact south and north from the Kerr Lake arch.

Results of the Program

Ore grade silver mineralization was not intersected during this program.

The drilling program consisted of 13 holes totalling 8,094'. A summary of the drill hole numbers, location, azimuth, dip and length are given in Table 1. All holes were drilled by Barron Diamond Drilling Limited, Haileybury. The core recovered is size AQ (1 1/16" diameter) and is presently stored at the Bailey property.

Low grade arsenide veins were intersected on the Drummond, Hargrave and North Drummond claims. On the Drummond and Hargrave claims the following arsenide veins occur:

<u>HOLE #</u>	<u>FOOTAGE</u>	<u>ASSAY (oz.Ag/ton)</u>	<u>DESCRIPTION</u>
C.S. 103	272.1 - 275.0 (2.9')	0.40	- 2" grey chert with fine arsenides.
C.S. 104	461.5 - 462.4 (0.9')	1.79	- 1 1/2" carbonated bed with fine arsenides in the wall rock.

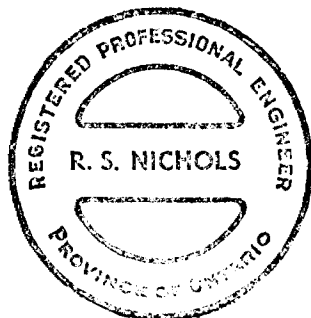
<u>HOLE #</u>	<u>FOOTAGE</u>	<u>ASSAY</u> (oz.Ag/ton)	<u>DESCRIPTION</u>
	492.5 - 492.9 (0.4')	3.23	- 3/4" chlorite-calcite with 5% Co-As.
C.S. 108	723.0 - 723.7 (0.7')	4.22	- 1" grey calcite with 10% sph-ga, fine Co-As.

On the North Drummond claim the following arsenide veins were intersected:

<u>HOLE #</u>	<u>FOOTAGE</u>	<u>ASSAY</u> (oz.Ag/ton)	<u>DESCRIPTION</u>
C.S. 110	370.5 - 370.9 (0.4')	0.08	- 1/2" - 3/4" white calcite with 80% arsenides.
C.S. 112	226.6 - 227.0 (0.4')	9.02	- 1/2" - 1" white calcite with 40% arsenides, trace ruby silver.
C.S. 113	166.6 - 167.0 (0.4')	0.03	- 1/2" chlorite-calcite with 1-5% fine arsenides.
C.S. 114	457.6 - 458.1 (0.5')	0.07	- 1/4" pink calcite with fine Co-As.
C.S. 115	241.7 - 242.3 (0.6')	0.20	- 1/2" pink calcite.

These intersections appear to be on one vein striking northwesterly and dipping steeply to the east.

These veins are relatively weak structures and have been adequately tested within the immediate area of drilling. The vein in hole C.S. 108 on the Hargrave claim may have potential further southeast. The vein on the North Drummond may have potential to the northwest. However, the favourable Nipissing - Keewatin contact in both these areas is at least 400' below surface. Therefore, no further drilling is proposed to follow-up this program.



Respectfully submitted,

*R. S. Nichols*

R.S. Nichols, B.Sc., P. Eng.

RSN:vl

TABLE I

SUMMARY OF DRILL HOLES

<u>HOLE #</u>	<u>CO-ORDINATES</u>	<u>AZIMUTH</u>	<u>DIP</u>	<u>ELEVATION</u>	<u>LENGTH</u>
C.S. 103	5377.3N, 10,303.1E	250°40'	-38°47'	1035.3'	301'
C.S. 104	5249.7N, 10,466.3E	243°47'	-39°49'	1050.2'	(778')1424'
C.S. 105	4848.2N, 10,951.1E	250°37'	-40°04'	1112.4'	1060'
C.S. 106	5111.0N, 10,474.2E	245°49'	-40°29'	1045.0'	549'
C.S. 107	3296.7N, 11,331.0E	248°20'	-44°43'	1113.6'	841'
C.S. 108	4770.5N, 10,419.0E	247°16'	-40°16'	1083.1'	1111'
C.S. 109	7156.5N, 9698.8E	180°34'	-46°34'	1118.9'	296'
C.S. 110	6598.3N, 10,112.5E	336°52'	-44°29'	1002.3'	453'
C.S. 111	6874.4N, 9980.0E	338°41'	-48°22'	1029.9'	822'
C.S. 112	6735.8N, 9916.0E	38°07'	-44°17'	1005.9'	261'
C.S. 113	6775.3N, 9948.9E	38°12'	-44°22'	1012.5'	205'
C.S. 114	7040.6N, 10,194.5E	242°47'	-44°43'	1030.1'	470'
C.S. 115	6724.4N, 10,033.6E	335°43'	-42°41'	1013.1'	301'
<hr/>				<hr/>	
13 HOLES			TOTAL =	<u>8,094'</u>	





FOOTAGE		SECTION " =	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS	
FROM	TO							Ag oz/t	Cu %
			VEINS & ALTERATION:						
			31.2' - 1 1/2" pale grey chert (Alt ?) minor pink Ca	371	31.0	31.9	0.9'	0.05	0.114
			Minor Cp 70° to C.A.	372	31.9	33.0	1.1'	0.02	
			31.2 - 33.0' - Carbonated along healed fractures, few 1/32" euhedral pyrite xls.						
			34.7 - 37.5' - Carbonated, black, trace Py, moderately soft to very hard <to> nail.						
			35.1' - 1/8" Pink Ca (Dolomite) 65° to C.A. Minor Ca stringers to vein (40° t C.A.) (Chl. + white Cht. alt. of wall rock ?)	373	34.7	35.6	0.9'	0.03	
			35.4' - 1/16" pink Ca (Dolomite) 55° to C.A. Sub parallel to vein at 35.1 Minor Chlorite.						
				374	35.6	36.8	1.2'	0.02	
			37.0' - 1/16" - 1/4" Poorly defined Ca vein ll to bedding 40° to C.A.	375	36.8	37.6	0.8'	0.02	
			45.0' - 0-1/4" Pink Ca (Dolomite) 15° to C.A. Chloritic, one pyrite grain.						
			50.8' - 1/8" Pink Ca (Dolomite) Irregular.						
			51.9 - 55.1' - Carbonated						
			51.9 - 52.5' - Chert and Carbonated hard						
			52.5 - 55.1' - Strongly carbonated rock, soft, chloritic						
			52.5' - 1/4" Ca Calcite, 1/32" xline, white, 1/16 fine chlorite along walls 32° to C.A.	376	51.7	52.8	1.1'	tr	
			54.1' - 1/4 to 1" Ca (Calcite) 1/32" xline white, cross- cutting and parallel to banded white chert and chlorite, chert chlorite banding 65° to C.A. Calcite 35° to C.A. Pyrite noted in chert and calcite.	377	52.8	54.1	1.3'	0.03	
				378	54.0	55.1	1.1'	0.05	

FOOTAGE		SECTION " =	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Ag oz/t	ASSAYS	
FROM	TO								Cu%	
			54.6' - 1/2" Ca (Calcite) along (18° to C.A.) strong slip, Minor chlorite in vein, 1/32" xline, minor dolomite, wall rock chloritic white cherty.							
			56.2'-56.6' - Grey, chert (Alt?) 2% Py 50° to C.A. (in part, strongly chloritic) Pink Dolomite + Albite ? veining in fractures.							
			57.0' - irregular Dolomite (+Albite ?) veining- Pink	379	56.1	57.3	1.2'	0.03		
			65.6' - 66.2' Pale grey chert (Alt ?) 0.5% Py, 5% Dolomite + (Albite ?) veining walls 35 and 65° to C.A.	380	65.6	66.3	0.7'	0.02		
			71.2'- 71.8' - grey chert (Alt ?) 2% (Albite ?) veining 1% Py minor Cp, coarse banding ll bedding 40 - 50° to C.A.	381	71.2	72.0	0.8'	0.04	0.056	
			75.2' - 75.7' - grey chert (Alt ?) parallel bedding 40° to C.A. 0.5% Py 1% Dolomite veining.							
			76.3'- 76.5' - grey chert 5% (Albite ?) veining parallel bedding 40 - 70° to C.A. Minor Py.							
			83.0 - 84.5' - broken core chips to 1" pieces							
			84.5' - No water pressure							
			84.8' - 1/8" Ca Qtz. vein, pink 40° to C.A.							
			88.0 - 90.0' Strongly carbonated, variable hardness, soft chloritic sections in hard dark grey chert. 0 - 5% Cp, parallel bedding 55 - 65° to C.A.	382	88.0	90.0	2.0'	0.18	0.36	
			91.0 - 92.1' Carbonated trace Py							
			91.7' and 91.9' 1" magnetite beds.							
			102.6' 1" chert vein, grey 65° to C.A.							













FOOTAGE		SECTION I"=	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS						
FROM	TO							Ag oz/t	Au oz/t	Cu%	Pb%	Zn%		
			293.0' - 294.0' - 50% agglomerate fragments to 1/8 x 1/4"											
			299.6' - 300.0' - 10% Agglomerate fragments to 1"											
			VEINS:											
			272.1 - 274.0' - Strongly, carbonated, minor Sph, Po, Cp.											
			272.8' - 2" Grey chert (Alt ?) walls 40° & 60° to C.A. 1/16" Arsenide stringer (arsenopyrite ?) 1/2" from chert, parallel chert.	6277	272.1	275.0	2.9'	0.40	tr	0.36	0.41	0.66		
			273.3' - 1/8" Ca white dolomite 28° to C.A.											
			273.9' - 1/8" Ca white calcite & Dolomite 35° to C.A. Parallel vein at 273.3 90° to Bedding.											
			274.5' - 275.0' - Grey chert (trace Arsenides ?) minor Cp.											
			278.4' - Minor Pink Dolomite veining 60° & 20° to C.A.											
			279.2 - 280.0' - Carbonated 2% Sph, Cp, along bedding	6276	279.2	280.0	0.8'	0.43	tr	0.73	1.31	1.30		
			279.9' - 1 1/2 Grey chert band parallel bedding 45° to C.A. (Alteration?)		279.1	280.0	0.9'	0.19	tr	0.20	0.28	0.37		
			281.5 - 1/2 Grey chert band (Alt ?) ll bedding 60° to C.A.											
			290.0' - 295.0' - Carbonated tuff agglomerate beds											
			290.4' - 1/16 Pink dolomite, trace Cp 48° to C.A.											
			290.8' - 291.5' Albite veining											
			292.0' - 1/2 Qtz. veins parallel bedding 45° to C.A.											
			293.3' - 293.5' - fine Ca veining, irregular											
			294.0' - 294.4' - Sph along grid alteration of cherty bed, black with pale greenish alterations.											
			300.0' - 2 intersecting (65° & 30° to C.A.) 1/2" Quartz Dolomite veins. pink slip along 65 vein.	6275	300.0	300.5	0.5'	0.05						







FOOTAGE		SECTION " =	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS	
FROM	TO							Ag	Au
			VEINS:						
			415.7' - 6" zone of quartz-chlorite with tr sph, ga, red feldspar.						
			418.1' - 1" white quartz vein with patches sph, ga at 25° to C.A.						
			423.9' - 1/4" creamy calcite-quartz vein with 3% sph, ga, at 70° to C.A.	420	423.7	424.1	0.4'	0.21	
			428.2' - 1 1/2" white quartz vein with 1% ga, sph at 50° to C.A.						
445.3	335.0	hd 419.0 vd 332.4	CHERTY TUFF - as before with sandy tuff beds & cherty beds alternating to 454'. After 454' it is predominantly dark green cherty beds.  The core is generally blocky at 445'- 482'.  The lower contact is obscured by blocky core.						
			ALTERATION: some grid alt'n. occurs in the cherty sections.						
			MINERALIZATION: 0-1/2% cpy occurs at 463'- 473' as fine to coarse blebs. - 0-1/2% sph occurs as fine grains to coarse blebs at 473'- 481'. - 521.5'- 532' - 1/2 - 1% sph occurs as coarse blebs & stringers along bedding.						
			VEINS:						
			453.2' - 3/4" vein (?) of chl, felds & calcite with 1% 2% fine arsenides, at 50° to C.A.	421	453.0	453.4	0.4'	0.21	.002
			459.6' - 3/4" grey quartz vein with 10% cpy, 1% fine arsenides tr ga, at 60° to C.A.	422	459.3	459.8	0.5'	1.42	tr
hd 359.2* vd 290.4			462.0' - 1 1/2" carbonated bed (?) with 5% cpy, tr arsenides at 60° to C.A. Wall rock contains 5-10% cpy, 1/2-2% arsenides (arsenopy) for 3" on each side.	423	461.5	462.4	0.9'	1.79	.02

COTAGE		SECTION " =	DESCRIPTION				ASSAYS		
FROM	TO			SAMPLE NO.	FROM	TO	LENGTH	Ag	Au
			475.4' - 2" grey quartz bed (?) with 10% calcite, blebs of sph, cpy at 60° to C.A.	424	475.1	475.6	0.5'	.10	.002
			485.8' - 1/4" - 1/2" fault gouge & mud with galena along the edge at 40° to C.A.	425	485.6	486.0	0.4'	0.54	
		hd 383.7* vd 308.9	492.7' - 3/4" chlorite-calcite vein with 5% Co-As (round blebs), at 30° to C.A.	434	492.5	492.9	0.4'	3.23	
65.0	671.1	hd 538.1 vd 406.5	ANDESITE - fine grained, dark green, well pillowed andesite to 569'. At 569' - 625' it is more massive with occasional pillow selvage.  At 625' - 647' well pillowed. Bottom contact is 30° - 35° to C.A.  ALTERATION: Local heavy, dark green chlorite alteration in and around the pillows to 569' and 631' - 633'  "grid" alteration with creamy to white bleaching of small frags in the pillow selvages. -orange felds alt'n. occurs at 622' - 633'. -light green epidote alt'n. is common after 639' usually along pillow rims.						
671.7	702.7	hd 559.6 vd 428.7	TUFF - grey, coarse sand size tuff beds. 0 - 20% white felds (?) grains throughout indicating a x-tal tuff. Pyroclastic tuff beds with pebble-size frags. occur at 688.3' - 690.6', 695.5' - 698.2'.  STRUCTURE - bedding is generally 45° - 55° to C.A. - tops - ?						
702.7	727.5	hd 580.4 vd 437.2	ANDESITE (?) - dark green, fine grained locally pillowed andesite. Upper contact is 40° to C.A. Lower contact is 50° to C.A.  ALTERATION: intense light green epidote, orange & white felds alt'n. to 718'.						



FOOTAGE		SECTION " =	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS						
FROM	TO													
			- - 1% - 5% po occurs in the feldspar porphyry frags.											
			- tr sph starts to occur in frags after 896'.											
			STRUCTURE: occasional chert beds and feldspathic tuff beds are generally at 60° to C.A.											
937.3	1046'	873.9 vd 563.4	FELDSPAR LAPILLI TUFF - medium grey, fairly massive coarse grained; feldspar x-tal tuff with 0 - 10% angular frags. of chert and white feldspar porphyry (possibly some bleached andesite). The frags are generally 1/4" - 1/2" diam. Increasing black chert frags (up to 10%) at 1009' - 1025'. Gradational contact to pyroclastic breccia. There is a general increase in size and number of fragments from 1030' - 1046'. ALTERATION: 0 - 5% light green chlorite streaks throughout. Occasional 1" - 3" zone of 30% light green chlorite. MINERALIZATION: very sparse blebs and grains of po. generally 1% diss. po throughout. STRUCTURE - occasional faint bedding is 60° to C.A. VEINS: 941.1' - 1 1/2" pink, weathered & broken up calcite vein with tr ga, cpy. (can't determine angle)											
1046	1065'	891.5 vd 570.5	PYROCLASTIC BRECCIA - angular to rounded fragments of porphyry, chert and andesite in a coarse grained, medium grey feldspar x-tal tuff.											
1065	1132'	954.0 vd 594.6	TUFF AND ARGILLITE - interbedded coarse grained, massive, feldspar x-tal tuff and medium to dark grey, fine grained, well-bedded argillite. Occasional black (graphitic ?) hairline beds occur within the argillite.											
				7681	940.9	941.4	0.5'							(whole core sampled)











FOOTAGE		SECTION " =	DESCRIPTION				ASSAYS							
FROM	TO			SAMPLE NO.	FROM	TO	LENGTH	Ag						
713.4	857.5	hd 670.3 vd 534.4	LAMPROPHYRE DYKE - dark green, med. to coarse grained, massive, biotitic dyke. 1/16" white calcite stringers at random angles occur about 1 per 12". The core is generally blocky throughout.											
			VEINS:											
			714.2' - 716.2' - zone of brecciated wall rock with white calcite filling. Some py occurs in the calcite.	440	714.2	716.2	2.0'	.02						
			765.7' - 1/8" white calcite vein at 50° to C.A.	441	765.4	766.0	0.6'	.03						
		hd 604.3 vd 486.5	776.0' - 784.0' - FAULT ZONE - very badly broken & mudded core with chl. slips. A few pink calcite stringers occur.											
			802.9' - 3/8" pink calcite vein at 90° to C.A.	442	802.8	803.1	0.3'	.02						
			810.7' - 1/4" pink calcite-qtz. vein at 70° to C.A.	443	810.5	811.0	0.5'	tr						
		hd 646.4 vd 517.0	828 - 830' - blocky ground, possible fault											
					780	790	10'	.02						
					790	800	"	tr						
					800	810	"	.02						
					810	820	"	tr						
					820	830	"	.02						
					830	840	"	.03						
					840	850	"	.02						
857.5	907.0	hd 710.6 vd 563.1	BLACK AND BROWN CHERT - very fine grained, hard, well bedded chert (85% black). More black, massive chert occurs after 879' to 903.6'.											
			Lamp. dykes at 888.4' - 896.0', 903.6' - 907.0' contain numerous 1/8" - 1/2" white calcite veins (no min. seen)											
			STRUCTURE: bedding is 65° at 863'											
			45° at 882'											
			55° at 903'											
			tops are up the hole - flame at 859'											
			flame & graded bed at 889'											
					850	860	"	.04						
					860	870	"	.03						
					870	880	"	.06						
					880	890	"	.05						
					890	900	"	.04						
					900	910	"	.06						
					910	920	"	.09						
					920	930	"	.08						
					930	940	"	.04						
					940	950	"	.03						
					950	960	"	.04						
					960	970	"	.03						





PROPERTY DRUMMOND	TP OR AREA COLEMAN	AZIMUTH 245°49'	DATE STARTED Sept. 18/78	CORRECTED DIP TESTS		LOCATION SKETCH OF HOLE
PROJECT 131.3	LOT & CONC. 2 IV	DIP -40°29'	DATE COMPLETED Sept. 21/78	200' -43°		
CLAIM NO.	CO-ORDINATES. 5111.ON, 10,474.2E	LENGTH 549'	DRILLED BY AQ SIZE Barron D.D.	400' -42°	252.5°	
GRID NO.	CORE AT BAILEY PROPERTY	COLLAR ELEV. 1045'	LOGGED BY R.S. Nichols	540' -41°		

FOOTAGE		SECTION	DESCRIPTION	CORRECTED DIP TESTS			ASSAYS	
FROM	TO	1"=		SAMPLE NO.	FROM	TO	LENGTH	Ag
0	26'	hd 19.6	CASING					
		vd 17.0						
26'	357.7	hd 264.7	NIPISSING DIABASE - typical coarse grained, massive, dark green diabase. Lower contact is 65' to C.A. No hypersthene diabase seen.		20	130	110'	tr (at 10' intervals)
		vd 240.6			130	140	10'	.02
					140	180	40'	tr
					180	190	10'	.02
					190	200	10'	tr
			10% Coarse, round chlorite (dark green) spots occur at 86' - 132'		200	220	20'	.02
					220	280	60'	tr
			VEINS:		280	300	20'	.03
					300	320	20'	.02
					320	330	10'	.03
		hd 49.1	65' - 89' - FAULT ZONE - altered, badly broken up dia- base with chl. slips and red hematite stain.		330	340	"	tr
		vd 42.6			340	350	"	tr
		hd 67.2			350	360	"	tr
			84.4' - 1/2" calcite - chl. vein at 30° to C.A.	7506	84.0	84.9	0.9'	.02
			99.7' - 1/16" white calcite vein with 1" alt'n. halo, at 75° to C.A.					
			101.0 & 101.3' - 1/4" white calcite veins along gouge at 40° to C.A. No alt'n. halo.					
		hd 110.4	147.7' - 1/2" strong, grey calcite vein with 1/2% Cpy at 25° to C.A. A 2" (true width) alt'n. halo looking occurs.	7507	147.2	147.8	0.6'	.05
		vd 98.1						
			172.8' - 1/2" green quartz-calcite vein at 30° to C.A. Alt'n. halo is less than 1/2".					
			231.6' - 3/8" grey calcite vein with tr py at 70° to C.A. No alt'n. halo.	7508	231.5	231.8	0.3'	.02



FOOTAGE		SECTION " =	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS				
FROM	TO							Ag				
	hd 207.0 vd 188.2	279.8'	1" white qtz.-Ca vein with 1% po, tr cpy at good 30° to C.A. 3"- 4" alt'n. halo.	7509	279.6	280.3	0.7'	.05				
357.7	431.1	hd 319.2 vd 289.7	KEEWATIN TUFF - fine to coarse grained, med. grey tuff. Some coarse angular pebble size frags of light & dark occur at 391' - 413' Long thin shards of crushed pumice (?) occur in some beds to 395'. Some interbedded dark chert occurs at 402' - 405'.		360	370	10'	tr				
					370	380	"	tr				
					380	390	"	tr				
					390	400	"	tr				
					400	410	"	tr				
					410	420	"	tr				
					420	430	"	tr				
			STRUCTURE: bedding is 35° - 40° to C.A.									
			ALTERATION: local chl. alt'n. occurs as fine grains to 3" - 4" sections of 10-15% chl.									
			The dark chert frags have bleached rims and some frags are almost completely bleached.									
			MINERALIZATION: sparse sulphides occur usually in calcite blebs.									
			VEINS:									
			379.2' - 1/4" pink calcite vein, tr cpy at 30° to C.A.									
			386.5', 387.8' - 2" - 3" white quartz - chl. veins (?) with py and mag.									
			414.1' - 1/2" qtz. - pink calcite vein with 20% chl. at 70° to C.A.									
431.8	482.0	hd 357.0 vd 323.8	LAMPROPHYRE DYKE - dark green, coarse grained, massive, biotitic dyke.		430	440	10'	tr				
					440	450	"	.02				
					450	460	"	tr				
			Upper contact is 60° to C.A.		460	470	"	.02				
			Lower contact is 30° to C.A.		470	480	"	tr				



PROPERTY BURSARY	TP OR AREA COLEMAN	AZIMUTH 248° 20'	DATE STARTED Sept. 26/78	CORRECTED DIP TESTS 200' -47°		LOCATION SKETCH OF HOLE
PROJECT 131.1	LOT & CONC. 2 V	DIP -44° 43'	DATE COMPLETED Sept. 29/78	400' -50°		
CLAIM NO.	CO-ORDINATES 329G, 7N, 11, 331.0E	LENGTH 841.5	DRILLED BY AQ SIZE Barron D.D.	600' -51°		
GRID NO.	Core At Bailey Property	COLLAR ELEV. 1113.6	LOGGED BY R.S. Nichols	700' -49° 259°		

FOOTAGE		SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS	
FROM	TO	"=						Ag	
0	12'	hd 8.5	CASING						
		vd 8.5							
12	841.5	hd 555.7	NIPISSING DIABASE - typical coarse grained, massive, dark green diabase, - 5% - 10% hypersthene occurs at 280' - 841.5'.		10	260	250'	tr-.02	(at 10' intervals)
					260	780'	520'	tr	inclusive (at 10' intervals)
					780	840	60'	tr-.02	(at 10' intervals)
			VEINS:						
			112.9' - 6" alteration zone, some 1/8" calcite veining at 50° to C.A.	7512	112.6	113.2	0.6	tr	
			131.9' - irregular 1/8" - 1/2" white calcite vein at 40° to C.A. Approx. 1" alt'n halo.	7513	131.7	132.2	0.5	.03	
		hd 116.1	166.6' - 1/2" white calcite vein at 40° to C.A. Wall	7514	166.4	166.9	0.5	tr	
		vd 119.4	*good rock alt'n. and red felds occurs for 4"- 5" looking on each side of vein.						
			181.3' - 1/2" white calcite vein at 35° to C.A. Alt'n. zone (red feldspathic) for 3" - 4" on each side.	7515	181.0	181.5	0.5	tr	
		hd 169.7	245.1' - 1 1/2" pink calcite vein with possible arsenides	7516	244.9	245.5	0.6	tr	
		vd 176.8	*good at 40° to C.A. Wall rock alt'n for 6" +. looking						
			256.5' - 4"- 5" fine grained dark green altered section bordered by 1/2" light coloured zone at 30° to C.A.						
			263.2' - 2" fine grained, dark green, altered section bordered by 1/4" light coloured zone at 50° to C.A.						





PROPERTY HARGRAVE	TP OR AREA COLEMAN	AZIMUTH 247°16'	DATE STARTED Oct. 3/78	CORRECTED DIP TESTS			LOCATION SKETCH OF HOLE
PROJECT 130.2	LOT & CONC. 2 IV	DIP -40°16'	DATE COMPLETED Oct. 12/78	200'	-43°	253° acid test	
CLAIM NO.	CO-ORDINATES 4770.5N, 10,419.0E	LENGTH 1111'	DRILLED BY AQ Size Barron D.D.	400'	-45°		
GRD NO.	Core at Bailey Property	COLLAR ELEV. 1083.1'	LOGGED BY <i>R.S. Nichols</i> R. S. Nichols	500'	-45°		
				600'	-46°		
				800'	-47°		

FOOTAGE		SECTION	DESCRIPTION	SAMPLE NO.			ASSAYS		
FROM	TO	1"=		FROM	TO	LENGTH	Ag		
0	10	hd 7.7 vd 6.4	CASING						
10	614.9	hd 444.1 vd 424.7	NIPISSING DIABASE - typical coarse grained, massive, dark green diabase. 0-10% honey-brown hypersthene phenocrysts occur at 55'-120', 220'-267', 340'-460'. Blocky core at 44' - 53', 136' - 146'.  Contact is well chilled, at 85° to C.A.	10	290	280'	tr (at 10' intervals)		
			VEINS:	290	300	10'	.18 *copper present		
				300	620	320'	tr (at 10' intervals)		
		hd 221.4 vd 199.3	298.0' - ground core with pieces of serpentine and chalcopyrite. No obvious vein. The wall rock is slightly bleached for 2.5' on each side.						
		hd 281.6 vd 259.4	383'-390' - FAULT ZONE - very blocky core with chl. slips and red hematite stain.						
			571' - 3" light grey, carbonated zone at 30°-40° to C.A. (not a definite vein).						
			586.7' - 3/8" green calcite-chl. vein with 1" alt'n. halo, at 30° to C.A.						
		hd 427.3 vd 407.3	590.7' - 1/2" white calcite-chl. along slip, with 1" strong alt'n. halo, at 45° to C.A.	7527	590.5	590.9	0.4'	.02	
			592.6' - 3/8" green calcite-chl. vein at 30° to C.A. 1" alt'n. halo.						
		hd 433.6 vd 413.9	599.8' - 1/2" grey calcite-chl. vein at 30° to C.A. with a strong 1 1/2" alt'n. halo.	7528	599.4	600.0	0.6'	.03	



FOOTAGE		SECTION " =	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS						
FROM	TO							Ac						
			VEINS:											
			652.5' - 3/8" pink calcite vein at 40° to C.A.											
			656.6' - pink calcite vein 1 1/2" to C.A.											
			670.5' - 3/4" pink calcite chlorite vein at 60° to C.A.	7529	670.2	670.7	0.5'	.02						
			686.1' - 1 1/2" pink feldspar-white calcite vein at 80° to C.A.											
		hd 519.9* vd 502.1	good looking 723.2' - 1" grey calcite vein with 10% sph-ga throughout and fine Co-As along the edges, at 25° to C.A.	7530	723.0	723.7	0.7'	4.22						
840.5	871.9	hd 626.9 vd 605.4	X-TAL TUFF - hard light to dark green, tuff with abundant white feldspar x-tals. The top contact is reddish coloured to 842.3'.  1/2" - 3" fragments of dark green mafic rock occur in the tuff at 840.5' - 850' (lower contact is gradational over several feet).  Lower contact grades into pyroclastic breccia from 867' - 871.9.		840	850	10'	tr						
					850	860	"	tr						
					860	870	"	tr						
			STRUCTURE: bedding appears to be very contorted from 20° to 60° to C.A.											
			ALTERATION: no chlorite alteration is evident - white bleaching of some frags. is common.											
			MINERALIZATION: very sparse blebs or stringers of po-cpy occur.											
871.9	920.5	hd 661.8 vd 639.2	CHERT - dark grey-green, fine grained, well bedded chert. Local thin x-tal tuff beds occur. 1%-5% white feldspar x-tals occur at 888'-897'. Lamp. dykes occur at 904.1-905.5', 909.0'-910.7.		870	880	10'	tr						
					880	890	"	.02						
					890	900	"	tr						
					900	910	"	tr						
					910	920	"	tr						



FOOTAGE		SECTION " =	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS					
FROM	TO							Ag					
			STRUCTURE: bedding angles from 30° - 50° to C.A. - graded bedding at 919.5' - TOPS UP THE HOLE										
			ALTERATION: local "grid" type alteration is developed along and across beds.										
			MINERALIZATION: sparse, fine grains of sph occur.										
920.5	979.3	hd 704.1 vd 680.0	PYROCLASTIC BRECCIA - coarse, angular, predominantly mafic fragments in a light to dark green, x-tal tuff matrix.	920	930	10'		.02					
				930	940	"		.03					
				940	950	"		.03					
			Lamp dykes occur at 960.9' - 964.3'	950	960	"		.02					
				960	970	"		.02					
				970	980	"		.04					
			Grades into tuff at 968'										
			STRUCTURE - local bedding angles range from 30° - 50° to C.A.										
			ALTERATION: some 6" - 3' beds appear to have intensive chlorite alteration, although they are still hard to scratch with a nail.										
			MINERALIZATION: 0 - 1/2% fine disseminated sphalerite. occurs throughout in the altered and unaltered sections. Some pyrite clusters occur. Tr cpy occurs rarely.										
979.3	1104.6	hd 794.2 vd 767.1	LAMPROPHYRE DYKE - coarse grained, massive, dark green, locally very biotitic dyke.	980	990	10'		.03					
				990	1000	"		.04					
				1000	1010	"		.02					
				1010	1020	"		.02					
			Upper contact is 55° to C.A.	1020	1030	"		.03					
				1030	1040	"		.02					
			Lower contact is 20° to C.A.	1040	1050	"		.02					
				1050	1060	"		tr					
				1060	1070	"		tr					
				1070	1080	"		tr					
				1080	1090	"		.02					
				1090	1100	"		.04					



PROPERTY NORTH DRUMMOND	TP OR AREA COLEMAN	AZIMUTH 180° 34'	DATE STARTED Oct. 13/78	CORRECTED DIP TESTS 180° -49°		LOCATION SKETCH OF HOLE
PROJECT 131.3	LOT & CONC. 2 V	DIP -46° 34'	DATE COMPLETED Oct. 16/78			
CLAIM NO.	CO-ORDINATES. 7156.5N, 9698.8E	LENGTH 296'	DRILLED BY AQ Size Barron D.D.			
GR D NO. Core At Bailey Property		COLLAR ELEV. 1118.94	LOGGED BY <i>R.S. Nichols</i> R.S. Nichols			

FOOTAGE		SECTION	DESCRIPTION	ASSAYS				
FROM	TO	"		SAMPLE NO.	FROM	TO	LENGTH	Ag
0	8		CASING					
8	296	hd 194.2 vd 223.2	NIPISSING DIABASE - typical coarse grained, massive dark green diabase. Local short sections are weakly magnetic. 0-5% hypersthene occurs as fine grains to 70'.  At 78'- 90' the diabase appears finer grained.  At 90'- 296' the diabase is coarse grained with more white felds. (about 10-15%) and 1-10% hypersthene. Strong, coarse grained hypersthene occurs at approx. 280'.	SLUDGE	8	296	288'	tr (samples at 10' intervals)
			VEINS:					
			127.3' - 1/4" white quartz vein with 1/2" alt'n. halo.					
		hd 110.5 vd 121.8	164.5' - 3/4" gouge chl.-Ca vein at 45° to C.A. The diabase is not strongly altered.	7540	163.7	164.7	1.0'	.09
		hd 156.1 vd 176.1	235.4' - 1/2" gouge, chl-Ca -red hem. zone at 30° to C.A. Diabase is light coloured for 6" on each side (not typical vein alt'n. halo).	7541	235.2	235.8	0.6'	tr
	296'		END OF HOLE - CASING LEFT IN.					

PROPERTY NORTH DRUMMOND	TP OR AREA COLEMAN	AZIMUTH 336° 52'	DATE STARTED Oct. 17, 1978	CORRECTED DIP TESTS 200' -45°		LOCATION SKETCH OF HOLE
PROJECT 131.3	LOT & CONC. 2 V	DIP -44° 29'	DATE COMPLETED Oct. 23, 1978	400' -41°	acid test	
CLAIM NO.	CO-ORDINATES. 6598.3N, 10, 112.5E	LENGTH 453'	DRILLED BY AQ SIZE Barron D.D.	400' -40°	344° (tropari)	
GRD NO.	Core At Bailey Property	COLLAR ELEV. 1002.3'	LOGGED BY <i>R.S. Nichols</i> R.S. Nichols			

FOOTAGE		SECTION	DESCRIPTION	SAMPLE NO.			ASSAYS	
FROM	TO	1" =		FROM	TO	LENGTH	Ag	
0	18	hd 12.7	CASING					
		vd 12.7						
18	453	hd 328.2	KEEWATIN TUFF & CHERT - light to medium grey, hard,	20	30	"	tr	
		vd 311.9	very fine grained chert with grey, siliceous,	30	40	"	tr	
			fine grained, interbedded tuff and lapilli tuff.	40	50	"	tr	
			The core is generally blocky throughout.	50	60	"	.02	
			Lapilli tuff beds occur at 28.5' - 36.5',	60	70	"	tr	
			171.5' - 198.0'.	70	80	"	.02	
				80	90	"	tr	
				90	100	"	tr	
			STRUCTURE: bedding is locally contorted. The follow-	100	110	"	.02	
			ing angles are distinct:	110	120	"	tr	
			50° at 27.5', 75° at 45', 50° at 63',	120	130	"	tr	
			35° at 84', 50° at 91', 35° at 100', 35° at 108',	130	140	"	.02	
			30° at 127', 65° at 160', 35° at 199', 35° at 234',	140	150	"	.02	
			45° at 347', 30° at 396', <20° at 430' - 453'.	150	160	"	.03	
				160	170	"	.02	
				170	180	"	.04	
			- graded bed at 27.5' - tops up the hole (i.e. South)	180	190	"	.03	
			" " " at 43' - tops up the hole	190	200	"	.02	
			" " " at 199' - tops up the hole	200	210	"	.04	
			ALTERATION: "grid" type alteration (with fine 1/32"	210	220	"	.03	
			light coloured stringers) is well developed to	220	230	"	.03	
			85.5'. After it is locally developed over short	230	240	"	.04	
			1' - 3' sections.	240	250	"	.04	
				250	260	"	.03	
			- red feldspathic alteration occurs in lapilli	260	270	"	.02	
			tuff bed at 171.5' - 198.0'. Also 1%-5% chl. alt'n.	270	280	"	.03	
			and "grid alt'n."	280	290	"	.02	
			- strong, dark green chl. alt'n. at 435' - 453'	290	300	"	.04	
			MINERALIZATION: tr py, sph or cpy seen rarely	300	310	"	.04	
				310	320	"	.03	
			154.5' - 160.0' - stringers of cpy, sph-py occur in	320	330	"	.04	
			chl. alt'n. (total 1/2% combined sulphides).					

FOOTAGE		SECTION " =	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS							
FROM	TO							Ag	Cu	Pb	Zn	Au			
			163.5' - 165.0' - stringers of pyrite in rock, 1/2% total.												
			212' - 228.5' - tr, fine sph occurs along hairline chlorite alt'n. streaks.	7533	213	218	5.0'	.06	--	.12	.19				
				7534	218	223	5.0'	.05	--	.052	.09				
				7535	223	228	5.0'	.03	--	.072	.19				
				7536	228	233	5.0'	.03	--	.076	.12				
				AVERAGE	213	218	5.0'	.04	--	.076	.15				
	hd 176.4 vd 175.2		248.6' - 249.2' - zone of 20% pyrite, 5% po stringers.	7537	248.6	249.2	0.6'	.51							.005
			296.5' - 304.5' - 1/2% finely diss. sph.		330	340	10'	.03							
					340	350	"	.03							
					350	360	"	.04							
					360	370	"	.03							
					370	380	"	.02							
					380	390	"	.03							
					390	400	"	.03							
					400	410	"	.03							
					410	420	"	.02							
					420	430	"	.03							
					430	440	"	.03							
			VEINS:		440	450	"	.02							
			76.1' - 3/4" pink calcite vein at 45° to C.A. Tr cpy occurs in wall rock for 3'.	7531	75.9	76.5	0.6'	.03							
			144.9' - 1/2" grey calcite vein at 40° to C.A. 1" of 10% py in wall rock occurs on the south wall of vein.	7532	144.7	145.2	0.5'	.05							
			186.0' - 1" white quartz vein at 60° to C.A. 1/2% cpy-py occurs in chloritic wall rock for 6-8".												
			231.0' - 2" white quartz-chlorite vein.												
	hd 207.2 vd 205.0		*good 291.5' - 1 1/4" grey calcite vein, tr cpy at 70° looking to C.A.	7538	291.3	291.8	0.5'	.23							
	hd 265.8* vd 258.2		*good 370.7' - 1/2"-3/4" white calcite vein with 80% looking arsenides at 25° to C.A.	7539	370.5	370.9	0.4'	.08							



PROPERTY NORTH DRUMMOND	TP OR AREA COLEMAN	AZIMUTH 338°41'	DATE STARTED Oct. 24, 1978	CORRECTED DIP TESTS		LOCATION SKETCH OF HOLE
PROJECT 131.3	LOT & CONC. 2 V	DIP -48°22'	DATE COMPLETED Oct. 30, 1978	200' -48°	345°	
CLAIM NO.	CO-ORDINATES 6874.4N, 9980.0E	LENGTH 822'	DRILLED BY Barron D.D.	300' -50°	344°	
GRID NO.		COLLAR ELEV. 1029.9'	LOGGED BY R.S. Nichols	400' -54°		
				500' -50°		

FOOTAGE		SECTION	DESCRIPTION	CORRECTED DIP TESTS			ASSAYS	
FROM	TO	1"=		SAMPLE NO.	FROM	TO	LENGTH	Ag
0	31'	hd 20.7 vd 23.0	CASING					
31'	445.5	hd 286.1 vd 341.1	NIPISSING DIABASE - typical coarse grained massive, dark green diabase. Hypersthene does not occur.  Blocky core at 77' - 81', 105' - 107', 246' - 267'. Local sections are magnetic. Becomes fine grained at 439'. Contact is at 70° to C.A.		31	450	419'	tr-0.2 (inclusive at 10' intervals)
		hd 140.4 vd 156.5	210.3' - 2" white qtz.- chl. vein with 3% cpy, at 60° to C.A.	7542	210.0	210.5	0.5	.45
			251' - several 1/8" light green alteration (not carbonate) bands at 50° to C.A.					
445.5	535.8	hd 345.2 vd 409.3	PYROCLASTIC ANDESITE BRECCIA - looks like a pyroclastic breccia but all the frags. are dark green andesite with varying degrees of alteration. The frags. are 1/8" - 2" diam., mostly rounded.  Possible bedding (frags. aligned) at 45° at 463', at 40° at 524'.  Blocky ground at 445' - 482'. Abrupt contact with andesite.		450	460	10'	.05
					460	470	"	.03
					470	480	"	.03
					480	490	"	.02
					490	500	"	.03
					500	510	"	.03
					510	520	"	.02
					520	530	"	.02
					530	540	"	.02
			ALTERATION: local red feldspathization occurs within fragments. - some dark green chl. stringers & flecs occur.					
			MINERALIZATION: tr sph, occurs as very fine, disseminated grains in frags. & matrix.					









PROPERTY NORTH DRUMMOND	TP OR AREA COLEMAN	AZIMUTH 38° 12'	DATE STARTED Nov. 2, 1978	CORRECTED DIP TESTS 200' -47°		LOCATION SKETCH OF HOLE
PROJECT	LOT & CONC. 2 V	DIP -44° 22'	DATE COMPLETED Nov. 3, 1978			
CLAIM NO.	CO-ORDINATES. 6775.3N, 9948.9E	LENGTH 205'	DRILLED BY Barron D.D.			
GRID NO.	Core At Bailey Property	COLLAR ELEV. 1012.46	LOGGED BY <i>R.S. Nichols</i> R.S. Nichols			

FOOTAGE		SECTION	DESCRIPTION	SAMPLE NO.			ASSAYS			
FROM	TO	1" =		FROM	TO	LENGTH	Ag			
0	20		CASING							
20	198.2	hd 137.7 vd 141.3	NIPISSING DIABASE - typical coarse grained, massive, dark green diabase. The rock is generally weakly magnetic. No hypersthene seen. The diabase is generally darker and fine grained after 112'. Blocky core at 95' - 112'							
			VEINS:							
			87.5' - 1/2" white qtz-chl. vein, no alt'n. halo, at 45° to C.A.							
			109.3' - 2" light grey, fine grained, altered zone (no carbonate) at 50° - 60° to C.A.							
		hd 116.1 vd 118.6	166.6' - 1/2" chl-calcite vein with 1-5% fine arsenides at 40° to C.A. Wall rock is altered for ~4".	7546	166.6	167.0	0.4	.03		
198.2	205	hd 142.3 vd 146.2	KEEWATIN CHERT - fine grained, med. grey-green chert. Bedding is 30° to C.A.							
	205		END OF HOLE - CASING LEFT IN.							

PROPERTY North Drummond	TP OR AREA Coleman	AZIMUTH 242° 47'	DATE STARTED Nov. 6, 1978	CORRECTED DIP TESTS			LOCATION SKETCH OF HOLE
PROJECT 131.3	LOT & CONC. 2 V	DIP -44° 43'	DATE COMPLETED Nov. 9, 1978	200'	-49°		
CLAIM NO.	CO-ORDINATES. 7040.6N, 10,194.5E	LENGTH 470	DRILLED BY AQ Size Barron D.D.	400'	-45°		
GRID NO.	Core at: Bailey Property	COLLAR ELEV. 1030.1	LOGGED BY <i>R.S. Nichols</i> R.S. Nichols	450'	-44°	263°	

FOOTAGE		SECTION	DESCRIPTION	SAMPLE NO.			ASSAYS						
FROM	TO	"		FROM	TO	LENGTH	Ag						
0	26'	hd 18.4 vd 18.4	CASING										
26	232.5'	hd 160.2 vd 168.3	NIPISSING DIABASE - typical coarse grained, massive, dark green diabase.	26	40	14'	tr						
			Becomes fine grained at 150' - 232.5'	40	50	10'	tr						
			Contact is sharp at 70° to C.A.	50	60	"	tr						
				60	70	"	.02						
				70	80	"	.02						
				80	90	"	.03						
				90	100	"	.02						
				100	110	"	tr						
				110	120	"	tr						
				120	130	"	tr						
				130	140	"	.02						
				140	150	"	.03						
			VEINS:	150	160	"	.02						
			144.4' - 1/4" white calcite-quartz-epidote vein at 55° to C.A. with bleb of cpy. Diabase is light coloured for 8" on each side.	160	170	"	tr						
				170	180	"	tr						
				180	190	"	.02						
				190	200	"	tr						
				200	210	"	.02						
			184.1' - 1/4" qtz.-epidote-feldspar vein at 60° to C.A.	210	220	"	tr						
				220	230	"	tr						
232.5	470	hd 328.0 vd 341.0	KEEWATIN CHERT - very fine grained, hard, well-bedded chert.	230	240	10'	.03						
				240	250	"	.03						
				250	260	"	.04						
			Lamp dyke (coarse grained, biotitic) occurs at 339.8' - 342.4'.	260	270	"	.06						
				270	280	"	.05						
				280	290	"	.06						
			Blocky core at 441' - 450'.	290	300	"	.03						
				300	310	"	.06						
				310	320	"	.05						
				320	330	"	.03						
				330	340	"	.03						

FOOTAGE		SECTION " =	DESCRIPTION				ASSAYS				
FROM	TO			SAMPLE NO.	FROM	TO	LENGTH	Ag			
					340	350	10'	.04			
					350	360	"	.04			
			STRUCTURE - bedding angles are:	70°	at 272'			.07			
				70°	at 254'			.05			
				60°	at 302'			.09			
				70°	at 330'			.06			
				70°	at 355'			.04			
				60°	at 369'			.04			
				60°	at 420', 451'			.04			
			- tops are - up the hole - graded bed at 264'			430	440	"	.04		
			" " " at 272'			440	450	"	.05		
			- down the hole - " " " at 253'			450	460	"	.04		
			- up the hole - graded bed at 262'			460	470	"	.04		
			- flame at 300'								
			- flame at 330'								
			- graded bed at 420'								
			ALTERATION: - some local "grid" type alteration occurs.								
			MINERALIZATION: very sparse sulphide mineralization.								
			Occassional 1"- 2" beds with 2% sph.								
			417 - 419.8' - approx. 1% sph diss. through-								
			out as fine to coarse grains.								
			VEINS:								
			250.3' - 1/2" chlorite vein with 1/8" pink calcite, at			7651	250.0	250.5	0.5'	.08	
			70° to C.A. The wall rock is carbonated for								
			4" and contains .5% cpy.								
			321.5' - 1/4" slightly pink calcite vein at 35° to C.A.			7652	321.3	321.6	0.3'	.03	
hd	230.6		338.2' - 1/2" - 3/4" white-calcite-chlorite vein at 40°			7653	337.8	338.5	0.7'	.06	
vd	247.2		to C.A. with some gouge.								
			362.5' - 1/8" white calcite vein at 30° to C.A.								
			389.0' - 1/8" white calcite vein at 60° to C.A.			7654	389.0	389.2	0.2'	.02	



PROPERTY North Drummond	TP OR AREA Coleman	AZIMUTH 335° 43'	DATE STARTED Nov. 10, 1978	CORRECTED DIP TESTS 200' -44°			LOCATION SKETCH OF HOLE
PROJECT 131.3	LOT & CONC. 2 V	DIP -42° 41'	DATE COMPLETED Nov. 13, 1978				
CLAIM NO.	CO-ORDINATES 6724.4N, 10,033.6E	LENGTH 301'	DRILLED BY AQ Size Barron D.D.				
GRID NO.	Core At: Bailey Property	COLLAR ELEV. 1013.1	LOGGED BY <i>R.S. Nichols</i> R.S. Nichols				

FOOTAGE		SECTION	DESCRIPTION	SAMPLE NO.			ASSAYS						
FROM	TO			FROM	TO	LENGTH	Ag						
0	27'	hd 19.7 vd 18.4	CASING										
27'	301'	hd 217.7 vd 207.8	NIPISSING DIABASE - typical, coarse grained, massive, dark green diabase.	30	40	10'	.03						
			Local 1" dark, fine grained, chloritic zones.	40	50	"	.04						
				50	60	"	.03						
				60	70	"	.03						
				70	80	"	.02						
				80	90	"	.02						
			Becomes fine grained at 110' - 166'	90	100	"	.04						
				100	110	"	.04						
			VEINS:	110	120	"	.03						
			70.5' - 1/8" white qtz. vein, no alt'n. halo, at 20° to C.A.	120	130	"	.04						
				130	140	"	.02						
				140	150	"	.03						
				150	160	"	.02						
				160	170	"	.02						
			123.1' - 1/4" qtz.-epidote-chlorite vein, no alt'n.halo at 35° to C.A.	170	180	"	tr						
				180	190	"	.02						
		hd 175.2 vd 166.8	242.0' - 1/2" pink calcite vein with 1" alt'n. halo, at 35° to C.A.	7656	241.7	242.3	0.6'	0.20					
					190	200	10'	.02					
					200	210	"	.02					
					210	220	"	.02					
					220	230	"	tr					
					230	240	"	0.02					
					240	250	"	0.02					
					250	260	"	tr					
		301'	END OF HOLE - CASING LEFT IN.		260	270	"	0.02					
					270	280	"	tr					
					280	290	"	tr					
					290	300	"	0.02					





