



DIAMOND DRILL REPORT - APRIL 1996 775741 ONTARIO LTD PROPERTY COOK TOWNSHIP LARDER LAKE MINING DIVISION RAMORE AREA - DISTRICT OF COCHRANE NTS 42 A/8

> DAVE GAMBLE DAVE GAMBLE GEOSERVICES INC. APRIL, 1996

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I INTRODUCTION

During the period from March 1, 1996 through to April 2, 1996 a three (3) hole diamond drill program totaling 1707 feet (520.29 metres) was completed on the 775741 Ontario Ltd, Cook Township property in the Larder Lake Mining Division, east of Ramore, Ontario. The property is held by 775741 Ontario Ltd. (90%) and by Charles Marshall (10%). The purpose of the diamond drill program was to test at depth, with one hole, an exposed quartz vein identified by Charles Marshall during prospecting. In addition a second hole was planned to test a selected horizontal loop electromagnetic (H.L.E.M.) conductor identified from ground geophysical surveys that were previously carried out on the property under the direction of Charles Marshall.

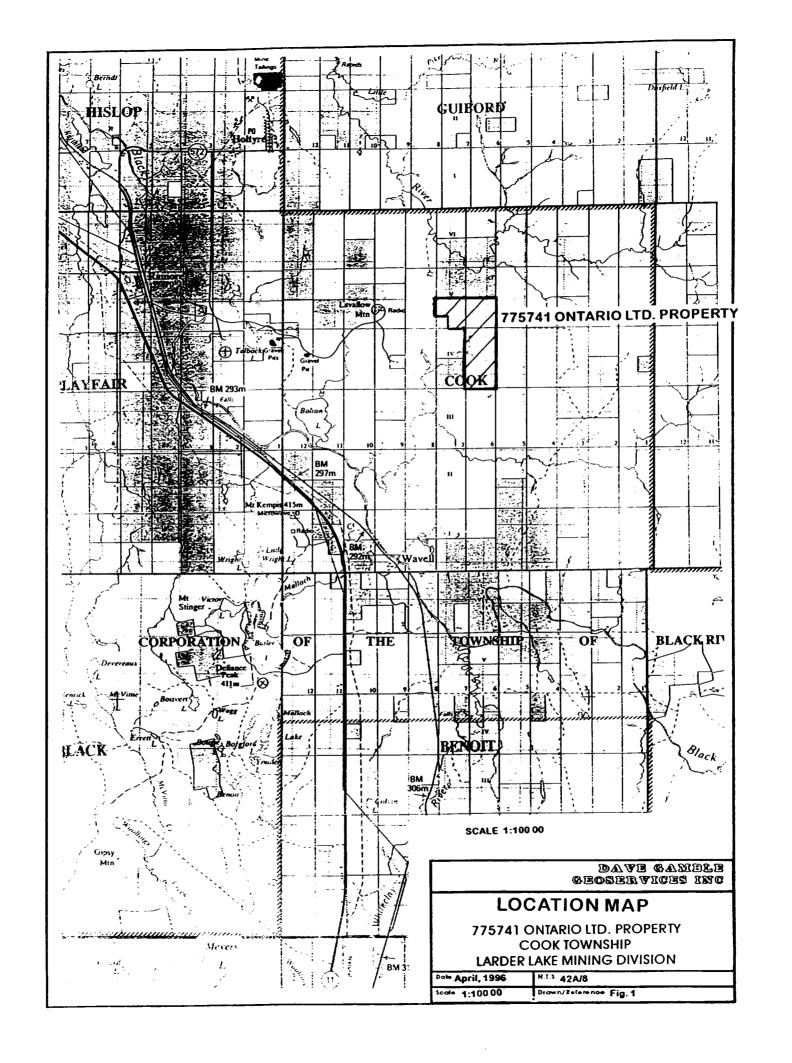
The diamond drill holes were determined, spotted, and monitored by Charles Marshall. All field information regarding location, azimuth, dip, and diamond drill company used, was supplied by Charles Marshall to the author of this report.

Dave Gamble, of Dave Gamble Geoservices Inc. carried out the drill core logging, splitting and sampling of the selected intervals, interpretation of assay results and geological data, and preparation of this drill report. This report describes the results obtained from this March/April 1996 drill program.

II LOCATION AND ACCESS

The project area is located approximately 35 miles north north-west of Kirkland Lake and 5.0 miles east of Ramore, Ontario, N.T.S. 42A/8, in the District of Cochrane, Larder Lake Mining Division (Figure 1). The property area can be reached using the Lava Mountain access road that leads easterly from Provincial Highway 11 at Ramore Ontario. Proceeding 4.75 miles along the Lava Mountain road a lumber access road leads southeast and easterly for 1.5 miles to the property.

The northeast corner of the property is located at 5 364 000 metres North and 559 200 metres East using the UTM coordinate system.

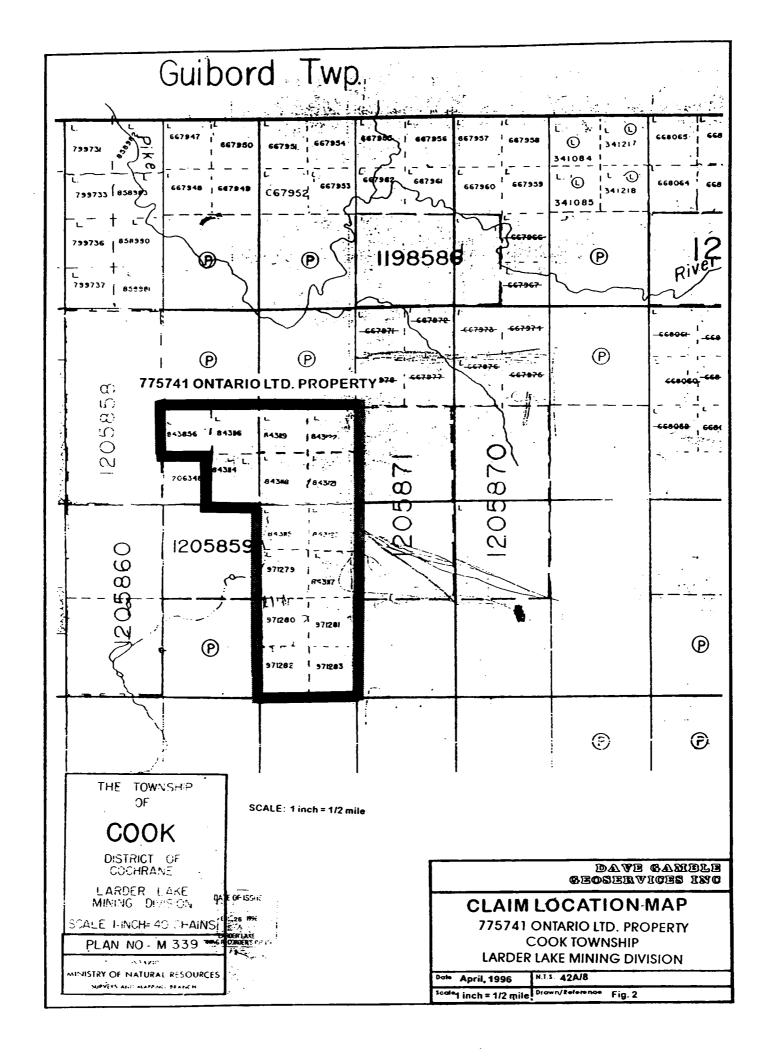


III CLAIM STATUS

The property is currently owned by 775741 Ontario Ltd (90 %) and by Charles Marshall (10 %) and consists of 15 claims totaling 15 units as listed in Table I. All claims lie in Cook Township, in the Larder Lake Mining Division, NTS 42 A/8, see Claim Location Map Fig 2.

TABLE I
CLAIMS INFORMATION - COOK TWP PROPERTY

CLAIM#	TWP /	PLAN	DESCRIPTION	UNITS	REC. DATE
L 843114	COOK	M 339	SE 1/4-S 1/2 - LOT 7-CON 5	1	June 03, 1985
L 843115	"	"	NW 1/4-N 1/2 - LOT 6-CON 4	1	June 03, 1985
L 843116	"	"	NE 1/4-N 1/2 - LOT 7-CON 5	1	June 03, 1985
L 843117	"	"	SE 1/4-N 1/2 - LOT 6-CON 4	1	June 03, 1985
L 843118	"	"	SW 1/4-S 1/2 - LOT 6-CON 5	1	June 03, 1985
L 843119	"	"	NW 1/4-S 1/2 - LOT 6-CON 5	1	June 03, 1985
L 843121	"	٠.	SE 1/4-S 1/2 - LOT 6-CON 5	1	June 03, 1985
L 843122	"	"	NE 1/4-S 1/2 - LOT 6-CON 5	1	June 03, 1985
L 843123	"	"	NE 1/4-N 1/2 - LOT 6-CON 4	1	June 03, 1985
L 843856	"	"	NW 1/4-S 1/2 - LOT 7-CON 5	1	June 03, 1985
L 971279	"	"	SW 1/4-N 1/2 - LOT 6-CON 4	1	June 26, 1987
L 971280	"	"	NW 1/4-S 1/2 - LOT 6-CON 4	1	June 26, 1987
L 971281	"	"	NE 1/4-S 1/2 - LOT 6-CON 4	1	June 26, 1987
L 971282	"	"	SW 1/4-S 1/2 - LOT 6-CON 4	1	June 26, 1987
L 971283		"	SE 1/4-S 1/2 - LOT 6-CON 4	1	June 26, 1987



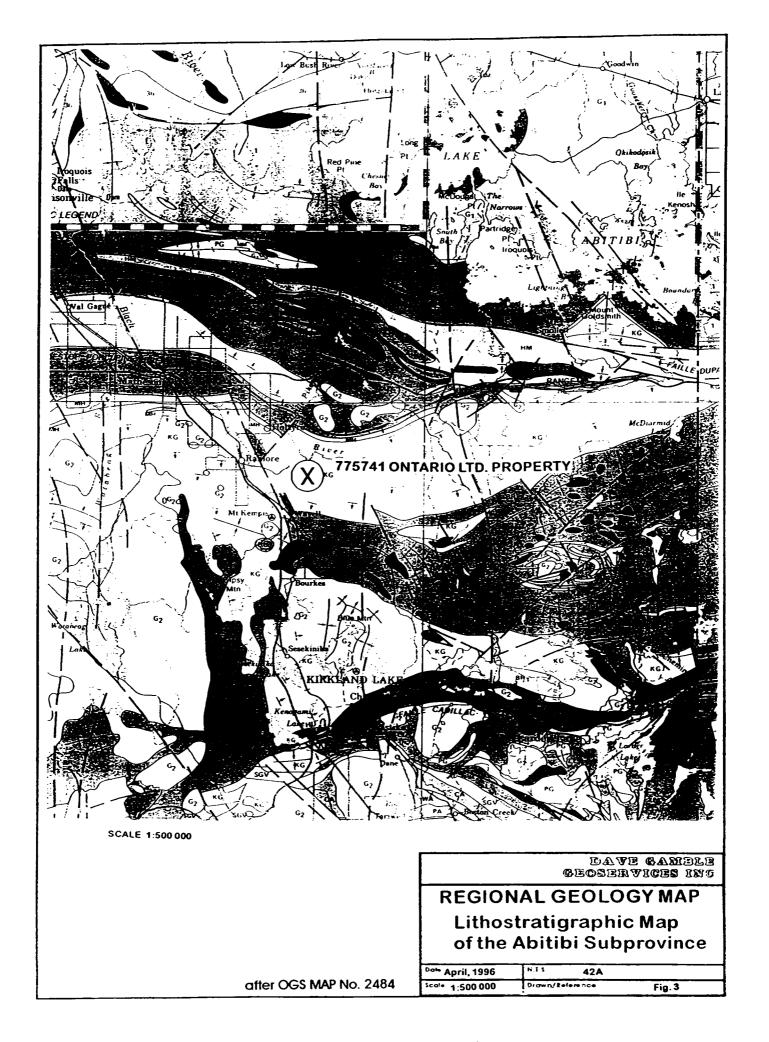
IV REGIONAL GEOLOGY

The 775741 Ontario Ltd property in central Cook Township lies within the regional geological setting of the western portion of the Archean Abitibi greenstone belt, see Regional Geology Map, Fig 3. A major calc-alkaline belt of mafic to felsic volcanics lying to the south of the Porcupine-Destor fault are known as the Blake River Group. This mafic to felsic volcanic assemblage has been complexly folded into a major regional synclinal structure known as the Blake River syncline. The Blake River (BR) assemblage is underlain by the older Kinojevis Group (KG) of mafic volcanics.

The 775741 Ontario Ltd property is situated within the Kinojevis Group (KG) of mafic volcanics and on the northern limb of this regional synclinal structure. The mafic volcanic stratigraphy strikes easterly, dips vertically or steeply south, and faces south on the 775741 Ontario Ltd. property. The property also lies immediately to the north of the western nose of the Blake River group and several miles south of the east trending Porcupine-Destor Fault. In addition several regional north-northwest trending faults transect the area.

The commodities and type of deposits sought for on the 775741 Ontario Ltd. property are volcanogenic polymetallic massive sulphide mineralization (Cu-Zn-Au-Ag) and/or structurally related quartz vein gold mineralization.

O.G.S. map 2484 is one of the available public compilations of the current regional geology of the area.



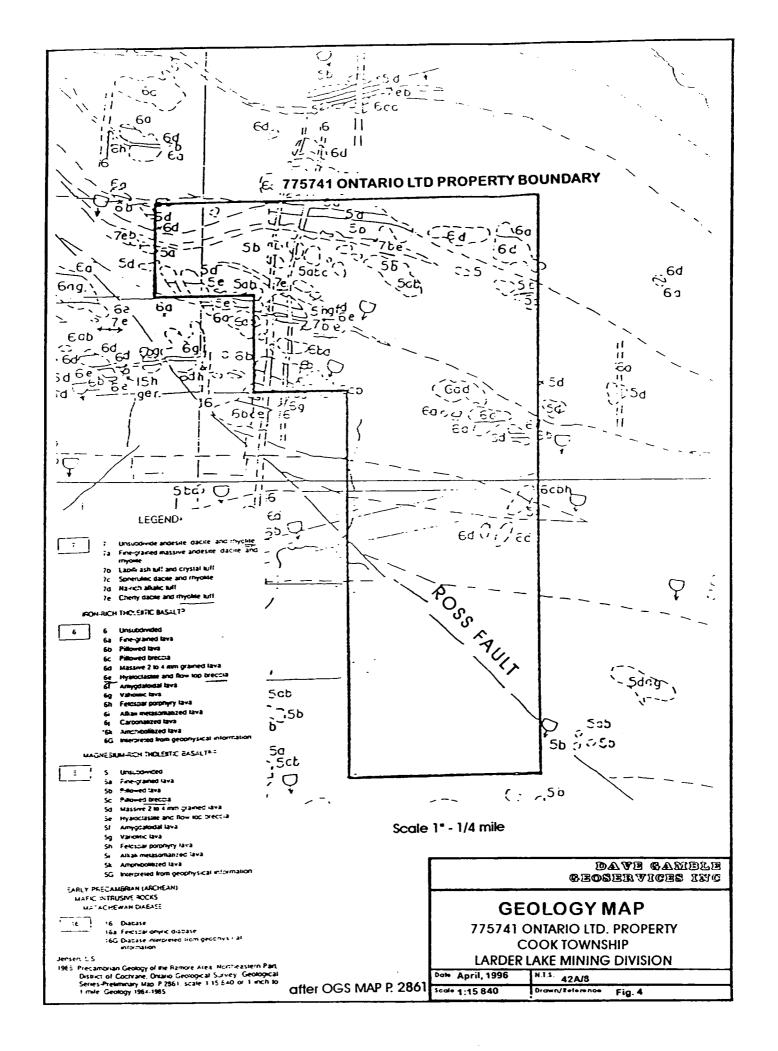
V PROPERTY GEOLOGY

The geology of the Ramore area has been mapped by L. S. Jensen at a scale of 1 inch to 1/4 mile, OGS Map P- 2861, which provides some geological coverage over the 775741 Ontario Ltd property.

Bedrock is exposed in the immediate area of the property and outcrops have been identified as Kinojevis Group basalt flows as indicated on Jensen's map, see Property Geology Map Fig 4. The exposures within the property have been identified as both iron-rich and magnesium-rich tholeiitic basalt flows with minor thin interflow horizons of intermediate to felsic tuffaceous rocks.

The units outlined form a conformable sequence of interbedded iron-rich and magnesium-rich basalt flows with the development of interflow sediments, tuffs, or breccia along several horizons. This series of basalt flows strike eastwest, face south from pillow determinations, and dip vertically to steeply south. This structural orientation supports the location of the 775741 Ontario Ltd property as lying within a south facing mafic volcanic sequence that is vertically to steeply south dipping and located on the north limb of the major Blake River regional synclinal structure.

The north-west striking fault defined by L. S. Jensen (1985) passes through the south half of the property and is known as the Ross Fault. The Ross Mine, a local gold producer, is located on this structure approximately 5 miles to the northwest. This structure is thought to be a splay fault off the Destor-Porcupine Fault Zone to the north. The existence of an economic gold deposit on this structure is of exploration significance for the 775741 Ontario Ltd. property.



VI PREVIOUS WORK

The 775741 Ontario Ltd. property has no known recorded diamond drill hole information where the current drilling was undertaken.

Charles Marshall has carried out exploration programs on the property in 1987-1990 and 1993-1994 as reported in Larder Lake Mining Division Assessment Files in Kirkland Lake as follows;

Assessment File KL - 1744

- -Airborne mag and VLF-em Surveys, 1987, by H. Ferderber Geophysics Ltd.
- -Ground mag and Max-Min HLEM (1777, 3555 Hz) surveys, 1988, by H. Ferderber Geophysics Ltd
- -Humus Gold Geochemical Survey, 1989, by D. R. Boucher
- -Trenching, 1990, by C. Marshall

Assessment Report KL - 3337

-Trenching, 1993, by C. Marshall

Assessment Report KL - 3183

-Trenching, 1994, by C. Marshall

VII DRILL PROGRAM 1996

During the period from March 01, 1996 through to April 02, 1996, a diamond drill program consisting of three holes totaling 1707 feet (520.29 metres) was completed, see Drill Hole Location Map Fig 5. The drill hole collar locations relative to the northeast corner on the following gridded mining claims are listed in Table II:

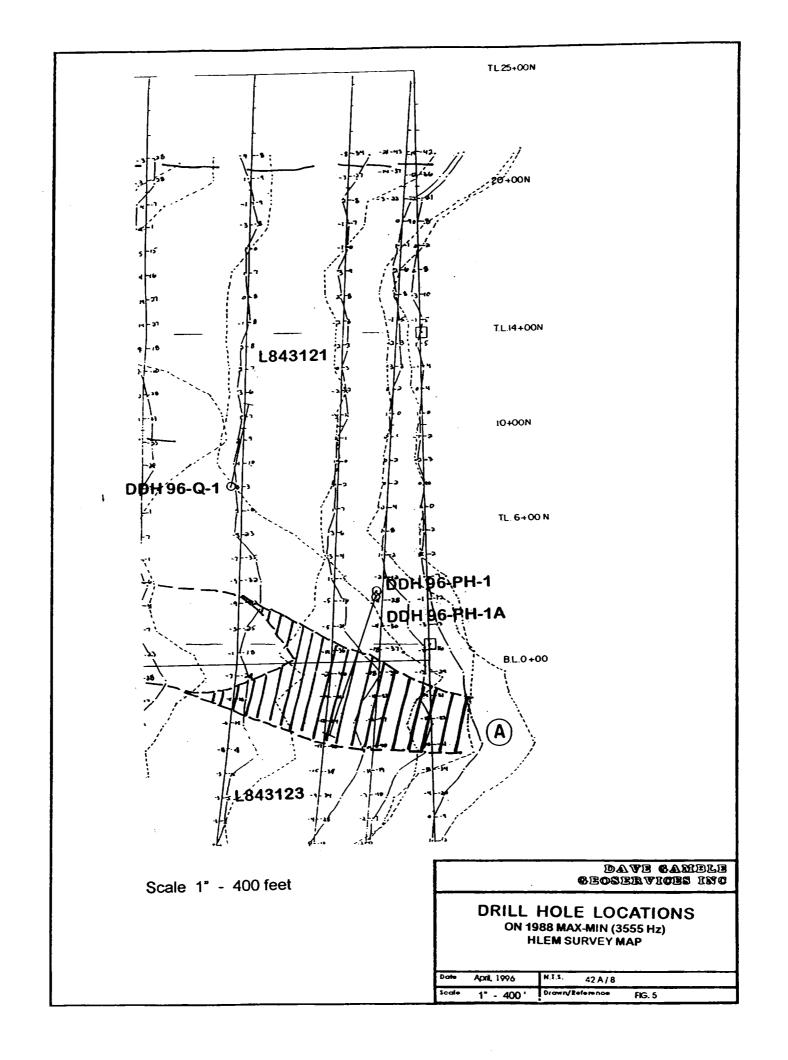
TABLE II
DDH LOCATION RELATIVE TO NORTHEAST CLAIM CORNER

DDH#	CLAIM#	TWP	LOCATION FROM NE CORNER
96 - Q - 1	L 843121	COOK	630 feet South and 850 feet West
96 - PH - 1	L 843121	COOK	1120 feet South " 225 feet West
96 - PH -A1	L 843121	COOK	1130 feet South " 225 feet West

The purpose of diamond drilling was to test the following; 1) to test at depth a reported quartz vein exposed at surface on Line 8 W / 9+50 N, and 2) to test a Max-Min horizontal loop electromagnetic (HLEM) conductor reported in the 1988 survey immediately south of the base line between 0 W and 8 W. The drilling was partially carried out by Kosy Drilling from Kirkland Lake, Ontario who completed 242 feet in DDH 96-Q-1. The balance of DDH 96-Q-1 and all other holes were completed by Forage Boileau from Val d'Or, Que. The drill statistics and summary results are listed in Table III.

TABLE III DRILL HOLE SUMMARY

DDH No.	Collar	Attitude	Total	Anomaly Source
	Coordinates	Azimuth/Dip	Depth	Remarks
96-Q-1	Line 8+50 ft W	012 @ -45	507 ft	Basalt flows, feldspar porphyry
	Stn 7+50 ft N			shear/fault zone, calcite veining,
				Best assay - 21ppb Au
96-PH-1	Line 2+25 ft W	200 @ -45	172 ft	Hole lost in overburden and
	Stn 2+60 ft N			redrilled at steeper angle in A-1
96-PH-A1	Line 2+25 ft W	200 @ -50	1028 ft	Basalt flow sequence, calcite and
	Stn 2+50 ft N			quartz veins, minor chalcopyrite
				Best assay-0.4% Cu or 4070 ppm
				Cu and 19 ppb Au



VIII DISCUSSION OF DRILL RESULTS

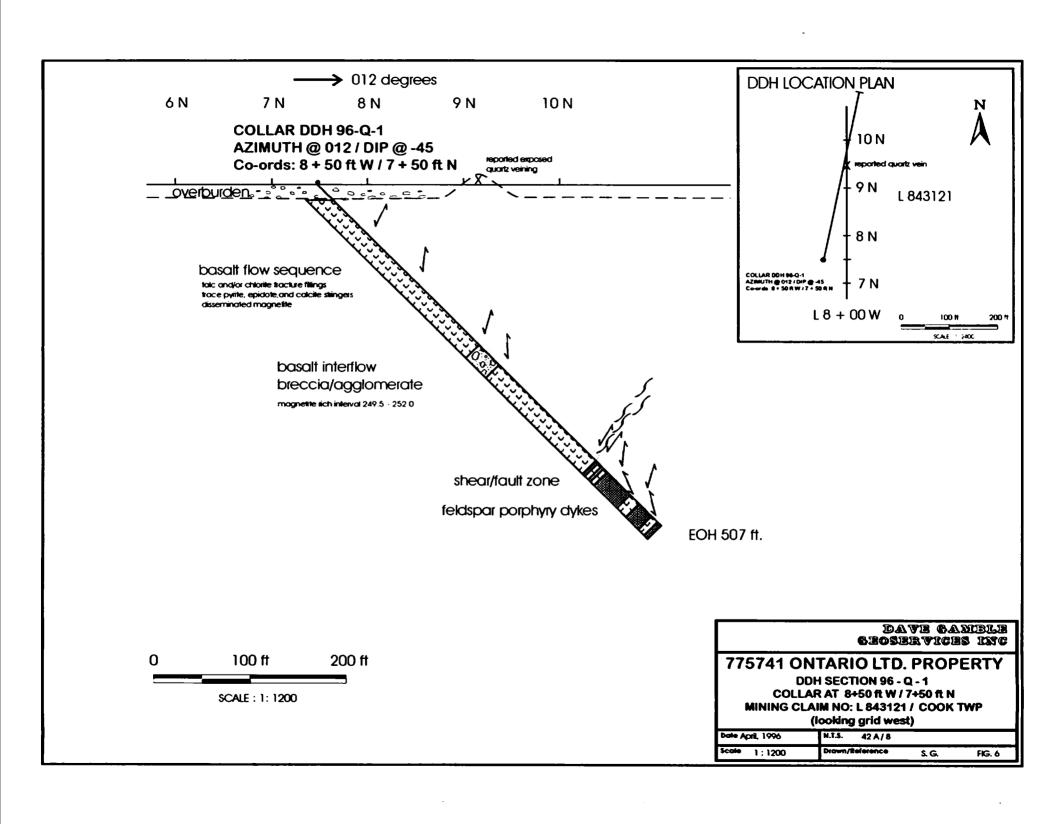
Accompanying this report are the following; three (3) detail diamond drill hole logs (in Appendix A); diamond drill hole sections for all drilled holes Figs 6 - 7 (in text) that illustrate the drill hole geology; and Swastika Laboratories gold and copper assay report (in Appendix B). A total of 29 core samples numbered 0151 - 0179 were split and submitted to Swastika Laboratories for assaying for gold and 6 of those were also assayed for copper. All assay results are entered on the diamond drill hole logs. In addition, a magnetic susceptibility log for each hole was also taken using a Scintrex SM-5 meter. The variation in magnetite content can be quantified and was used as a geological tool in discriminating individual flows in an iron-rich basalt flow sequence.

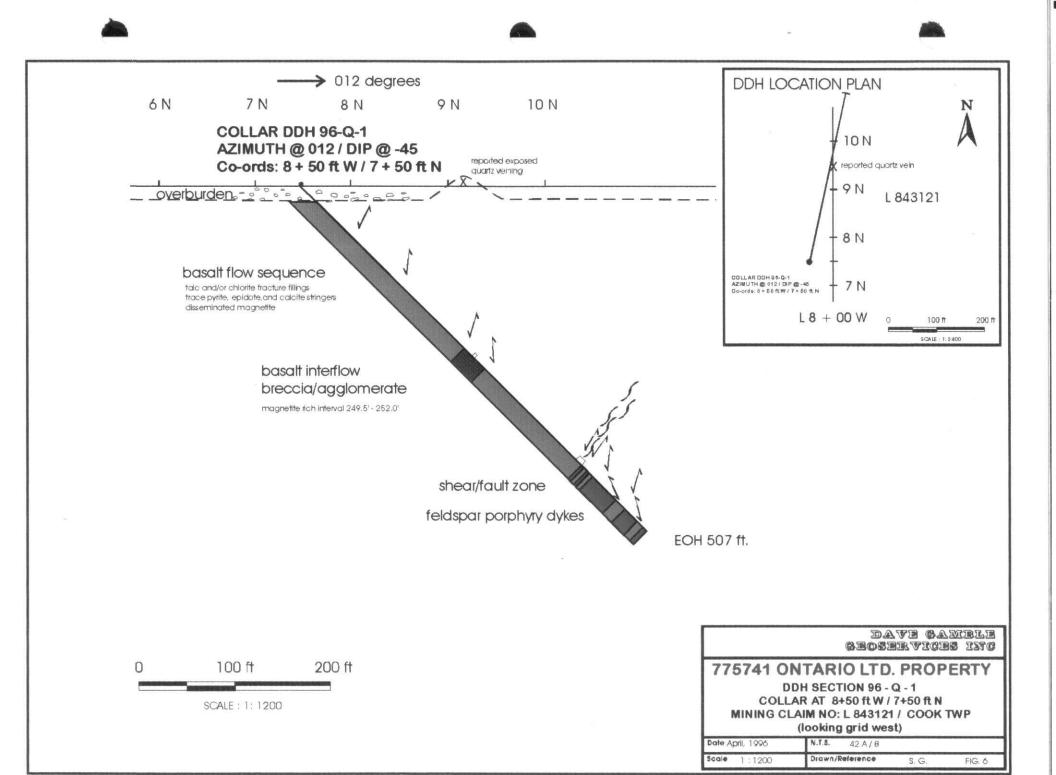
DDH 69 - Q - 1: After 23.0 feet of overburden the hole encountered a sequence of mafic volcanic flows that were talc and/or chlorite bearing iron-rich tholeitic basalts with minor interflow flow breccia intervals. Strong magnetite mineralization was intersected within a interflow breccia interval at 249.5 ft. Mineralization consists of trace disseminated pyrite and blebs of pyrite and disseminated magnetite in the mafic volcanic flow sequence. A strong shear/fault zone was intersected over 7.5 ft at 402.5 ft down the hole that corresponds to a basalt to feldspar porphyry dyke contact. Grey feldspar porphyry dyking occurs below the shear/fault zone and intermittently to the end of the hole.

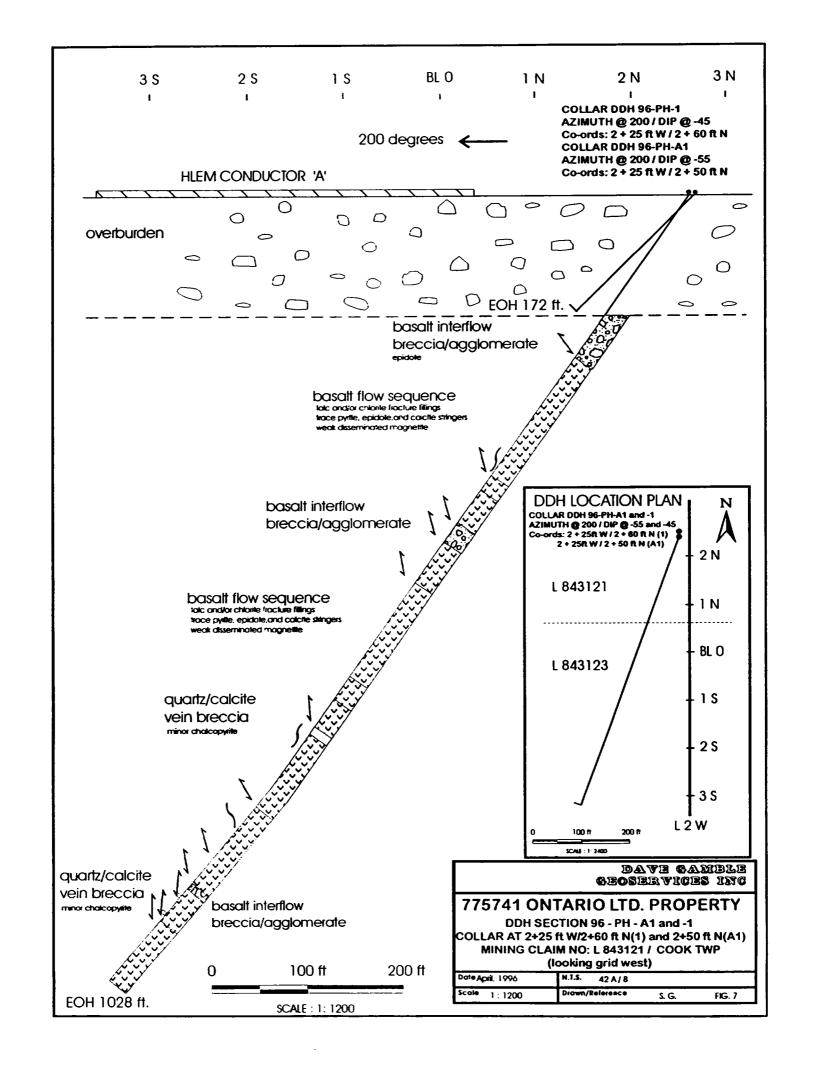
Alteration consists of weak wispy talc/chlorite and tension gash fracture fillings and calcite stringers throughout, and locally interstitial carbonate, minor epidote and trace quartz, as well as local sericite and hematization associated with the shear/fault zone.

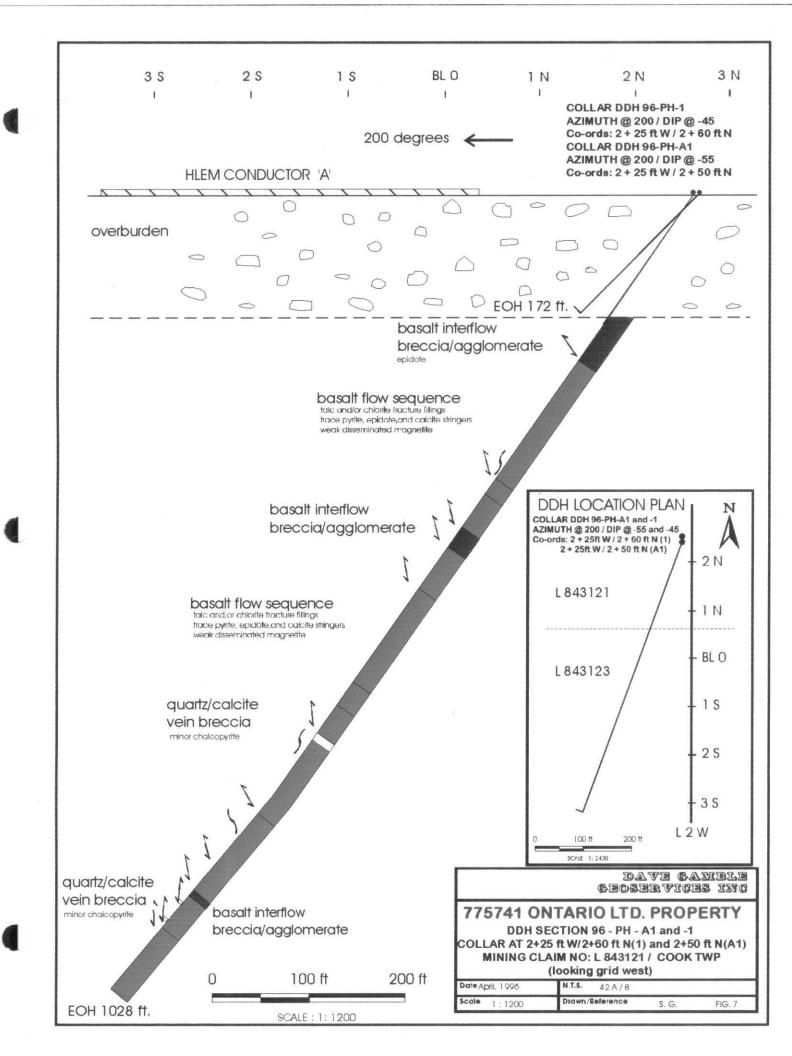
Fifteen (15) samples were split from this hole and geochemically assayed for gold. The assay results ranged from a low of nil ppb Au to a high of 21 ppb Au.

DDH 96 - PH - 1: After penetrating 172 feet of overburden the casing became too tight for further advancement. As a result this hole at -45 degrees was abandoned and the new collar was advanced 10 feet south and redrilled at a different dip angle of - 55 degrees as hole number DDH 69 - PH - A1









DDH 96 - PH - A1: After 162 feet of overburden the hole encountered a thick sequence of mafic volcanic iron-rich tholeitic basalt flows with talc and/or chlorite wisps and tension gash fracture fillings. A number of individual basalt flows were identified with accompanying interflow breccia agglomerate intervals.

Alteration consists of talc and/or chlorite wisps and tension gash fracture fillings, local patchy to pervasive epidote, calcite stringers, and calcite plus quartz veins at 683.0 - 691.5 feet and at 934.5 - 937.5 feet.

Mineralization consists of disseminated and trace blebs of pyrite in the basalt flow sequence and minor fine specks and coarse blebs of chalcopyrite in the local calcite and quartz veining starting at 911.75 - 945.0 feet.

Fourteen (14) samples were split from this hole and geochemically assayed for gold and six (6) of these samples were also geochemically assayed for copper. The gold assay results ranged from a low of nil ppb Au to a high 19 ppb Au. The six copper assays returned geochemically anomalous values associated with the chalcopyrite mineralization in the calcite and quartz veins to a high of 4070 ppm Cu (or 0.407%).

IX CONCLUSIONS

The diamond drill program totaling 1707 feet tested several targets identified and chosen by the present owners. The drill target for DDH 96-Q-1, a reported exposed quartz vein on surface was drilled to a downhole depth of 507 feet. The drill target for DDH 96-PH-1, a Max-Min H.L.E.M. conductor identified in the 1988 ground geophysical survey, was drilled to a downhole depth of 172 feet where the hole was lost in overburden. The hole was recollared and advanced 10 feet south for this target and drilled as DDH 96-PH-A1 and was drilled to a downhole depth of 1028 feet.

Target DDH 96- Q 1:

The extent of the quartz vein reported on surface at L 8 +00 W / 9+50 ft N does not appear to have been intersected at depth in DDH 96 - Q - 1. Instead a shear/fault zone at 402.5 - 410.0 feet with a strong foliation fabric was found to carry minor quartz with local reddish hematization and also with local sericite alteration. The hole encountered a sequence of mafic volcanic iron-rich tholeitic basalt flows with minor basalt flow breccia intervals. Alteration consists of talc and/or chlorite as wisps and fracture fillings, calcite

stringers and local interstitial calcite, and minor local epidote and quartz. A number of grey feldspar porphyry dykes were found to cut the mafic volcanic flow sequence north of and intermittently down the hole from the shear/fault zone at 410.0 feet. Mineralization encountered consisted of trace pyrite and disseminated magnetite in the mafic flow sequence. Stronger magnetite mineralization occurred within a basalt flow breccia interval over 2.5 ft at 249.5 feet down the hole. Gold assay results for the 15 samples submitted for assay from this hole were generally low ranging in values from nil ppb Au to 21 ppb Au.

Target DDH 96-PH-A1:

The reported Max-Min H.L.E.M. conductor identified from the previous 1988 ground geophysical survey and the target for holes DDH 96 - PH - 1 and -A1 could not be sufficiently explained in the current drill testing. There are no lithological units that could be identified as the conductor source in the hole. The hole encountered a sequence of mafic volcanic iron-rich tholeittic basalt flows with talc and/or chlorite fracture fillings. A number of individual basalt flows were identified as well as several intervals of interflow basalt flow breccia agglomerate. Several narrow calcite plus quartz veins were intersected carrying minor blebs and disseminated chalcopyrite locally. The presence of several narrow clay lined shears (less than 1/4 inch) associated with the quartz and calcite vein breccia at 683.0 - 691.5 ft and also associated with the vein and vein contacts at 934.5 - 946.5 ft are possible sources of conductivity identified in the drill hole.

Gold assay results for the 14 samples submitted from this hole were generally low ranging in values from nil ppb Au to 19 ppb Au. There were elevated geochemical copper values associated with several of the calcite and quartz veins that carried weak disseminated to coarse blebs of chalcopyrite over narrow intervals. The best assay results returned high values in sample #177 of 4070 ppm Cu (or 0.4% Cu) over 0.75 feet, and sample # 178 returned 3440 ppm Cu over 3.0 feet, and sample # 179 returned 1970 ppm Cu over 2.75 feet.

X RECOMMENDATIONS

The 1996 diamond drilling program that tested the quartz vein target and one of several 1988 indicated geophysical H.L.E.M targets that exist on the property has returned generally low gold assays results. The presence of the feldspar porphyry in DDH 96-Q-1 and the elevated copper assay results in several samples from DDH 96-PH-A1 offers some encouragement for future exploration on the property.

Further exploration work on the property is recommended over several other areas on the property as follows:

-1) The untested HLEM conductive trend on the northwest part of the property should be verified by a one line check HLEM or I. P. survey and then evaluated for possible drill testing. A one hole drill test would be adequate if the geophysical check results prove a drill hole is warranted.

-2) A moderate to strong HLEM conductor is starting to be identified from the Max-Min HLEM 1988 survey coverage near the north-eastern part of the grid. The anomalous response is starting at approximately station 20+00 N on lines 0, 2W, 4W, and possibly on lines further to the west. Several lines should be extended and are recommended for either a check HLEM or IP survey in order to identify and evaluate further potential geophysical drill targets.

-3) The northwest trending Ross Fault as defined by L. S. Jensen on OGS Map No P-2861, is thought to cut northwesterly through the southern half of the 775741 Ontario Ltd. property. The occurrence of an economic deposit on this structure is significant as the Ross Mine gold deposit is located on and along strike some 5 miles to the northwest. Future exploration efforts are recommended to locate and to focus upon and evaluate the economic potential of this section of the Ross Fault structure on the 775741 Ontario Ltd. property. Locating the structure by surface prospecting and by careful geological structural fabric measurements and by a VLF EM survey normal to the indicated trend of the fault is recommended. This fault structure is recommended to be evaluated for drill testing when the exact location is better known pending further geological and geophysical evidence.

Respectively submitted
Dave Gamble
Dave Gamble Geoservices Inc

All.

CERTIFICATE OF THE AUTHOR

I, Dave Gamble, of 70 First Street, Kirkland Lake, Ontario, P2N 1N3, hereby certify that:

- 1. I am a geologist residing at the above address.
- 2. I am a graduate of the University of Ottawa with an Honours B.SC. degree in geology (1973), and have completed two years leading towards an M.Sc. degree (geology) at Laurentian University (1974-1976).
- 3. I have practiced my profession for more than 20 years.
- 4. I have conducted the core logging, and have compiled the geological and the geochemical data, and have interpreted the results in this report.
- 5. I hold no interest in this property.

Respectfully submitted,

Dave Gamble

Dave Gamble Geoservices Inc.

April 19, 1996

APPENDIX

A - DIAMOND DRILL HOLE LOGS

DDH #'s 69 - Q - 1

69 - PH - 1

69 - PH - A1

B - SWASTIKA LAB GOLD ASSAY REPORT

APPENDIX A DIAMOND DRILL HOLE LOGS DDH # 69 - Q- 1

69 - PH - 1

69 - PH - A1

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DAVE GAMBLE GEOSER VICES INC 70 First Street, Kirkland Lake, Ontario, P2N 1N3, Tel: 705-567-4381, Fax: 705-567-3801

	filable		
Project: 775741 Ontario Ltd	Azimuth: 012 degrees	Started: March 1, 1996	Logged For: Charles Marshall
Property: COOK TWP PROPERTY	Dip: - 45 degrees	Completed: March 20, 1996	Logged By: Dave Gamble March 25, 1996
Twp/Claim: Cook Twp L 843121	Location: L 8+50 ft W. / 7+50 ft N.	Core Size: BQ	Tests: TD: collar Dip: -45 Az: 012
Hole No: DDH 96 - Q - 1	Total Depth: 507 ft	Drilled By: Kosy Drilling & Forage Boileau	•

Purpose of Hole: To test at depth a reported quartz vein exposed on surface at grid co-ordinates L 8 + 00 ft West / 9 + 50 ft North.

Remarks / Results: * This hole was determined, spotted, and monitored by Charles Marshall. Information regarding location, azimuth, dip, drillers, was supplied by Charles Marshall. DGG Inc did the logging, splitting, and sampling of the hole only. Kosy Drilling started the hole (0 - 242 ft)., and Forage Boileau completed the hole (242 - 507 ft).

The hole encountered a sequence of mafic volcanic flows (talc and / or chlorite bearing iron-rich tholeitic basalt) with minor flow breccia intervals. A strong shear/fault zone was intersected over 7.5 ft at 402.5ft down the hole. Grey feldspar porphyry dyking occurs below the shear zone and intermittently to the end of the hole. Mineralization encountered consists of trace pyrite and disseminated magnetite in the mafic volcanic flow sequence. Stronger magnetite mineralization occurs within a flow breccia interval over 2.5 ft at 249.5 ft down the hole. Alteration consists of weak wispy talc, calcite stringers and locally interstitial carbonate, minor epidote and trace quartz, sericite locally in the shear zone, and weak hematization also associated near the shear zone.

FEET From:	FEET To:	Description	Sample Number:	From:	To:	Length	Au ppb			
			1	i	ŀ	1				1
0	23.0	OVERBURDEN (Casing Pulled)						<u> </u>		T
23.0	238.5'	BASALT FLOW SEQUENCE - (talc bearing iron-rich tholeiitic basalt)								<u> </u>
		- medium green, fine grained, massive flow texture with local interflow textural variations from				<u> </u>		<u> </u>		<u>† </u>
		fine grained to weakly mottled, several internal flow contacts;			1	1	-			† -
		- flow is characterized by healed tension gash fractures as stringers and wisps of dark green			·	· · · · · · · ·		<u> </u>		
	1	talc and/or chlorite, and and in some instances with calcite;			 	†				
		- talc and/or chlorite stringers have variable orientations, predominantly 45 to 90 degrees t.c.a.;							<u> </u>	
		- white calcite stringers occur locally ranging from threadlike stringers to 1/4° veinlets @ 30 to		-	-					
		80 degrees t.c.a.;	1			 				
, and the second		- At 23' - 28' weakly mottled textural appearance, weak to vague mafic crystals and 1 mm and				 				
		less fine feldspar and/or calcite, vague lower internal contact;			<u> </u>					
		- local patchy quartz + carbonate @ 29.5';			†					
		- At 28' - 45' fine grained, locally bleached to pale apple green from 34' - 36', possible broken		·	_					
		flow contact at 36';								
		- Interstitial carbonate from 33.5' - 46.25', moderate to strong in this interval causing bleaching;								
		- Trace pyrite as occassional weak disseminated specks, blebs and small patches, and weak				1				
		pyrite as occassional smeared grains along some fracture surfaces. Trace pyrite occurs @ 32',				1				
		33', 36', 40', 42', 51', 52', 53', 55', 58', 68', 82', 83', 86', 87', 88', 91', 92', 93';			<u> </u>					
		- Calcite vuggy seam 1/4" with finegrained magnetite crystals at 43";								<u> </u>

Feet From:	Feet To:	Description	Sample Number:	From:	То:	Length	Au ppb		:	
		- Epidote stringers and patches from 58.75' - 60.75', trace pyrite;			┼	 				+
	1	- From 45' - 67' mottled flow, fine grained lower contact 70 degrees t.c.a.:			+	 		 	!	ļ
		- From 68' - 87' fine grained flow as previous, becoming finely speckled < 1mm dark green		 -	 	 				+
		mafic mineral talc and/or chlorite wisps from 87' - 238.5';			 	 		<u> </u>		├ ──
		- possible flow breccla from 70' - 71', accompanied by carbonate flooding and bleaching			 	 	ļ	<u></u>	:	
	· ·	imparting a breccia texture;		 	 	 	···	ļ <u></u>		-
		- From 71.6 - 74.0 locally strong epidote + quartz zone @ 40 degrees t.c a, with patchy masses				 	 		· ·	
	ļ <u> </u>	and stringer epidote plus patchy white quartz, trace pyrite;	151	- 70.6	74.0	3.4	14		 -	-
		- High magnetic susceptibility SM - 5 readings are caused by very finely disemminated			14.0	3.4	- '* -	<u></u>	 	┼
		magnetite throughout as fine shiny grey metallic "pin points". Strongly magnetic with a hand				┿			 	
		magnet and up to 12.0 c.g.s. on magnetic susceptibility meter in areas of higher concentrations				 	ļ		 	┼
		of magnetite versus 0.0 - 0.3 c.g.s. for non-magnetic sections, see separate list of Magnetic			 				 	∔
		Susceptibility SM-5 readings for the entire hole;			- 					
-		- White calcite stringers throughout ranging from thread-like stringers, to 1/4" and occasionally			-{	 				į .
	1	up to 1/2" veinlets, calcite stringers @ 50 - 60 degrees t.c.a, also minor green epidote			-					<u> </u>
	ŗ	associated with some of the carbonate stringers;		 -	 	 			<u>!</u>	+
		- Weak structural fabric locally associated with calcite stringer orientations and/or at internal			 					-
		flow contacts at 50 degrees t.c.a. @ 131.5';			-				<u> </u>	<u> </u>
		- Minor agglomeratic or local inter flow breccia from 116' - 117' and from 125.5 - 126.5';			ļ					<u>L</u>
		- Fine black speckled appearence caused by talc and/or chlorite replacement of mafic minerals			 .					
		and also some wisps and irregular patches and fracture fillings by dark green talc and/or			 					
		chlorite. Some fractures also appear to be serpentinized along small fractures and slips;			 					
	1	- Quartz + calcite veinlets 1 1/2" @ 70 degrees t.c.a. at 191.5' and 196.5';								<u> </u>
	· † · · · · · · · · · · · · · · · · · ·	- Epidote + calcite + minor quartz at 197' - 198', trace speck of pyrite;				<u> </u>				
	†	- Weakly sheared mafic volcanics, bleaching and minor brecciation, calcite stringers, trace			ļ					
		pyrite 40 degrees t.c. a upper contact at 20 f. Follows F. F	152	201.25	202.75	1.5	3		1	,
		pyrite, 40 degrees t.c.a. upper contact at 201.50' and 35 degrees t.c.a. lower contact at 202.75'								
	<u> </u>	- Trace pyrite occurs as Isolated grains and blebs at 107'-112', 121', 124', 126', 167', 174'- 175', 185', 187', 189', 195', 201', 203', 209', 210', 212', 213', 217', 229', 233', 236';	153	210.0	213.0	3.0	3			
	+	100 ; 101 ; 100 ; 100 ; 201 ; 203 ; 200 ; 210 ; 212 ; 213 ; 217 ; 229 ; 233 ; 236 ;			ļ <u>.</u>					
38.5	268.0	BASALT AGGLOMERATE - FLOW BRECCIA + Thin Magnetite Slump Breccia Interval								
	1	- sharp interval flow contact at 60 degrees t.c.a. at 238.5' from mottled fine grained basalt flow				ļ				!
	1	to the flow breccia-agglomerate interval. Rounded blocks of lava, 4-5° in size, some bleached.			 _					
	 	some dark green, generally rounded surfaces, some smaller in the 1-2" range;			↓					
		- Several bleached sections, but no interstitial carbonate, threadlike and stringer calcite only.				 				
	·	1 Stational, but no interstitual carbonate, threathire and stringer calcite only.			<u> </u>]

eet rom:	Feet To:		Sample	From:	To:	Length	Au		
OIII.	10.	Description	Number:			_	ppb		ļ
		- Trace pyrite occurs at 244', 258.5', 264', 267.5';		 	 -	<u> </u>	ļ <u></u>		
		- At 249.5 - 252.0 a noticeable dark green to black section containing high % magnetite both as	154	249.16	252.16	 	 		
		interplack matrix and as 1/2 " small angular and rounded clasts. Magnetic Susceptibility SM 5	100	243.10	232.16	3.0	Nil		;- -
		readings up to 12.0 c.g.s. A disrupted and slumped thin layer lean iron formation within an	· · · · · · · · · · · · · · · · · · ·	 	 -	 	 		- 1
	·	Internow precial interval. Trace to 1% disseminated pyrite. Talc and/or chlorite filled tension		 	 -	 			
	-	and gash tractures and micro fractures as well as minor calcite + or - epidote stringers			 	 			
	 	Lower contact sharp and slightly irregular to scalloped at 42 degrees t.c.a.;			 	 			+-
68.C	410.0	BASALT EL OM (co. co. co. co. co. co. co. co. co. co.							+
.00.0	1 410.0	BASALT FLOW (as previous)			1	† - ·			\rightarrow
		- Carbonate "eyes" 1 - 3 mm in size, rounded, look like vesicule fillings from 268' - 273'. Black				T			
	-	green tale choine wisps and discontinuous patches. Generally massive homogenous flows							_ <u></u> -
	 	- Trace pyrite locally at 269'-270', 274'-275', 280', 284', 286', 287', 292', 293', 295', 296', 297'				 			 -
	!	_ 300 , 301-306 , 311-312 , 316-317 , 319-322 , 326-328 , 330-331 , 334 , 336-337 , 330-342			 	 			
	+	- At 205 - 300 a noticeable change in magnetic susceptibility from high to low (3.5 to 0.4 mags)		<u> </u>			-		
	 	which also corresponds to a slight increase in white calcite + or - epidote veinlets and			 	 			-
	!	stringers. Other then the calcite stringers the overall appearance of the rock does not				 			
	·	100k too different in colour or texture. Fewer talc/chlorite wisps are also evident in the baseltic			 	·,·-			_
	L	Touck containing lower SM-5 values and lower magnetite concentrations:							_
	!	- At 298' a 1" carbonate vein, at 298.5' a 2" carbonate vein, trace pyrite and epidote. The vein		ļ	 			<u> </u>	
		contacts are irregular at approximately 80 degrees tic a							
	<u> </u>	- At 328', a 2" carbonate vein at 55 degrees ticla, also occurs with minor epidoto:				ļi			<u> </u>
	<u> </u>	- Most of the calcite white stringers and veinlets are at 40 - 60 degrees tick a some at 80 ticks.			 	ļ			
	<u> </u>	- Nock is slightly less green, to dark grey-green in colour. Some evidence of weak feldspar	· ·						
	i	Cystal lathe development at 319' - 323':							
	L	- Rusty hairline fracture at 352', at 45 degrees t.c.a.;			 -				
	!	- Talc/chlorite wisps and fracture filling in small tension gashes is generally lacking 1 2mm				ļļ			
		mane necks, probably tale or chlorite:			 				_;
	: 	- At 374' - 376' calcite stringers plus epidote alteration;							
		- At 394' a 1° grey carbonate vein at 65 degrees t.c.a. plus other thread like stringers of calcite;							
	 	- At 402.5' - 410' STRONG SHEAR / FAULT ZONE (mylonitic), upper contact @ 75 degrees	155	402.5	406.0	3.5	10		
	-	1.C.a., Strong Toliation Table in Medium to dark oney laminated to wayy foliated baset, mines.	156	406.0	410.0	4.0	17		4
	 	Calcite timead-like stringers. Foliation @ 65 degrees t.c.a. at 403' @ 60 degrees t.c.a. at 405 6'			710.0				
		with yellow sericite displaying a strong wavy foliation. At 406'-407' sericitic, broken core							
	 	recovery, appears mylonitic, strong foliation fabric, At 408' foliation is tightly folded into 'S'							
	<u> </u>	shape folds, local minor quartz. At 410' lower contact is sharp at 80 degrees t.c.a.;							-
					L			!	

Feet From:	Feet To:	Description	Sample Number:	From:	То:	Length	Au ppb			
410.0'	413.5"	FELDSPAR PORPHYRY DYKE (pink)	157	410.0	413.5	3.5	21			
	1	- White cream coloured plagioclase feldspar 1-3mm phenocrysts, square to round in a		1.0.0	4,0.0	 	 			
		weakly hematized aphanitic, siliceous, hard matrix, ranging in colour from light to medium grey		 	 	 	 			
		with pale brick reddened hematized patches and stringers, cut by medium grey white calcite		 	 	+	 			
		stringers, nil to trace pyrite only. Lower contact, sharp but wavy and irregular, 30 degrees t.c.a.								
413.5	417.9	BASALT (as previous)	158	413.5	417.75	4.25	21	i		-
		- foliated upper contact, foliation at 60 degrees t.c.a., lower contact at 70 degrees t.c.a.	100	713.3	417.75	4.23	 			
		Occasional black (talc/chlorite) patchy lamellae. Also contains a fine pepper like testure of buff	 	 		 	 			
		pink crystals << 1mm in size, possibly slightly hematized feldspar. Lower contact marked by a	 	 	 		 			ļ
		1 "quartz vein.		 	···· ·	 				
417.9	420 5	EEL DODAR RODDLIVOV DVVE ()								
4.1.5	420 3	FELDSPAR PORPHYRY DYKE (grey)	159	417.75	420.5	2.75	17			<u> </u>
		- Weakly hematized near upper contact at 70 degrees t.c.a. Fine grained aphanitic groundmass	!			İ				
		with 1-3 mm white plagioclase feldspar crystals as phenocrysts yielding a porphyritic testure.		ļ	<u> </u>					
		Decrease in porphyritic texture near lower contact. Lower contact sharp, at 40 degrees t.c.a.	ļ	ļ	<u> </u>	<u> </u>				i
		Occasional white calcite stringer, nil to only trace pyrite;				ļ				
420.5	426.7	BASALT (as previous)		 	 	 	 			
		- Fine grained, massive homogenous, medium grey green. Occasional calcite veinlet/stringer.			 	+	 			
	-	Lower contact sharp at 40 degrees t.c.a.;								
426.7	460.5'	FELDSPAR PORPHYRY DYKE (as previous)	160	426.75	432.0	5.25	10			
		- Grey aphanitic ground mass with 1 - 3 mm white plagioclase feldspar phenocrysts, calcite		1 120.70	102.0	0.25	 '' 			
	1	veinlet at 432' at 40 degrees t.c.a., mauve and white calcite:		<u> </u>	 	 	 			
	<u>.</u>	- At 436' -439.3' weak pale brick reddened feldspar and groundmass, carbonate plus epidote	161	436.0	439.25	3.25	7			
		stringers, minor quartz cut by calcite and epidote stringers and veinlets:			100.00	1-	 			
	:	- Lower contact, irregular, scalloped, wavy, approximately 20 degrees t.c.a.;	162	450.0	453.0	3.0	7			
460.5	473.3'	BASALT (as previous)			ļ	ļ.		i		!
	1	- fine grained, white calcite stringers up to 1/4°, Lower contact sharp at 60 degrees t.c.a. marked		 	 	 	├			
		by 1° calcite veinlet;			 	 		——-i	 :	
473.3	493.3'	FELDSPAR PORPHYRY DYKE (as previous)	462	400.0	100.5		i			
., 0.0	. 700.0	- Lower contact wavy, irregular at 30 degrees t.c.a.;	163	483.0	486.0	3.0	7			.
	-	Estimate was y, megular at so degrees i.c.a.,		 	ļ	 	ļļ	i		
		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	l		

Feet From:	Feet To:		Sample	From:	To:	Length	Au	Γ	i	
		Description	Number:				ppb			
493.3	501.0	BASALT (as previous)	 	 		 	ļ		ļ	<u> </u>
	:	- fine grained, hematite dusting throughout imparting a brick reddish manye colouration	164	494.0	498.0	 	 		ļ	ļ
	<u> </u>	moderate intersular carbonate intoughout, white calcite veins at 406' - 1° and at 406 5' - 1°	104	434.0	430.0	4.0	14		 	!
	:	- Lower contact very irregular.		 		 	 	<u> </u>	ļ	:
501.0	506 0	FELDSPAR PORPHYRY DYKE (as previous)	165							
	EOH.	- Upper contact irregular, injected into volcanics with very irregular, ignored, and scalloand	165	502.0	505.0	3.0	10	ļ	<u> </u>	<u> </u>
		williad, as well a detached blob of feldspar nombyly occurs in the baselt. Helform assurant	+	 	 	 		<u> </u>		-
		homogeneous feldspar porphyritic intrusive.	 	 	 	 	<u> </u>	: 		i
	 				 	 	 			
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MAGNETIC SUSCEPTIBILITY LOG SCINTREX SM - 5 READINGS

PROJECT: MARSHALL - COOK TWP - DDH 96 - Q - 1

INTERVAL	SM - 5 C.G.S. UNITS	SOURCE
23 - 42 feet	0.1 - 0.6	Basalt Flow
43	1.4	Vuggy Calcite Veinlet plus Magnetite
45 - 74.5	0.1 - 0.3	Basalt Flow
75 - 90	1.5 - 3.2	a
93 - 99.5	3.1 - 5.1	
100.5	1.5	8
101 - 102	6.9 - 7.6	. a
106 - 118	2.2 - 3.7	•
120 - 132	4.4 - 6.3	•
137 - 153	1.0 - 2.9	•
154 - 169	0.1 - 0.6	E .
170	2.8	er .
173 - 177	0.7 - 1.6	et .
180 - 195	2.1 - 3.5	at .
196 - 197	0.4 - 0.6	Calcite plus epidote alteration
198 - 199	2.8 - 3.5	Basalt
201 - 202	1.0 - 1.4	Shear Zone
205 - 212	2.7 - 3.9	Basalt Flow
214 - 216	1.9 - 2.3	at
217 - 219	0.9 - 1.3	g
221 - 224	2.0 - 2.3	~
226 - 231	1.1 -1.7	44
232 - 235	2.3 - 3.1	*
236	1.4	e
238 - 240	2.2 - 3.7	64
241 - 249	0.4 -1.7	et
250 - 250.75	2.8 - 3.9	. &
251	12.0	Magnetite rich flow breccia
251.5 - 254	4.8 - 7.9	Basalt flow
256 - 257	0.6	•
259 - 265	4.4 - 7.2	
266 - 266.5	1.5 - 1.9	•
268 - 284	2.2 - 4.3	•
285 - 300	0.2 - 0.8	
301	3.8	a
303	1.9	u
304 -326	2.6 - 5.2	u

328	1.0	и
329 - 334	2.6 - 4.1	и
335	0.5	u
337 - 339	2.5 - 3.5	u
341 - 351	0.4 - 1.8	a .
352 - 359	2.2 - 5.5	a
361	1.8	a
362 - 372	2.6 - 5.2	et .
374 - 379	0.4 -1.7	u
381 - 396	4.4 - 7.8	a
398 - 401	1.8 - 2.4	а
403 - 404	2.4 - 4.6	Fault / Shear Zone
405	1.6	u
406 - 413	0.0 - 0.3	* + Feldspar Porphyry
414 - 417	1.6 - 5.8	Basalt
418	0.6	Feldspar Porphyry
420 -506	0.0 - 0.2	Basalt and Feldpar Porphyry

DAVE GAMBLE GEOSER VICES INC 70 First Street, Kirkland Lake, Ontario, P2N 1N3, Tel: 705-567-4381, Fax: 705-567-3801

	DRIL	L RECORD	Apple
Project: 775741 Ontario Ltd	Azimuth: 200 degrees	Started: March 20, 1996	Logged For: Charles Marshall
Property: COOK TWP PROPERTY	Dip: - 45 degrees	Completed: March 21, 1996	Logged By: Dave Gamble
Twp/Claim: Cook Twp L 843121	Location: L 2 + 25 ft W / 2 + 60 ft N	Core Size: BQ	Tests: TD: 0.0 ft Dip: -45 Az: 200 degrees
Hole No: DDH 96 - PH - 1	Total Depth: 172 ft	Drilled By: Forage Boileau	TD: Dip: Az:

Purpose of Hole: * This hole was determined, spotted, and monitored by Charles Marshall. Information regarding location, azimuth, dip, drillers, was supplied by Charles Marshall. DGG Inc supplied the drill log. Forage Boileau drilled the entire hole. The purpose of the hole was to test a Max-Min H.L.E.M. conductor identified in the 1988 geophysical survey.

Remarks / Results: The was abandoned in overburden when the casing became too tight for further advancement and as a result the hole was redrilled as DDH 96 - PH - 1A.

Feet	Feet	Description	Sample	From:	To:	Length	Au			
From:	То:		Number:							
0.0'	172'	OVERBURDEN casing pulled								_
		The hole was abandoned in overburden when the BW casing and BQ drill string			ļ	Ļ				
		became too tight for further advancement.			<u> </u>	<u> </u>				
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DAVE GAMBLE GEOSERVICES INC 70 First Street, Kirkland Lake, Ontario, P2N 1N3, Tel: 705-567-4381, Fax: 705-567-380)

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Purpose of Hole: The purpose of the hole was to test a Max-Min H.L.E.M. conductor identified in the 1988 geophysical survey.

Remarks / Results: * This hole was determined, spotted, and monitored by Charles Marshall. Information regarding location, azimuth, dip, drillers, was supplied by Charles Marshall. DGG Inc did the logging, splitting, and sampling of the hole only. Forage Boileau drilled the entire hole.

The hole encountered a sequence of mafic volcanic iron-rich tholeiitic basalt flows with talc and/or chlorite fracture fillings. A number of individual basalt flows were identified as well as minor interflow breccia agglomerate intervals. Several narrow calcite plus quartz veins were intersected carrying minor blebs and disseminated chalcopyrite.

s well a	Feet	erflow breccia agglomerate intervals. Several narrow calcite plus quartz veins were intersection	Sample Number:	From:	To:	Length	Au ppb	Cu ppm		i
rom:	To:		Number:			ļ <u>.</u>				<u> </u>
.0'	162.0'	OVERBURDEN			+ -					
	1				 	 				
62.0'	212.3'	BASALT FLOW BRECCIA - AGGLOMERATE (HYALOCLASTITE)		ļ	 	 	 			
	- 	Coarse fragmental unit, medium green to dusty olive green overall. The coalse clastic		 	+		 			
	+	component consists of medium green and greyish-green line grained basalt how		-	+	 				
		applomerate blocks and breccia fragments ranging in size from large + 1 100t		 	+	+				
	+	to medium, 4-6" to small 1-2". Some of the fine grained greyish-green basait		 			 	-		\vdash
		fragments exhibit bleached lighter green reaction rims up to 1/2" thick. Occasional		 			 			
		calcite plus epidote patches and filled vesicles. The lighter green fragments		 	+	+	 	 		\vdash
		corresponds to a higher degree of bleaching and interstitial carbonate.		 		 	 			\vdash
		The intervening material to the larger clasts consists of a tuff-breccia with angular				+	 			
		clasts 1/4 - 1/2" in size, made up of pale to medium to dark green mand tragments in a		<u> </u>	+	+		<u> </u>		
	+	asteits and basett tuff and shard hyaloclastite matrix.	166	169'	173'	4.0'	Nil			
		Within this finer clastic tuff-breccia is a pronounced white to grey calcite flooding and local	167	173'	177'	4.0'	19			T
		esidete occurring as the matrix to angular basalt chips and angular small precua crasis.	167	+ -''-	 	+	 			
	 	- At 208' - 209' at the start of a drill run the core is broken and rubbly, a possible open seam		+						
		and/or broken ground.			+					
		- Lower contact sharp at 70 degrees t.c.a.		+	+					
		- No sulphides present			+					
		- Calcite 1/2" white veinlets at 179 ', at 30 degrees t.c.a.		+						
		Coloite plus Quartz 1/2" veinlets at 193', at 45 degrees t.c.a.		+	+	+	 			T
	-+	- High % of micro fractures that are lined with white calcite thread-like fracture fillings.								

Feet From:	Feet To:	Description `	Sample Number:	From:	То:	Length	Au ppb	Cu ppm		į
212.3'	363.75'	BASALT FLOW	 	<u> </u>]				
		- At upper contact for 1 foot are white veinlets of calcile imparting a weak vein breccia texture.								
	-	- Fine grained, massive homogeneous uniform flow with occasional cream white	1							L
		feldspar 1 cm crystals, some euhedral while others partially resorbed with rounded borders.								
		- At 218.6', calcite and quartz 3" veinlets at 70 degrees t.c.a., barren.								
		- At 218.9' first good presence of black fracture-filled talc and/or dark green chlorite. Slippery,								
	-	soft, and occasionally serpentinized along fracture slips and with trace smeared pyrite,								i .
		generally discontinuous tension-gash fillings and do not appear to be continuous.								1
		- Occasional isolated bleb to disseminated bleb pyrite at 223.5', 230.6' 238 - 239', 240 -							i	<u>i </u>
		241' 243', 248', 249', 275'.								<u> </u>
	1	- Cut by calcite stringers, generally less than 1-2 mm to thread-like.						!	<u> </u>	
		- At 233' calcite plus epidote 1/4" veinlets at 50 degrees t.c.a., weak bleaching or					<u> </u>			-
	:	lightening of the basalt colour to a lighter medium green colour.							!	↓
		- Local mottled textured flow appearance.								↓
		- At 242' - 255' a zone of calcite veining and calcite vein solution breccia within the basalt flow.				<u> </u>	1			↓
		Slightly lighter medium green basalt, pseudo-breccia fragments enveloped by white and								↓_
		grey calcite stringers and veins and patches. Some talc/chlorite and calcite, trace bleb pyrite						<u> </u>		1_
		locally.				<u> </u>	ļ			<u> </u>
		- From 255' massive flow as previous with occasional weak sausseritized 1/2° feldspar				<u> </u>	<u> </u>			
		euhedral to subhedral crystals.		L		<u> </u>	ļ <u></u> .	<u> </u>		-
		- At 273' - 274', 1-3 mm talc/black chlorite filled vesicles that are oval in shape.	_	<u> </u>		<u> </u>	<u> </u>			1
		- At 280.5' - 281.0' bleached basalt cut by stringers of calcite, quartz, and epidote at		<u> </u>		ļ			ļ	₩-
		50 degrees t.c.a.	<u> </u>	<u> </u>		1	ļ		!	4
		- At 281.0' - 286', 1 - 3 mm white calcite filled vesicles, oval in shape.					ļ	<u> </u>	ļ	
		- At 279' noticeable decrease in black talc fracture fillings, tending to have more calcite				l	<u> </u>		ļ <u> </u>	↓
-		stringers and veinlets at 50 degrees t.c.a.				<u> </u>	<u> </u>	<u> </u>	<u> </u>	↓
		- At 285.6', local patchy epidote.						<u> </u>		<u> </u>
		- Noteworthy calcite veins at 287' (2"), at 293' (2"), at 293.5' (3") at 45 degrees t.c.a.,						I	<u> </u>	
		- 294' - 295' Irregular calcite 1/2" vein along core axis and branching.								
		- 298' a 3' calcite vein breccia, 299' - 300' heavy calcite stringers, 304' (2"), 305' (2"),								
		- 308.5' - 309.5', irregular calcite vein at 40 degrees t.c.a.		1						
		- 311.25' calcite 1° veln at 40 degrees t.c.a., 312', a calcite stringer zone, 313' calcite stringer	1	1	_		1			Ţ
		zone at 40 degrees t.c.a.		 			<u> </u>	1	:	1
-		- At 315' dark green black talc and/or chlorite and as isolated tension gash fracture fillings.	1		T	†				
		- Dark green chlorite plus calcite veinlets, also occur				1		7		1
		- At 318.5' - 319.0' chlorite + calcite at 80 degrees t.c.a. with a trace of pyrite	 			1	•		†	1

Feet	Feet	Description	Sample	From:	To:	Length	Au ppb	Cu		!
From:	To:		Number:	ļ			l bbo	ppm		:
		- Trace specks of pyrite occurs at 319', 322', 332', 333', 334', 356.5', 359.5'.			1					
		- At 341' - 342.5' chlorite plus calcite stringer/vein at 55 degrees t.c.a.		i			<u> </u>	<u>i </u>		<u> </u>
	!	- At 344' - 345' calcite stringers and interstitial carbonate bleaching basalt to grey tones.			1					L
		- At 346' a 2" chlorite plus calcite vein		1	T			Ĺ		
	1	- At 347' - 348' calcite veln and minor quartz plus epidote at 50 degrees t.c.a.		1					i	
		- At 349.5' - 352' Fracture slip at 15 degrees t.c.a. and down the core axis		T						1
	:							<u> </u>		·
363.75'	382.5'	BASALT FLOW								
	,	- Flow to flow contact at 50 degrees t.c.a. at 363.75', sharp, well defined by strong colour								<u> </u>
	•	change of grey-green to medium green, and also with a slight change in texture, from fine					<u> </u>	<u> </u>		
		grained to a slightly more coarse grained interlocking mosaic texture than preceding flow.								<u> </u>
		Still contains black wisps, black talc and/or chlorite as stringers and tension gash fillings.						<u></u>		
	i	- At 367.5' - 375.0' white calcite vein, irregular and with coarse patches of calcite.								:
		- At 373.0' - 375.0 white calcite, quartz vein and vein brachia upper contact at 15 degrees t.c.a.	168	373'	375.0'	2.0'	Nii	<u> </u>		
	1	and lower contact at 30 degrees t.c.a., trace pyrite.								:
	1	- Trace pyrite as isolated crystals and blebs at 371', 372', 373', 378', 379', 380', 381', 382',							7	
	•	384', 386' - 388'.								}
			1						<u> </u>	
382.5'	423.0'	BASALT FLOW (as flow preceding the above green flow but fine grained.)								
		- Contact is sharp and at 20 degrees t.c.a.								1
		- Calcite stringers and black talc/chlorite stringers and tension gash fracture fillings have	1						Ι	
	†	a preferred orientation of 45-50 degrees t.c.a.	1	1						
		- At 402.5' silicified 2" basalt and 1" white quartz vein with 1/4" calcite vein core at 50 degrees	1	T		<u> </u>				
		t.c.a., Trace pyrite at 408', quartz stringer 1/2" wide, barren, at 50 degrees t.c.a.	ţ · · · · ·	1			1		1	
					1	1	1	<u> </u>		
423.0'	448.5'	BASALT FLOW BRECCIA - AGGLOMERATE (HYALOCLASTITE)	1			1	1		1	
	1	- similar to unit at top of hole, upper contact very irregular and scalloped but approximately								
	1	50 degrees t.c.a., lower contact sharp and more regular and at 50 degrees t.c.a.	1					1		
		- coarse clastic component consists of green to greenish grey to greenish maroon basalt			1	1	†			
		breccia fragments exhibiting narrow bleached reaction nms around chilled fragment margins		1						Ĭ
	- †	to lighter grey and green colour tones, breccia fragments are irregular in shape and angular.							ı	
		The basalt fragments are of similar composition to the surrounding flows but are fine grained.								
		- The finer clastic matrix is hyaloclastite, pale apple green, with small angular shard-looking					i			
		fragments that are glassy looking in a fine ash tuff or glassy matrix.		1						
		- The flow breccia is primarily clast supported with only a minor tuff matrix component.	1				1			
		- Calcite stringers are evident, as well as several narrow intervals of where the basalt breccia	1				1			

Feet From:	Feet To:	Description	Sample	From:	To:	Length	Au	Cu	:
	10.		Number:		1		ppb	ppm	
		matrix is replaced by calcite resulting in calcite supporting some basalt clasts.		 	 -		 		 -
	1	- At 432.6' a 1" white calcite vein at 50 degrees t.c.a.		1				1	
		- At 436.5' a 1" white quartz vein at 50 degrees t.c.a.	1		1	· †		1	 -
	<u> </u>	- The basalt breccia fragments are also bleached in local intervals to a light apple green						1	· · · · ·
		colour usually where calcite forms the matrix to the clasts.				ì		1 ;	г
	ļ						<u> </u>		
448.5'	501.6'	BASALT FLOW							
	<u> </u>	- Similar to flow preceding flow breccia interval.			1				
		- Fine grained, aphanitic over several feet near upper contact.			7	-	<u> </u>		· ·
		- Contains a fine < 1 mm feldspar (partially saussentized) imparting a weak speckled texture.							
		- At 458.75' - 460.5' moderate bleaching and weak patchy epidote plus calcite plus quartz, and						1	
	<u>'</u>	at approximately 45 degrees t.c.a.							
		- At 461.0' a 1/2° white calcite veinlet at 40 degrees t.c.a.							
		- At 462.0' - 463.0' pervasive saussentization with epidote as pale yellow-green interstitial and					-		
	 	stringers at 35 degrees t.c.a.					1	1	
		- Wisps and tension gash fracture fillings of black talc/chlorite as previous.		1				1	
		- At 487' - 488' white calcite 1/4" stringers along a slip at 0-15 degrees t.c.a., and at 491'-492'	 			 	 	1	 \vdash
	İ	white and pale salmon pink calcite veinlet/stringer 1/2* in width at 0-15 degrees t.c.a.	1		- -		 	1	 †
	<u> </u>	- At 497.6' - 499.0' white laminated calcite vein at 20 degrees t.c.a., upper contact slip.	<u> </u>	 		-1	 	 	 ╁
		- At 500' a patch of white calcite vein and stringer.	<u> </u>	<u> </u>				 	 ├──
	I	- Trace pyrite, a small bleb, at 468'.	 	<u> </u>			 	 	
		- Lower contact sharp at 45 degrees t.c.a.	 	-	† 	†	 	 	 <u> </u>
						<u> </u>		1	<u> </u>
501.6'	620.0'	BASALT FLOW		1		1			
		- interflow contact sharp at 45 degrees t.c.a., showing distinctive rock types on either side.	1	·					
	<u> </u>	- Flow is similar to preceding flow except that it lacks the fine speckled feldspar << 1 mm			,				
	<u> </u>	crystals. Also contains 1 mm pepper speckled black mafic mineral either talc and/or chlorite.				1		 	
	<u> </u>	- Still contains the wisps of black talc/chlorite fracture fillings.		1		1		 	
	!	- Minor calcite stringers present.	1					 	
		- At 528.3' 528.6' pale green quartz plus epidote vein at 45 degrees t.c.a.		1				 	 \vdash
		- Trace pyrite at 528.2', 529.6', 530.6', 535.6'							i –
		- Near 550.0' gradual disappearance of black mafic 1-2 mm flecks, tension gash black	1		1	1		1	
	1	talc/chlorite fracture fillings still remain.	1		1	 	<u> </u>	 	
		- At 560' - 581.8', a 1/2" - 1" quartz plus epidote veinlet, irregular, at low angles t.c.a.			1	 	 	1	
		- At 568.5' a 2" quartz epidote veinlet at 80 -90 degrees t.c.a.				1			 •
	1	- From 564.5' - 620.0' and from 638' - 643' the basalt flow is magnetic.	T	1		 		,	

Feet From:	Feet To:	Description	Sample	From:	To:	Length	Au	Cu		
ioni.	10.		Number:				ppb	ppm		1
		- The flow has a fine to medium grained interlocking texture, massive and homogeneous.		 	 	 				
_		Some mafic and feldspar interlocking crystals up to 3 mm lathes impart a fine to medium			1					
		grained texture,				 				-
	-	- From approximately 587' - 620' massive uniform homogeneous fine to medium	Ì	<u> </u>	1	†		<u> </u>	-	-
		crystalline flow, with little to no tension gash black talc/chlorite fracture fillings.				 		1		Ť
	1	- Pyrite blebs scattered throughout as trace to very weakly disseminated to < 1% pyrite locally.								
520.0'	649.0'	BASALT FLOW	<u> </u>			-		ļ		-
		- At 620' a 1/2" calcite veinlet at 20 degrees t.c.a. marking an internal contact from	 		1			<u> </u>		+—
		preceding flow to a finer grained basalt flow with << 1 mm saussentized feldspars	 		 	 -				╁
		imparting a weak speckled appearance to 649.0°. Occasional calcite and black chlorite			 	 		 		╁
		stringers as well as threadlike epidote lacy stringers, trace/speck pyrite	L	<u> </u>	 					╁╌
649.0'	683.0'	BASALT FLOW								
	- 003.0	- At 649.0' - 683.0' another internal basalt flow sequence contact at 30 degrees t.c.a.	ļ		<u> </u>					
	 	marking a fine amined beauty with 4.0 mm that the internal base in the state of the series of the amined base in the state of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of th		ļ	ļ					
		marking a fine grained basalt with 1-2 mm black chlorite/talc peppered texture	ļ	<u> </u>	<u> </u>					
	·	- Occasional calcite plus quartz plus epidote stringer and veinlet.	İ					i		Π
	+	- At 668' - 677' the threadlike white calcite stringers at 50 degrees t.c.a., and white calcite filled								Г
	 	vesicles(1-2 mm).								1
	<u>:</u>	- Trace speck pyrite overall, locally several coarse pyrite blebs at 668' - 672'.								\top
	+	- At 677', a white 1/2° calcite veinlet at 15 degrees t.c.a.								1
		- At 680.5, a 1/4" white quartz vein at 15 degrees t.c.a.								
83.0'	691.5'	QUARTZ AND CALCITE VEIN (BRECCIA)			<u> </u>					L
		- At 683' - 691.5' white quartz and calcite vein breccia. Upper contact at 40 degrees t.c.a.		 				 		╬
		Lower contact at 20 degrees t.c.a. Both contacts are variable and somewhat irregular.	-:	 -	 	 				-
		- From 687' - 691', a shear at 5 degrees t.c.a. parallels the core axis separating calcite		 			-			+
		from quartz in the vein material. The vein zone appears to be a tectonized quartz and		 	 	 		 		+-
		calcite vein, that has been brecciated and rehealed. Fragments and pieces of green basalt are			 -	-				
	1	also incorporated into the vein breccia.	169	683.0'	687.5'	4.5'	Nil	18		;
	·	- From 687' -691' and on the siliceous quartz side of the slip there are occasional blebs and			1	 •••	1411	10		-
	.	flecks of chalcopyrite in association with narrow reddish hematization along the slip.	170	687.5'	691.5'	4.0'	Nil	347		+-
591.5'	788.75'	BASALT FLOW								
-		- Basalt flow with <1 mm white peppered feldspars as previous. Several low angle 15 degrees			 	 		<u> </u>		1
		shears, calcite stringers and black talc/chlorite wisps and tension gash fracture fillings.			 			├ ───		╄

•

Feet From:	Feet To:	Description	Sample	From:	To:	Length .	Au	Cu		
	10.		Number:				ppb	ppm		
		- At 721' - 721.6' epidote pervasive afteration	 		 			-		┼─
	<u> </u>	- Occasional blebs and isolated pyrite cubes			1					1
		- At 743' - 747' white calcite vein, upper contact at 15 degrees t.c.a., lower contact irregular	171	743.0'	747.0'	4.0'	Nil	—		+-
_		at 70 degrees t.c.a.			1			i		+
		- At 748' - 751.5' pervasive patchy and stringer quartz and minor calcite, upper contact at	172	748.0'	753.0'	5.0'	Nil			+
		15 degrees t.c.a., lower contact at 40 degrees t.c.a., continues on at 752.0' - 758.6'	173	753.0'	755.5'	2.5'	Nil	-		
		where it becomes more if a mixture of quartz and minor calcite,	174	755.5'	758.5'	3.0'	Nil	T		+-
		- At 757' - 758' a low angle shear occurs at 15 degrees t.c.a.	1		1					+
		- At 764' -766' a white calcite vein with upper and lower contacts at 15 degrees t.c.a.	175	764.0'	766.0	2.0'	Nil			1
	1	Sharp contacts with lower contact a narrow clay shear.	1					 		Ť
		- Becoming fine grained near lower contact, internal flow contact at 65 degrees t.c.a.,	†		 			†		+
		minor bleaching and weak epidote and minor interflow breccia at contact. Over the	 				 -	 		┼-
		last 15', higher magnetic content as seen on the magnetic susceptibility meter.	 		 	 -	 	 		+-
			†	 	 	 	ļ			+
'88.75'	894.5	BASALT FLOW	 	 	 -	 		-		+
_		- Basalt flow massive, 1 mm feldspar peppered throughout, weakly sausseritized feldspar,	† · · · · · · · · · · · · · · · · · · ·	 	╆	.		 		╁
	(black tension gash fracture fillings of talc/chlorite as previous.	1		 	 		 		+
		- At 813.25' a 1/2" quartz plus epidote veinlet, 1/2" wide, at 50 degrees t.c.a.			-	 		 		╁╾
-		- Some local low angle at 15 degrees t.c.a. epidote lined fractures.			 	 -		 		+-
		- Only minor calcite stringers and patches.			 	 		 		╂
	1	- At 853' - 855' a 1/2" white calcite vein along a slip, parallels core axis until slip dislocated.	f	 	 	 		 -		+
		- Around 860.0' gradational change in grain size to fine grained basalt flow unit containing local	 		 	 		 -		+
		sections of weakly stretched black talc/chlorite filled vesicles, weak alignment at 50	 	 	 	 -		 		+
		degrees t.c.a.	 	 -	 					+-
	i	- Local calcite stringers.	 	 	 			 		╁
			 	 	 			 		-
394.5'	898.0'	BASALT INTERFLOW HYALOCLASTITE BRECCIA	 		 	 		 		<u>. </u>
		- wavy upper contact at 45 degrees t.c.a., lower contact a slip contact at 20 degrees t.c.a.	+		 	<u> </u>				+-
		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	 		 			 		-
398.0'	934.5'	BASALT FLOW	 		 	 		 -		+
		- basalt flow, starts off fine grained chilled contact and progressing to a medium to coarse	}	 	 	 				+-
	1	grained textured, massive, homogeneous flow.	 	<u> </u>	 	 				÷
	 	- At 911.75' - 913.25' a white calcite vein, upper contact at 30 degrees, lower contact at	176	911.75'	913.25'	4.51	 _			
	 	20 degrees t.c.a. Contains isolated blebs and several splashes of chalcopyrite.	1/6	911.75	913.25	1.5'	2	235		1
	T	- At 914.5' - 915.1' a white calcite vein at 35 degrees t.c.a. also contains several isolated	177	914.5'	915.75'	1-075		1070		
	!	chalcopyrite blebs.	 1//	914.5	915.75	0.75'	Nil	4070		

Feet From:	Feet To:	Description	Sample Number:	From:	То:	Length	Au ppb	Cu ppm		
	†	- Minor salmon pink calcite stringers	-		 			<u> </u>		ļ
		- Green mafic crystals, diffuse and mottled without sharp crystal boundaries but up to 1/4° in	 		 			 		
		size in a weak to locally moderate epidote altered feldspar in the interlocking groundmass.		 	 -					
		- At 927.5' a 3' stringer of calcite plus chlorite at 50 degrees t.c.a., trace pyrite.	-		 			ļ		!
		- At 929.3' a 1° calcite veinlet at 90 degrees t.c.a.		 	 	 -		 		i
		- At 931.0' a 2" calcite vein at 60 degrees t.c.a. with trace flecks chalcopyrite.		<u></u>		 				┼
				 -	 			 		
934.51	937.5'	CALCITE PLUS QUARTZ VEIN (minor chalcopyrite)		F	 		_	 		┼─
	<u> </u>	- At 934.5 - 935' calcite plus quartz vein zone, upper and lower contacts at 30 degrees t.c.a.						 		┼
_	; 	- At 935.0' - 935.5' siliceous, greenish plus white laminated quartz with chalcopyrite flecks.						 		+-
	: -	- At 935.8', a 2" white calcite vein at 30 degrees t.c.a. with 1/4" - 1/2" blebs chalcopyrite.	178	934.51	937.5'	3.0'	Nil	3440		+
		- At 936.75' - 938.25', white quartz.			1	0.0	- '*'	3440		•
	1	- The vein material is cut by later or 2nd generation white quartz containing chalcopyrite flecks.						 		
	<u> </u>	Upper contact at 65 degrees and lower contact at 30 degrees t.c.a. Minor calcite		 				 		
		near vein lower contact zone.	<u> </u>		 	<u> </u>		 		i
	 							!		1-
937.5'	946.5'	BASALT FLOW						 		
		- At 940.0' - 942.0' white calcite stringer zone that includes a 1/4 " quartz veinlet carrying flecks	 							 -
		of chalcopyrite.	i		 			+		
	<u> </u>	- At 942.5' - 945.0' a zone of quartz plus calcite veins and stringers. Upper contact at 40	179	942.25'	945.0'	2.75'	3	4070		╂
		degrees t.c.a. A 2 calcite plus quartz veinlet at 943.0 - 943.5, 1 and 3 quartz	 , -	342.20	340.0	2.73	<u></u>	1970		
		plus calcite veinlets carrying flecks of chalcopyrite. At 944.0' - 945.0' quartz + minor calcite.	 		 					
		the quartz carries flecks and blebs of chalcopyrite. Lower contact shear at 30 degrees t.c.a.	 	ļ- -				 		-
								 		
946.5'	1028.0'	BASALT FLOW						 i		
		- Interflow contact at 35 degrees t.c.a. marking a colour break from dark green, coarse flow			 					
		to medium green to light grey-green, fine to medium grained flow. Light green caused by weak			 	11				├
		saussentization of the feldspars in the groundmass. Lighter flow still contains wises and						 		
		tension gash fracture fillings of black talc/chlorite. Flow is pale grey green throughout to FOH			1			 		
		- At 960 calcite plus quartz vein 1° in width at 20 degrees t.c.a. minor calcite threadlike			11/1/19	*		· · ·		
		stringers. At 1004.0' a 4" calcite stringer at 45 degrees t.c.a.		//	12/1			 i		-
	<u> </u>	- At 1014.5' - 1016.3' calcite stringers and foliation fabric contain weakly developed green			1					i —
	↓	fuschite or pale chlorite. At 1026 a 2" white calcite vein shear upper contact at 20 degrees		-				 		├
	!	t.c.a.and lower contact at 30 degrees t.c.a. Minor vibrant green fuschite along upper contact.						 		\vdash
	. EOH	- Weak foliation fabric at end of hole at 40 degrees t.c.a.						 		

MAGNETIC SUSCEPTIBILITY LOG SCINTREX SM - 5 READINGS

PROJECT: MARSHALL - COOK TWP - DDH 96 - PH - A1

INTERVAL	SM - 5 C.G.S. UNITS	SOURCE
162 - 565 feet	0.0 - 0.1	Basalt flow and interflow breccia sequence
565 - 568	0.6 - 0.9	d
570 - 571	1.5 - 1.9	ď
573	0.3	ď
575 - 576	2.4 - 2.8	4
578	1.5	u
580 - 608	2.0 - 4.9	u.
611 - 613	1.1 - 1.7	u
616	2.7	и
618 - 620	1.0 - 1.9	и
621 - 633	0.1 - 0.7	u
638 - 641	2.0 - 2.7	u u
643	1.0	ц
646 - 691	0.0 - 0.1	ц
687 - 691* includes	0.5 - 2.0	hematized quartz along one side of slip
693 - 695	0.4 - 0.9	Basalt flow sequence as above
698 - 703	1.7 - 1.8	u
708 - 713	0.9 - 1.0	и
718 - 738	1.4 - 3.3	u
743 - 758	0.1 - 0.2	calcite veining
763 - 775	1.7 - 2.7	Basalt flow sequence as above
778	0.8	4
783 - 788	2.5 - 4.0	•
793	1.6	u.
798 - 803	0.2 - 0.5	u
818 - 842	0.0 - 0.2	
849 - 853	1.7 - 8.7	u u
853 - 863	1.2 - 1.5	•
865 - 870	0.2	4
873 - 888	0.4 - 1.1	
890 - 1028 ft EOH	0.0 - 0.1	u.

APPENDIX B SWASTIKA LABORATORIES ASSAY REPORTS GOLD AND COPPER GEOCHEMICAL ASSAYS



Swastika Laboratories

A Division of ISL/Assayers Inc.

Assaying - Consulting - Representation

Established 1928

Geochemical Analysis Certificate

6W-1186-RG1

Date: APR-02-96

Company: C. MARSHALL

Project: Cook

Atti: C. Marshall/D. Gamble

We hereby certify the following Geochemical Analysis of 15 Core samples submitted MAR-28-96 by .

Sample Number	Au PPB	Au Check PPB	
151	14	-	
152	3	3	
153	3	-	
154	Ni l	-	
155	10	-	
156	17	-	
157	21	-	
158	21	24	
159	17	-	
160	10		
161	7	-	
52	7	-	
163	7	-	
164	14	7	
165	10	-	

Certified by

P.O. Box 10, Swastika, Ontario Pok 1T0
Telephone (705) 642-3244 FAX (705) 642-3300



Established 1928

Swastika Laboratories

A Division of TSL/Assayers Inc

Assaying - Consulting - Representation

Geochemical Analysis Certificate

6W-1366-RG1

Conipany: C. MARSHALL

Date: APR-16-96

Project: Cook

Aun:

D. Gamble

We hereby certify the following Geochemical Analysis of 14 Core samples submitted APR-10-96 by .

Sample Number	Au PPB	Au Check PPB	Cu P PM	
166	Ni I	2	-	
167	19	-	-	
168	Nil	-	-	
169	Ni l	-	18	
170	Ni l	Nil	347	
171	Nil	· • • • • • • • • • • • • • • • • • • •	-	
172	Nil	-	-	
173	Nil	-	-	
174	Nil	-	-	
175	Ni l	-	-	
176	2	·	235	
7	Nil	-	4070	
1 /8	Nil	2	3440	
179	3	-	1970	

One assay ton portion used.

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705)642-3244

FAX (705)642-3300

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DOÇUMENT No. W9680 .00574 Formerly W9680.00291

THE TOWNSHIP OF

COOK

DISTRICT OF COCHRANE

LARDER LAKE MINING DIVISION

SCALE: I-INCH= 40 CHAINS

LEGEND

CROWN LAND SALE LEASES LOCATED LAND LICENSE OF OCCUPATION SURFACE RIGHTS ONLY IMPROVED ROADS KING'S HIGHWAYS RAILWAYS POWER LINES, MARSH OR MUSKEG MINES

M.R.O

S or C.S.

Loc.

NOTES

Area Withdrawn From Staking Under Mg. Act, 5 April 1951 Ciause (d) Section 39

Gravel Reserve Shown Thus:

HAS BEEN COMPILED

FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE

RECORDER, MINISTRY OF NORTHERN DEVELOP MENT AND MINES, FOR AD-

DITIONAL INFORMATION

ON THE STATUS OF THE LANDS SHOWN HEREON.

DATE OF ISSUE

NOV 21 1996

AINING RECORDER'S OFFICE

400' Surface rights reservation around all lakes &

iurtace Rights Withdrawn under Sec. 36,

NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP / AREA FALLS WITHIN THE WATABEAG MANAGEMENT UNIT

AND MAY BE SUBJECT TO FORESTRY OPERATIONS.
THE MINR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT: P.O. BOX 129 SWASTIKA, ONT. POK ITO

705-642-3222

PLAN NO.- M.339

ONTARIO

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

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ARCHIVED ON JUNE 01/95

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