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DRILLING AND GEOLOGICAL REPORT, EASTMAIN RIVER PROJECT

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DRILLING AND GEOLOGICAL REPORT
F GRID AND ITS EXTENSIONS
EASTMAIN RIVER PROJECT, QUEBEC
VENTURE 116
BY
PLACER DEVELOPMENT LIMITED

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Toronto, Ontario

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SUMMARY AND CONCLUSIONS

The 1983 summer program on the various F grid extensions consisted of geological mapping and diamond drilling. Fifteen holes (1590.5 meters) were drilled on the extensions. On the main F grid the summer program consisted of two holes (371.8 meters).

Three holes (83-32, 83-29, 83-30) are particularly significant. Hole 83-32 was the only hole outside the main F grid to encounter economic gold grades. A section grading 11.79 grams Au over 0.8 meters was intersected at a vertical depth of 100 meters. Hole 83-29 cut a 1.52 meter section assaying 19.23 grams at a vertical depth of 240 meters. This hole is some 300 meters west of the A Zone and may be indicative of a new zone. Hole 83-30 intersected in the C Zone area two new, non-conductive auriferous chert bands. They are structurally above the previously defined ore horizon. One of the chert bands contained 6.11 grams Au over 1.83 meters. Economically the results of 83-30 are perhaps the most significant.

On the F grid recommendations have been made to further explore the C Zone, to carry out a stratigraphic drilling program between the B and C Zones and finally to follow-up on the results of 83-29.

1000 meters of drilling have been proposed for that part of the F extension grid lying west of line 10W as this area is host to several anomalous gold and silver occurrences.

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INTRODUCTION

To date the heart of Placer's Eastmain project continues to be found on the F grid and its extensions. With but one exception (I grid) all gold values within the Main Block (753 claims) are found on the F grid and its extensions. The gold values on the grid occur over a strike length of 4.9 kilometers.

The present report will attempt to coherently integrate the exploration data gathered on the F grid during the 1983 summer program. Exploration work consisted of diamond drilling and mapping.

GRID DESCRIPTION

The F grid presently consists of greater than 200 km of cut line. The base line is 10 km in length and extends from 6300W to 3700E. The main F grid was cut in 1982 and several extensions were added during the winter of 1983. Figure 1 graphically outlines the 1983 extensions. Table I summarizes the extension details. Briefly the additional grid lines were necessary to cover weak airborne conductors, surface gold mineralization and favourable stratigraphy.

LOCATION AND ACCESS (Figure 2)

The project area is situated some 320 km (200 air miles) north of Chibougamau, Quebec. Access to the project area is by float plane. Propair maintains a float plane base southeast of Lake Albanel. The base can be reached from Chibougamau via an all-weather gravel road, a distance of 167 km. From the air base it is a further 167 km to the Placer camp. The grid is 3 km south of Placer Lake. Access is by helicopter based at the camp.

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FIGURE 2

GENERAL LOCATION MAP
EASTMAIN AREA, QUEBEC

Aug., 1982

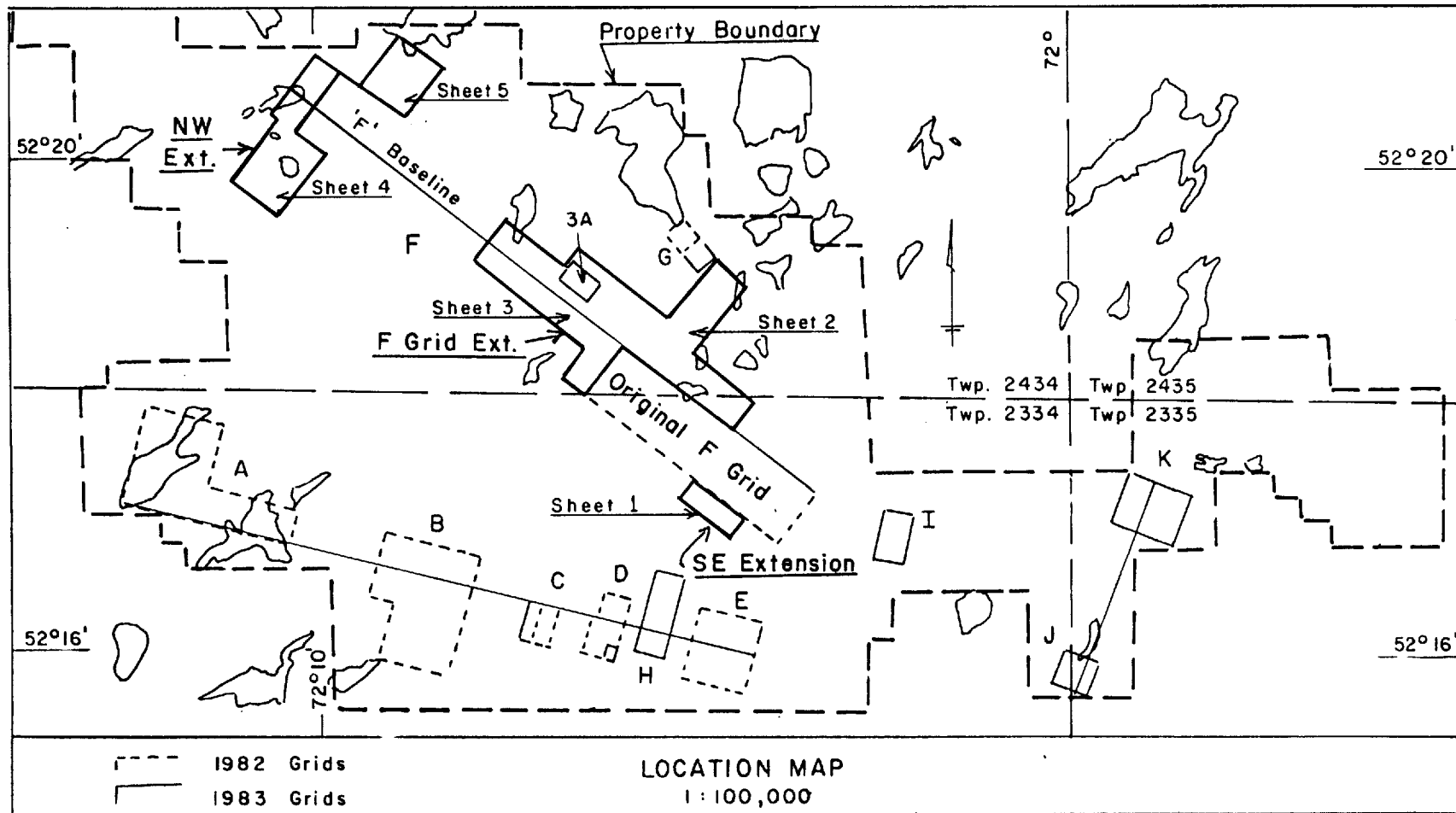


FIGURE 1
1983 F GRID EXTENSIONS

T A B L E I
F Grid Extensions

Section Name	Total Km	Lines	Chainage	Claims Covered	Comments
F Grid	82.4	0 to 37E	0 to 1000S		Cut in 1982
SE Extension	6.7	21E to 30E	1000S to 1400S	404978 Cls.1-4 404977 Cl.5	Grid extended to cover "Missing Link" conductor
NW Extension	12.6	47W to 55W	650N to 1650N	406376 Cls.1-2, 406375 Cls.3-5 412605 Cls.4-5 412604 Cls.2-5 412603 Cls.2-3	Three grids all tied to the F Grid base line covering 1974 Aerodat conductors
	5.35	59W to 63W	500S to 650N	412603 Cl.5 412604 Cl.1 412605 Cls.1-3 412606 Cls.1-2 406374 Cl.2	
	19.8	53W to 62W	500S to 1200S	411167 Cls.3-5 411168 Cls.2-5 411169 Cl.1 411175 Cls.3-5 411176 Cls.1-3 406374 Cl.2 412606 Cls.1, 4, 5	
F Extension	14.1	8.5E to 21E	0 to 600N	399290 Cl.5 404967 Cls.4-5 404968 Cl.1 404969 Cls.1-2 404970 Cl.1	Extended for future drilling of A-B Zones at depth
	12.3	3E to 9E	0 to 1850N	399289 Cls.4-5 404965 Cl.5 404966 Cls.1-2 404967 Cls.1-4 406073 Cl.5 406155 Cl.5 406156 Cl.1	

T A B L E I (contd.)

Section Name	Total Km	Lines	Chainage	Claims Covered	Comments
F Extension	21.0	3E to 14W	0 to 700N	398259 Cls.3-5 398262 Cls.1-3 398263 Cls.3-5 404964 Cls.1-2 404965 Cls.4-5 404966 Cls.1-2 404995 Cls.4-5	Covers extension of favourable stratigraphy and weak AEM responses
	19.0	14W to 2500W	400S to 400N	398257 Cls.2-4 398258 Cls.1-4 398259 Cls.3-4 411123 Cl.5 411124 Cl.1 411123 Cl.2	Covers Michel Lake showing and weak AEM responses
	4.0	5W to 14W	0 to 400S	398258 Cl.1-2 398259 Cls.4-5 398262 Cl.1 404995 Cl.3	As above
	8.0	0.5W to 4W	0 to 1000S	399289 Cls.1-2 399290 Cls.1-2 404995 Cls.3-4	Covers Boniwell extension zone
	5.6	1.5N to 5.5N	800W to 1400W	398259 Cls.3-4 398262 Cls.1-3 398263 Cl.4	Covers NE striking Julian Lake showing

PREVIOUS WORK

The F grid area has been previously explored by Placer in 1969-70, by Nordore Mining from 1974 to 1976, and again by Placer since 1980. The reader is referred to the 1982 F grid report for the complete exploration history of the grid.

REGIONAL GEOLOGY

The F grid lies within what is now locally called Cycle I mafics. This volcanic sequence is 2 to 4 km in thickness and is overturned. Dips are to the north (35° to 60°), the rocks are south facing and trend northwesterly. To the northwest these volcanics are intruded by a younger granitic body. To the southeast the sequence is overlain by the Proterozoic Otish sediments. The dominant rock type is basalt which texturally varies from massive to pillowed to porphyritic to variolitic. Minor rhyolite pyroclastics are present. Semi-concordant massive to talcose ultramafics are found within the sequence. Metamorphism is of the upper greenschist to lower amphibolite facies.

GRID GEOLOGY

SUMMARY

The summer's mapping yielded no new geological information. It essentially confirmed and detailed last years reconnaissance mapping. Perhaps the most significant aspect of the program was that mapping of the F extension grid permitted us to recognize and map the gross A/B Zone stratigraphy. All key rock types of the A/B area outcrop on the F extension grid. An overall thickening of the volcanics occurs on this grid.

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Mapping on the F northwest extensions encountered only granitic rocks.

There were no outcrops on the southeast extension.

The various geological maps are annexed to the report.

F Grid: SE Extension (Sheet 1)

These lines were cut in an attempt to locate a Rexhem conductor detected between the B and C Zones. Not having been found on the main F grid, it was believed to lay south of the grid. These lines were mapped in June 1983. There were no outcrops. Equally, geophysics failed to locate the conductor.

F Grid: NW Extension (Sheets 4 & 5)

This area consists for all practical purposes of 3 grids each tied into the main F grid base line. The grids cover conductors detected by a 1974 Aerodat survey. Mapping and diamond drilling indicate that these grids are underlain by granitic rocks. The granites are massive to medium grained (1 to 3 mm). They are composed of 5 to 20% quartz, 2 to 5% biotite all set in a feldspar ground-mass. Colour varies from white to pinkish. Epidote and hematite filled veinlets are not uncommon. The granites generally contain fine (1 to 5%) magnetite disseminations and trace amounts of sulphides.

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F Extension (Sheets 2 & 3)

The F extension grid covers the Hillhouse, Julian and Michel Lake areas. The extension was necessary in order to cover the general favourable stratigraphy, two weak airborne anomalies and two surface gold occurrences. This area is unique within the Main Block as outcrops are abundant and because this is the only area where the A/B Zone stratigraphy actually outcrops. It is interesting to note that the volcanic sequence on the F extension grid has considerably thickened when compared to the A/B Zone. Rock types encountered during the course of mapping are outlined in Table II.

VOLCANIC STRATIGRAPHY

Using three key marker horizons one can establish a crude volcanic stratigraphy. The three units are the feldspar porphyritic basalts, the semi-concordant ultramafics and the variolitic basalts. These same units are present in the A/B Zones. Table III summarizes the volcanic stratigraphy present along a north-south section taken immediately east of Julian Lake. Eastward we can trace this same stratigraphic sequence through to the A/B Zones and westward it can be followed out to roughly line 17W. Beyond this point geological data is insufficient. It is thought that the volcanics are completely cutoff by a younger granodiorite mass in the vicinity of Suzie Lake. We do know, however, that variolitic flows occur as far westward as line 20+50W as they are present in holes 83-16 and 83-32.

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T A B L E II

Rock Units Present on F Extension Grid

Class	Rock Type	Texture/Structure
Volcanic	Basalt	Massive-pillowed-flow brecciated Fragmental, porphyritic, mega-amygdaloidal
	Rhyolite	Massive, tuffaceous, agglomeratic
Intrusives	Diorite	Quartz bearing
	Granodiorite	
	Gabbro	Massive
	Pyroxenite	Talcose and magnetic or massive
	Dykes	Rhyolite; basaltic; feldspar porphyritic; feldspar and amphibole phenocrysts
Volcanoclastics		Quartz rich and garnetiferous

T A B L E III

F Grid Extension: Volcanic Stratigraphy
N/S Section Immediately East of Julian Lake

Oldest (N) ↓ Youngest (S)	Rock Units	Approximate Mapped Thickness
	Massive, pillowed, mega-amygdaloidal basalts interbedded with rhyolite flows and tuffs	200 m
	Feldspar porphyritic basalt	± 5 m
	Flow brecciated, massive, pillowed, amygdaloidal basalts, minor rhyolite tuffs	± 200 m
	Massive to talcose ultramafics contains minor basalt and rhyolite tuff	50 to 180 m
	Pillowed and variolitic basalts	± 50 m
	Massive, pillowed, flow brecciated basalts. Minor gabbro, agglomerate and pyroxenite	± 350 m
	Rhyolite agglomerate	± 25 m
	Pillowed basalt	± 75 m
	Rhyolite agglomerate	± 200 m
	Felsic volcanoclastics	?

DESCRIPTION OF ROCK TYPES

Mafic Volcanics: All mafic volcanics were mapped as basalts. They are by far the most predominant rock type. A characteristic of the basalts is their diversity of textures and structures present within a limited area. Table IV outlines the field terms used and the corresponding geological features observed.

Felsic Volcanics/Volcaniclastics: The felsic volcanics consist of quartz eye bearing flows, fine grained tuffs and agglomerates. They form generally thin bands 5 to 40 m in thickness. On the F extension grid the rhyolite horizons preferentially occur either stratigraphically below the porphyritic basalts or stratigraphically above the variolitic basalts. Interestingly enough this time period corresponds to the period during which the A/B Zones were formed.

The rhyolite agglomerates form the second youngest, non-intrusive rock unit on the grid. The agglomerates contain between 20 and 80% felsic fragments varying in size up to 15 cm. Occasional mafic clasts are present. Up to 5%, 1 to 5 mm size garnets, are contained in the felsic to chloritic matrix.

Overlying the agglomerates is an acid volcaniclastic unit. Several outcrops are found between 650S and 800S on line 4W. This unit is typified by crude bedding, a differential erosion, a thick alteration crust and by large (greater than 1 cm) garnetiferous nodules. Up to 15% quartz grains 1 to 3 mm in size can be found in the volcaniclastics.

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T A B L E IV

Basalts Present on F Grid Extension

Field Term	Geological Characteristics	Comments
Massive and pillowed basalts	Fine to coarse grained vesicular - amygdaloidal - "mega-amygdules"	Mega-amygdules are circular features formed by a thin plagioclase rim; internal and external composition are similar.
Flow brecciated basalts	Contains up to 80% basalt fragments. Generally thin and discontinuous	Frequently found in the stratigraphic footwall of A/B Zones.
Porphyritic basalts	Contains between 5 and 15% 1 to 3 mm size feldspar laths in a basaltic matrix Traceable found 7W to 2050E	Found in stratigraphic footwall of A/B Zones. Locally amphibole phenocrysts are present.
Fragmental basalt	Unit contains between 5 and 60% rhyolitic fragments in a basaltic matrix	Most probably a bimodal pyroclastic.
Variolitic basalt	Generally pillowed; varioles up to 5 mm in diameter	Found in the stratigraphic hanging wall of A/B Zones. Traceable over 7 km

Intrusives - Ultramafics: The ultramafics form a semi-concordant body having an approximate strike length of 2.5 km before thinning out significantly. Tongues of the ultramafic extend onto the A/B Zones. It is interesting to note that the gold mineralization (i.e. A/B Zones) coincides with the thinning out of the ultramafics.

Thickness of the ultramafic body on the F extension grid varies between 40 and 150 m. Three facies were identified in the field. There is a gabbroic phase which tends to occur along the margins of the body followed by massive non-magnetic and talcose highly magnetic pyroxenites. The talcose variety erodes positively and forms a major ridge. Polygonal cooling textures were locally observed in the talcose pyroxenites.

Drilling has revealed that there is a significant volcanic content within the ultramafic body. Rhyolite tuffs and basalt flows form traceable units within the pyroxenites.

Gabbros: The gabbros appear to form sills within the basalts. The principal gabbro body, on the grid, occurs close to tie line 7N. Gabbroic lenses (coarse grained flows?) have been mapped throughout the mafic flows. Typically the gabbros are massive dark green and contain abundant amphiboles. The gabbroic weathered surface is rounded and smooth.

Intermediate Intrusives: The tip of a cross-cutting diorite plug outcrops on line 4W at 2S. Ground magnetic surveys indicate that this plug is running sub-parallel to the grid lines. The bulk of the diorite lies to the southwest of the grid. The diorite is massive, fine to medium grained and non-magnetic.

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At the western edge of the F extension grid quartz diorites grading into granodiorite outcrop. These rocks are part of a much larger granitic stock intrusive within the volcanic sequence. It is believed that it is in this general area that the volcanics are completely cutoff by this intrusive. Mapping, diamond drilling and magnetic data all strongly allude to this probability.

The mapping found the quartz diorites to be massive, coarse grained (2 to 4 mm) and to contain between 2 and 15% free quartz and between 30 and 40% hornblende. Towards the south this unit becomes progressively richer in quartz, deficient in mafic minerals and hence the name change. Abundant basalt xenoliths are present within the granodiorite.

Dykes: Frequent dykes roughly sub-parallel to the grid lines occur principally north of the base line between lines 4W and 2E. The dykes are generally less than 5 m in thickness. Several types were mapped. Compositionally they range from fine grained rhyolitic to basaltic. Texturally they are mafic feldspar porphyritic dykes (possible feeder dykes?) and intermediate amphibole feldspar prophyritic dykes.

Structure: With but one exception the structure appears to be relatively straightforward. The units strike between 115° and 130° and dips are consistently northerly, varying between 55 and 75° . All pillow top determinations indicate a south facing sequence. The contrasting dip and tops reveal the volcanics to be overturned.

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A structural complication arises south of the base line between lines 13W and 15W. For reasons yet to be determined there is a sudden change in strike. The outcrops in this vicinity have been rotated some 25 to 40° and are now striking east-west. This feature may somehow be related to the younger intrusive granite which perhaps has exerted a compressional force and pushed down these particular volcanics.

MINERALIZATION

F Grid: NW Extension (Sheet 4)

Two granite outcrops were sampled in order to determine their background gold content. One sample contained less than 5 ppb Au while the second (L61+50W, 3+00S) returned a possibly anomalous value of 290 ppb Au. The significance of such an assay remains to be determined.

F Grid Extension (Sheet 3)

During the course of the summer mapping program 24 surface samples were collected and assayed. These samples identified six zones with anomalous gold values which are outlined in Table V. Two of these zones (Julian Lake/Michel Lake) had previously been identified in 1982.

Several points of interest are contained in Table V. The first is that gold occurs in at least three different host rocks. Second, gold is found in both vein material and within disseminated sulphides. Also equally significant is that four of these anomalous values lie between lines 13W and 20+50W. One obvious conclusion is that this area certainly merits further appraisal.

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T A B L E V

F Grid Extension: Surface Gold Occurrences

Name	Station	Host Rock	Description	1983 Grab Sample Results					
				Sample	Au g/t	Au ppb	Ag g/t	Cu ppm	Zn ppm
Julian Lake	11+00W 4+00N	Gabbro (Coarse basalt)	Mineralized quartz vein probably seated in a fault; vein strikes 035° and is sub- vertical; mineralization consists of py, po and cpy; thickness varies from 0.3 to 1 meter; exposed over a strike length of 5 m. Responds to VLF and HEM	2750	Tr	-	7.41	10,400	-
				3815	1.54	-	Tr	7,100	-
				3816	5.11	-	14.75	13,800	-
	13+00W 1+00S	Rhyolite Tuff	Disseminated py, py nodules Disseminated sphalerite	2748	2.32	-	1.66	283	-
				2749	Tr	-	Tr	219	20,000
				3852	2.74	-	1.75	144	2,600
	6+50W 2+50N	Basalt	Silicified shear zone with disseminated py and cpy; 1% sulphides.	3821	-	2100	0.30	-	-
	16+00W 0+75N	Rhyolite	Disseminated po, fuchsite present.	2746	1.37	-	0.34	580	-
				2747	1.27	-	Tr		
	18+50W 1+75N	Basalt	Quartz vein with disseminated py and cpy.	2735	-	1020	Nil	5160	-
Michel Lake	20+50W 0+25N	Granodiorite	Dark grey aphanitic quartz vein striking 125° and verti- cal from 0.1 to 0.7 meters thick. Exposed over 3 m. Quartz tourmaline veining in vicinity, other quartz veins in general are barren	2745	68.78	-	7.17	242	-

GEOPHYSICS

Geophysical surveying consisted of VLF, magnetic and MaxMin surveys jointly carried out by Placer and Eldor in February and March of 1983. Geophysical reporting is by John Gingerich of Eldor Resources. The reader is referred to this report.

DIAMOND DRILLING

Diamond Drilling was performed on the F grid, F extension and NW extension. Table VI gives the respective number of holes and meterage for each area. Holes are grouped according to the area drilled and for each area a hole by hole discussion follows.

T A B L E VI
Area Breakdown of Diamond Drilling

Grid	Number of Holes	Total Meterage
F NW	3	187.2
F extension	12	1403.3
F	2	<u>371.8</u>
		<u>1962.3</u>

A complete and detailed summary of the drilling on the F grids is outlined in Table VII. The drill holes are all plotted on the various geological maps.

Drilling: F NW Extension (Sheets 4 & 5)

Summary

Two weak conductors were drill tested. Both conductors are found in granitic rocks and both are caused by conductive fault gouge material.

contd. ...

T A B L E VII
 Summer Drilling Program
 F NW Extension-F Extension-F Grid

Grid	Hole No.	Location	Dip	Azimuth	Length(m)	Assay Results							Remarks	
						From	To	C.L. (m)	g/t Au	g/t Ag	% Cu	ppm Zn		
NW Extension	83-9A	5150W-1180N	-55°	Grid S	40.2								Abandoned in overburden	
	83-9B	5150W-1180	-75°	Grid S	41.5								Conductor (MM6) due to faulting Conductive fault zone from 34.4 to 35.6 m	
	83-10	5650W- 875S	-55°	Grid S	105.5								Conductor (MM10) due to faulting Conductive fault gouge from 82.3 to 87.78 m	
F Extension	83-16	2050W- 200N	-45°	Grid S	165.8	93.45	95.95	2.50	Tr	2.42	0.34	-	Conductor MM16 drilled; barren stringers in basalt	
	83-17	1600W- 150N	-55°	Grid S	145.4	40.93	45.65	4.72	Tr	2.03	0.098	12	Very heavy green carbonate alteration	
						133.38	134.38	1.00	Tr	15.29	-	-	Abundant sulphide disseminations	
						143.98	145.38	1.40	Tr	8.37	-	16	Silver zoning present; silver increasing with depth Last 21.2 m grades 3.05 grams	
	83-18	1067W- 392N	-55°	Grid W	130.1	-	-	-	-	-	-	-	Testing Julian Lake showing	
	83-27	1300W- 010S	-55°	Grid S	99.7	61.02	67.11	6.09	1.26	24.85	-	-	Gold and silver values found in conductive sulphides	
	83-28	100W- 290N	-55°	Grid S	104.7	76.57	78.70	2.13	Tr	2.44	-	-	Harren meta chert band	
	83-32	2050W- 75N	-55°	Grid S	155.2	87.35	88.34	0.99	2.16	2.98	0.10	-	-	Michel Lake showing not intercepted by drilling
						122.32	123.08	0.76	3.22	1.10	0.05	-		
						133.92	134.72	0.80	11.79	1.13	0.04	-		
	83-33	1050W- 615N	-55°	Grid S	99.7	34.57	41.57	7.00	Tr	5.84	0.05	667	Hole drilled to test a VLF conductor	
66.69						73.69	7.00	1.15	6.23	0.04	-			
76.84						77.84	1.00	1.71	1.65	0.21	-			
83-34	900W- 260N	-75°	Grid S	99.7	67.72	68.72	1.00	Tr	4.59	-	-	VLF related to faults or shears		
83-35	750W- 140N	-55°	Grid S	96.3	33.61	34.61	1.00	Tr	3.43	0.02	-	VLF related to topography		
83-36	400W- 160N	-55°	Grid S	87.5	70.59	71.59	1.00	Tr	3.43	-	-	VLF related to faulting or shears		
83-37	800W- 295S	-55°	Grid S	98.5	42.30	45.40	3.10	Tr	1.39	-	-	VLF related to topography		
83-38	1800W- 90N	-55°	Grid S	120.7	52.84	53.88	1.04	Tr	4.05	-	-	VLF caused by sulphide stringers		
F Grid	83-29	800E- 070S	-80°	Grid S	249.0	233.78	235.30	1.52	1.44	2.20	-	-	Values at a vertical depth of 200 meters Highest silver value on F grid or its extensions Host rock is a basalt locally grading into a dacite Sphalerite stringers present	
						237.80	238.80	1.00	0.69	112.10	-	-		
241.40						242.90	1.50	19.23	7.85	-	700			
244.90						246.90	2.00	2.15	2.49	-	-			
83-30	2750E- 440S	-55°	Grid S	122.8	51.45	52.97	1.52	6.11	0.77	0.16	-	Two new meta chert zones structurally above previous C Zone intersections; target is non-conductive		
					55.47	55.90	1.43	1.85	14.35	0.21	-			
					87.11	88.05	0.94	1.02	7.05	0.03	-			

Testing
VLF
Responses

DiscussionHole 83-9A (Figure 3)

This hole was abandoned in 40.2 meters of overburden. The hole was drilled to test conductor MM6 which has a conductivity thickness product of 0.5 mho's.

Hole 83-9B (Figure 3)

This second attempt using a 75° hole hit fresh massive granite at 17.7 meters. Conductive fault gouge material was intersected between 34.4 and 35.6 meters. This hole intersected a major fault as coring was impossible beyond 41.45 meters.

The conductor lay within a major magnetic low which after drilling is now known to reflect an overburden filled topographic low due to faulting.

Background gold values were 5 ppb or less.

Hole 83-10 (Figure 4)

This hole was spotted to test a well defined, strong quadrature anomaly. With the exception of 5.4 meters of meta basalt granite was the unique rock type present. The conductor is explained by a major fault zone intersected from 82.3 to 87.8 m.

Background gold values are 5 ppb or less.

F Extension (Sheet 3)Summary

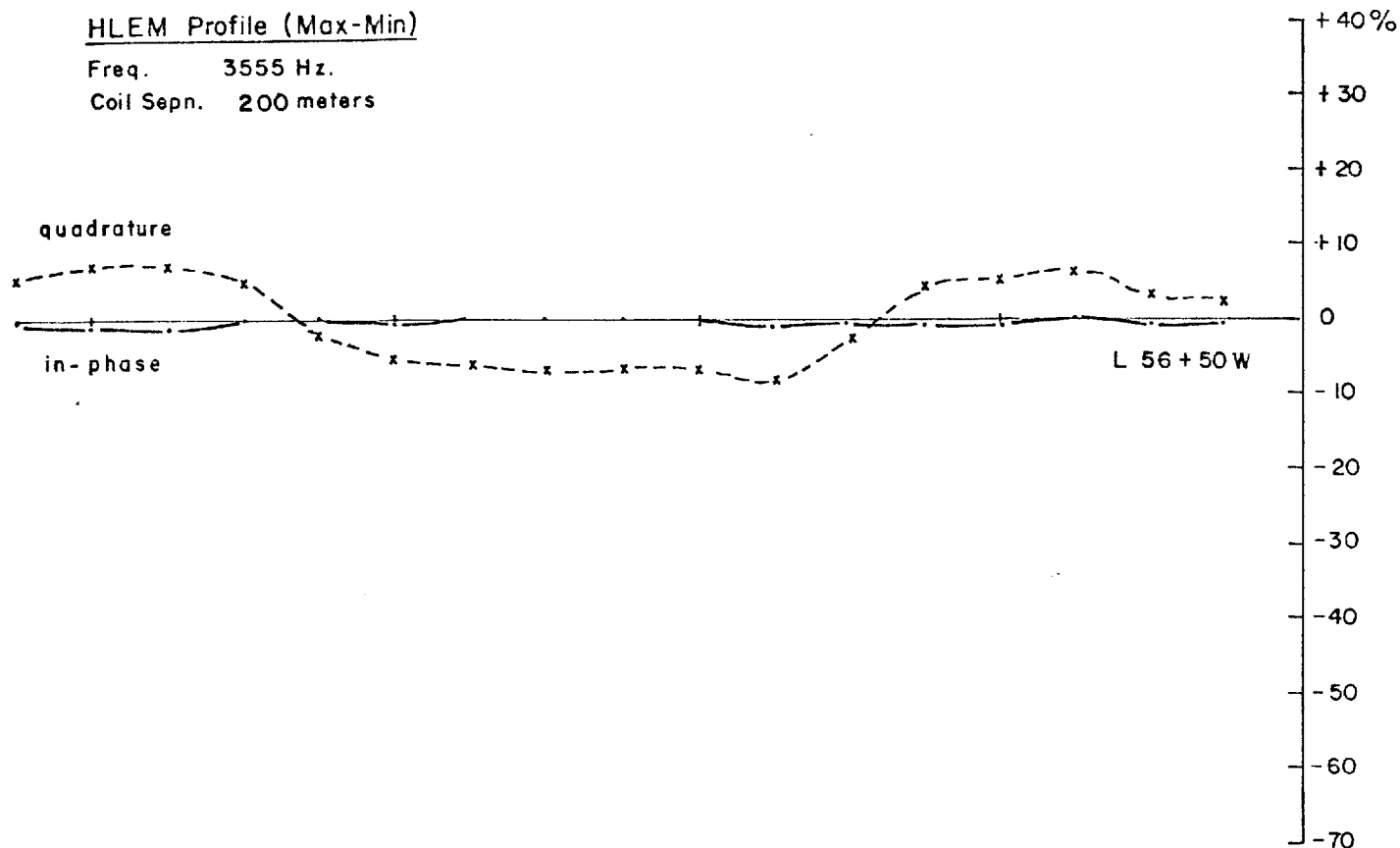
Hole 83-32 intersected the only economic gold values on the F extension grid. A 0.80 meter thick section of locally silicified basalt ran 11.79 grams Au. Sphalerite stringers were locally present. This hole did not intersect the Michel Lake showing which was its original target.

contd. ...

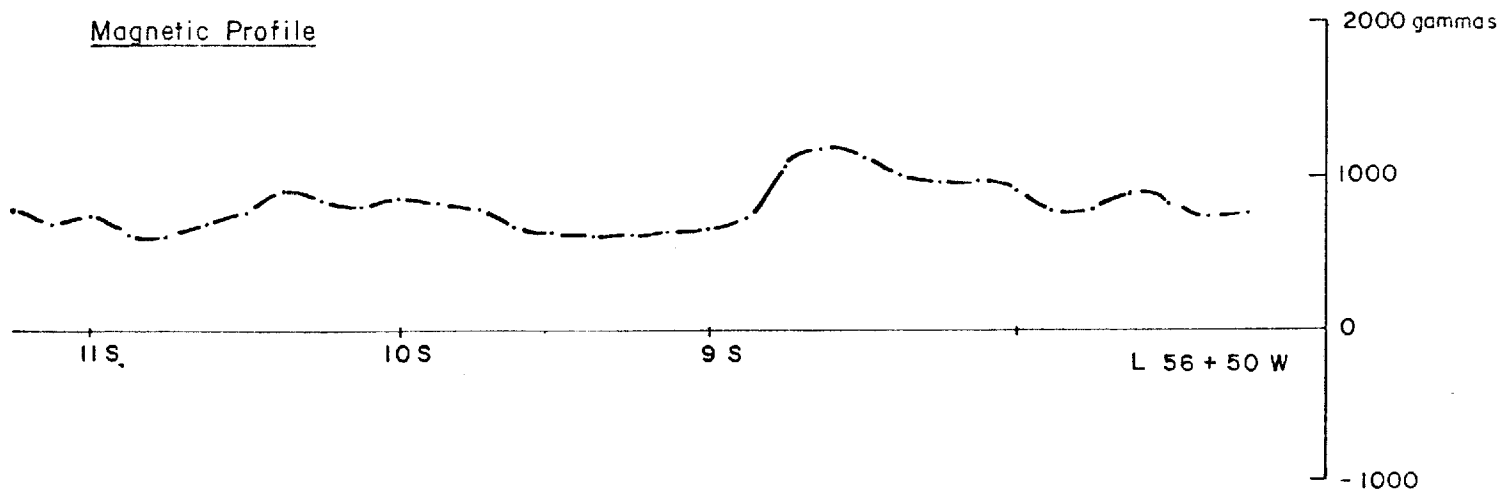
HLEM Profile (Max-Min)

Freq. 3555 Hz.

Coil Sepn. 200 meters



Magnetic Profile



← grid S

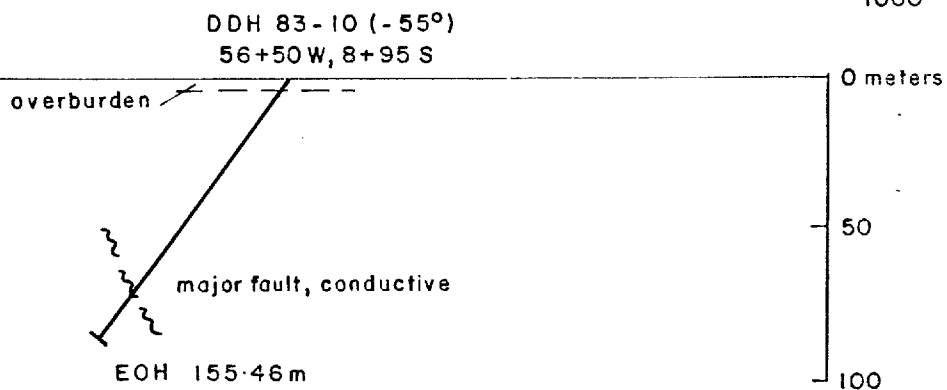


Figure 4 : Geophysical Profiles
DDH No. 83-10
Eastmain Project, Quebec
Horiz. Scale: 1:2500
Date: Oct. 1983

Hole 83-17 is geologically very interesting. This is the only hole on the F grid or its extension to have encountered heavy green carbonate alteration spread over a core length of 60 m. No gold values were present and silver values were found to be increasing with depth.

Hole 83-18 showed the Julian Lake showing to have no depth extension.

Hole 83-27 intersected conductive sulphides which contained a 6.1 meter interval grading 1.26 grams Au and 24.85 grams Ag.

Holes 83-33 to 83-38 were used to test VLF responses. Results from all the holes were negative with the exception of hole 83-33 which returned two 7 meter thick intersections assaying 5.84 and 6.23 grams silver.

Discussion

Hole 83-16 (Figure 5)

A "highly tenuous quadrature anomaly" (MM16) was the target for this hole. Quartz-sulphide veins and stringers, hosted by basalt were cut from 62.0 to 66.3 meters. 10 to 15% sulphides were present. Due to the close proximity of the Michel Lake showing this hole was allowed to significantly go beyond the conductor

Geologically significant is the presence of two variolitic basalt horizons and also two sections 30 and 37 meters thick (core length) of intrusive quartz diorite.

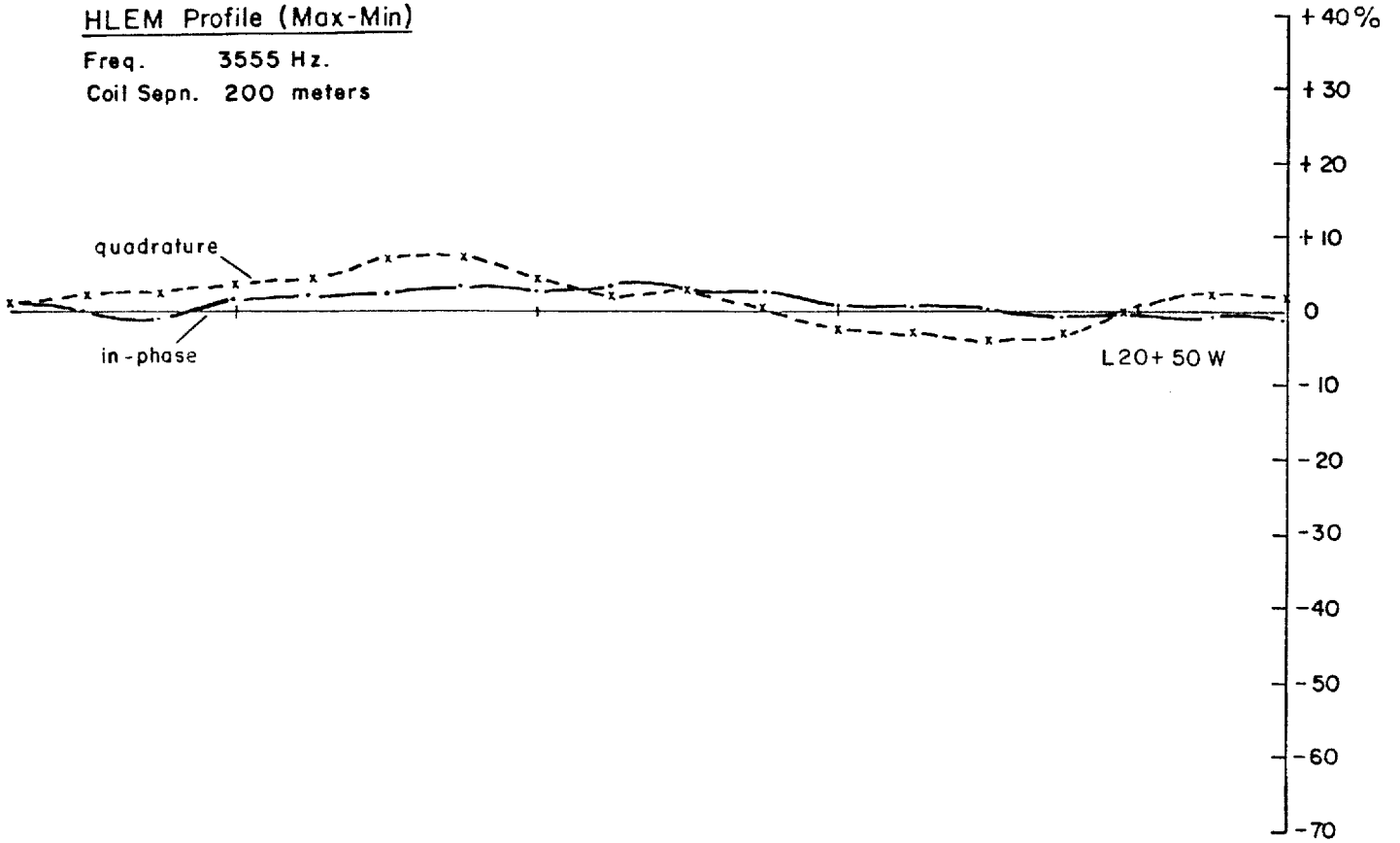
Geochemically copper assays were in the 0.1% to 0.5% range. Contrary to the A/B Zones this chalcopyrite carried at best only trace gold values.

contd. ...

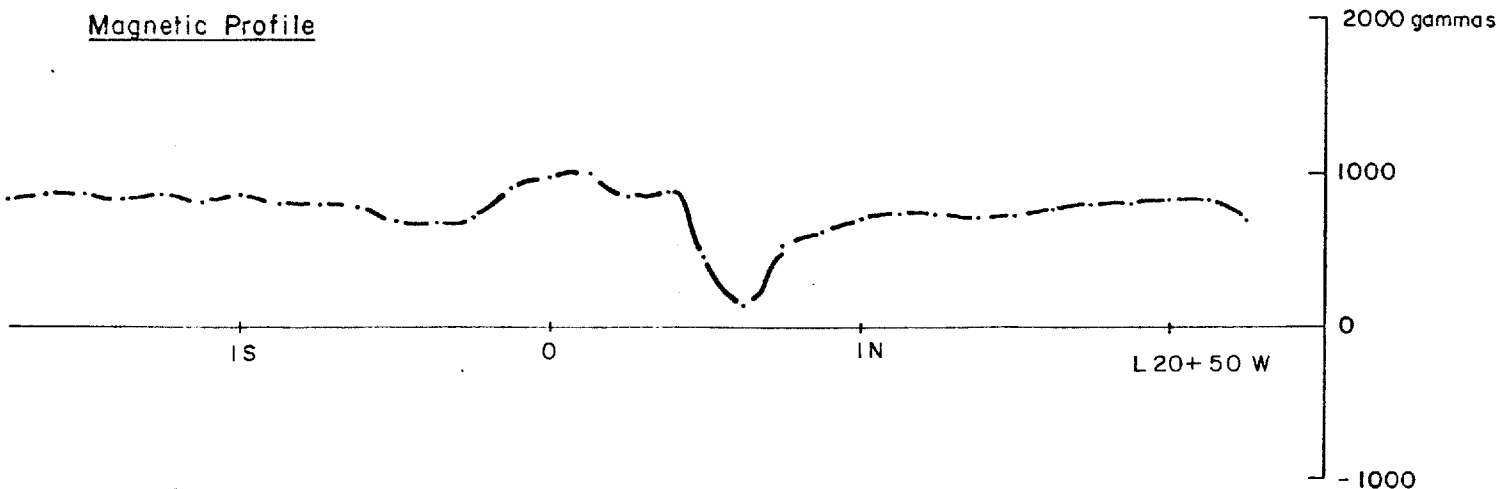
HLEM Profile (Max-Min)

Freq. 3555 Hz.

Coil Sepn. 200 meters



Magnetic Profile



← grid S

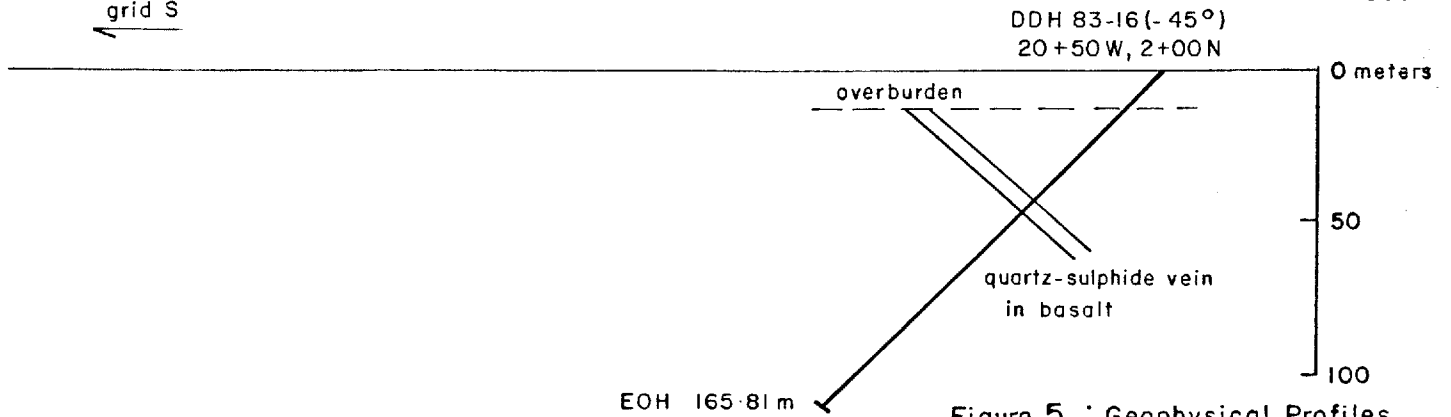


Figure 5 : Geophysical Profiles
DDH No. 83-16
Eastmain Project, Quebec
Horiz. Scale: 1:2500
Date : Oct. 1983

Hole 83-17 (Figure 6)

Geologically this hole is particularly interesting. It was drilled to test a MaxMin conductor having a short strike length and a conductivity thickness product of 1 mho. The hole is characterized by 105 meter thick rhyolite, rhyolite tuff sequence, 60 meters of which is strongly altered. Alteration consisted of chloritization, local biotitization, local massive epidotization, bleaching and frequent bands 3 to 5 m thick with pervasive green carbonate. Green tourmaline blades were present over a 1.5 meter section.

Equally impressive was the abundant, almost continuous pyrite and pyrrhotite disseminations. Thin, massive py, po stringers were intermittantly encountered. Visually the altered zone could contain between 15% and 20% disseminated pyrite and pyrrhotite. Chalcopyrite was for all practical purposes absent.

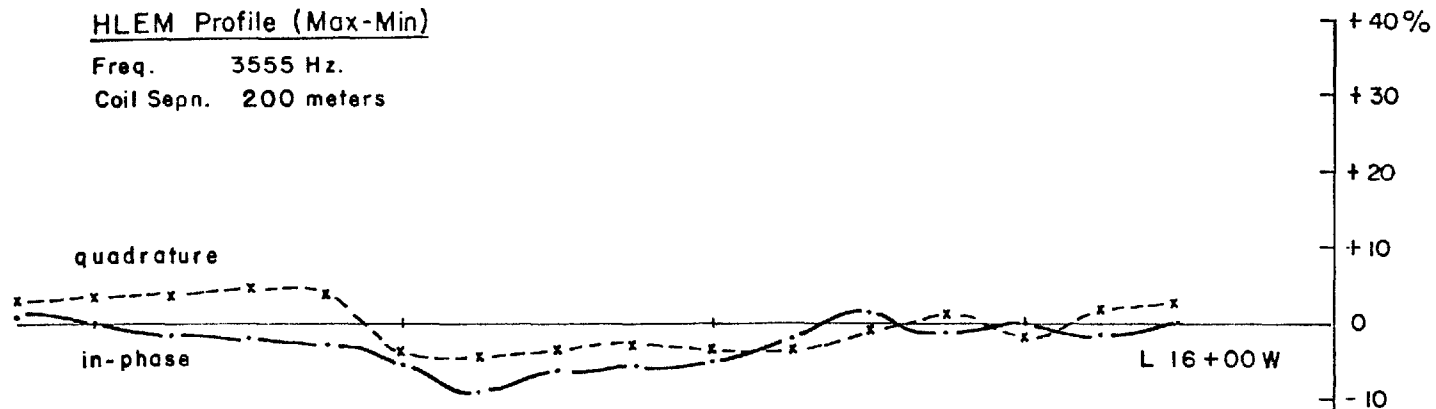
100 samples representing at least 100 meters of core were assayed. Highest gold values were trace. There does however seem to be a silver zoning.

From 124.18 to the end of the hole (145.38 m), a distance of 21.2 meters, silver values are with but two exceptions continuously present. They range from 1 to 15 grams and the average grade in the section is 3.05 grams over 21.2 m. This contrasts sharply with the rest of the hole where silver assays are only occasionally present and vary between 1 and 3 grams.

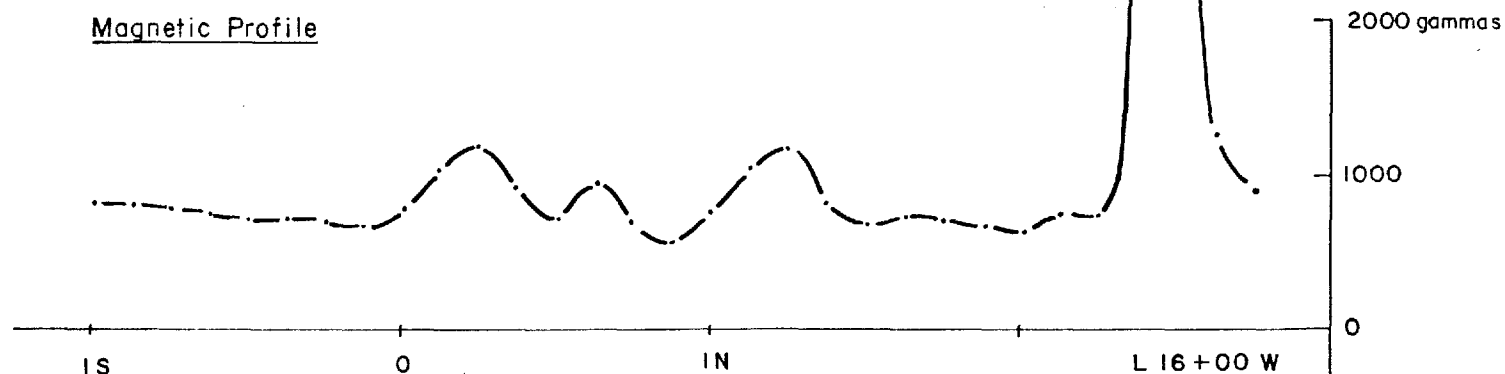
contd. ...

HLEM Profile (Max-Min)

Freq. 3555 Hz.
Coil Sepn. 200 meters



Magnetic Profile



grid S

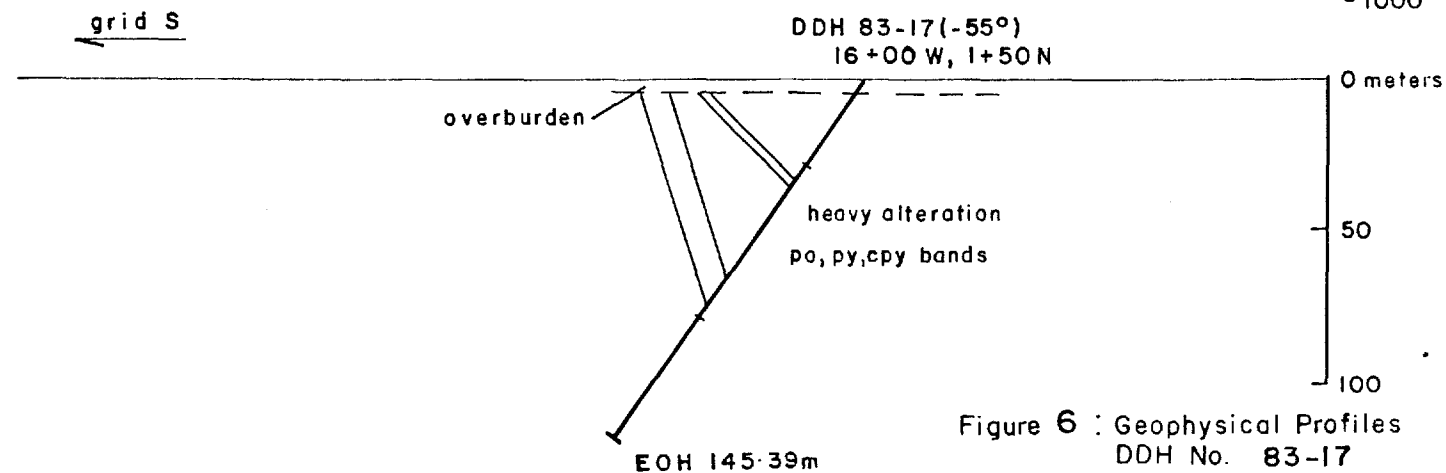


Figure 6 : Geophysical Profiles
DDH No. 83-17
Eastmain Project, Quebec
Horiz. Scale: 1:2500
Date : Oct. 1983

Hole 83-18 (Figure 7)

This hole was drilled to test the Julian Lake showing which is associated with a weak quadrature response. Geophysics indicated the anomaly to have a limited depth extent. This was confirmed by the drilling. The occurrence was not picked up by the drilling though the probably associated fault zone was. The horizontal projection of the hole extends 25 m beyond the surface exposure.

No significant values were present.

Hole 83-27 (Figure 8)

This hole was spotted to test conductor MM13. The electromagnetic response was due to pyrrhotite, pyrite stringers found between 57.0 and 67.36 meters. Approximately 20% sulphides were contained in this interval. The sulphides are hosted by a dacitic tuff.

Hole 83-27 is of particular economic significance as the conductive sulphides are enriched in gold and silver. A section from 61.02 m to 67.11 m (6.1 m core length) ran 1.26 grams gold and 24.85 grams silver. Widths, in this case, may be somewhat exaggerated as the rock units are at an acute angle of 35° to the grid lines in this particular area.

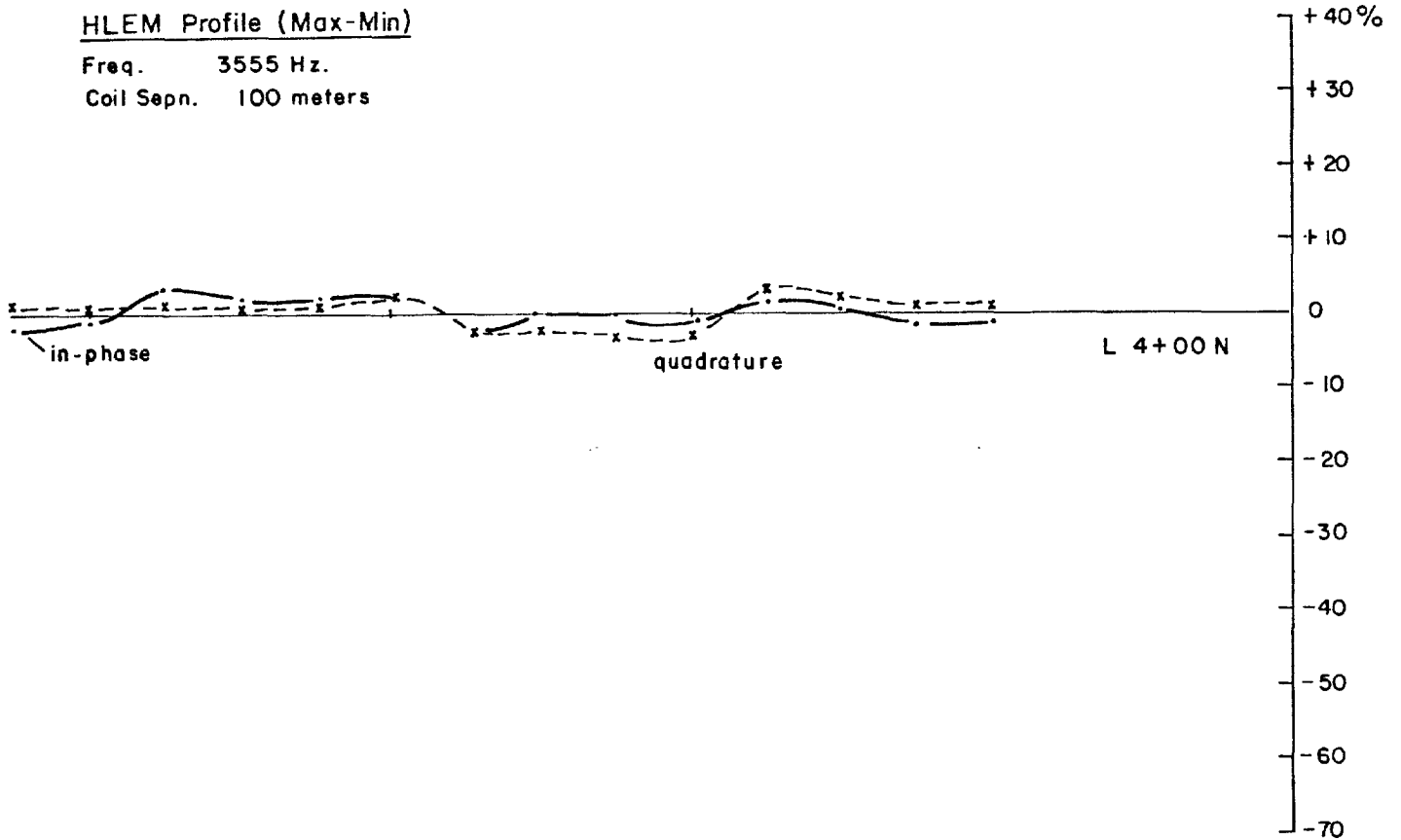
In essence hole 83-27 has indicated the presence of a weakly conductive, probably stratabound unit which is anomalously enriched in gold and silver.

contd. ...

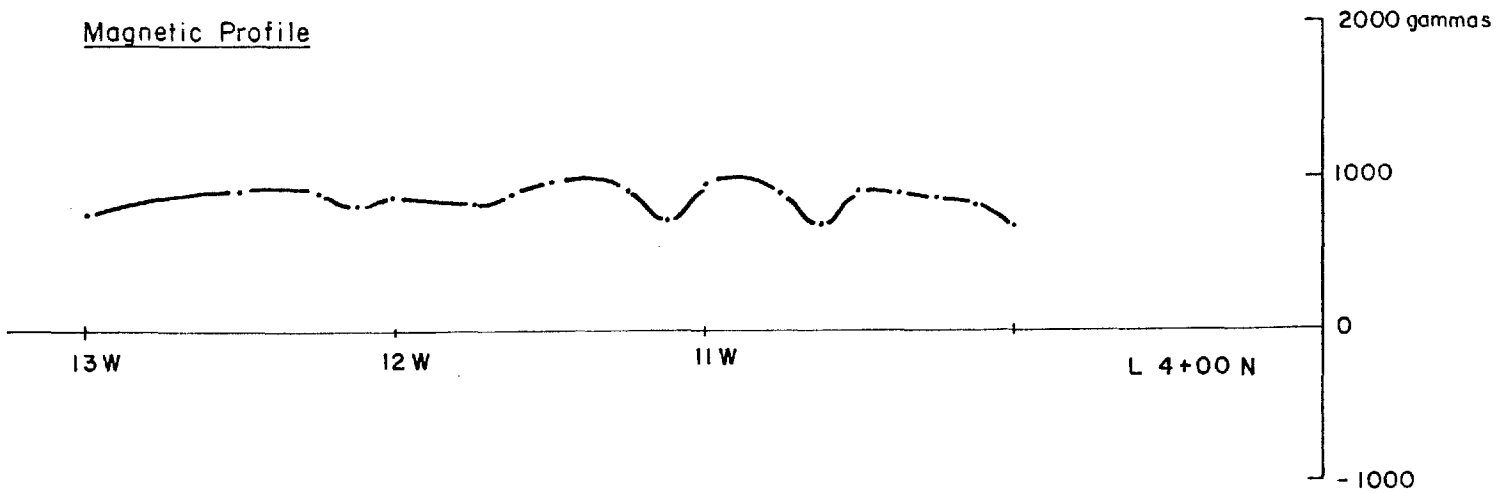
HLEM Profile (Max-Min)

Freq. 3555 Hz.

Coil Sepn. 100 meters



Magnetic Profile



← grid S

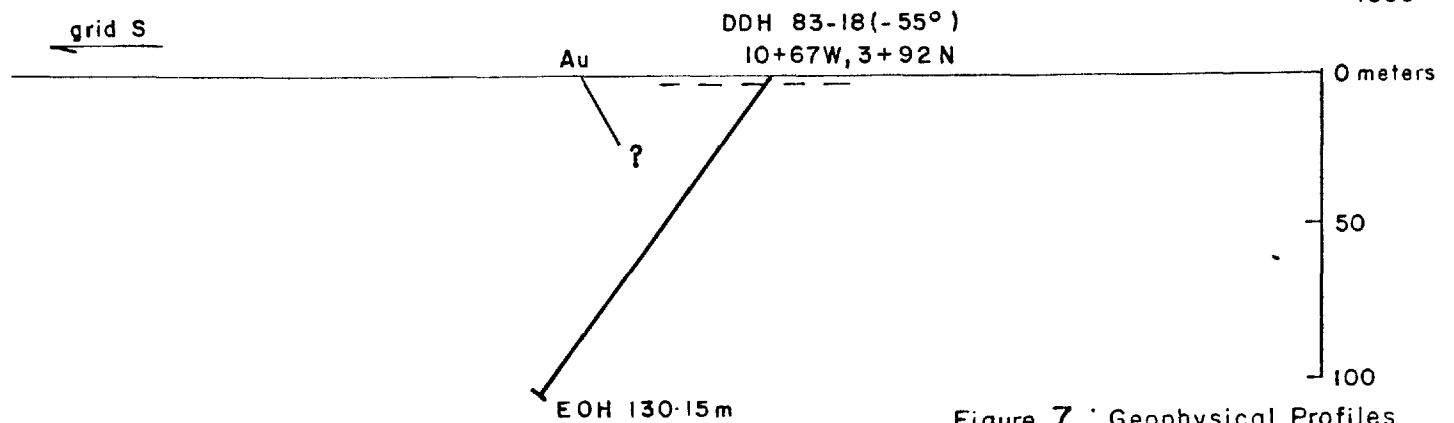
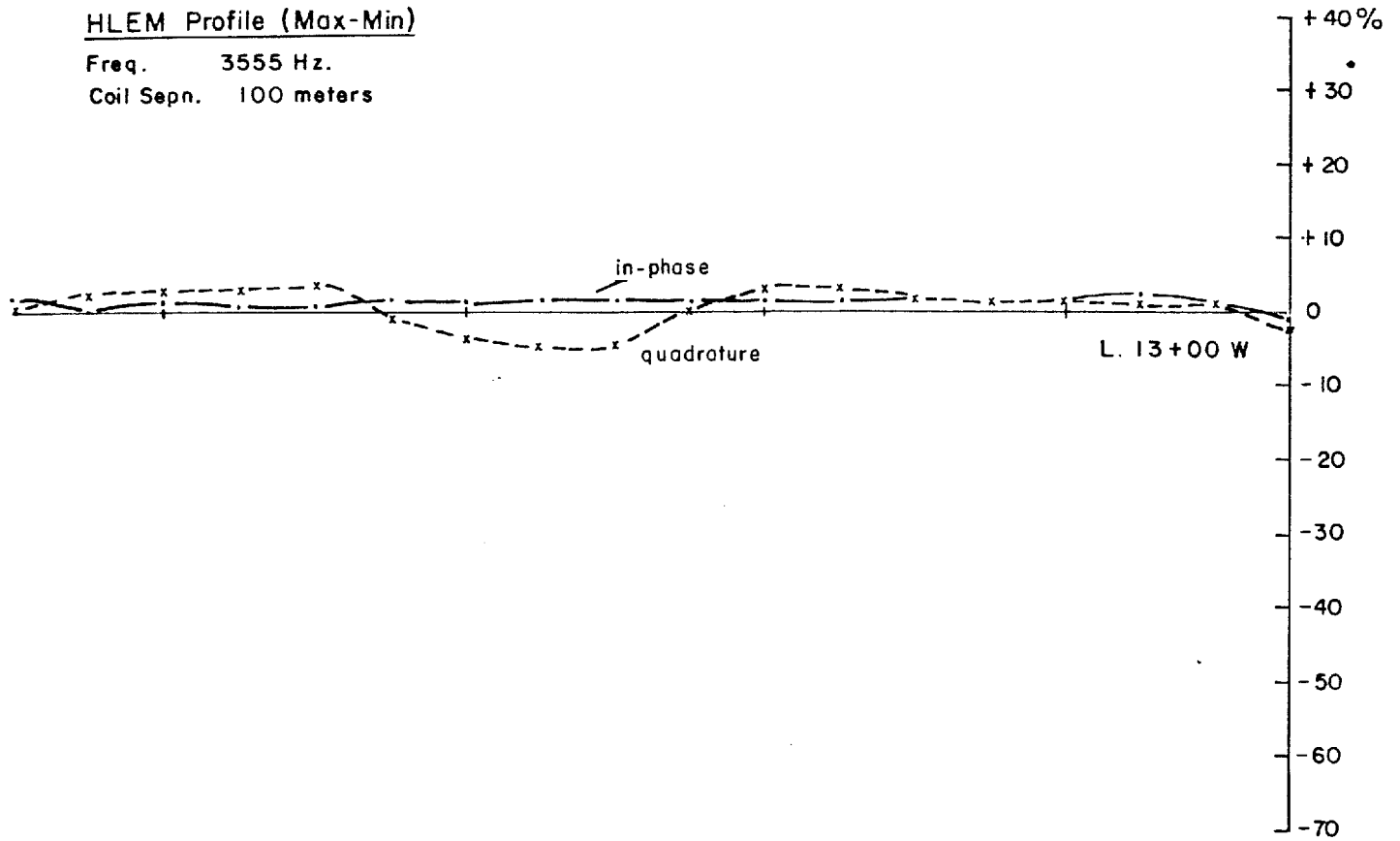


Figure 7 : Geophysical Profiles
DDH No. 83-18
Eastmain Project, Quebec
Horiz. Scale: 1:2500
Date : Oct. 1983

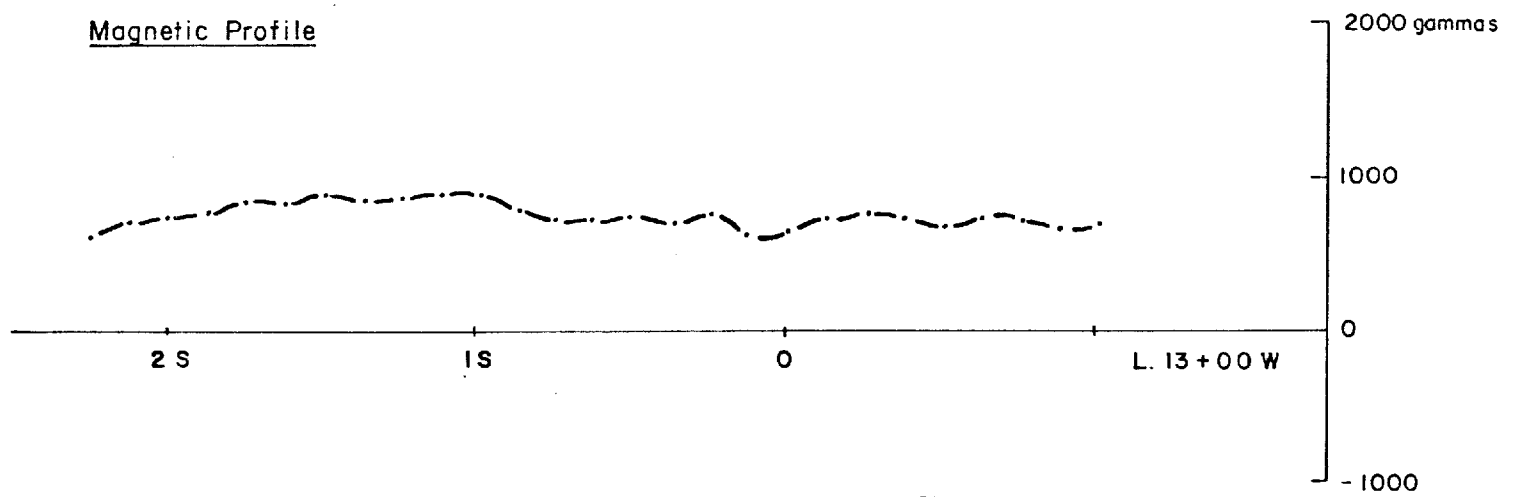
HLEM Profile (Max-Min)

Freq. 3555 Hz.

Coil Seprn. 100 meters



Magnetic Profile



← grid S

DDH 83-27 (-55°)
13+00W, 0+10S

overburden

20% sulphide(po) in
dacitic tuff

EOH 99.67m

0 meters
-50
-100

Figure 8 : Geophysical Profiles
DDH No. 83-27
Eastmain Project, Quebec
Horiz. Scale: 1:2500
Date : Oct. 1983

Hole 83-28 (Figure 9)

Geologically this hole seemed promising. A short strike length anomaly (MM11) had been identified within the favourable stratigraphic sequence. The conductor, a quadrature response with a weak in-phase component lay stratigraphically above the porphyritic basalt marker horizon.

The conductor consisted of a "meta chert" band containing 10% pyrrhotite, pyrite and chalcopyrite. Visually this material was similar to the auriferous meta chert bands within the A/B Zones. Assays, however, returned only trace gold and no silver values were present.

Hole 83-32 (Figure 10)

The purpose of this hole was to verify the Michel Lake surface gold occurrence, which is hosted by a granodiorite.

This hole cut 63.9 m of granodiorite from 21.4 m to 88.3 m. Visually the surface occurrence could not be identified. Twenty-three samples were taken within the granodiorite. No gold assays were obtained.

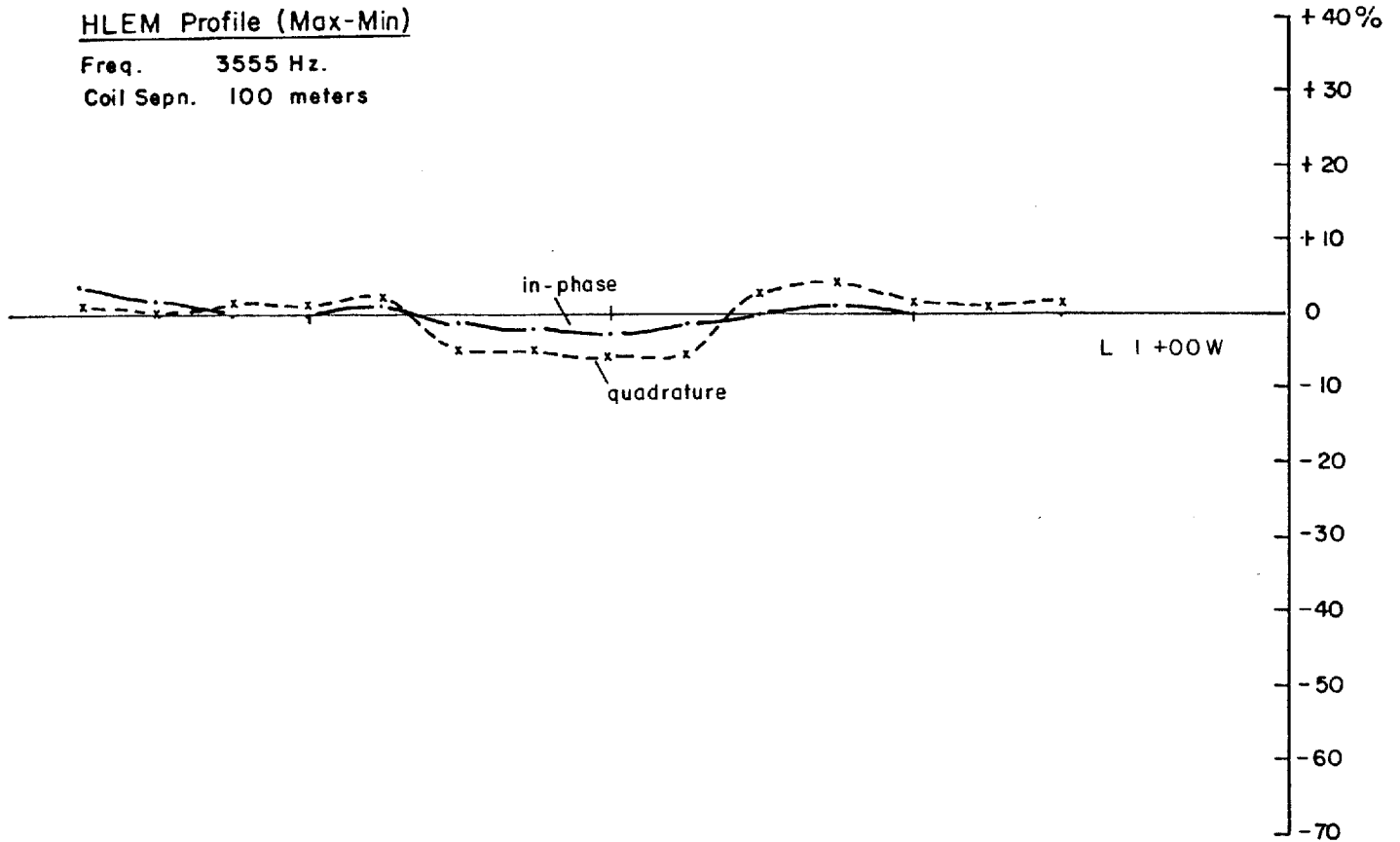
The hole, not having achieved its goal, was allowed to continue. From 85.3 m to the bottom of the hole (155.14 m) only volcanic rocks were present. They consisted of dacitic to rhyolitic flows and tuffs, and basalt flows. Disseminations and stringers of pyrrhotite, pyrite and chalcopyrite were present throughout. Sampling revealed three significant gold assays (Table VIII). This hole, coupled with the Michel Lake occurrence, is important as they show that gold in this area of the grid to be present in three distinct geological units. Hole 83-32 is the only hole within the F grid extensions to have encountered economic grades.

contd. ...

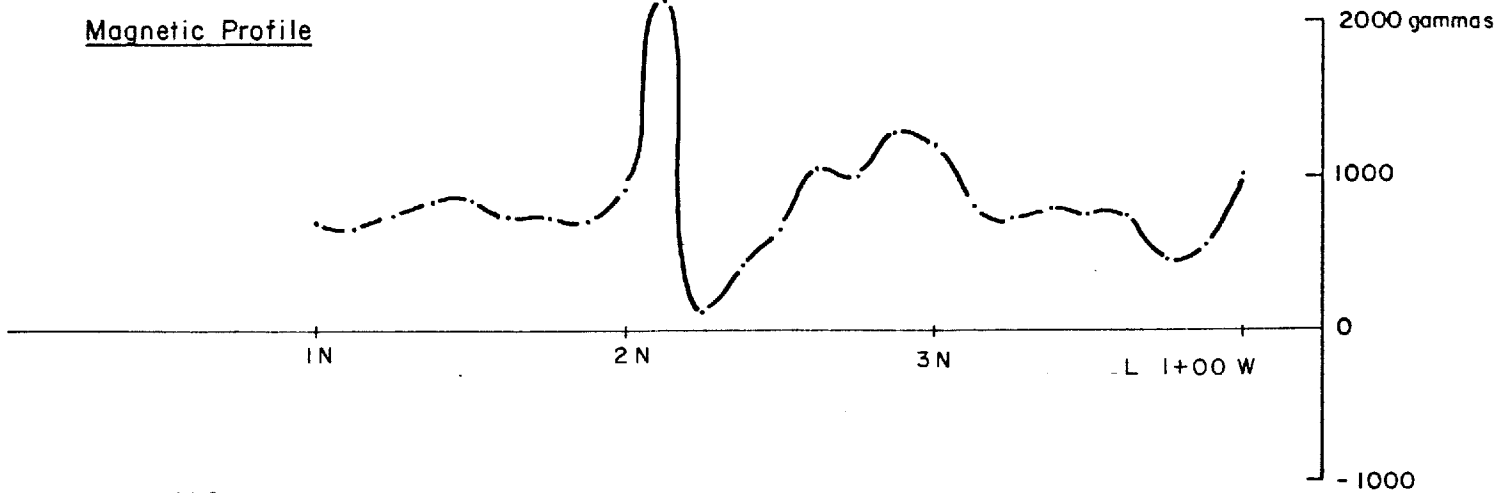
HLEM Profile (Max-Min)

Freq. 3555 Hz.

Coil Sepn. 100 meters



Magnetic Profile



← grid S

DDH 83-28 (-55°)
1+00W, 2+90N

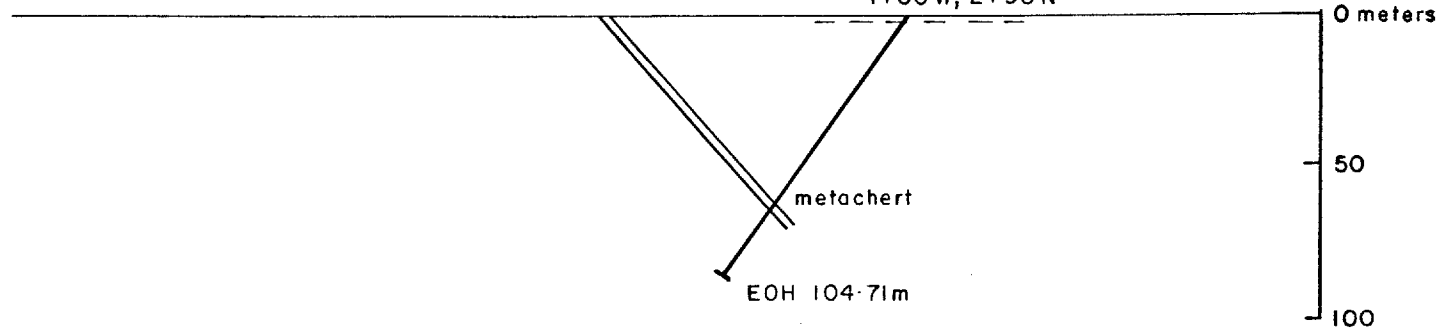
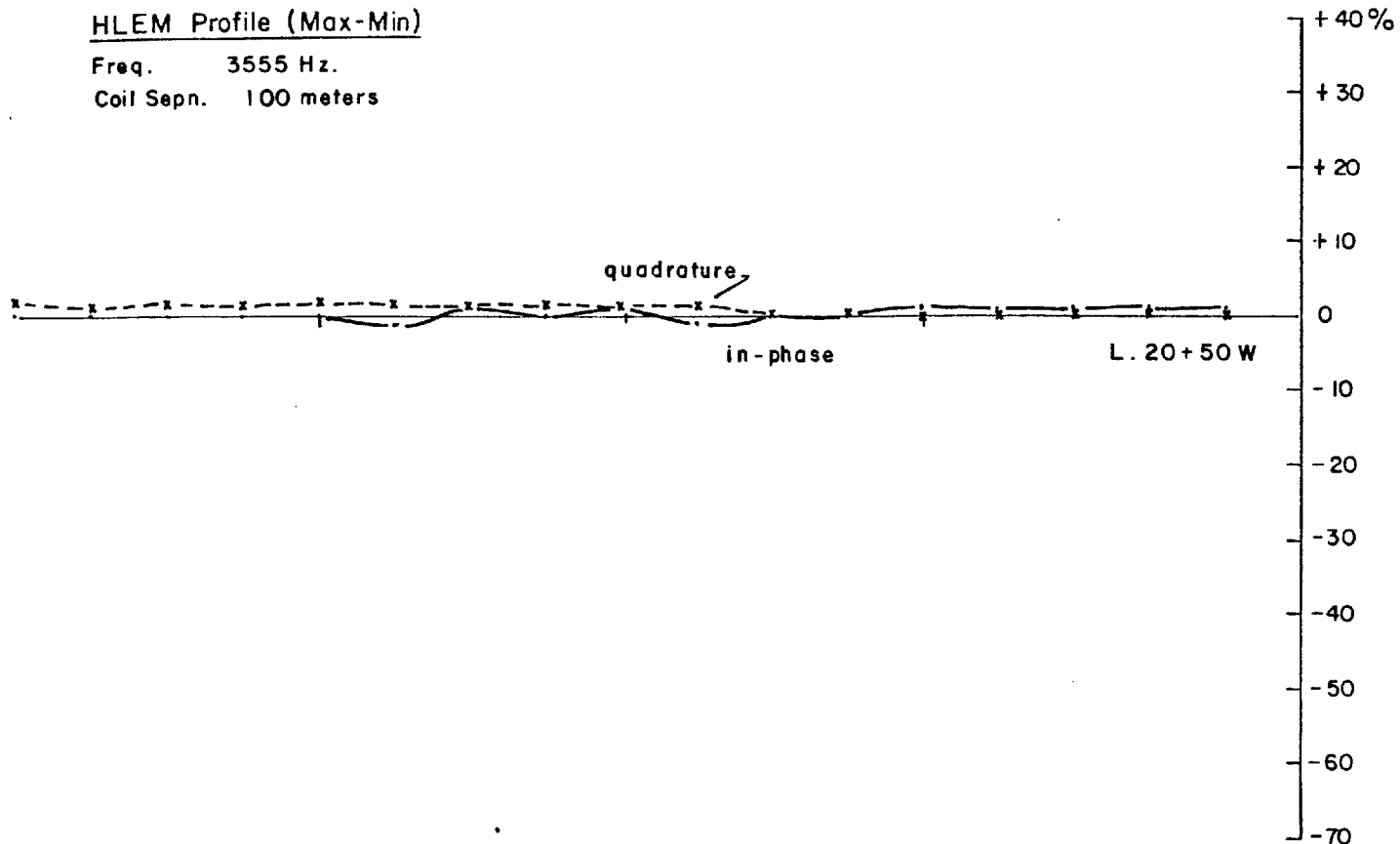


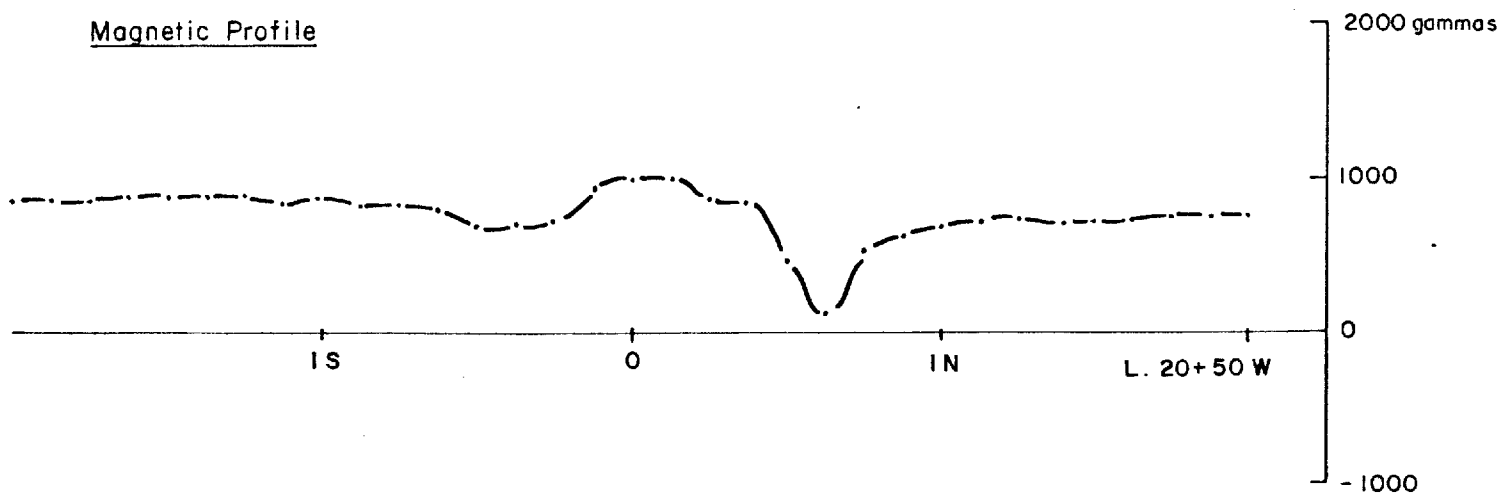
Figure 9 : Geophysical Profiles
DDH No. 83-28
Eastmain Project, Quebec
Horiz. Scale: 1:2500
Date : Oct. 1983

HLEM Profile (Max-Min)

Freq. 3555 Hz.
Coil Sepn. 100 meters



Magnetic Profile



grid S

DDH 83-32 (-55°)
20+50 W, 0+75 N

overburden

Au in silicified basalt

EOH 155-14m

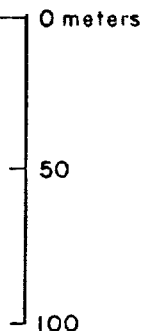


Figure 10: Geophysical Profiles
DDH No. 83-32
Eastmain Project, Quebec
Horiz. Scale: 1:2500
Date: Oct. 1983

T A B L E VIII

Significant Assays: Hole 83-32

From(m)	To(m)	Core Length	gt Au	gt Ag	Remarks
87.35	88.34	0.99	2.16	2.98	Hosted by rhyolite; disseminated pyrite, chalcopyrite.
122.32	123.08	0.76	3.22	1.10	As above.
133.92	134.72	0.80	11.79	1.13	Hosted by basalt; py-po stringers, minor cpy and sphalerite dissemination. Basalt is silicified

Hole 83-33 (Figure 11)

This hole lies on the north shore of Julian Lake. It was spotted to test VLF response V-30. Close to 70% of the hole was cored in rhyolite pyroclastics or flows. The remaining 30% consisted of basalts and dacites. 1 to 5% sulphides are finely disseminated throughout the hole. Up to 10% pyrrhotite is locally present.

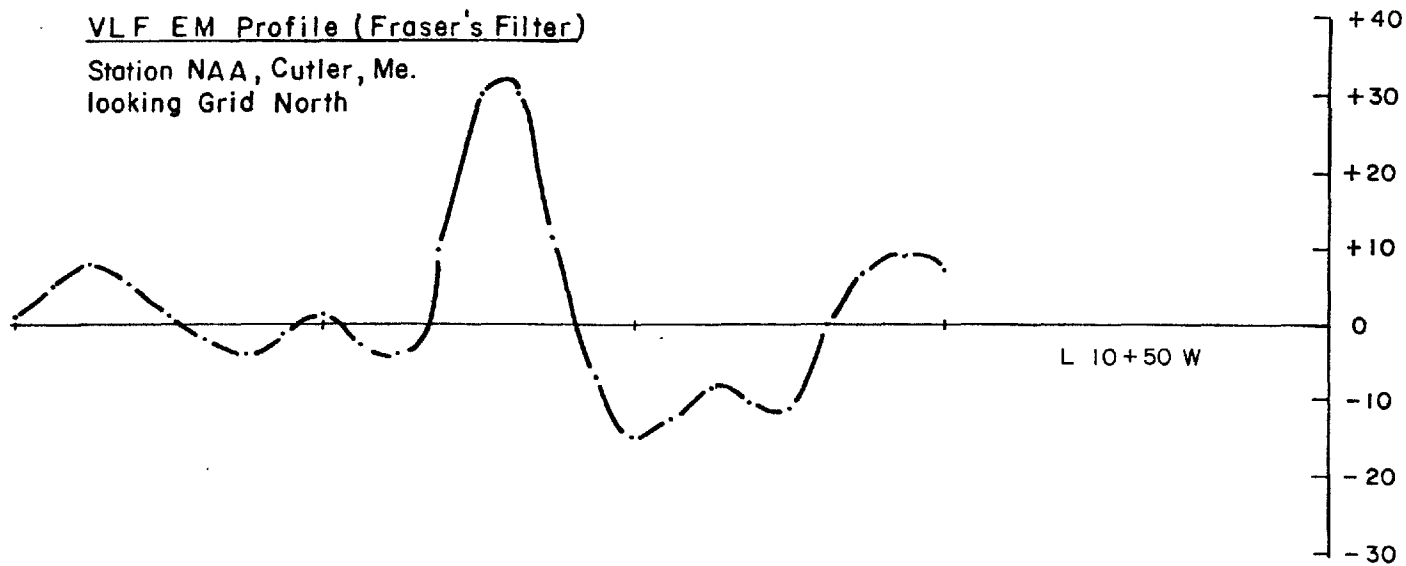
This hole is anomalously rich in silver. Two 7 meter thick intersections (34.57 to 41.57 and 66.69 to 73.61 m) returned 5.84 and 6.23 grams silver respectively. The second 7 meter section also assayed 1.15 grams gold. The first intersection is contained in rhyolite pyroclastics containing 1 to 3% disseminated pyrite, chalcopyrite, pyrrhotite and sphalerite. The second zone is hosted by a massive dacite with up to 10% pyrrhotite. A third intersection, 1 meter thick, of silicified basalt returned 1.71 grams of gold from 76.84 to 77.84 m.

Hole 83-34 (Figure 12)

This hole was drilled through the magnetic high outlining the main ultramafic body. VLF anomaly V.37 was the target. As expected massive to talcose pyroxenites were the dominant rock type within which there were several fault or shear zones. These probably

VLF EM Profile (Fraser's Filter)

Station NAA, Cutler, Me.
looking Grid North



Magnetic Profile

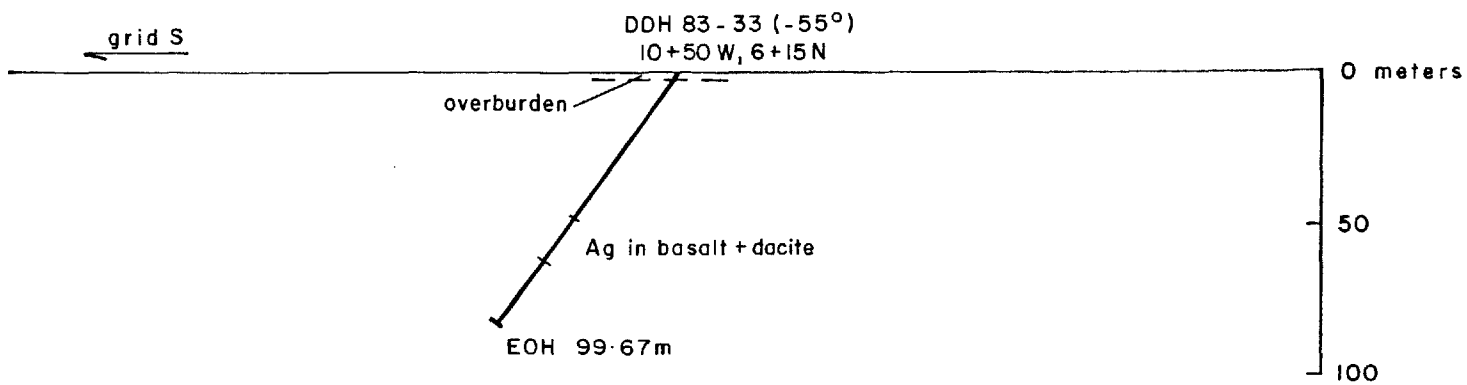
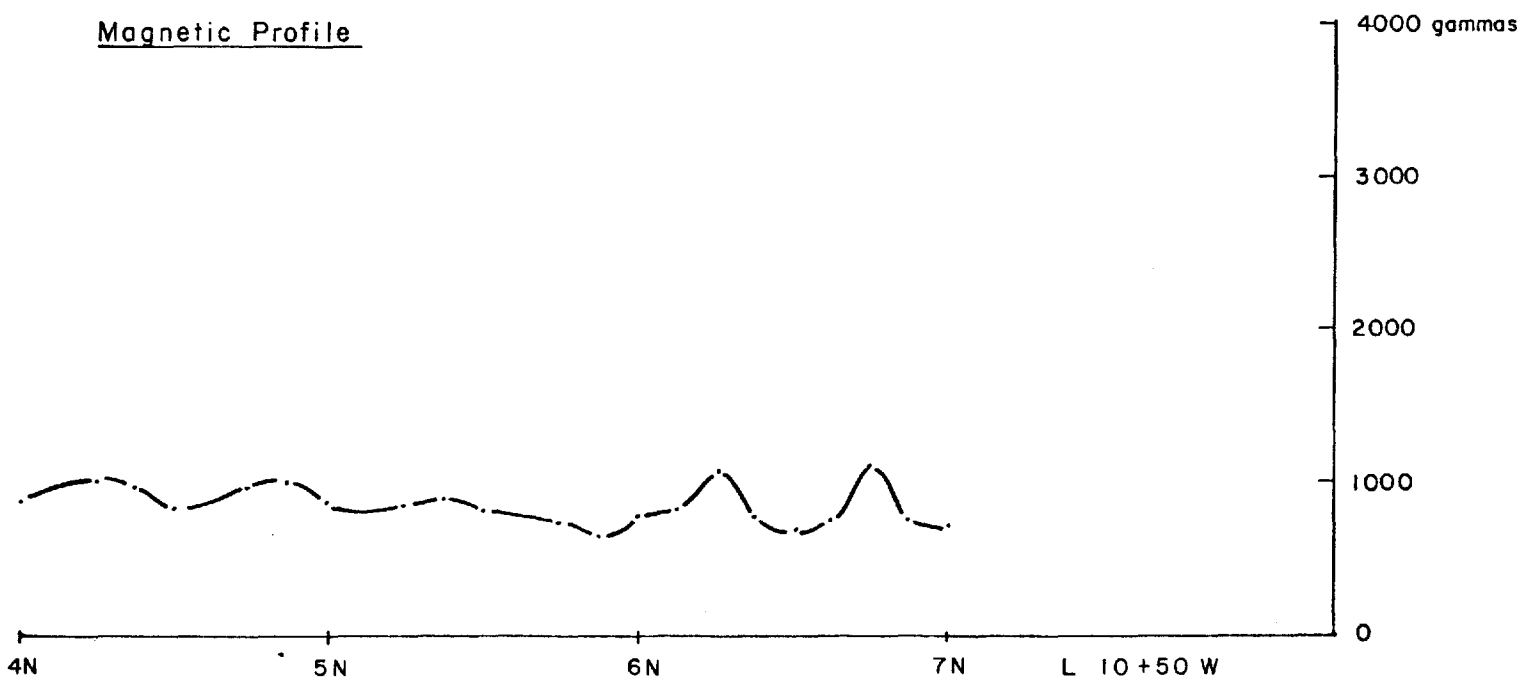
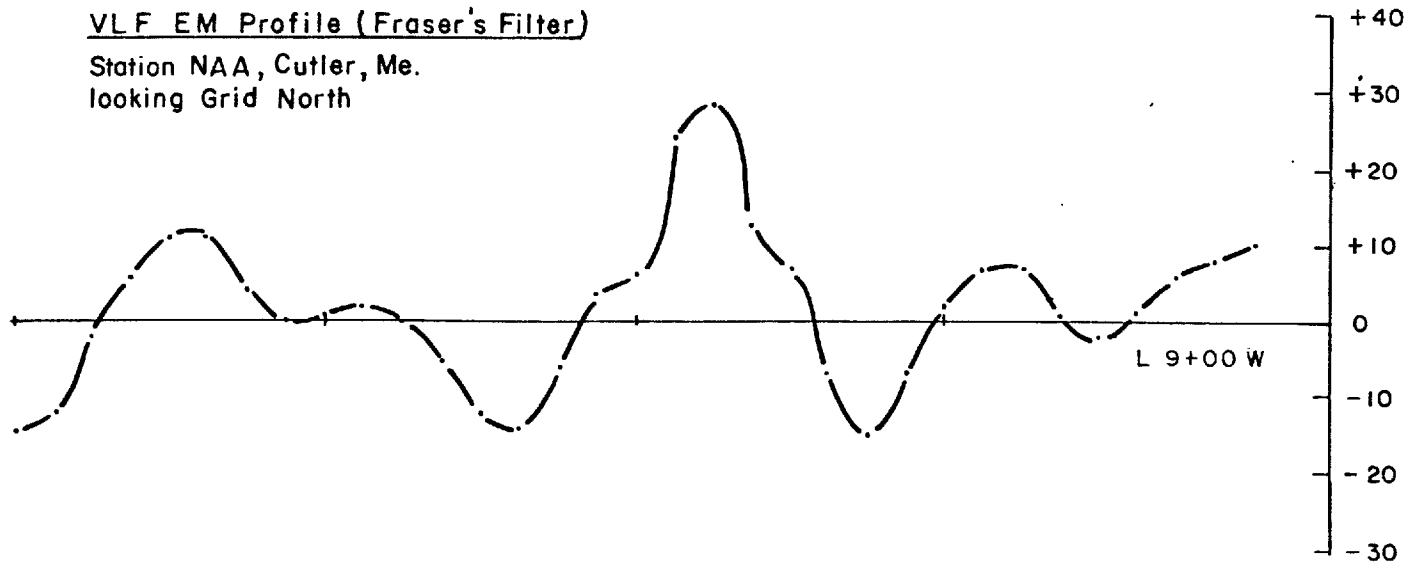


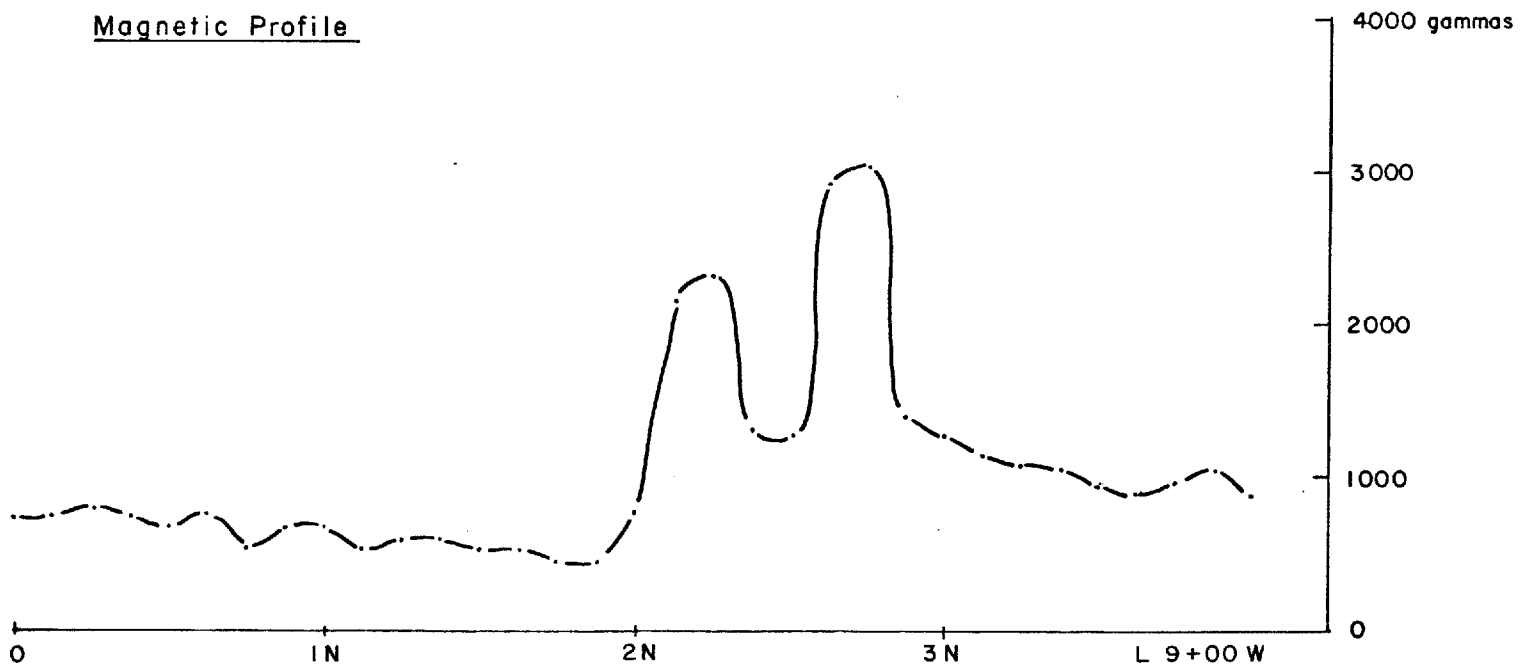
Figure II Geophysical Profiles
DDH No. 83-33
Eastmain Project, Quebec
Horiz. Scale : 1:2500
Date : Oct. 1983

VLF EM Profile (Fraser's Filter)

Station NAA, Cutler, Me.
looking Grid North



Magnetic Profile



← grid S

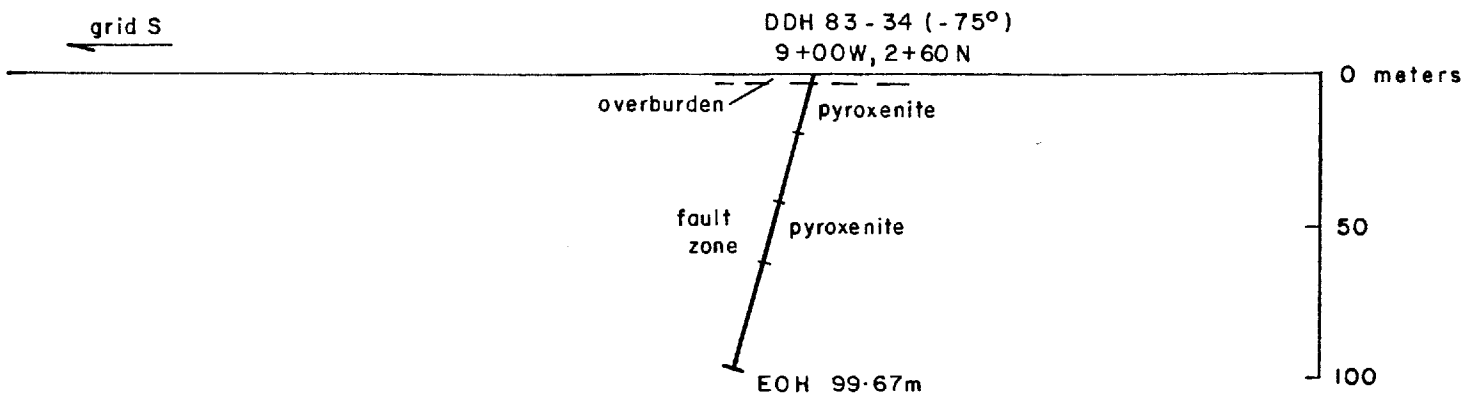


Figure 12 Geophysical Profiles
DDH No. 83-34
Eastmain Project, Quebec
Horiz. Scale : 1:2500
Date : Oct. 1983

account for the VLF response. No significant values were present.

Hole 83-35 (Figure 13)

Located along the southern edge of the main ultramafic body, this hole drill tested VLF anomaly V.33. Basalts and massive pyroxenites were the principal rock types logged. The source of the VLF anomaly is thought to be related to the topography as it occurs along the edge of a swamp. No significant values were encountered.

Hole 83-36 (Figure 14)

This hole was collared along the northern margin of the ultramafic body. VLF anomaly V.39 was found to be caused by three fault or shear zones within talcose pyroxenites and basalts. No significant values were encountered.

Hole 83-37 (Figure 15)

This was the most southerly of all the holes drilled on the F extension grid. VLF conductor V.41, lying within a topographic low, was drill tested. No conductor explanation is contained in the drill core. The only interesting aspect of the hole was a fuchsite(?) tourmaline band located at 85.16 meters down the hole. It is found within a thick rhyolite pyroclastic sequence extending beyond the hole.

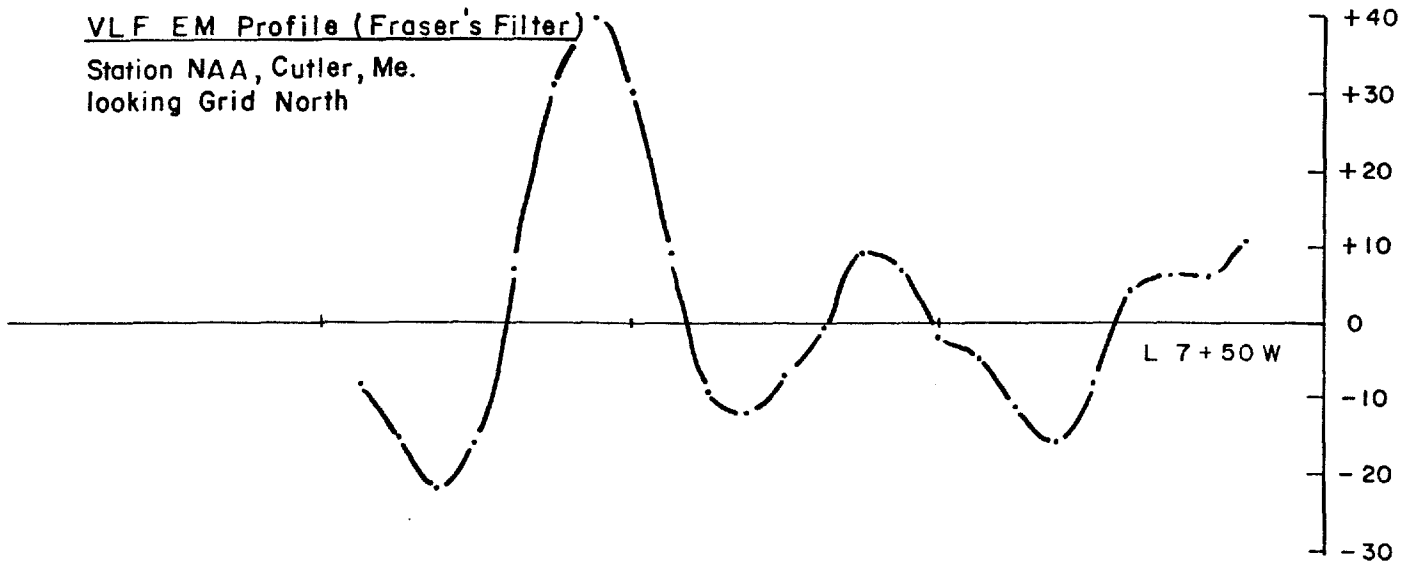
Hole 83-38 (Figure 16)

This hole is located between holes 83-17 and 83-32. VLF conductor V.34 which extends discontinuously through to hole 83-17 was drill tested. The VLF response is attributed to five pyrrhotite bands, 1 to 10 cm in width, found between 75.59 and 81.38 meters.

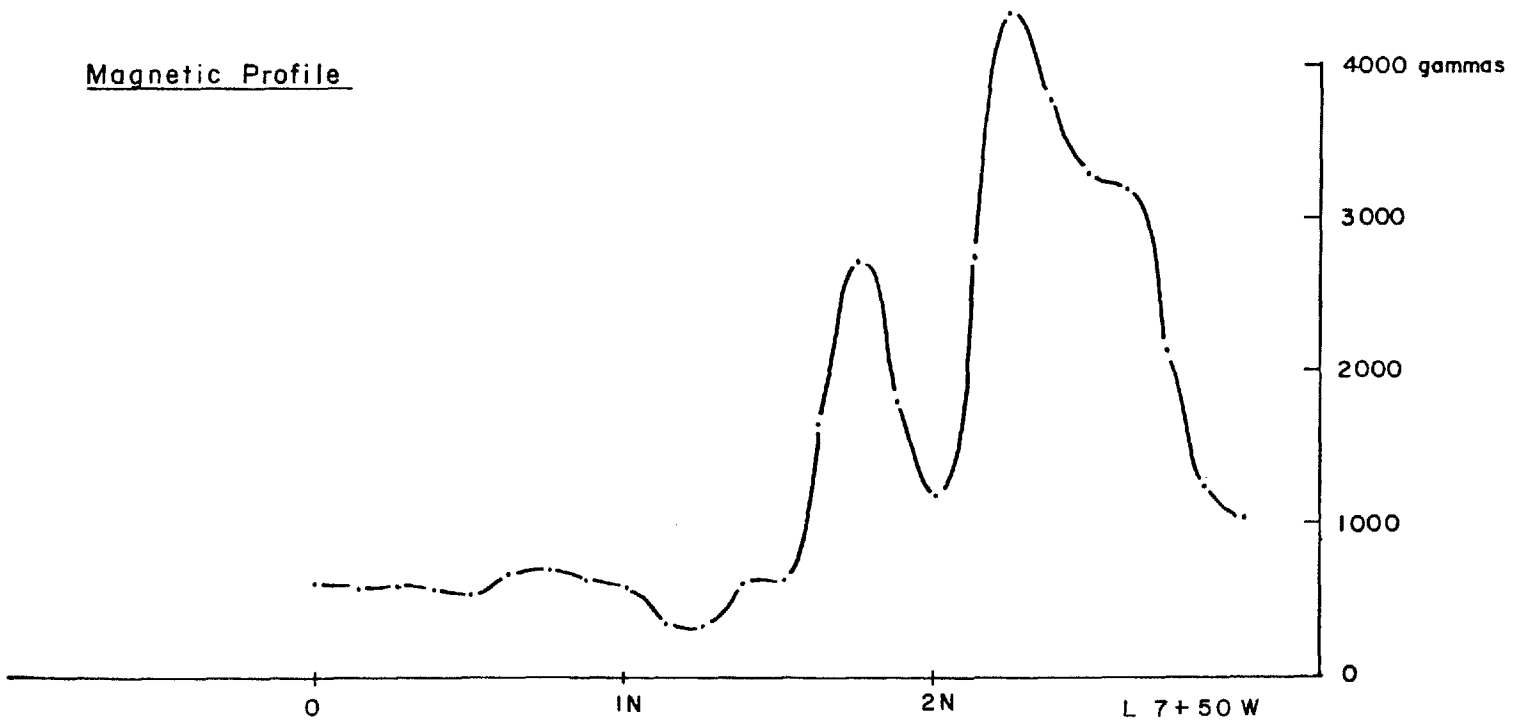
contd. ...

VLF EM Profile (Fraser's Filter)

Station NAA, Cutler, Me.
looking Grid North



Magnetic Profile



← grid S

DDH 83-35 (-55°)

7+50W, 1+40N

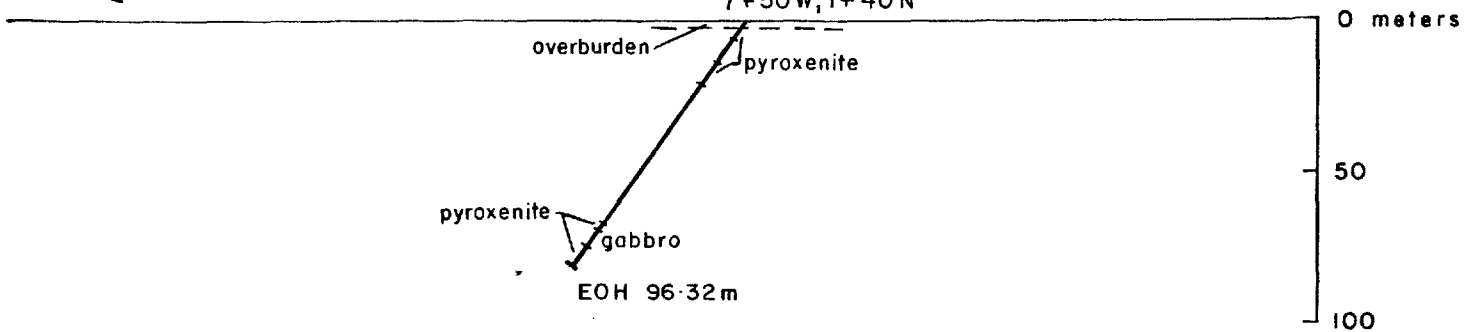
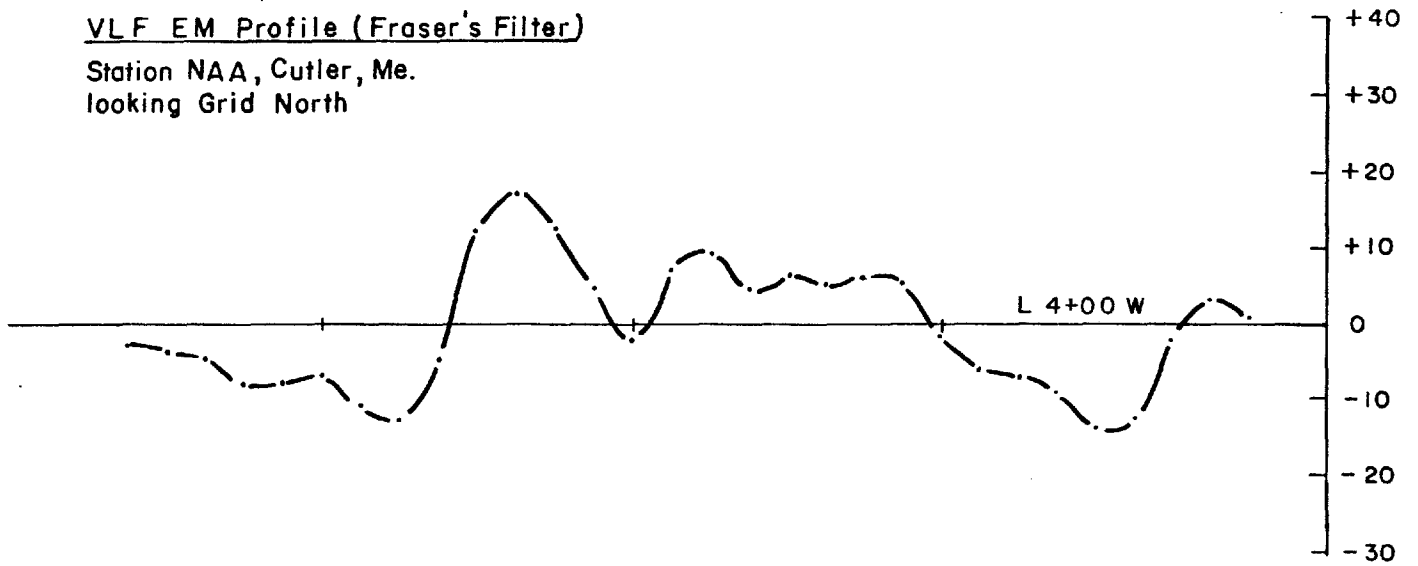


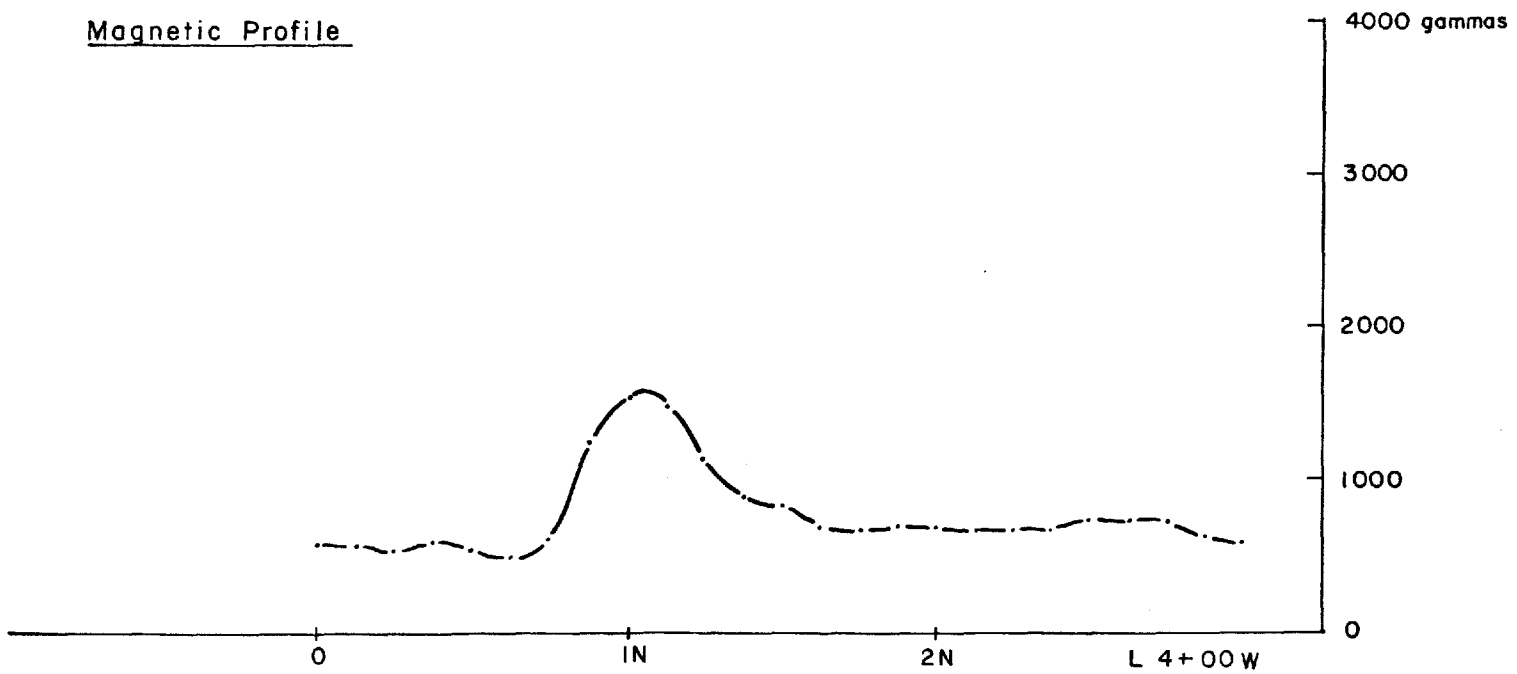
Figure 13 Geophysical Profiles
DDH No. 83-35
Eastmain Project, Quebec
Horiz. Scale : 1:2500
Date : Oct. 1983

VLF EM Profile (Fraser's Filter)

Station NAA, Cutler, Me.
looking Grid North



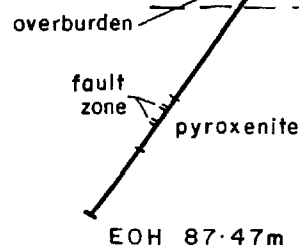
Magnetic Profile



← grid S

DDH 83-36 (-55°)

4+00 W, 1+60 N



0 meters

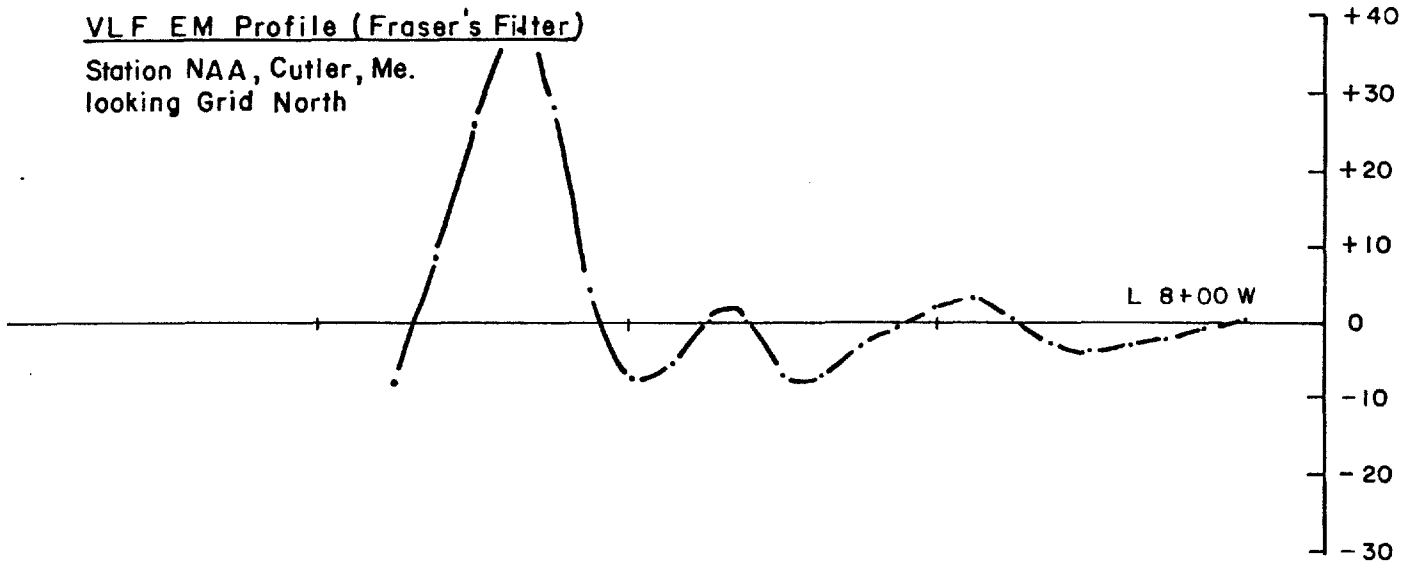
50

100

Figure 14 Geophysical Profiles
DDH No. 83-36
Eastmain Project, Quebec
Horiz. Scale : 1:2500
Date : Oct. 1983

VLF EM Profile (Fraser's Filter)

Station NAA, Cutler, Me.
looking Grid North



Magnetic Profile

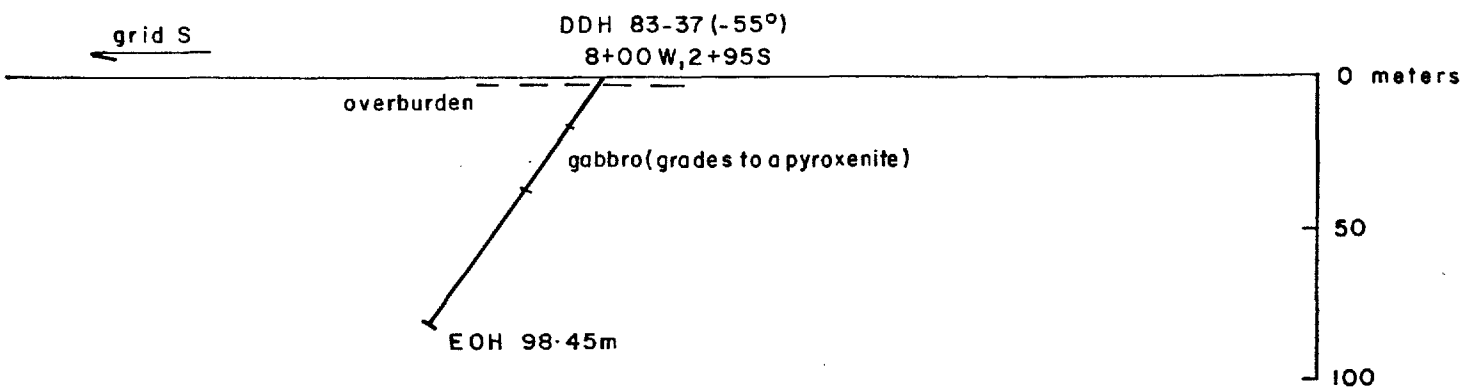
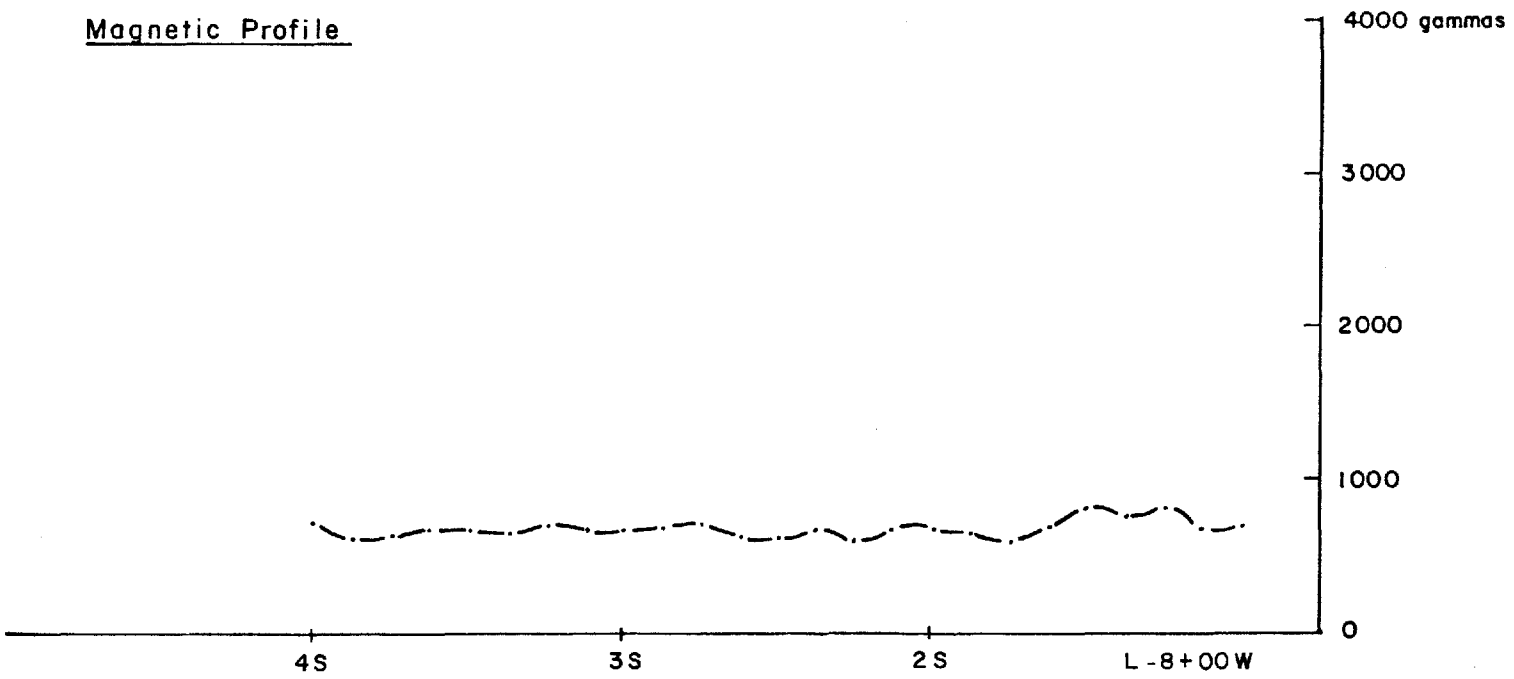
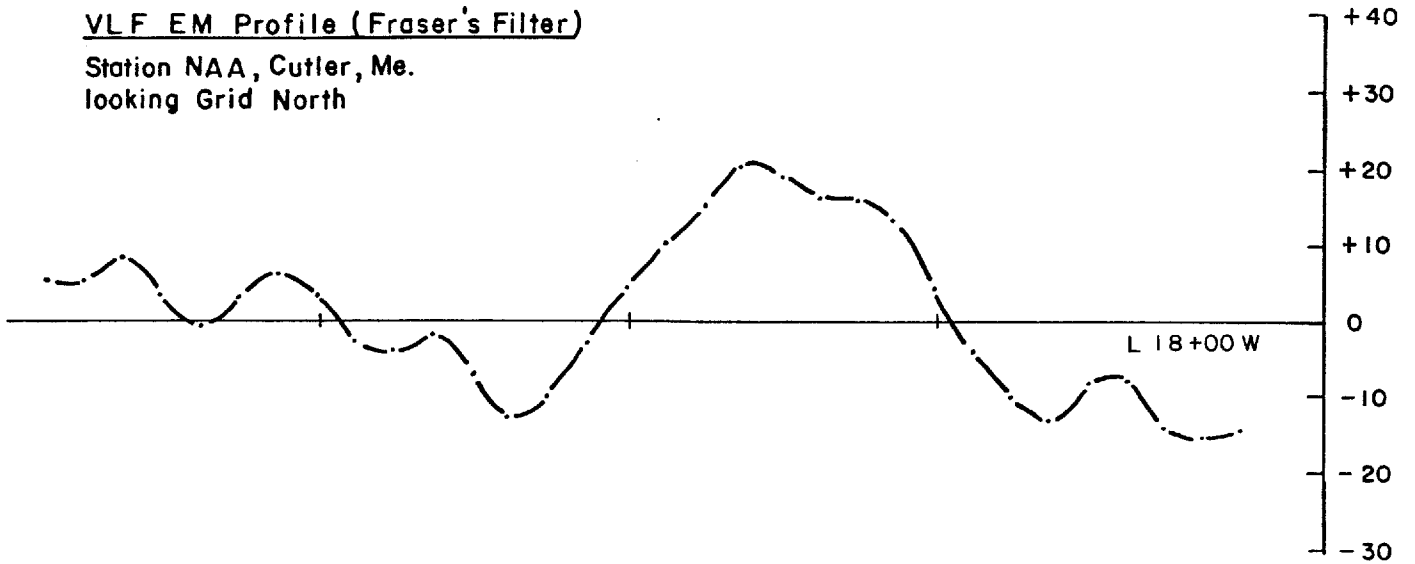


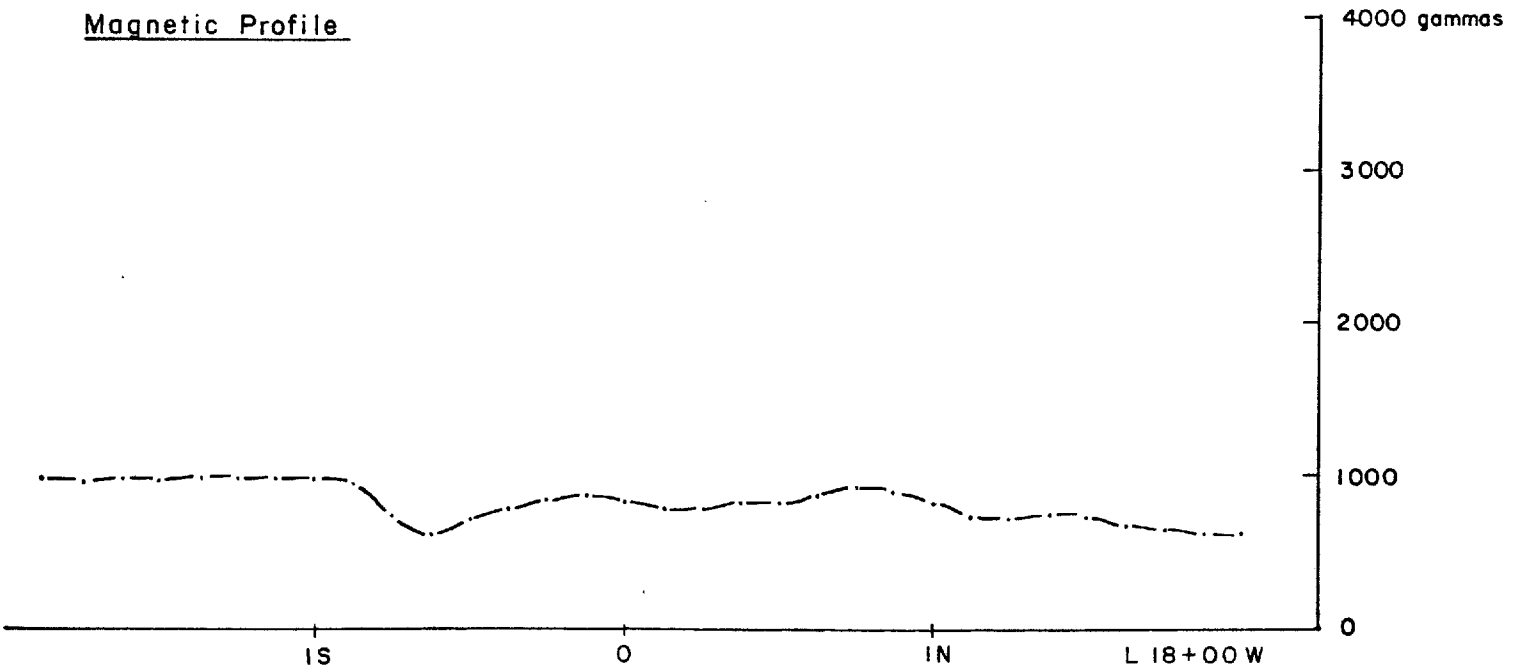
Figure 15 Geophysical Profiles
DDH No. 83-37
Eastmain Project, Quebec
Horiz. Scale : 1:2500
Date : Oct. 1983

VLF EM Profile (Fraser's Filter)

Station NAA, Cutler, Me.
looking Grid North



Magnetic Profile



← grid S

DDH 83-38 (-55°)
18+00W, 0+90N

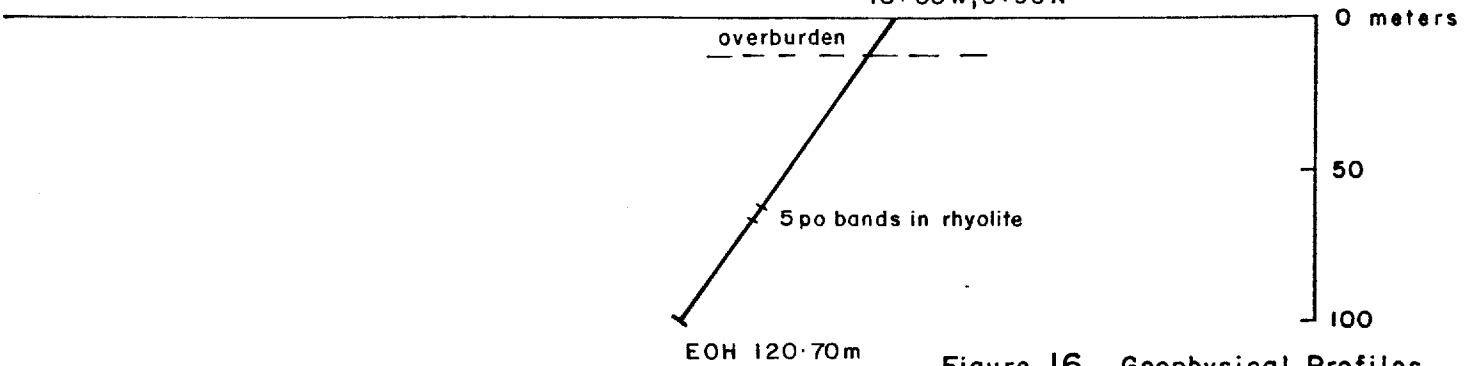


Figure 16

Geophysical Profiles
DDH No. 83-38
Eastmain Project, Quebec
Horiz. Scale : 1:2500
Date : Oct. 1983

Two variolitic basalt flows were intersected. The hole bottomed in a talcose pyroxenite. The heavy green carbonate alteration present in hole 83-17 was not present in this hole. The most significant assay is from a 1 meter section of variolitic basalt which ran 1.68 grams gold.

Drilling: F Grid (1982 Grid)

Summary

Two holes were drilled on the F grid during the summer program. Hole 83-29 was spotted on the basis of a weak PEM conductor lying 125 m below surface and some 350 meters northwest of the A Zone. The hole intersected 1.52 meters assaying 19.23 grams gold at a vertical depth of 240 meters. The gold occurs within a sparsely mineralized "dacite". The hole also contains the highest silver assay on the F grid or its extensions. A one meter section, 3.6 meters above the gold intersection, contained 112 grams silver.

Hole 83-30 was drilled on the 1982 C Zone. The drilling of this hole resulted in the discovery of two new gold bearing meta chert bands lying structurally above the previous C Zone intersections.

F Grid

Hole 83-29

This hole was spotted on the basis of the 1983 winter PEM survey results. A possible conductor had been interpreted to occur 125 m below surface. An 80° hole was thus spotted, however at the 125 m level there was no evidence of a conductor. The hole was allowed to continue its course and to eventually reach the probable tuff package which was found to be non-mineralized and only 9 meters thick. This represents at least a 50% decrease in thickness when compared to the A/B Zones.

contd. ...

The tuff package is overlain by a massive to foliated basalt which at the bottom of the hole locally grades into a "dacite" containing sphalerite stringers. One of these "dacitic" sections returned a 1.52m thick section assaying 19.23 grams gold and 7.85 grams silver. The vertical depth of the intersection is 240 meters.

This hole also contains the highest silver values found on the F grid or its extensions. A one meter thick sample contained 112.1 grams silver from 237.8 to 238.8 meters. The host rock was again the same basalt hosting the above gold values.

Hole 83-30 (Figure 17)

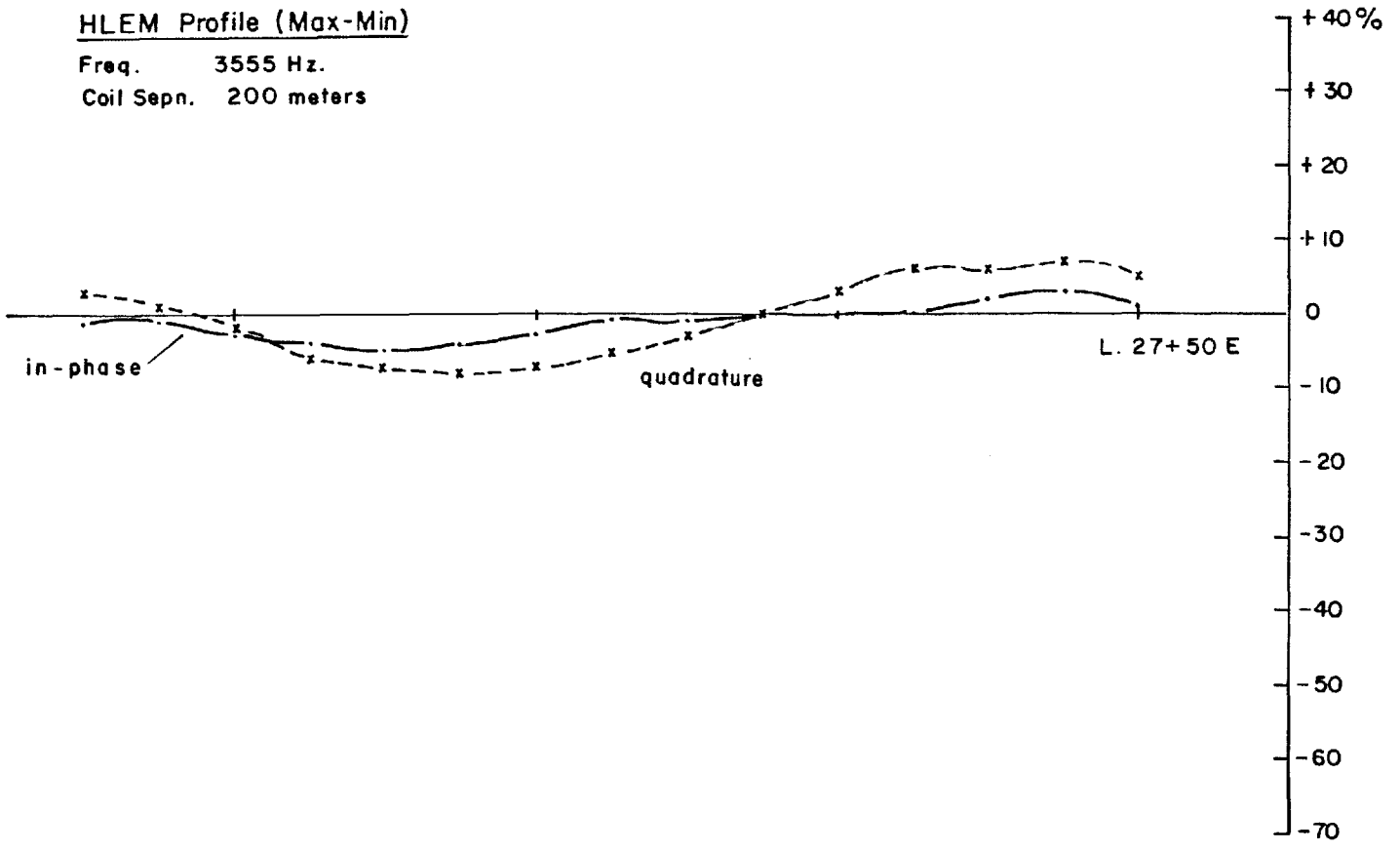
Economically this is possibly the most significant hole drilled during the summer program. Hole 83-30 was drilled to test for a possible westerly plunge of the C Zone drilled in 1982. The drilling of this hole resulted in the discovery of two new auriferous "meta chert" bands lying structurally above (stratigraphically below) the previous C Zone intersections.

The two new meta chert bands are associated with intense biotitization which extends at least 50 meters to the east. The mafic tuff band close to the collar of hole 82-5 is heavily biotitic and is garnetiferous. The unit is most probably not a tuff but an extension of the 83-30 alteration. It is interesting to note that garnets occur structurally above the first chert band which contains 6.11 grams Au over 1.53 meters. The second chert band contains fuchsite and grades only 1.85 grams gold over 1.43 meters. From our experience with the A/B Zones we know that fuchsite is immediately peripheral to an ore lense. Since 82-5, which is to

contd. ...

HLEM Profile (Max-Min)

Freq. 3555 Hz.
Coil Sepn. 200 meters



Magnetic Profile

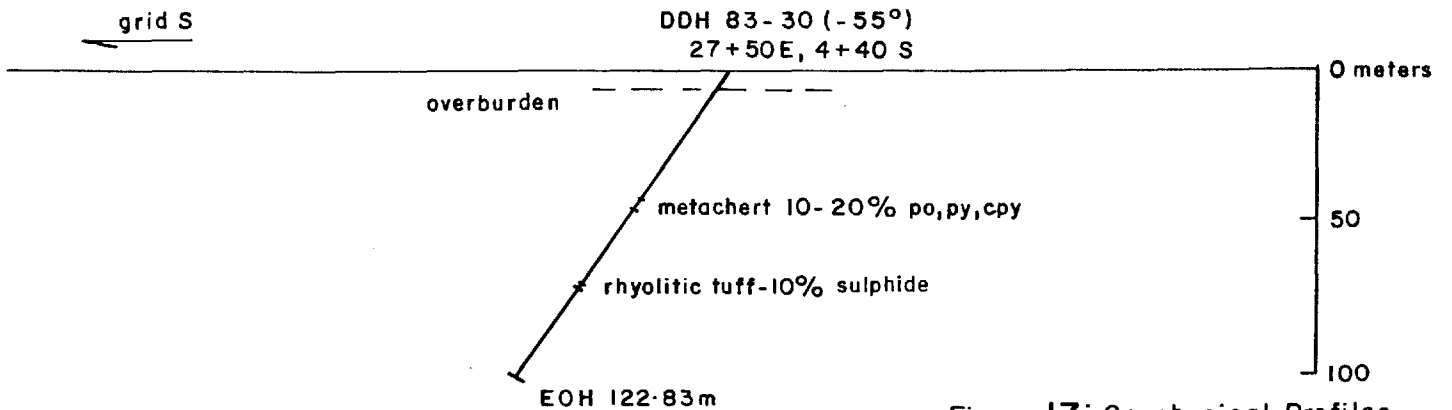
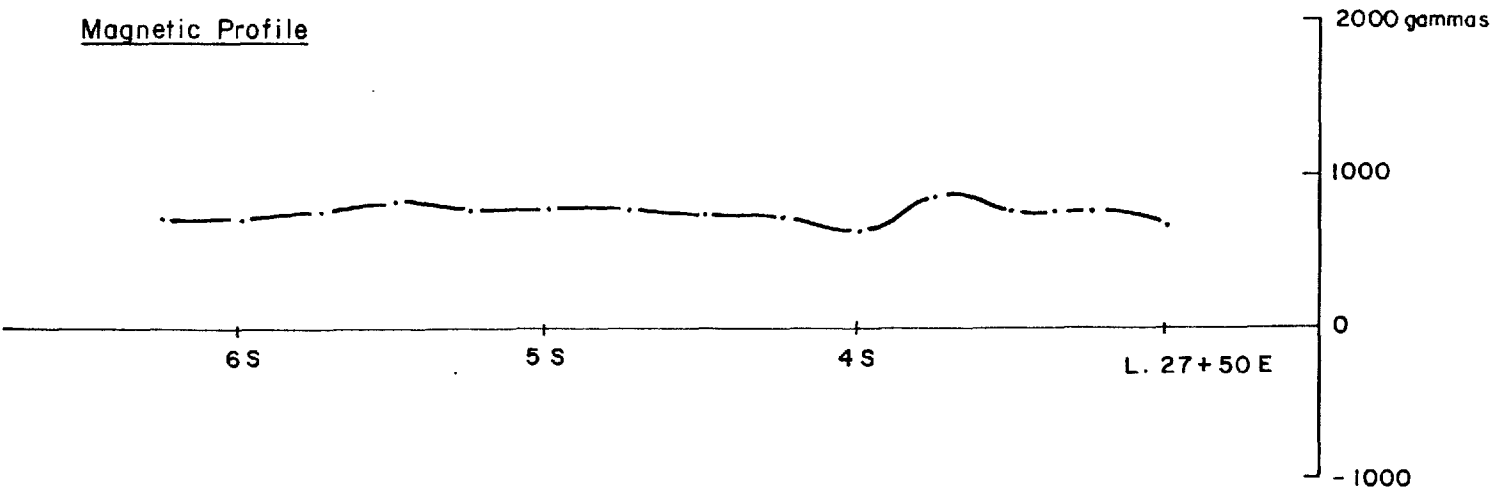


Figure 17: Geophysical Profiles
DDH No. 83-30
Eastmain Project, Quebec
Horiz. Scale: 1:2500
Date: Oct. 1983

the east, contained no meta chert bands it is anticipated that additional mineralization will occur towards the west.

The third meta chert band correlates with the previous 1982 C Zone intersections which are believed to be stratigraphically equivalent to the A/B Zone.

CONCLUSIONS

F Grid: SE Extension (Sheet 1)

The 1981 airborne Rexhem conductor between the B and C Zones remains unfound. This same conductor was detailed by Aerodat in 1974. Geologically, no outcrops are to be found on the extension. The lack of results thus preclude further exploration activities for the time being on this extension.

F Grid: NW Extension (Sheets 4 & 5)

Geological mapping and diamond drilling show this extension area to be underlain by granitic rocks which are traversed by major, weakly conductive, faults. Gold values were 5 ppb or less except for one exception. A surface sample contained 290 ppb Au. The significance of such an assay is difficult to establish. Some sort of regional geochemical (Au) granite sampling program is needed. This exercise is at present considered more of an academic interest than of practical use.

F Grid Extension (Sheets 2 & 3)

All drill holes which encountered significant gold and silver values lie to the west of line 10W. Particularly significant are holes 83-32, 83-27, 83-17 and 83-33. All surface samples, with but one exception, returning gold values are also found west of the same line. This section of the grid merits a close perusal.

contd....

Hole 83-32 is the only hole to have encountered economic (0.8 m x 11.79 grams Au) gold values on the F grid extensions. The intersection is at a vertical depth of 100 m and is hosted by a basalt. Two other minor intersections were present in rhyolites structurally above. In the vicinity of hole 83-32 gold has now been identified in three different lithologies. Hence a geologically more complex target remains to be identified and followed up. This will initially require further drilling to assess whether a target does indeed exist.

Hole 83-27 intercepted low gold values (1.26 grams) and relatively high silver values (24.85 grams) over a core length of 6.1 meters. The thickness of the intersection is most probably exaggerated as the units in this particular locality are at an acute angle of 35° to the grid lines. The intersection is contained within conductive sulphides and is most probably stratabound in nature. Unfortunately the conductor has but a 100 meter strike length. Follow-up of this target will necessitate a few stratigraphic holes. The stratigraphic sequence hosting hole 83-27 has an above background magnetic signature and is readily traceable over a distance of 600 m.

Hole 83-17 is unique as it is the only hole on the F grid or its extensions to have encountered major alteration. A 60 meter thick zone with heavy green mica was present in the hole. Supposing the alteration occurs within the stratigraphic footwall then one would look towards the top of the sequence for any possible ore lenses. In the case of the F grid or F extension grid stratigraphic tops are always towards the bottom of the hole. This brings us to

contd. ...

the second feature of interest, namely, there is a build-up of silver values towards the bottom of the hole. Even though no gold values above trace are present within the hole the above possibly suggests that gold values may be found just beyond the bottom of the hole.

Hole 83-33 cut two 7 meter intersections grading 5.84 and 6.23 grams silver respectively. The second intersection also assayed 1.15 grams gold. The hole drill tested a VLF conductor running through the middle of Julian Lake. It is difficult to assess the importance of these intersections as they occur well below in the overall stratigraphy. Additional exploratory holes are necessary to further evaluate this area.

F Grid (1982 Grid)

Hole 83-29 intersected economical gold grades some 20 meters structurally below the probable tuff package. These results may be better understood if we consider a similar analogy. Hole 82-16 cut a 0.5 meter thick section of silicified basalt grading 61.47 grams Au, Hole 82-16 is within the A Zone but it occurs between two ore lenses and the ore grade material was not contained within the traditional meta chert band. This is perhaps the case of hole 83-29. Additional drilling and bore hole pulse e.m. surveying is necessary.

Hole 83-30 resulted in the discovery of two new, non-conductive, auriferous chert bands lying structurally above the C Zone intersections. Follow-up of these chert bands will require additional stratigraphic drilling filling the gap between the B and C Zones.

contd. ...

RECOMMENDATIONSF Grid: SE Extension

The negative results thus far obtained exclude further recommendations.

F Grid: NW Extension

The conductors have been explained by conductive fault gouge material. The grids are underlain by granitic rocks. At present no further targets on the grid justify further work.

F Grid Extension

It is recommended that exploration be concentrated on that portion of the grid west of line 10W. Results from holes 83-32, 83-27, 83-17 and 83-33 warrant additional follow-up. Specific recommendations resulting from each of the above mentioned holes are grouped according to the hole number.

Hole 83-32: Recommended Follow-up

- 1) It is recommended to deepen hole 83-16 by approximately 60 m. This should provide a second intercept, on the same section, some 35 meters vertically below the ore grade intersection present in 83-32.
- 2) For exploration purposes it is proposed to deepen hole 83-32 by a further 60 meters.
- 3) It is recommended that a second attempt be made to check the Michel Lake showing. A hole, 150 meters in length, spotted on line 21+00W at 75N is proposed. A possible westerly extension of the gold zone in 83-32 will at the same time be verified.
- 4) A second hole collared at 75N on line 2000W is proposed. The hole to be 150 m in length will test for an easterly extension of the 83-32 gold zone.

contd. ...

Hole 83-17: Recommended Follow-up

Due to the increasing silver values at the bottom of the hole and the heavy alteration prior (structurally above) it is proposed to deepen this hole by 60 meters.

Hole 83-27: Recommended Follow-up

The auriferous sulphides intersected in this hole were conductive. It is therefore proposed to drill the westerly extension of this same conductor (MM13). A 125 meter long hole on line 1350W at approximately 100S is recommended.

It is also proposed to trace by drilling this favourable stratigraphic horizon which is well outlined by the ground magnetic survey. Two 125 meter long holes are suggested. The first should be spotted on line 1000W at 0+10S. A second hole is proposed on line 800W @ 0+50S. Should there be encouragement the twin magnetic highs on line 5+00W should also be drill tested.

Hole 83-33: Recommended Follow-up

The gold-silver values intersected in hole 83-33 are related to a VLF response. One additional hole is therefore proposed on this same response. The hole, 125 meters in length, should be spotted on line 1300W on the north shore of Julian Lake.

The implementation of the above recommendations would necessitate a minimum of 980 meters of diamond drilling. A reserve meterage of 450 meters is suggested.

contd. ...

F Grid (1982 Grid)Hole 83-29: Recommended Follow-up

It is proposed to deepen hole 83-29 by a further 60 meters or until the variolitic marker horizon has been completely traversed. This hole should be geophysically probed and any off-hole response should be drilled. Therefore at least one 250 meter reserve hole should be budgeted.

A step-out hole, 150 meters to the west, to be spotted on line 950E is also proposed. Drill hole spacing is based on the premise that the bore hole system can "see" conductive material within a 75 meter radius. 250 meters of drilling should be allotted to this hole.

83-30: Recommended Follow-up

Four holes are immediately proposed. These holes will serve to determine the strike and depth extent as well as the probable plunge. 625 meters of drilling are required. The recommended collar locations are:

- | | | | |
|----|------------|-------|--------------|
| 1) | 2750E/385S | -85°, | 175 m length |
| 2) | 2700E/365S | -55°, | 150 m " |
| 3) | 2650E/440S | -55°, | 125 m " |
| 4) | 2650E/385S | -85°, | 175 m " |

All holes are to be drilled grid south.

contd. ...

A stratigraphic drilling program to investigate the area between the B and C Zones is proposed. These holes would cut the tuff package at an approximate vertical depth of 100 meters. Two holes, 175 meters in length, at 150 meter intervals on lines 2400E and 2250E are recommended. 350 meters of drilling are involved.

The above recommendations require a minimum of 975 meters of drilling. Provisions for an additional 325 meters should be made.

Respectfully Submitted,

MD/of



Michel Drouin, Project Geologist

A P P E N D I X I

Eastmain Diamond Drilling Data, 1970,
1981, 1982 & 1983. Diamond Drill Logs,
Grid F & Extension 1983 (and log for
DDH 82-04).

V-116 EASTMAIN DIAMOND DRILLING --- YEARS 1970,1981,1982,1983 ----

‡ HOLE ‡	NORTHING ‡	EASTING ‡	ELEVAT. ‡	TOTAL ‡	DATE ‡	AZIMUTH ‡	DIP ‡
‡ NAME ‡	‡	‡	‡	‡ DEPTH ‡	LOGGED ‡	(DEG) ‡	(DEG) ‡
82CH001	-325.00	1800.00	491.00	158.50	820600	180.00	-60.00
82CH 02	-418.00	1850.00	495.00	96.62	820700	180.00	-50.00
82CH 03	-505.00	2850.00	.00	105.52	820600	180.00	-50.00
82CH 04	-390.00	1900.00	490.00	131.36	820600	180.00	-50.00
82CH 05	-440.00	2800.00	.00	123.75	820600	180.00	-60.00
82CH 06	-490.00	1950.00	492.00	127.71	820600	180.00	-50.00
82CH 07	-400.00	3050.00	.00	138.99	820600	180.00	-50.00
82CH008	-415.00	2000.00	491.00	139.30	820600	180.00	-60.00
82CH 09	-320.00	1700.00	484.00	142.18	820600	180.00	-60.00
82CH10	-420.00	2050.00	490.00	151.49	820700	180.00	-50.00
82CH11	-410.00	1750.00	488.00	123.44	820700	180.00	-50.00
82CH12	-225.00	1850.00	489.00	221.60	820700	180.00	-60.00
82CH13	-225.00	1750.00	484.00	221.28	820700	180.00	-60.00
82CH 14	-163.00	1550.00	488.00	205.74	820700	180.00	-60.00
82CH15	-195.00	1650.00	484.00	215.50	820700	180.00	-60.00
82CH16	-230.00	1250.00	488.00	224.30	820700	180.00	-60.00
82CH17	-196.00	1200.00	487.00	226.16	820700	180.00	-60.00
82CH 18	-150.00	1300.00	486.00	260.90	820700	180.00	-65.00

‡ HOLE ‡	NORTHING ‡	EASTING ‡	ELEVAT. ‡	TOTAL ‡	DATE ‡	AZIMUTH ‡	DIP ‡
‡ NAME ‡	‡	‡	‡	‡ DEPTH ‡	LOGGED ‡	(DEG) ‡	(DEG) ‡
82CH19	-210.00	1600.00	486.00	199.90	820700	180.00	-55.00
82CH20	-175.00	1400.00	487.00	318.80	820700	180.00	-85.00
82CH21	-75.00	1500.00	488.00	281.63	820700	180.00	-65.00
82CH 22	-60.00	1600.00	486.00	268.83	820700	180.00	-65.00
82CH23	-175.00	1400.00	487.00	257.86	820800	180.00	-62.00
82CH24	-115.00	450.00	494.00	87.48	820800	180.00	-55.00
82CH25	-428.00	200.00	497.00	99.67	820800	180.00	-55.00
82CH26	-760.00	1250.00	497.00	99.06	820800	180.00	-55.00
82CH27	-100.00	1320.00	485.00	303.58	820800	180.00	-70.00
83CH001	-150.00	1200.00	486.20	300.85	830200	180.00	-85.00
83CH002	-95.00	1250.00	485.30	327.96	830200	180.00	-85.00
83CH003	-178.00	1150.00	488.00	262.74	830200	180.00	-85.00
83CH004	-100.00	1350.00	485.90	315.77	830200	180.00	-85.00
83CH005	-95.00	1450.00	486.50	303.89	830200	180.00	-85.00
83CH006	-300.00	1325.00	497.30	205.13	830200	180.00	-80.00
83CH007	-330.00	1950.00	488.20	188.06	830200	180.00	-85.00
83CH008	-20.00	1400.00	486.10	364.85	830200	180.00	-85.00
83CH010	-875.00	-5650.00	.00	105.46	830600	180.00	-55.00

‡ HOLE ‡	NORTHING ‡	EASTING ‡	ELEVAT. ‡	TOTAL ‡	DATE ‡	AZIMUTH ‡	DIP ‡
‡ NAME ‡	‡	‡	‡	‡ DEPTH ‡	LOGGED ‡	(DEG) ‡	(DEG) ‡
B3CH016	200.00	-2050.00	495.50	165.81	830700	180.00	-45.00
B3CH017	150.00	-1600.00	496.40	145.39	830700	180.00	-55.00
B3CH018	392.00	-1067.00	501.80	130.15	830700	270.00	-55.00
B3CH027	-10.00	-1300.00	498.70	99.67	830700	180.00	-55.00
B3CH28	290.00	-100.00	551.70	104.70	830700	180.00	-55.00
B3CH029	-70.00	800.00	486.70	249.02	830700	180.00	-80.00
B3CH030	-440.00	2750.00	494.50	122.83	830700	180.00	-55.00
B3CH032	75.00	-2050.00	490.00	155.14	830700	180.00	-55.00
B3CH033	615.00	-1050.00	489.70	99.67	830700	180.00	-55.00
B3CH034	260.00	-900.00	503.50	99.67	830700	180.00	-75.00
B3CH035	140.00	-750.00	503.30	96.32	830700	180.00	-55.00
B3CH036	160.00	-400.00	510.50	87.47	830700	180.00	-55.00
B3CH037	-295.00	-800.00	501.70	98.45	830700	180.00	-55.00
B3CH038	90.00	-1800.00	492.60	120.70	830700	180.00	-55.00
B3CH09A	1180.00	-5150.00	.00	40.23	830600	180.00	-55.00
B3CH09B	1180.00	-5150.00	.00	41.45	830600	180.00	-75.00
A83CH011	435.00	600.00	.00	81.07	830600	180.00	-55.00
A83CH012	410.00	1900.00	.00	96.31	830700	180.00	-55.00

‡ HOLE ‡	NORTHING ‡	EASTING ‡	ELEVAT. ‡	TOTAL ‡	DATE ‡	AZIMUTH ‡	DIP ‡
‡ NAME ‡	‡	‡	‡	‡ DEPTH ‡	LOGGED ‡	(DEG) ‡	(DEG) ‡
A9CH001	-460.00	1187.00	493.00	35.00	700803	190.00	-45.00
A9CH001A	-475.00	1183.00	493.00	74.00	700927	190.00	-45.00
A9CH002	-428.00	1130.00	492.00	83.06	810814	190.00	-50.00
A9CH003	-432.00	1187.00	493.00	76.35	810817	195.00	-50.00
A9CH004	-432.00	1248.00	494.00	79.86	810819	194.00	-50.00
A9CH005	-362.00	1260.00	494.00	127.71	810823	190.00	-60.00
A9CH006	-364.00	1198.00	492.00	122.07	810827	190.00	-60.00
A9CH007	-327.00	1140.00	493.00	123.29	810831	190.00	-65.00
A9CH008	-343.00	1064.00	492.00	103.78	810903	190.00	-70.00
B83CH013	-1190.00	4500.00	.00	84.12	830700	180.00	-55.00
B83CH014	-1075.00	4700.00	.00	81.07	830700	180.00	-55.00
B83CH015	35.00	4700.00	.00	81.38	830700	180.00	-55.00
C83CH024	-385.00	6600.00	.00	86.86	830700	180.00	-55.00
E83CH023	.00	9400.00	.00	111.86	830700	180.00	-55.00
G83CH025	-650.00	-90.00	.00	93.57	830700	270.00	-55.00
G83CH026	-275.00	-115.00	.00	105.76	830700	270.00	-55.00
I83CH022	305.00	300.00	.00	108.81	830600	180.00	-55.00
I83CH031	305.00	400.00	.00	102.72	830700	180.00	-80.00

‡ HOLE ‡	NORTHING ‡	EASTING ‡	ELEVAT. ‡	TOTAL ‡	DATE ‡	AZIMUTH ‡	DIP ‡
‡ NAME ‡	‡	‡	‡	‡ DEPTH ‡	LOGGED ‡	(DEG) ‡	(DEG) ‡
J83CH020	-375.00	-150.00	.00	93.57	830600	180.00	-55.00
K83CH019	305.00	200.00	.00	133.19	830600	180.00	-55.00
K83CH021	340.00	300.00	.00	108.20	830600	180.00	-50.00

HOLE 83CH001 BR GRID NORTH -150.00 GRID EAST 1200.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -85.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 303.85mt.

Logged by: H Thibotot on (day/mo/yr)... FEB83

Drilled by: Bradley Bros. FEB83

FROM 0.00MT. TO 6.10MT.
OVERBURDEN

FROM 6.10MT. TO 6.62MT.
medium grey ACID DYKE
Structures noted: CONTACT dip 00,
5Z BIOTITE as disseminations and scattered crystals

FROM 6.62MT. TO 13.73MT.
dark green BASALT
Textures noted: MASSIVE , PILLOWED
1Z CARBONATE as microveins
2.5Z EPIDOTE as microveins
915 960 MEGA-AMYGDULES

FROM 13.73MT. TO 17.38MT.
med. dark grey META-DACITE
Textures noted: MASSIVE
Structures noted: CONTACT dip 50,
.3Z CARBONATE as microveins
.3Z K-FELDSPAR as microveins
.3Z CHLORITE as microveins
1Z EPIDOTE as microveins
1708 1738 WEAKLY PORPHYRITIC ACID DYKE

FROM 17.38MT. TO 22.50MT.
dark green BASALT
Textures noted: AMYGDALOIDAL , PILLOWED , FOLIATED
Structures noted: FOLIATION dip 45,
1Z EPIDOTE as microveins
1967 2195 ZONE OF MEGA-AMYGDULES; BASALT BEARS A CERTAIN
RESEMBLANCE TO VARIOLITIC BASALT.

FROM 22.50MT. TO 26.00MT.
med. dark green PORPHYRITIC BASALT with FELDSPAR ,
Structures noted: CONTACT dip 45,
2250 2600 PORPHYRITIC BASALT MARKER; 7 TO 15Z WHITE FELDSPAR
LATHS AVERAGING 3 TO 6 mm IN SIZE; FELDSPAR PHENOCRYSTS
APPEAR TO BE WEAKLY EPIDOTIZED.
2500 2576 APHANITIC FOLIATED BASALT.

FROM 26.00MT. TO 61.33MT.
dark green BASALT
Textures noted: MASSIVE , PILLOWED
2.5Z CARBONATE as microveins
2.5Z EPIDOTE as microveins
3235 3274 QUARTZ K-FELDSPAR VEIN.
4573 6133 WELL PILLOWED SEQUENCE WITH FREQUENT BIOTIZED RIMS.

2600 6133 2 TO 3 % STRINGERS AND DISSEMINATIONS OF PO, CPY, PY.
BASALT HAS AN OVERALL WHITISH TINT (SILICIFICATION?)

FROM 61.33MT. TO 67.37MT.
med. dark green BASALT with AMPHIBOLES,
Textures noted: PORPHYRITIC, FOLIATED
Structures noted: CONTACT dip 45,
BASALT WITH 10 TO 15% AMPHIBOLE METACRYSTS 3 TO 7 mm.

FROM 67.37MT. TO 89.77MT.
grey green BASALT
Textures noted: PILLOWED
5% BIOTITE as selvages
1% PYRITE as microveins
.3% CHALCOPYRITE as microveins
5% PYRRHOTITE as microveins
6737 8977 WELL PILLOWED BASALT; RIMS ARE BIOTIZED, STRINGERS
OF PO UP TO 2 cm IN WIDTH AT IRREGULAR INTERVALS,
MINOR ASSOCIATED CPY. CORE HAS A PRONOUNCED WHITISH TINT.

FROM 89.77MT. TO 171.82MT.
dark green BASALT
Textures noted: MASSIVE, PILLOWED, FLOW BRECCIA, AMYGDALOIDAL
Structures noted: CONTACT dip 35,
1% QUARTZ as microveins
2.5% CARBONATE as microveins
1% K-FELDSPAR as microveins
1% EPIDOTE as microveins
FRESH MASSIVE BASALT, GRID ALTERATION POSSIBLY PRESENT,
LOCALLY FLOW BRECCIATED AND LOCALLY PILLOWED.
10424 17182 MINOR FLOW BRECCIATION
11248 12804 PILLOWED

FROM 171.82MT. TO 176.91MT.
medium green ALTERED TUFF
1% GARNET as spots
5% CARBONATE as microveins
.3% PYRITE as disseminations and scattered crystals
.3% CHALCOPYRITE as disseminations and scattered crystals
10% K-FELDSPAR as microveins
.01% EPIDOTE as massive
ALTERED ACID TUFF (FLOW?) FROM 172.52 TUFF BECOMES
HEAVILY ALTERED; ALTERATION CONSISTS OF MASSIVE
EPIDOTIZATION (UP TO 25 cm IN LENGTH), BLEACHING AND
ABUNDANT RED K-FELDSPAR BANDS AND FRACTURE FILLINGS.
ALSO PRESENT ARE 1 TO 2 mm SIZED CHLORITIC PATCHES AND
MINOR PINKISH CALCITE.

FROM 176.91MT. TO 188.61MT.
med. dark green ALTERED BASALT
Textures noted: MASSIVE
5% CARBONATE as massive
1% K-FELDSPAR as spots
5% CHLORITE as pervasive mineralization
10% EPIDOTE as massive

ALTERED BASALT; ALTERATION CONSISTS OF MASSIVE EPIDOTIZED, MASSIVE EPIDOTE BANDS RANGEING IN SIZED FROM A FEW cm TO 40 cm.
 17953 18288 CORE BADLY BROKEN UP (FAULT OR SHEAR ZONE)
 18304 18354 MASSIVE PINK CALCITE WITH MINOR CHLORITE.
 18557 18861 BASALT IS RELATIVELY UNALTERED.

FROM 188.61MT. TO 194.47MT.

ALTERED VOLCANIC
 2.5% CARBONATE as microveins
 10% K-FELDSPAR as pervasive mineralization
 20% EPIDOTE as massive
 18561 19264 PROBABLE ALTERED ACID TUFF; ALTERATION CONSISTS OF MASSIVE EPIDOTIZATION, PERVASIVE K-FELDSPAR, BLEACHING AND CARBONATE MICROVEINS. COLOUR VARIED ACCORDING TO DOMINANT ALTERATION.
 19264 19447 PROBABLE ALERED BASALT; ROCK IS SOFT, LIGHT GREEN IN COLOUR, EPIDOTIZATION IS MAIN ALTERATION.

FROM 194.47MT. TO 202.01MT.

dark green BASALT
 Textures noted: MASSIVE
 10% CARBONATE as microveins
 .3% K-FELDSPAR as pervasive mineralization
 30% EPIDOTE as massive
 RELATIVELY UNALTERED BASALT, MINOR MASSIVE EPIDOTE BANDS FROM A FEW mm TO 2 cm, PERVASIVE K-FELDSPAR, SOME BLEACHING; THE LAST METRE IS HEAVILY BLEACHED.

FROM 202.01MT. TO 205.78MT.

medium green ALTERED BASALT
 Textures noted: MASSIVE
 20% CARBONATE as massive
 1% K-FELDSPAR as pervasive mineralization
 1% CHLORITE as pervasive mineralization
 20% EPIDOTE as massive
 20201 20301 MASSIVE PINKISH COLOURED CALCITE WITH SOME EPIDOTE BANDS AND CHLORITE.
 20301 20403 MASSIVE EPIDOTE; PERVASIVE K-FELDSPAR.

FROM 205.78MT. TO 226.90MT.

dark green BASALT
 Textures noted: MASSIVE , TUFFACEOUS
 2.5% CARBONATE as microveins
 1% PYRRHOTITE as disseminations and scattered crystals
 20578 20611 TUFFACEOUS BASALT
 21925 22145 TUFFACEOUS BASALT WITH MINOR DISSEINATIONS OF PO.
 22595 22690 TUFFACEOUS BASALT.

FROM 226.90MT. TO 232.45MT.

brown grey RHYOLITIC TUFF
 Textures noted: TUFFACEOUS , BEDDED
 Structures noted: BEDDING dip 40,
 5% BIOTITE as pervasive mineralization
 .01% MARIPOSITE as laminations, bedded

.1% CHALCOPYRITE as disseminations and scattered crystals
 .3% CHLORITE as microveins
 .1% PYRRHOTITE as disseminations and scattered crystals
 .1% SPHALERITE as laminations, bedded
 22690 23545 BROWNISH GREY, FINE GRAINED THINLY BEDDED RHYOLITE
 TUFFS. WEAKLY MINERALIZED (<1%) WITH PO, CPY, AND A 2mm
 THICK SPHALERITE BAND.
 23221 23227 PROBABLE STRATIGRAPHIC EQUIVALENT TO ORE ZONE
 PO BEARING 'META-CHERT'

FROM 229.89MT. TO 230.47MT.

100% of this subinterval is

MAFIC TUFF

22985 22985 PROBABLE MARIPOSITE BAND: LESS THAN 1 mm IN THICKNESS.

FROM 232.45MT. TO 241.17MT.

med. dark green PYROXENITE ; TALCOSE
 5% BIOTITE as laminations, bedded
 10% CARBONATE as microveins
 .01% MAGNETITE as pervasive mineralization
 23245 24117 TALCOSE, MAGNETIC, MEDIUM GREEN, PYROXENITE LOCAL BIOTITE
 BANDS; LESS TALCOSE AFTER 239.27.

FROM 241.17MT. TO 243.36MT.

dark green BASALT
 Textures noted: MASSIVE
 1% BIOTITE as pervasive mineralization
 1% CARBONATE as microveins

FROM 243.36MT. TO 244.09MT.

brown grey RHYOLITIC TUFF
 Textures noted: TUFFACEOUS , BEDDED
 5% BIOTITE as pervasive mineralization
 .3% CHLORITE as microveins

FROM 244.09MT. TO 248.24MT.

med. dark green PYROXENITE ; TALCOSE
 24479 24500 5 % SULPHIDES PY-PO-CPY (MINOR)

FROM 248.24MT. TO 248.63MT.

RHYOLITIC TUFF
 Textures noted: TUFFACEOUS , BEDDED
 Structures noted: CONTACT dip 20,
 5% BIOTITE as pervasive mineralization
 1% CHLORITE as microveins
 .3% PYRRHOTITE as disseminations and scattered crystals

FROM 248.63MT. TO 255.28MT.

dark green PYROXENITE with PYROXENE , AMPHIBOLES ,
 Textures noted: MASSIVE
 24864 25528 MASSIVE MEDIUM GRAINED BASALT.

FROM 255.28MT. TO 270.37MT.

med. dark green BASALT with AMPHIBOLES , , and BIOTITIC
 Textures noted: MASSIVE , PILLOWED

5% BIOTITE as laminations, bedded
 .1% AMPHIBOLES as disseminations and scattered crystals
 25528 27037 COARSE BASALTS TYPIFIED BY 10 TO 20 %, 1 TO 2mm SIZED
 AMPHIBOLES AND MINOR BIOTITED BANDS AND DISSEMINATIONS
 26975 26993 PROBABLE FLOW BANDING.

FROM 270.37MT. TO 289.72MT.

medium green VARIOLITIC BASALT
 1% CARBONATE as microveins
 2.5% PYRRHOTITE as microveins
 27037 26972 VARIOLITIC BASALTS; VERY WELL DEVELOPED
 VARIOLES OCCUR AT REGULAR INTERVALS EVERY 10 TO 15 CM,
 VARIOLES OCCUR AS BANDS 2-4mm THICK.

FROM 279.36MT. TO 282.86MT.

100% of this subinterval is

med. dark green BASALT
 Textures noted: MASSIVE , FOLIATED
 2.5% BIOTITE as laminations, bedded

FROM 289.72MT. TO 300.85MT.

med. dark green BASALT
 Textures noted: MASSIVE , AMYGDALOIDAL
 2.5% BIOTITE as disseminations and scattered crystals
 1% CARBONATE as microveins

30088 30085 END OF HOLE.

IN-HOLE SURVEY AT 146.91 MT.

GRID AZIMUTH OF HOLE 222.00 VERTICAL ANGLE -82.00

IN-HOLE SURVEY AT 299.31 MT.

GRID AZIMUTH OF HOLE 188.00 VERTICAL ANGLE -70.00

TRUE AZIMUTH OF HOLE 223

PROBLEM WITH DOWN HOLE SURVEY.

A001	A00M	ALAB	ATYP	AMTH	GNTAU	GNTAG	PPNCU	Z CU	PPMZN	Z ZN
					CHINTCCHINTCCHINTCCHINTCCHINTCCHINTC					
					H-COR	H-COR	H-COR	H-COR	H-COR	H-COR
					FA	FA	AA		AA	
A001	4822	4932			1951	.15	0.34		2160	
A001	5120	5220			1952	.15	000		326	
A001	7644	7744			1953	.15	000		320	
A001	8172	8272			1954	.15	.15		440	
A001	20025	20177			5129	0.00	0.00			
A001	20177	20254			1955	.15	4.97		4400	
A001	20254	20339			5130	0.00	0.00			
A001	20339	20439			4494	.15	1.37			
A001	20439	20539			4495	.15	000			
A001	22027	22158			4496	.15	1.44			
A001	22528	22679			5132	0.00	0.00			
A001	22679	22779			4497	.15	0.82			
A001	22818	22918			1957	.15	.15		400	
A001	22918	23005			4498	.15	000			
A001	23005	23137			4499	.15	3.57			
A001	23137	23237			1956	.15	.15		296	
A001	23237	23277			5131	0.00	0.00			
A001	24225	24326			5133	0.00	0.00			

A001 24326 24478	5134	0.17	0.17	
A001 24478 24497	1958	1.41	0.41	880
A001 24497 24579	5135	0.17	0.00	
A001 26923 27023	1959	.15	.15	3000
A001 27075 27175	1960	.15	1.54	680
A001 27502 27551	1961	.15	3.84	800

/END

83CH002 BR GRID NORTH -95.00 GRID EAST 1250.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -85.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 327.96mt.

Logged by: H.Thiboutot on (day/mo/yr)... FEB83
Drilled by: Bradley Bros. FEB83

FROM 0.00MT. TO 2.13MT.
OVERBURDEN

FROM 2.13MT. TO 66.00MT.
dark green BASALT
Textures noted: PILLOWED , MASSIVE
1% QUARTZ as microveins
2.5% CARBONATE as microveins
.3% K-FELDSPAR as microveins
1% EPIDOTE as microveins
1280 1310 WEAK DEVELOPMENT OF MEGA-AMYGDULES.
2320 2347 WEAK DEVELOPMENT OF MEGA-AMYGDULES.
213 6600 WET CORE HAS A SPECKLED APPEARANCE
WHICH IS PROBABLY DUE TO THE ALTERATION OF FELDSPARS
TO CLAY MINERALS; LOCALLY, PROBABLE GRID ALTERATION.

FROM 38.80MT. TO 42.37MT.

100% of this subinterval is

med. light grey ACID DYKE
Textures noted: MASSIVE , FOLIATED
Structures noted: CONTACT dip 50,
1% BIOTITE as disseminations and scattered crystals
1% CARBONATE as microveins
.1% PYRITE as disseminations and scattered crystals
1% K-FELDSPAR as microveins
4502 4968 A FEW MEGA-AMYGDULES.

FROM 66.00MT. TO 67.24MT.

dark green FRAGMENTAL BASALT
6600 6687 FRAGMENTAL BASALT IS CHARACTERIZED BY 20% WHITE
APHANITIC FELSIC FRAGMENTS, 1mm TO 1cm IN SIZE IN A
DARK GREEN MAFIC MATRIX; GRADES INTO A TUFF AT 66.87.
6623 6635 QUARTZ FELDSPAR PORPHYRY DYKE, EPIDOTE FILLED FRACTURES.
6687 6724 PROBABLE META DACITE TUFF, 20 TO 25% 1 TO 2mm SIZED
CHLORITIC FRAGMENTS.
6687 6754 3% PY, CPY DESSEMINATIONS.

FROM 67.24MT. TO 68.18MT.

medium grey CRYSTAL TUFF
Textures noted: FRAGMENTAL
Structures noted: BEDDING dip 50,
RHYOLITE CRYSTAL TUFF CHARACTERIZED BY 20 TO 25% WHITE
FELSIC AND CHERTY FRAGMENTS VARYING IN SIZE FROM 1mm TO
2 cm IN A DACITIC MATRIX.

FROM 68.18MT. TO 100.58MT.

dark green BASALT
Textures noted: MASSIVE

1Z CARBONATE as microveins
.3Z EPIDOTE as microveins
7093 7193 BASALT MORE FELSIC ALMOST DACITIC.
7803 10058 COARSE GRAINED BASALT
9327 9479 FRESH APHANITIC BASALT

FROM 100.58MT. TO 109.27MT.

medium green BASALT
Textures noted: PILLOWED
1Z BIOTITE as selvages
1Z CARBONATE as microveins
.3Z PYRRHOTITE as microveins
10500 10503 POSSIBLE VARIQLES
10058 10927 BASALT HAS AN OVERALL WHITISH TINT (SILICIFICATION?)

FROM 109.27MT. TO 113.80MT.

med. dark green BASALT with AMPHIBOLES ,
Textures noted: MASSIVE , PORPHYRITIC
1Z CARBONATE as microveins
.1Z PYRITE as microveins
BASALT IS CHARACTERIZED BY 15 TO 20% 1 TO 5mm SIZED
AMPHIBOLE METACRYSTS.

FROM 113.80MT. TO 138.38MT.

dark green BASALT
Textures noted: MASSIVE , PILLOWED , FOLIATED
2.5Z QUARTZ as macroveins
1Z BIOTITE as selvages
10Z CARBONATE as microveins
1Z PYRITE as disseminations and scattered crystals
.3Z CHALCOPYRITE as disseminations and scattered crystals
.1Z K-FELDSPAR as microveins
10Z EPIDOTE as microveins
.3Z PYRRHOTITE as disseminations and scattered crystals
11369 11978 CORE BOX SPLIT
11380 13838 BASALT HAS AN OVERALL WHITISH TINT.

FROM 138.38MT. TO 140.51MT.

dark grey FRAGMENTAL BASALT
13838 14051 FRAGMENTAL BASALT CONTAINS 20 TO 25% FELSIC FRAGMENTS
RANGING IN SIZE FROM 1mm TO 5cm. TWO TYPES OF FRAGMENTS
PRESENT: 1) FELDSPAR PORPHYRITIC AND 2) APHANITIC
RHYOLITIC FRAGMENTS. MATRIX IS DARK GREEN AND LOCALLY
CHLORITIZED.

FROM 140.51MT. TO 198.58MT.

dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL , FLOW BRECCIA
.3Z QUARTZ as microveins
2.5Z CARBONATE as microveins
.3Z CHALCOPYRITE as disseminations and scattered crystals
1Z EPIDOTE as microveins
.3Z PYRRHOTITE as disseminations and scattered crystals
FRESH MASSIVE BASALT, POSSIBLE GRID ALTERATION, VERY
LOCALLY FLOW BRECCIATED.

FROM 157.58MT. TO 157.88MT.

100% of this subinterval is

PORPHYRITIC BASALT with FELDSPAR ,
1% CARBONATE as microveins
WEAKLY PORPHYRITIC BASALT; 3 TO 5% 5mm SIZED FELDSPARS.
16093 16346 POSSIBLY PILLOWED.

FROM 198.58MT. TO 204.52MT.

med. light grey ALTERED RHYOLITE
Textures noted: MASSIVE , TUFFACEOUS
Structures noted: BEDDING dip 35,
.3% PYRITE as disseminations and scattered crystals
2.5% K-FELDSPAR as pervasive mineralization
2.5% EPIDOTE as disseminations and scattered crystals
19858 20452 MASSIVE TO LOCALLY TUFFACEOUS ALTERED RHYOLITE,
PERVASIVE K-FELDSPAR AND DISSEMINATED EPIDOTE.

FROM 204.52MT. TO 206.96MT.

med. dark green ALTERED BASALT
2.5% K-FELDSPAR as pervasive mineralization
50% EPIDOTE as massive
20452 20696 VERY HEAVILY EPIDOTIZED BASALT, MASSIVE EPIDOTE
SECTIONS UP TO 0.7M IN THICKNESS.

FROM 206.96MT. TO 243.84MT.

dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL , FLOW BRECCIA
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
.3% PYRITE as disseminations and scattered crystals
.1% CHALCOPYRITE as disseminations and scattered crystals
21504 21595 BASALT IS WEAKLY TUFFACEOUS
20696 24384 LOCAL FLOW BRECCIATION

FROM 243.84MT. TO 268.16MT.

dark green BASALT with AMPHIBOLES ,
Textures noted: PILLOWED , MASSIVE
1% QUARTZ as macroveins
2.5% BIOTITE as laminations, bedded
1% CARBONATE as macroveins
24917 25146 ABUNDANT QUARTZ CALCITE VEINING
24384 26816 MASSIVE COARSE GRAINED BASALT.
26679 26716 HEAVILY BIOTITIC METADACITIC TO RHYOLITIC TUFF.

FROM 268.16MT. TO 270.66MT.

med. light grey RHYOLITIC TUFF
Structures noted: BEDDING dip 50,
2.5% QUARTZ as eyes, augen
.3% PYRITE as microveins
.01% CHALCOPYRITE as disseminations and scattered crystals
26990 27033 MAFIC TUFF BAND; DRILLING THROUGH SMALL FOLD; CORE
NORMALS VARY FROM 0 TO 90 DEGREES.

FROM 270.66MT. TO 271.46MT.

med. light green PYROXENITE
Textures noted: MASSIVE
5Z BIOTITE as disseminations and scattered crystals
NON-MAGNETIC

FROM 271.46MT. TO 272.83MT.

med. light grey RHYOLITIC TUFF
Structures noted: BEDDING dip 40,
2.5Z CARBONATE as microveins
.3Z MARIPOSITE as microveins
.3Z PYRITE as disseminations and scattered crystals
.01Z CHALCOPYRITE as disseminations and scattered crystals
1Z SERICITE as microveins

27240 27283 PROBABLE STRATIGRAPHIC EQUIVALENT TO ORE ZONE.

FROM 272.83MT. TO 276.30MT.

med. light green PYROXENITE
Textures noted: MASSIVE
1Z QUARTZ as macroveins
2.5Z BIOTITE as disseminations and scattered crystals
.3Z PYRITE as disseminations and scattered crystals
WEAKLY TALCOSE, WEAKLY MAGNETIC.

FROM 276.30MT. TO 278.83MT.

brown grey RHYOLITIC TUFF
Structures noted: BEDDING dip 40,
1Z QUARTZ as eyes, augen
5Z BIOTITE as pervasive mineralization

27822 27883 MORE DACITIC COMPOSITION.
27630 27883 WELL BEDDED RHYOLITE TUFFS, SOME QUARTZ EYES

FROM 278.83MT. TO 282.61MT.

dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL

27883 27914 QUARTZ MACROVEIN

FROM 282.61MT. TO 283.59MT.

brown grey RHYOLITIC TUFF
5Z BIOTITE as pervasive mineralization
1Z PYRITE as microveins

FROM 283.59MT. TO 288.77MT.

dark green BASALT
Textures noted: MASSIVE , FOLIATED
2.5Z QUARTZ as macroveins
5Z BIOTITE as pervasive mineralization
5Z CARBONATE as macroveins
1Z CHALCOPYRITE as disseminations and scattered crystals
1Z PYRRHOTITE as disseminations and scattered crystals

FROM 288.77MT. TO 291.09MT.

RHYOLITIC TUFF
2.5Z QUARTZ as eyes, augen
1Z BIOTITE as disseminations and scattered crystals
.1Z SERICITE as microveins

RHYOLITE CRYSTAL TUFF 10 TO 20% QUARTZ AND FELDSPAR GRAINS

FROM 291.09MT. TO 315.07MT.

dark green BASALT
 Textures noted: MASSIVE , FOLIATED , AMYGDALOIDAL
 2.5% QUARTZ as microveins
 5% BIOTITE as pervasive mineralization
 2.5% CARBONATE as microveins
 1% CHALCOPYRITE as disseminations and scattered crystals
 .3% K-FELDSPAR as microveins
 1% PYRRHOTITE as disseminations and scattered crystals
 MASSIVE BASALT LOCALLY FOLIATED
 30105 30154 TALCOSE, MAGNETIC PYROXENITE
 30505 30608 MASSIVE PYROXENITE

FROM 315.07MT. TO 327.96MT.

dark green VARIOLITIC BASALT
 Textures noted: VARIOLITIC , MASSIVE
 2.5% QUARTZ as microveins
 2.5% CARBONATE as microveins
 1% PYRRHOTITE as disseminations and scattered crystals
 31507 32718 WEAKLY VARIOLITIC
 REOH 32796 32796 END OF HOLE.
 IN-HOLE SURVEY AT 174.04 MT.
 GRID AZIMUTH OF HOLE ??? .00 VERTICAL ANGLE -75.00
 IN-HOLE SURVEY AT 326.44 MT.
 GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -70.00
 TRUE AZIMUTH OF HOLE 215
 PROBLEM WITH DOWN HOLE SURVEY.

A001						
AUMH		GNTAU	GNTAG	PPNCU	CU Z	PPNZM ZN Z
ALAB		CHMTC	CHMTC	CHMTC	CHMTC	CHMTC
ATYP		H-COR	H-COR	H-COR	H-COR	H-COR
AMTH		FA	FA	AA		AA
A001	6687 6754	2051	0.65	1.44		
A001	26816 26969	5136	0.17	0.00		
A001	26969 27145	5137	0.17	0.17		
A001	27145 27279	2052	.15	.15	242	
A001	27249 2742	4500	.15	.15		
A001	27420 27615	5145	0.17	0.00		
A001	27615 27767	5138	0.17	0.89		
A001	27767 27920	5139	0.17	0.55		
A001	28248 28349	4676	.15	2.81		
A001	28349 28450	5140	0.17	0.00		
A001	28450 28554	5141	0.17	0.62		
A001	28554 28654	2053	0.45	2.19	8400	
A001	28654 28807	5142	0.17	0.89		
A001	28807 28959	5146	0.17	1.78		
A001	28959 29059	5143	0.17	0.00		
A001	29059 29139	5144	0.17	0.00		
A001	29139 29239	4677	.15	0.62		
A001	2934 2944	4678	.15	2.95		

/END

HOLE 83CH003 BQ GRID NORTH -178.00 GRID EAST 1150.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -85.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 262.74mt.

Logged by: H.Thiboutot on (day/mo/yr)... FEB83
Drilled by: Bradley Bros. FEB83

FROM 0.00MT. TO 1.83MT.
OVERBURDEN

FROM 1.83MT. TO 20.64MT.
med. dark green BASALT
Textures noted: PILLOWED , AMYGDALOIDAL
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
.1% PYRITE as disseminations and scattered crystals
.3% CHALCOPYRITE as disseminations and scattered crystals
.3% K-FELDSPAR as microveins
1% EPIDOTE as microveins
WELL PILLOWED BASALT; POSSIBLY MEGA-AMYGDULES (13.1-15.0)
CORE HAS AN OVERALL WHITISH TINT.

FROM 15.97MT. TO 19.45MT.
100% of this subinterval is
dark grey META-DACITE
Textures noted: MASSIVE
1% QUARTZ as macroveins
1% CARBONATE as microveins
.1% PYRITE as disseminations and scattered crystals
1% K-FELDSPAR as macroveins
.1% PYRRHOTITE as disseminations and scattered crystals

FROM 20.64MT. TO 27.13MT.
med. dark green BASALT with AMPHIBOLES ,
Textures noted: MASSIVE , PORPHYRITIC
.3% QUARTZ as microveins
.3% CARBONATE as microveins
15 TO 20 % , 1 TO 15mm SIZED AMPHIBOLE METACRYSTS.
1 TO 2% FELDSPAR PHENOCRYSTS.

FROM 27.13MT. TO 42.67MT.
med. dark green BASALT
Textures noted: MASSIVE , PILLOWED , AMYGDALOIDAL
2.5% QUARTZ as microveins
2.5% BIOTITE as selvages
2.5% CARBONATE as microveins
.1% PYRITE as disseminations and scattered crystals
.1% CHALCOPYRITE as disseminations and scattered crystals
.3% K-FELDSPAR as pervasive mineralization
1% EPIDOTE as microveins
BASALT HAS AN OVERALL WHITISH TINT
3206 3258 15% 1 TO 10mm SIZED AMPHIBOLE METACRYSTS
1% FELDSPAR PHENOCRYSTS.

FROM 42.67MT. TO 44.56MT.

grey green FRAGMENTAL BASALT
.3% PYRITE as disseminations and scattered crystals
10% K-FELDSPAR as pervasive mineralization
1% EPIDOTE as microveins
FRAGMENTAL BASALT; 25 TO 30% 1mm TO 5cm SIZED FRAGS.
BOTH APHANTIC AND QUARTZ-FELDSPAR PORPHYRITIC FRAGS.

FROM 44.56MT. TO 77.24MT.

dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
.1% PYRITE as disseminations and scattered crystals
.1% CHALCOPYRITE as disseminations and scattered crystals
.1% K-FELDSPAR as microveins
.3% EPIDOTE as microveins
PROBABLE WEAK GRID ALTERATION; LOCALLY PILLOWED
AND FOLIATED.

5160 5168 QUARTZ FELDSPAR PORPHYRITIC DYKE

FROM 60.41MT. TO 63.31MT.

100% of this subinterval is

dark grey META-DACITE
Textures noted: MASSIVE
1% QUARTZ as microveins
1% CARBONATE as microveins

6285 6331 A FEW FELDSPAR PHENOCRYSTS.

FROM 77.24MT. TO 116.43MT.

dark green BASALT
Textures noted: MASSIVE , PILLOWED , FLOW BRECCIA , AMYGDALOIDAL
1% QUARTZ as microveins
1% CARBONATE as microveins
1% PYRITE as disseminations and scattered crystals
.3% CHALCOPYRITE as disseminations and scattered crystals
1% K-FELDSPAR as macroveins
1% EPIDOTE as macroveins
1% PYRRHOTITE as disseminations and scattered crystals

8995 9126 K-FELDSPAR, QUARTZ, AND EPIDOTE VEINS.

FROM 116.43MT. TO 154.84MT.

med. dark green BASALT
Textures noted: PILLOWED , AMYGDALOIDAL
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
.3% CHALCOPYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as disseminations and scattered crystals

11643 15484 LOCAL BLEACHING; PROBABLE GRID ALTERATION

FROM 154.84MT. TO 191.23MT.

dark green BASALT
Textures noted: MASSIVE
1% QUARTZ as microveins
1% CARBONATE as microveins

FROM 159.87MT. TO 162.15MT.

100% of this subinterval is

med. dark green BASALT
Textures noted: TUFFACEOUS , BANDED
Structures noted: BANDING dip 20,
1% BIOTITE as pervasive mineralization
.1% PYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as disseminations and scattered crystals

FROM 191.23MT. TO 195.87MT.

brown grey RHYOLITIC TUFF
Textures noted: , BEDDED
Structures noted: BEDDING dip 50,
5% QUARTZ as eyes, augen
5% BIOTITE as pervasive mineralization
.3% MARIPOSITE as laminations, bedded
.3% PYRITE as disseminations and scattered crystals
.3% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals
3 TO 5% MINISCULE QUARTZ EYES; THIN FUCHSITE BANDS
AT 194.15 AND AT 194.64

FROM 195.87MT. TO 198.39MT.

med. dark green PYROXENITE
Textures noted: MASSIVE
5% BIOTITE as pervasive mineralization
.01% MAGNETITE as disseminations and scattered crystals
WEAKLY TALCOSE; WEAKLY MAGNETIC.

FROM 198.39MT. TO 199.19MT.

brown grey RHYOLITIC TUFF
Textures noted: BEDDED
Structures noted: BEDDING dip 35,
5% BIOTITE as pervasive mineralization
.3% MARIPOSITE as laminations, bedded
1% PYRITE as disseminations and scattered crystals
.3% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals
.3% SPHALERITE as disseminations and scattered crystals
2 TO 3% TOTAL SULPHIDES; FUCHSITE BAND AT 199 M
19903 19919 PROBABLE STRATIGRAPHIC EQUIVALENT TO ORE ZONE
3% DISSEMINATED SULPHIDES.

FROM 199.19MT. TO 203.91MT.

med. dark green PYROXENITE ; TALCOSE
Textures noted: , MASSIVE
10% BIOTITE as pervasive mineralization
.3% MAGNETITE as disseminations and scattered crystals
STRONGLY TALCOSE AND MAGNETIC
20042 20050 PROBABLE FAULT ZONE

FROM 203.91MT. TO 207.87MT.

dark green BASALT
Textures noted: , MASSIVE
1% QUARTZ as microveins

1Z CARBONATE as microveins

FROM 207.87MT. TO 210.19MT.

brown grey RHYOLITIC TUFF
Textures noted: , BANDED
1Z QUARTZ as eyes, augen
5Z BIOTITE as pervasive mineralization
.1Z PYRITE as disseminations and scattered crystals
.1Z CHLORITE as disseminations and scattered crystals

FROM 210.19MT. TO 234.12MT.

medium green PYROXENITE
Textures noted: , MASSIVE
.3Z QUARTZ as microveins
2.5Z BIOTITE as laminations, bedded
1Z CARBONATE as microveins

21175 21208 MAFIC TUFF
21208 21229 RHYOLITE TUFF

FROM 217.20MT. TO 219.36MT.

100Z of this subinterval is

med. dark grey META-DACITE
Textures noted: TUFFACEOUS , MASSIVE
10Z BIOTITE as pervasive mineralization
1Z CHLORITE as disseminations and scattered crystals
.3Z PYRRHOTITE as disseminations and scattered crystals

FROM 219.36MT. TO 219.97MT.

100Z of this subinterval is

FRAGMENTAL BASALT
Textures noted: , FRAGMENTAL
5Z BIOTITE as pervasive mineralization
APHANITIC CHERTY TO RHYOLITIC FELDSPAR PORPHYRITIC
FRAGMENTS; CLASTS ARE STRETCHED UP TO 5cm IN LENGTH.

FROM 219.97MT. TO 221.59MT.

100Z of this subinterval is

med. dark green MAFIC TUFF
Textures noted: , BANDED
Structures noted: BANDING dip 35,
5Z BIOTITE as pervasive mineralization
.3Z PYRITE as disseminations and scattered crystals

FROM 234.12MT. TO 239.88MT.

dark green BASALT
Textures noted: , MASSIVE
Structures noted: CONTACT dip 40,
.3Z QUARTZ as microveins
.3Z CARBONATE as microveins

FROM 239.88MT. TO 252.37MT.

META GABBRO with PYROXENE ,
Textures noted: , MASSIVE

FROM 241.40MT. TO 243.05MT.

100% of this subinterval is

med. dark green PYROXENITE
Textures noted: , MASSIVE

FROM 252.37MT. TO 262.74MT.

VARIOLITIC BASALT

Textures noted: BANDED , FOLIATED
Structures noted: BANDING dip 20,
.3% QUARTZ as microveins
.3% BIOTITE as laminations, bedded
1% CARBONATE as microveins
.3% PYRRHOTITE as microveins

MODERATELY VARIOLITIC BASALTS; VARIOLES FORM BANDS
3 TO 5cm IN THICKNESS AT 20 DEG. TO CORE NORMAL

REQH 26274 26274 END OF HOLE.

IN-HOLE SURVEY AT 108.81 MT.

GRID AZIMUTH OF HOLE ??? 00 VERTICAL ANGLE -78.00

IN-HOLE SURVEY AT 245.97 MT.

GRID AZIMUTH OF HOLE 185.00 VERTICAL ANGLE -70.00

TRUE AZIMUTH OF HOLE 220

IN-HOLE SURVEY AT 261.21 MT.

GRID AZIMUTH OF HOLE ??? 00 VERTICAL ANGLE -69.00

PROBLEM WITH DOWN HOLE SURVEYS.

AC01

AC01

AC01

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AC01

AC01

GNTAU GNTAG PPMCU CU % PPMZN ZN %
CHMTC CHMTC CHMTC CHMTC CHMTC CHMTC
H-COR H-COR H-COR H-COR H-COR H-COR
FA FA AA AA

AC01	10394	10445	1962	.15	0.48	980				
AC01	11665	11753	1963	.15	0.34	640				
AC01	11838	11915	1964	.15	2.16	3040				
AC01	16063	16215	5147	0.17	1.10					
AC01	19123	19275	5148	0.17	0.00					
AC01	19275	19376	4679	.15	15.29					
AC01	19376	19476	1965	.15	.15	800				
AC01	19476	19576	4680	.15	0.62					
AC01	19809	19909	1966	.15	000	346				
AC01	20720	20824	5149	0.17	1.78					
AC01	20824	20940	4681	.15	10.50					
AC01	20940	21019	5150	0.17	0.55					
AC01	21019	21052	5151	0.17	0.00					
AC01	21052	21089	1967	1.65	.15	1080				
AC01	21089	21208	5152	0.17	2.47					
AC01	21720	21872	5153	0.17	0.00					
AC01	21872	21973	5154	0.17	1.37					
AC01	21973	22058	5155	0.17	1.78					
AC01	22058	22160	4682	.15	2.61					
AC01	22160	22768	5156	0.17	0.00					

/END

HOLE 83CH004 80 GRID NORTH -100.00 GRID EAST 1350.00
GRID AZIMUTH OF HOLE 190.00 VERTICAL ANGLE -85.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 315.77mt.

Logged by: H.Thiboutot on (day/mo/yr)... FEB83
Drilled by: Bradley Bros. FEB83

FROM 0.00MT. TO 6.46MT.
OVERBURDEN

FROM 6.46MT. TO 7.25MT.
medium grey RHYOLITIC TUFF
Textures noted: , BEDDED
Structures noted: BEDDING dip 60,
.3% QUARTZ as eyes, augen
.1% PYRITE as disseminations and scattered crystals
2.5% CHLORITE as disseminations and scattered crystals
.1% PYRRHOTITE as disseminations and scattered crystals
WELL BEDDED QUARTZ EYE BEARING RHYOLITE TUFF;
5 TO 10% FELDSPAR CRYSTALS.

FROM 7.25MT. TO 11.19MT.
medium grey RHYOLITE AGGLOMERATE
2.5% BIOTITE as pervasive mineralization
RHYOLITE AGGLOMERATE; 40% FRAGMENTS VARYING FROM
1cm TO 6cm ; TWO TYPE OF FRAGMENTS: 1) APHANITIC AND
RHYOLITIC IN COMPOSITION; 2) QUARTZ-FELDSPAR PORPHIRITIC

FROM 11.19MT. TO 28.07MT.
brown grey CRYSTAL TUFF
Textures noted: , BEDDED
Structures noted: BEDDING dip 50,
10% QUARTZ as eyes, augen
5% BIOTITE as pervasive mineralization
1% GARNET as disseminations and scattered crystals
.1% PYRITE as disseminations and scattered crystals
2.5% CHLORITE as pervasive mineralization
2.5% EPIDOTE as pervasive mineralization
BROWNISH TO YELLOWISH GREY RHYOLITE CRYSTAL TUFF;
MINOR AGGLOMERATIC BANDS
1768 2155 1% DISSEMINATED GARNETS.
1537 1561 SECTION RESEMBLES FRAGMENTAL BASALT
2313 2432 EPIDOTIZED SECTION
2786 2807 RESEMBLES FRAGMENTAL BASALT

FROM 28.07MT. TO 51.24MT.
dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
1% QUARTZ as microveins
1% CARBONATE as microveins
MEGA-AMYGDULAR BASALT; BASALT HAS AN OVERALL WHITISH TINT.

FROM 36.21MT. TO 36.54MT.
100% of this subinterval is
dark green BASALT

Textures noted: , PORPHYRITIC

3621 3654 WEAKLY PORPHYRITIC BASALT 3 TO 5Z FELDSPAR LATHS
 VARYING IN SIZE FROM 0.5 mm TO 4mm

FROM 42.34MT. TO 43.19MT.
 100Z of this subinterval is
 dark grey META-DACITE
 Textures noted: , MASSIVE

5084 5124 COARSE GRAINED BASALT

FROM 51.24MT. TO 53.62MT.
 dark grey META-DACITE
 Textures noted: , MASSIVE

FROM 53.62MT. TO 95.13MT.
 dark green BASALT
 Textures noted: MASSIVE , AMYGDALOIDAL
 1Z QUARTZ as microveins
 1Z BIOTITE as pervasive mineralization
 1Z CARBONATE as microveins
 .3Z CHALCOPYRITE as disseminations and scattered crystals
 .3Z PYRRHOTITE as disseminations and scattered crystals
 MEGA-AMYGDULAR BASALT; FINE TO COARSE GRAINED;
 OVERALL WHITISH TINT

5928 5962 MASSIVE DARK GREY DACITE
 7650 8388 COARSE GRAINED MASSIVE BASALT

FROM 95.13MT. TO 96.68MT.
 grey green FRAGMENTAL BASALT
 .3Z CARBONATE as pervasive mineralization
 1Z K-FELDSPAR as pervasive mineralization
 FRAGMENTAL BASALT; 15 TO 20Z 1mm TO 1cm SIZED
 CLASTS; 2 TYPES OF FRAGMENTS: FINE GRAINED RHYOLITE,
 AND QUARTZ-FELDSPAR RHYOLITIC; SOME FRAG.S APPEAR TO BE
 BLEACHED.

FROM 95.89MT. TO 96.38MT.
 100Z of this subinterval is
 dark grey CRYSTAL TUFF
 1Z QUARTZ as microveins
 1Z BIOTITE as pervasive mineralization
 1Z CHALCOPYRITE as disseminations and scattered crystals
 1Z PYRRHOTITE as disseminations and scattered crystals
 RHYOLITE CRYSTAL TUFF; 20Z QUARTZ AND FELDSPAR
 CRYSTALS IN A GREY RHYLOITIC MATRIX.

FROM 96.68MT. TO 126.22MT.
 dark green BASALT
 Textures noted: MASSIVE , PILLOWED , AMYGDALOIDAL
 2.5Z QUARTZ as microveins
 5Z BIOTITE as selvages
 .1Z GARNET as disseminations and scattered crystals
 2.5Z CARBONATE as microveins
 MASSIVE TO PILLOWED BASALTS; BIOTIZED PILLOW RIMS;
 OVERALL WHITISH COLOUR

10500 10644 MINISCULE GARNETS IN BIOTIZED RIMS
11052 11134 QUARTZ VEINING; 2% CPY AND PO IN STRINGERS

FROM 126.22MT. TO 131.43MT.

dark green PORPHYRITIC BASALT
1% QUARTZ as microveins
2.5% BIOTITE as pervasive mineralization
1% CARBONATE as microveins
12622 13143 PORPHYRITIC BASALT; 20 TO 25% 1mm TO 1cm SIZED
FELDSPAR LATHS.
12716 12792 FINE GRAINED BASALT
12792 12808 ACID DYKE; QUARTZ-FELDSPAR PHENOCRYSTS

FROM 131.43MT. TO 152.83MT.

dark green BASALT
Textures noted: PILLOWED
2.5% QUARTZ as microveins
5% BIOTITE as selvages
2.5% CARBONATE as microveins
.1% CHALCOPYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as disseminations and scattered crystals
13259 13350 RHYOLITE CRYSTAL TUFF

FROM 152.83MT. TO 171.30MT.

dark green BASALT
Textures noted: MASSIVE
1% QUARTZ as microveins
.3% BIOTITE as pervasive mineralization
1% CARBONATE as microveins
.1% CHALCOPYRITE as disseminations and scattered crystals
.1% PYRRHOTITE as disseminations and scattered crystals
FRESH MASSIVE FINE TO MEDIUM GRAINED BASALT.

FROM 171.30MT. TO 262.19MT.

medium green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL , FLOW BRECCIA
1% QUARTZ as microveins
.3% BIOTITE as laminations, bedded
1% CARBONATE as microveins
FRESH FINE GRAINED-LOCALLY FLOW BRECCIATED BASALT

FROM 177.39MT. TO 178.00MT.

100% of this subinterval is
medium grey RHYOLITIC TUFF
Structures noted: CONTACT dip 35,
2.5% QUARTZ as microveins

FROM 178.00MT. TO 178.80MT.

100% of this subinterval is
dark grey FRAGMENTAL BASALT
Structures noted: CONTACT dip 35,
1% QUARTZ as microveins

18090 18108 FRAGMENTAL BASALT 2.5cm SIZED FELDSPAR PORPHYRITIC FRAG.S
23860 23905 QUARTZ VEINING WITH MASSIVE PO BANDS 3cm IN SIZE
2 TO 7% TOTAL SULPHIDE CONTENT.

24015 24125 HEAVILY CARBONATED BASALT; 1 TO 2% DISSEMINATED SULPHIDES.
24274 24341 MAFIC TUFF; CHERTY TUFF BAND (243.26-243.29) AT 30 DEG.
TO CORE NORMAL.

FROM 260.21MT. TO 261.31MT.

100% of this subinterval is

DACITIC TUFF

5% BIOTITE as pervasive mineralization

26021 26131 METADACITE TUFFS; MINOR MAFIC BANDS

26131 26219 MAFIC TUFF

FROM 262.19MT. TO 277.34MT.

dark green BASALT

Textures noted: PILLOWED

1% QUARTZ as microveins

2.5% BIOTITE as pervasive mineralization

2.5% CARBONATE as microveins

1% PYRITE as pervasive mineralization

1% CHALCOPYRITE as disseminations and scattered crystals

.3% EPIDOTE as microveins

1% PYRRHOTITE as disseminations and scattered crystals

FROM 277.34MT. TO 281.82MT.

grey green MAFIC TUFF

Structures noted: FOLIATION dip 35,

1% QUARTZ as microveins

1% CARBONATE as microveins

.1% PYRITE as disseminations and scattered crystals

.01% CHALCOPYRITE as disseminations and scattered crystals

1% K-FELDSPAR as microveins

.01% PYRRHOTITE as disseminations and scattered crystals

FROM 281.82MT. TO 286.60MT.

med. dark grey CHERTY TUFF

Textures noted: , BEDDED

Structures noted: BEDDING dip 30,

10% PYRITE as massive

5% CHALCOPYRITE as disseminations and scattered crystals

.3% K-FELDSPAR as microveins

2.5% CHLORITE as microveins

RHYOLITIC TO CHERTY TUFF; LOCALLY FRAGMENTAL IN
APPEARANCE, 20 TO 25% TOTAL SULPHIDE CONTENT

28358 28374 MASSIVE PYRITE

FROM 286.60MT. TO 287.33MT.

med. dark green PYROXENITE

Textures noted: , MASSIVE

FROM 287.33MT. TO 288.74MT.

med. dark grey RHYOLITIC TUFF

Textures noted: , BEDDED

Structures noted: BEDDING dip 30,

1% QUARTZ as eyes, augen

1% CARBONATE as microveins

.01% PYRITE as disseminations and scattered crystals

.01Z PYRRHOTITE as disseminations and scattered crystals

FROM 288.74MT. TO 292.99MT.

med. dark green PYROXENITE
Textures noted: , MASSIVE

FROM 290.02MT. TO 290.63MT.

100Z of this subinterval is
dark grey META-DACITE
Textures noted: , MASSIVE
.3Z MUSCOVITE as pervasive mineralization

FROM 290.63MT. TO 290.99MT.

100Z of this subinterval is
med. dark grey RHYOLITIC TUFF
.3Z K-FELDSPAR as microveins

FROM 290.99MT. TO 291.88MT.

100Z of this subinterval is
dark grey BASALT
Textures noted: , TUFFACEOUS
Structures noted: BANDING dip 50,
1Z QUARTZ as microveins
.1Z CARBONATE as microveins
.3Z MUSCOVITE as pervasive mineralization

FROM 291.88MT. TO 292.99MT.

100Z of this subinterval is
medium grey RHYOLITIC TUFF
Structures noted: BANDING dip 40,
.3Z MUSCOVITE as sheeting

FROM 292.99MT. TO 295.99MT.

dark green BASALT
Textures noted: MASSIVE , TUFFACEOUS
1Z QUARTZ as microveins
1Z CARBONATE as microveins
29299 29367 MASSIVE PYROXENITE

FROM 295.99MT. TO 299.62MT.

RHYOLITIC TUFF
Textures noted: , BEDDED
Structures noted: CONTACT dip 30,
1Z QUARTZ as eyes, augen
1Z MUSCOVITE as pervasive mineralization
29892 29946 META-DACITE

FROM 299.62MT. TO 307.20MT.

dark green BASALT
Textures noted: FOLIATED , MASSIVE
1Z QUARTZ as microveins
1Z CARBONATE as microveins
5Z MUSCOVITE as pervasive mineralization
30026 30075 MASSIVE PYROXENITE
30221 30297 MASSIVE PYROXENITE

30325 30361 MASSIVE PYROXENITE

FROM 307.20MT. TO 315.77MT.

dark green VARIOLITIC BASALT
 Textures noted: PILLOWED
 .3% QUARTZ as microveins
 2.5% BIOTITE as laminations, bedded
 .3% CARBONATE as microveins
 .1% PYRITE as disseminations and scattered crystals
 .1% CHALCOPYRITE as disseminations and scattered crystals
 .3% PYRRHOTITE as disseminations and scattered crystals
 END OF HOLE.

REQH 31577 31577

IN-HOLE SURVEY AT 100.88 MT.
 GRID AZIMUTH OF HOLE 182.00 VERTICAL ANGLE -80.00
 TRUE AZIMUTH OF HOLE 217
 IN-HOLE SURVEY AT 222.80 MT.
 GRID AZIMUTH OF HOLE ??? .00 VERTICAL ANGLE -77.00
 IN-HOLE SURVEY AT 314.20 MT.
 GRID AZIMUTH OF HOLE ??? .00 VERTICAL ANGLE -?? .00

PROBLEM WITH THE DOWN HOLE SURVEY.

A001	AUMM	GMTAU	GMTAG	PPMCU	CU Z	PPMZN	ZN Z
ALAB		CHMTC	CHMTC	CHMTC	CHMTC	CHMTC	CHMTC
ATYP		H-COR	H-COR	H-COR	H-COR	H-COR	H-COR
AMTH		FA	FA	AA		AA	
A001	9589 9644	2054	.15	000	880		
A001	10940 11040	5157	0.17	0.41			11
A001	11040 11135	2055	0.45	3.57	4660		
A001	11135 11235	5158	0.17	0.00			16
A001	2386 23905	2056	.15	5.37	440		
A001	23976 24037	2057	.15	1.06	309		
A001	24037 24189	5159	0.17	0.89			04
A001	24189 24350	5160	0.17	0.41			12
A001	24810 24963	5161	0.17	1.10			26
A001	25685 25838	5162	0.17	1.78			17
A001	26033 26133	4683	.15	5.14			
A001	26133 26240	5163	0.17	2.95			70
A001	26240 26301	2058	0.75	11.59	6300		
A001	26301 26380	5164	0.00	0.00			20
A001	26380 26480	4684	.15	8.23			
A001	26480 26580	2059	.15	2.40	3800		
A001	26580 26682	5165	0.17	6.24			22
A001	26900 27005	4685	.15	0.90			
A001	27981 28081	5166	0.17	2.26			26
A001	28081 28181	2060	0.62	7.35	.085		
A001	28181 28281	2061	1.47	39.84	.410		
A001	28281 28381	2062	9.33	17.62	.460		
A001	28381 28481	2063	15.84	20.26	.600		
A001	28481 28581	2064	24.43	22.79	1.180		
A001	28581 28660	2065	42.55	25.13	.370		

A001 28660 28733	2066	.15	2.95	.021	
A001 28733 28886	5167	0.17	0.00		23
A001 29188 29285	5168	0.17	0.34		16
A001 29541 29694	5169	0.00	0.00		13
A001 29694 29800	5170	0.00	0.00		15
A001 29800 29900	5171	0.00	0.00		20
A001 30449 30501	2067	.15	2.40	1680	
A001 30751 30852	4686	.15	3.98		

/END

HOLE B3CH005 BQ GRID NORTH -95.00 GRID EAST 1450.00
GRID AZINUTH OF HOLE 180.00 VERTICAL ANGLE -85.00
TRUE AZINUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 303.89mt.

Logged by: H.Thiboutot on (day/mo/yr)... FEB83
Drilled by: Bradley Bros. FEB83

FROM 0.00MT. TO 4.88MT.
OVERBURDEN

FROM 4.88MT. TO 5.33MT.
dark green FRAGMENTAL BASALT
MINOR INTERBEDDED RHYOLITE TUFF; FRBS CONTAINS
15% 5mm TO 1cm SIZED APHANITIC AND FELDSPAR PORPHYRITIC
RHYOLITIC FRAGMENTS.

FROM 5.33MT. TO 8.23MT.
dark green BASALT
Textures noted: MASSIVE
.3% QUARTZ as microveins
.3% CARBONATE as microveins
.3% EPIDOTE as microveins

FROM 8.23MT. TO 19.23MT.
brown grey RHYOLITIC TUFF
Textures noted: FRAGMENTAL , BEDDED
Structures noted: BEDDING dip 50,
.3% QUARTZ as eyes, augen
5% BIOTITE as pervasive mineralization
.3% CARBONATE as microveins
.1% PYRITE as disseminations and scattered crystals
.01% MUSCOVITE as disseminations and scattered crystals
.1% CHLORITE as microveins
.3% EPIDOTE as microveins
CORE NORMALS ARE VARIABLE: VARYING UP TO 75 TO 80 DEG.
LOCAL LAPILLI SIZED FRAGMENTS.
1433 1698 FINE GRAINED ANYGDULAR BASALT WITH MINOR INTERBEDDED
RHYOLITE.

FROM 19.23MT. TO 23.07MT.
dark green BASALT with AMPHIBOLES , ,
Textures noted: FRAGMENTAL , MASSIVE
.3% QUARTZ as microveins
.3% BIOTITE as laminations, bedded
.3% CARBONATE as microveins
.01% PYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals
INTERBEDDED MASSIVE AND FRAGMENTAL BASALT

FROM 23.07MT. TO 37.89MT.
brown grey CRYSTAL TUFF with K-FELDSPAR , ,
Textures noted: , BEDDED
Structures noted: BEDDING dip 50,
1% QUARTZ as eyes, augen
5% BIOTITE as pervasive mineralization

.3% CARBONATE as microveins
 1% K-FELDSPAR as eyes, augen
 RHYOLITE CRYSTAL TUFF, LOCAL LAPILLI SIZED FRAGMENTS.
 2423 2530 PROBABLE FRAGMENTAL BASALT
 2603 2627 PROBABLE FRAGMENTAL BASALT
 3316 3505 MEDIUM GRAINED MASSIVE BASALT
 3566 3639 MEDIUM GRAINED MASSIVE BASALT

FROM 37.89MT. TO 39.53MT.

dark green BASALT
 Textures noted: MASSIVE , FRAGMENTAL , PORPHYRITIC
 .3% QUARTZ as microveins
 .3% CARBONATE as microveins
 3828 3862 FRAGMENTAL BASALT
 3862 3923 WEAKLY PORPHYRITIC, 5 TO 7% 1 TO 5mm SIZED FELDSPAR
 PHENOCRYSTS
 3941 3953 FRAGMENTAL BASALT, 40% 1 TO 4mm SIZED QUARTZ-FELDSPAR
 PRORPHYRITIC FRAGMENTS.

FROM 39.53MT. TO 44.81MT.

brown grey RHYOLITE AGGLOMERATE
 5% BIOTITE as pervasive mineralization
 3953 4481 RHYOLITE AGGLOMERATE 35 TO 40% FRAGMENTS RANGING
 IN SIZE FROM 2mm TO 10cm; THERE ARE THREE TYPE OF
 FRAGMENTS: APHANITIC AND RHYOLITIC IN COMPOSITION; QUARTZ
 FELDSPAR PORPHYRITIC AND A FEW MAFIC FRAGMENTS; SOME
 INTERBEDS OF RHYOLITE TUFF ARE PRESENT.

FROM 44.81MT. TO 52.85MT.

brown grey RHYOLITIC TUFF ; CHERTY
 Textures noted: , BEDDED
 Structures noted: BEDDING dip 55,
 1% QUARTZ as microveins
 5% BIOTITE as pervasive mineralization
 .01% MUSCOVITE as disseminations and scattered crystals
 .3% CHLORITE as microveins
 .1% PYRRHOTITE as disseminations and scattered crystals
 FINELY BEDDED, VERY LOCALLY THERE ARE A FEW LAPILLI
 SIZED FRAGMENTS

FROM 52.85MT. TO 60.72MT.

dark green BASALT
 Textures noted: MASSIVE
 Structures noted: CONTACT dip 40,
 2.5% QUARTZ as microveins
 .3% CARBONATE as microveins
 MINDR FRAGMENTAL BASALT HORIZONS FROM 57.97 TO 58.12
 AND FROM 60.47 TO 60.72 METRES.

FROM 60.72MT. TO 65.68MT.

brown grey RHYOLITIC TUFF
 Textures noted: , BEDDED
 Structures noted: BEDDING dip 45,
 5% BIOTITE as pervasive mineralization
 .1% CARBONATE as eyes, augen

MINOR INTERBEDDED BASALTIC MATERIAL

FROM 65.68MT. TO 75.10MT.

med. dark grey RHYOLITE AGGLOMERATE
 Textures noted: FRAGMENTAL
 2.5% QUARTZ as microveins
 1% BIOTITE as pervasive mineralization
 .3% CARBONATE as microveins
 .01% PYRITE as disseminations and scattered crystals
 .01% MUSCOVITE as disseminations and scattered crystals
 .3% CHLORITE as disseminations and scattered crystals
 .3% EPIDOTE as microveins
 .01% PYRRHOTITE as disseminations and scattered crystals
 RHYOLITE AGGLOMERATE, 30 TO 40% 2mm TO 5cm SIZED
 FRAGMENTS, FRAGMENTS TYPES SIMILAR TO 39.53 TO 44.81
 6919 7510 GRADING INTO LAPILLI TO CRYSTAL TUFFS
 6928 7096 MEDIUM GRAINED BASALT
 7437 7510 MEDIUM GRAINED BASALT

FROM 75.10MT. TO 82.34MT.

med. dark grey CRYSTAL TUFF
 Textures noted: FRAGMENTAL
 1% QUARTZ as microveins
 2.5% BIOTITE as pervasive mineralization
 .3% CARBONATE as microveins
 .01% PYRITE as disseminations and scattered crystals
 5% CHLORITE as pervasive mineralization
 .3% EPIDOTE as microveins
 RHYOLITE LAPILLI TO CRYSTAL TUFF, 10 TO 20% 1mm TO
 1cm SIZED APHANITIC TO FELDSPAR PORPHYRITIC FRAGMENTS.
 7608 7666 MATRIX IN THIS SECTION IS BASALTIC, PROBABLE FRAGMENTAL
 BASALT

FROM 82.34MT. TO 133.53MT.

dark green BASALT
 Textures noted: MASSIVE , AMYGDALOIDAL
 1% QUARTZ as microveins
 1% CARBONATE as microveins
 .01% PYRITE as disseminations and scattered crystals
 .3% K-FELDSPAR as microveins
 .3% EPIDOTE as microveins
 9022 9023 MEGA-AMYGDULES
 10180 10402 BASALT GRADES TO A META-DACITE.
 11073 11129 MEGA-AMYGDULES
 11750 11909 MEGA-AMYGDULES
 12192 12207 WEAK DEVELOPMENT OF MEGA-AMYGDULES
 12875 12908 EPIDOTIZED AND POSSIBLY SILICIFIED BASALT

FROM 133.53MT. TO 133.96MT.

grey green FRAGMENTAL BASALT
 1% QUARTZ as microveins
 1% CARBONATE as microveins
 .3% K-FELDSPAR as microveins
 CONTAINS A FEW RHYOLITIC BANDS

FROM 133.96MT. TO 138.01MT.

brown grey RHYOLITIC TUFF
Textures noted: , BEDDED
Structures noted: BEDDING dip 50,
.3% QUARTZ as microveins
5% BIOTITE as pervasive mineralization
.1% GARNET as disseminations and scattered crystals
.3% CARBONATE as microveins
.01% PYRRHOTITE as disseminations and scattered crystals
RHYOLITE TUFF; CONTAINS UP TO 1% GARNETS FROM
135.24 TO 137.28, LAPILLI SIZED FRAGMENTS FROM
133.95 TO 135.24 METRES.

FROM 138.01MT. TO 149.81MT.

med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
1% QUARTZ as microveins
1% BIOTITE as laminations, bedded
1% CARBONATE as microveins
.01% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals

FROM 149.81MT. TO 157.12MT.

med. dark green BASALT
Textures noted: AMYGDALOIDAL , MASSIVE , FOLIATED
Structures noted: FOLIATION dip 40,
1% QUARTZ as microveins
1% BIOTITE as laminations, bedded
1% CARBONATE as microveins
.01% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals
14981 15712 15 TO 20% 1mm TO 1cm SIZED STRETCHED AMPHIBOLE METACRYSTS

FROM 157.12MT. TO 158.74MT.

med. dark green FRAGMENTAL BASALT
.3% QUARTZ as microveins
1% BIOTITE as pervasive mineralization
.3% CARBONATE as microveins
.01% PYRITE as disseminations and scattered crystals
1% CHLORITE as pervasive mineralization
.01% EPIDOTE as microveins
.01% PYRRHOTITE as disseminations and scattered crystals
FRAGMENTAL BASALT; 25 TO 30% 1mm TO 30mm SIZED
APHANITIC RHYOLITIC AND QUARTZ-FELDSPAR PORPHYRITIC
FRAGMENTS.

FROM 158.74MT. TO 162.73MT.

green grey CRYSTAL TUFF
Textures noted: , BEDDED
.1% QUARTZ as microveins
2.5% BIOTITE as pervasive mineralization
.01% MUSCOVITE as disseminations and scattered crystals
2.5% CHLORITE as pervasive mineralization

.1% EPIDOTE as microveins
RHYOLITE CRYSTAL TUFF

FROM 162.73MT. TO 192.63MT.

dark green BASALT
Textures noted: PILLOWED , FOLIATED
.3% QUARTZ as microveins
2.5% BIOTITE as selvages
.3% CARBONATE as microveins
.1% PYRITE as disseminations and scattered crystals
.1% CHALCOPYRITE as selvages
.01% PYRRHOTITE as selvages

FROM 171.30MT. TO 173.58MT.

100% of this subinterval is

dark green PORPHYRITIC BASALT with AMPHIBOLES ,
2.5% AMPHIBOLES as disseminations and scattered crystals

16700 16734 65 DEG. CORE NORMALS-ABNORMALLY HIGH
19151 19251 1 TO 2% 1mm TO 4mm SIZED GARNETS IN PILLOW SELVAGES

FROM 192.63MT. TO 205.89MT.

dark green BASALT
Textures noted: , FOLIATED
Structures noted: FOLIATION dip 25,
.3% QUARTZ as microveins
.3% CARBONATE as microveins
.3% PYRITE as disseminations and scattered crystals
.1% K-FELDSPAR as microveins

FROM 197.20MT. TO 199.80MT.

100% of this subinterval is

dark green BASALT
Textures noted: , TUFFACEOUS
Structures noted: FOLIATION dip 40,
1% QUARTZ as microveins
1% CARBONATE as microveins
1% PYRITE as disseminations and scattered crystals
2.5% K-FELDSPAR as microveins
2.5% EPIDOTE as microveins

19748 19895 WEAKLY ALTERED TUFFACEOUS BASALT, MASSIVE EPIDOTE AND
K-FELDSPAR BAND
19922 19980 META-BASALTIC TUFF

FROM 199.80MT. TO 202.95MT.

100% of this subinterval is

med. dark grey RHYOLITIC TUFF
Textures noted: , BEDDED
Structures noted: BEDDING dip 35,
.3% QUARTZ as microveins
.3% CARBONATE as microveins
.1% PYRITE as disseminations and scattered crystals
1% CHLORITE as microveins

FROM 205.89MT. TO 246.34MT.

dark green BASALT

Textures noted: MASSIVE , PILLOWED , FOLIATED
1Z QUARTZ as microveins
.3Z BIOTITE as laminations, bedded
1Z CARBONATE as microveins
.01Z PYRITE as disseminations and scattered crystals
.01Z CHALCOPYRITE as disseminations and scattered crystals
.1Z K-FELDSPAR as microveins
.1Z EPIDOTE as microveins
.01Z PYRRHOTITE as disseminations and scattered crystals

23851 23957 META-DACITE
20598 24634 BASALT IS LOCALLY CARBONATED AND FOLIATED

FROM 246.34MT. TO 252.92MT.

BASALT

Textures noted: MASSIVE , FOLIATED
Structures noted: FOLIATION dip 25,
2.5Z QUARTZ as microveins
2.5Z CARBONATE as microveins

FROM 252.95MT. TO 254.54MT.

med. dark grey META TUFF
Textures noted: , BEDDED
Structures noted: BEDDING dip 40,
1Z QUARTZ as macroveins
2.5Z BIOTITE as pervasive mineralization
1Z PYRRHOTITE as disseminations and scattered crystals
DACITIC TUFF; MINOR INTERBEDS OF RHYOLITIC AND
AND BASALTIC TUFF.

FROM 254.54MT. TO 263.04MT.

med. dark green PYROXENITE ; TALCOSE
Textures noted: , MASSIVE
1Z QUARTZ as microveins
2.5Z BIOTITE as laminations, bedded
1Z CARBONATE as microveins

FROM 256.22MT. TO 257.04MT.

100Z of this subinterval is

dark grey META-DACITE
Textures noted: , MASSIVE
2.5Z BIOTITE as laminations, bedded
.1Z CHALCOPYRITE as disseminations and scattered crystals
.3Z PYRRHOTITE as disseminations and scattered crystals

25704 26027 PYROXENITE IS HIGHLY TALCOSE AND HIGHLY MAGNETIC

FROM 263.04MT. TO 265.12MT.

brown grey DACITIC TUFF
.01Z QUARTZ as microveins
5Z BIOTITE as laminations, bedded
.01Z CARBONATE as microveins
1Z PYRITE as disseminations and scattered crystals
1Z CHALCOPYRITE as disseminations and scattered crystals
1Z CHLORITE as laminations, bedded
1Z PYRRHOTITE as disseminations and scattered crystals

26420 26447 ORE ZONE; DACITIC TO CHERTY TUFF, 5 TO 10Z SULPHIDES

LAMINATIONS OF BIOTITE AND CHLORITE ARE PRESENT

FROM 265.12MT. TO 268.96MT.

med. dark green PYROXENITE
Textures noted: , MASSIVE
5% BIOTITE as pervasive mineralization
.1% PYRITE as disseminations and scattered crystals
.1% PYRRHOTITE as disseminations and scattered crystals

FROM 268.96MT. TO 271.06MT.

dark green BASALT
Textures noted: , MASSIVE
.3% QUARTZ as microveins
.3% CARBONATE as microveins

FROM 271.06MT. TO 272.49MT.

med. dark green FRAGMENTAL BASALT
.3% QUARTZ as microveins
.3% CARBONATE as microveins
.1% CHALCOPYRITE as disseminations and scattered crystals
.1% PYRRHOTITE as disseminations and scattered crystals
20 TO 25% 1mm TO 4cm SIZED APHANITIC AND FELDSPAR
PORPHYRITIC RHYOLITIC FRAGMENTS

FROM 272.49MT. TO 278.56MT.

med. dark grey RHYOLITIC TUFF
Textures noted: , BEDDED
Structures noted: BEDDING dip 30,
2.5% QUARTZ as eyes, augen
2.5% BIOTITE as pervasive mineralization
2.5% CARBONATE as microveins
.1% MARIPOSITE as laminations, bedded
.1% SERICITE as laminations, bedded

27685 27685 FUSCHITE BAND

FROM 278.56MT. TO 300.41MT.

dark green BASALT
Textures noted: MASSIVE , FOLIATED , AMYGDALOIDAL
1% QUARTZ as microveins
1% CARBONATE as microveins
.1% CHALCOPYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as disseminations and scattered crystals

FROM 285.17MT. TO 287.85MT.

100% of this subinterval is

med. dark grey PYROXENITE ; TALCOSE
Textures noted: MASSIVE
1% QUARTZ as microveins
1% CARBONATE as microveins

28587 28612 FAULT GOUGE

28950 29596 BASALT GRADUALLY BECOMING VARIOLITIC

29596 29980 WEAKLY VARIOLITIC BASALT

FROM 300.41MT. TO 303.89MT.

med. dark green BASALT

Textures noted: MASSIVE , FOLIATED
 2.5% QUARTZ as microveins
 1% BIOTITE as laminations, bedded
 2.5% CARBONATE as microveins
 1% CHALCOPYRITE as disseminations and scattered crystals
 1% PYRRHOTITE as disseminations and scattered crystals

REQH 30398 30389 END OF HOLE.
 IN-HOLE SURVEY AT 121.90 MT.
 GRID AZIMUTH OF HOLE ??? .00 VERTICAL ANGLE -85.00
 IN-HOLE SURVEY AT 243.84 MT.
 GRID AZIMUTH OF HOLE ??? .00 VERTICAL ANGLE -80.00
 IN-HOLE SURVEY AT 300.84 MT.
 GRID AZIMUTH OF HOLE ??? .00 VERTICAL ANGLE -74.00

NOTE: THERE ARE NO AZIMUTHS FOR DRILLHOLE DEVIATION.
 PROBLEM WITH DOWN HOLE SURVEY.

A001							
AUMM		GNTAU	GNTAG	PPNCU	CU %	PPNZN	ZN %
ALAB		CHMTC	CHMTC	CHMTC	CHMTC	CHMTC	CHMTC
ATYP		H-COR	H-COR	H-COR	H-COR	H-COR	H-COR
AMTH		FA	FA	AA		AA	
A001	19151 19251	1968	.15	1.77	210		
A001	25326 25426	4687	.15	2.06			
A001	25426 25521	5172	0.17	0.17		25	
A001	25521 25603	5173	0.17	0.00			
A001	25603 25704	4688	.15	8.30			
A001	26304 26420	1969	.15	0.55	55		
A001	26420 26447	1970	9.30	0.86	1240		
A001	26447 26512	1971	0.34	.15	338		
A001	26512 26612	5174	0.17	0.17			
A001	27158 27258	4689	.15	2.74			
A001	27258 2741	5175	0.17	0.00			
A001	2741 27563	5176	0.17	0.34			
A001	27563 27715	5177	0.17	0.89			
A001	27715 2781	5178	0.17	0.00			
A001	28316 28417	4690	.15	0.00			
A001	29069 29169	4691	.15	2.06			
A001	29678 29779	4692	.15	3.43			

RASY NOTE: TRACE VALUE = 0.15
 /END

HOLE 83CH006 DG GRID NORTH -300.00 GRID EAST 1325.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -80.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 205.13mt.

Logged by: H.Thiboutot on (day/mo/yr)... FEB83
Drilled by: Bradley Bros. FEB83

FROM 0.00MT. TO 20.75MT.
OVERBURDEN

FROM 20.75MT. TO 31.36MT.
med. dark grey RHYOLITIC TUFF
Textures noted: , BEDDED
Structures noted: BEDDING dip 40,
.3% QUARTZ as microveins
.01% GARNET as disseminations and scattered crystals
.3% CARBONATE as microveins
.1% PYRITE as disseminations and scattered crystals
.3% SERICITE as pervasive mineralization
.1% PYRRHOTITE as disseminations and scattered crystals

2118 2133 MAFIC BAND

FROM 31.36MT. TO 149.87MT.
dark green BASALT
Textures noted: MASSIVE , PILLOWED , FLOW BRECCIA , AMYGDALOIDAL
.3% QUARTZ as microveins
.3% BIOTITE as disseminations and scattered crystals
.3% CARBONATE as microveins
.01% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
1% K-FELDSPAR as microveins
.01% PYRRHOTITE as disseminations and scattered crystals

3136 14987 FRESH MASSIVE TO PILLOWED, AMYGDULAR, FLOW BRECCIATED BASALT
3276 3322 FRAGMENTAL BASALT, 10 TO 15%, 1 TO 2cm SIZED
APHANITIC AND FELDSPAR PORPHYRITIC RHYOLITE FRAG.S
3316 3322 RHYOLITE TUFF BAND

FROM 33.16MT. TO 33.22 MT.
100% of this subinterval is

dark green BASALT with AMPHIBOLES , ,
Textures noted: , PORPHYRITIC
1% QUARTZ as microveins
.1% CARBONATE as microveins
.01% K-FELDSPAR as microveins

BASALT CONTAINS 15 TO 20% AMPHIBOLE METACRYSTS RANGING IN
SIZE FROM 3mm TO 5mm, LOCALLY UP TO 15mm IN SIZE.

5632 5651 ACID DYKE
7327 8278 FREQUENT QUARTZ-CARBONATE VEINING
9357 9982 DRAG FOLDING, ABUNDANT QUARTZ CARBONATE VEINING

FROM 149.87MT. TO 163.74MT.
dark green BASALT
Textures noted: MASSIVE , FOLIATED
1% QUARTZ as microveins
1% CARBONATE as microveins

.3% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals
MEDIUM TO COARSE GRAINED BASALT.

FROM 163.74MT. TO 171.24MT.

med. dark grey RHYOLITIC TUFF ; CHERTY
Textures noted: , BEDDED
Structures noted: BEDDING dip 30,
1% BIOTITE as pervasive mineralization
2.5% CHLORITE as microveins

FROM 164.35MT. TO 169.83MT.

100% of this subinterval is

med. dark grey RHYOLITIC TUFF ; CHERTY
Textures noted: , BEDDED
Structures noted: BEDDING dip 30,
1% BIOTITE as pervasive mineralization
5% PYRITE as disseminations and scattered crystals
5% CHALCOPYRITE as disseminations and scattered crystals
2.5% CHLORITE as microveins
5% PYRRHOTITE as disseminations and scattered crystals

ORE ZONE: HOST ROCK IS A RHYOLITIC (LOCALLY CHERTY)
FINE GRAINED TUFF CONTAINING 10 TO 20%
SULPHIDES (PO, PY, CPY). SULPHIDES ESSENTIALLY
IN THE FORM OF STRINGERS AND DISSEMINATIONS,
CORE NORMALS VARY BETWEEN 20 AND 30 DEG.

16456 16535 FAULT ZONE: FAULT GOUGE PRESENT; FAULT HEALED BY
CARBONATE AND MAFIC MATERIAL, 0.79 METRES OF ORE MATERIAL
LOST
16758 16804 VERY WEAKLY MINERALIZED WELL BEDDED RHYOLITIC TUFF
16919 16950 VERY WEAKLY MINERALIZED WELL BEDDED RHYOLITIC TUFF

FROM 171.24MT. TO 205.13MT.

dark green BASALT
Textures noted: FOLIATED , MASSIVE
.3% QUARTZ as microveins
1% BIOTITE as laminations, bedded
.3% CARBONATE as microveins
.01% CHALCOPYRITE as disseminations and scattered crystals
.01% K-FELDSPAR as disseminations and scattered crystals
2.5% PYRRHOTITE as disseminations and scattered crystals

17160 17194 RHYOLITE TUFF
17343 17425 RHYOLITE TUFF
17989 18227 MASSIVE PYROXENITE
18861 18998 WEAKLY VARIOLITIC BASALT
19105 19205 MASSIVE PYROXENITE
19333 19486 MASSIVE PYROXENITE
19608 19864 MASSIVE PYROXENITE

REQM 20513 20513 END OF HOLE.
IN-HOLE SURVEY AT 93.57 MT.
GRID AZIMUTH OF HOLE ??? 00 VERTICAL ANGLE -75.00
IN-HOLE SURVEY AT 205.13 MT.
GRID AZIMUTH OF HOLE ??? 00 VERTICAL ANGLE -70.00

A001
AUMM

GNTAU GNTAG PPMCU CU % PPMZN ZN %

ALAB			CHMTC	CHMTC	CHMTC	CHMTC	CHMTC	CHMTC
ATYP			H-COR	H-COR	H-COR	H-COR	H-COR	H-COR
AMTH			FA	FA	AA		AA	
A001	4944	4986	2068	.15	000	3780		
A001	13219	13319	4693	.15	000			
A001	15047	15147	4694	.15	3.36			
A001	16289	16374	2069	.15	2.19	342		
A001	16374	16435	2070	.15	1.03	227		
A001	16435	16456	2071	.15	1.47	460		
A001	16456	16535	2072	.15	7.65	342		
A001	16535	16635	2073	3.40	23.66	6240		
A001	16635	16758	2074	8.43	16.22	1990		
A001	16758	16804	2075	0.45	2.85	142		
A001	16804	16919	2636	1.75	11.42	1960		
A001	16919	16950	2637	.15	1.51	318		
A001	16950	16984	2638	0.89	10.59	1260		
A001	16984	17084	2639	.15	3.81	126		
A001	17084	1719	5179	0.17	3.98			
A001	1719	17346	5180	0.17	0.34			
A001	17346	17498	5181	0.17	0.00			
A001	17498	1765	5182	0.17	0.00			
A001	19485	19686	4695	.15	6.80			
A001	19686	1978	4696	.15	4.87			

RASY
/END

NOTE: TRACE VALUE = 0.15

HOLE 83CH007 BR GRID NORTH -330.00 GRID EAST 1950.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -85.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 188.06mt.

Logged by: H.Thiboutot on (day/mo/yr)... FEB83
Drilled by: Bradley Bros. FEB83

FROM 0.00MT. TO 5.18MT.
OVERBURDEN

FROM 5.18MT. TO 10.85MT.
dark green GABBRO
Textures noted: , MASSIVE
.3Z QUARTZ as microveins
.3Z CARBONATE as microveins
MINOR GRANODIORITIC AND GRANITIC DYKES

FROM 10.85MT. TO 34.75MT.
dark green BASALT
Textures noted: MASSIVE , FLOW BRECCIA , AMYGDALOIDAL
1Z QUARTZ as microveins
1Z CARBONATE as microveins
.01Z CHALCOPYRITE as disseminations and scattered crystals
1585 1661 GRANITIC DYKE
2377 2527 GRANODIORITE DYKE

FROM 34.75MT. TO 49.99MT.
med. dark grey GRANODIORITE
Textures noted: MASSIVE
1Z QUARTZ as microveins
1Z CARBONATE as microveins
.01Z PYRITE as disseminations and scattered crystals
1Z K-FELDSPAR as microveins
.01Z PYRRHOTITE as disseminations and scattered crystals
3475 4999 BASALTIC XENOLITHS VARYING IN SIZE FROM 1cm TO 1metre

FROM 49.99MT. TO 70.29MT.
dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL , FLOW BRECCIA
1Z QUARTZ as microveins
1Z CARBONATE as microveins

FROM 70.29MT. TO 71.81MT.
dark green PORPHYRITIC BASALT
Textures noted: PORPHYRITIC
.3Z QUARTZ as microveins
.3Z CARBONATE as microveins
20 TO 25Z 1mm TO 1cm SIZED FELDSPAR LATHS

FROM 71.81MT. TO 131.34MT.
BASALT
Textures noted: MASSIVE , FLOW BRECCIA , FOLIATED , AMYGDALOIDAL
1Z QUARTZ as microveins
1Z BIOTITE as laminations, bedded
1Z CARBONATE as microveins

.1% PYRITE as disseminations and scattered crystals
 .1% PYRRHOTITE as disseminations and scattered crystals
 7373 7409 GRANODIORITE
 7675 7797 FINE GRAINED, BEDDED RHYOLITIC TUFF; 40 DEG. TO CORE NORMAL
 8534 8559 POSSIBLE MEGA-AMYGDULES

FROM 85.59MT. TO 92.02MT.

100% of this subinterval is

med. dark grey RHYOLITIC TUFF ; CHERTY

Textures noted: , BEDDED

Structures noted: BEDDING dip 35,

.1% QUARTZ as eyes, augen

.3% BIOTITE as laminations, bedded

.1% CARBONATE as microveins

.01% PYRITE as disseminations and scattered crystals

9202 9504 FOLIATED, BIOTIZED AND LOCALLY TUFFACEOUS; SECTION
 ALSO INCLUDES A RHYOLITIC TUFF BAND

FROM 95.07MT. TO 98.82MT.

100% of this subinterval is

med. dark green BASALT with AMPHIBOLES ,

.3% QUARTZ as microveins

BASALT CHARACTERIZED BY 30 TO 35% AMPHIBOLE METACRYSTS
 RANGING IN SIZE FROM 1mm TO 5mm

9815 9863

FINE GRAINED BASALTIC FLOW

10150 10223

HEAVILY BIOTIZED TUFFACEOUS BASALT; 40 DEG. TO CORE NORMAL

10314 10561

FOLIATED TUFFACEOUS BASALT; BIOTITE LAMINATIONS
 FROM 103.42 TO 104.73 METRES ; A FEW GARNETS

10759 10866

DACITE TUFF

11076 11107

BASALT WITH AMPHIBOLE METACRYSTS

11125 11201

META DACITE

11201 11469

BASALT WITH AMPHIBOLE METACRYSTS

11469 11860

META DACITE WITH MINOR DISSEMINATED PO.

FROM 131.34MT. TO 146.21MT.

dark green GABBRO

Textures noted: MASSIVE

.3% QUARTZ as microveins

.3% CARBONATE as microveins

FROM 146.21MT. TO 149.14MT.

dark green BASALT

Textures noted: MASSIVE , TUFFACEOUS , FOLIATED

1% QUARTZ as microveins

5% BIOTITE as laminations, bedded

1% CARBONATE as microveins

FROM 149.14MT. TO 150.94MT.

brown grey RHYOLITIC TUFF ; CHERTY

Textures noted: , BEDDED

Structures noted: BEDDING dip 30,

.3% QUARTZ as microveins

2.5% BIOTITE as laminations, bedded

.1% GARNET as disseminations and scattered crystals

1% CHLORITE as microveins

15063 15088 INTERMEDIATE TO BASIC TUFF BAND

FROM 150.94MT. TO 151.64MT.

medium grey CHERTY TUFF ; CHERTY
Textures noted: , TUFFACEOUS
.3% CARBONATE as microveins
5% PYRITE as microveins
5% CHALCOPYRITE as microveins
2.5% CHLORITE as laminations, bedded
5% PYRRHOTITE as microveins

15094 15164 ORE ZONE: CHERTY TUFF WITH 15 TO 20% SULPHIDES
CONSISTING OF 5 TO 7% PY, 5 TO 7% PO, AND
5% CPY IN A SILICEOUS MATRIX

15094 15124 0.3 METRES LOST CORE OPEN FISSURE

FROM 151.64MT. TO 154.02MT.

med. dark green PYROXENITE
Textures noted: , MASSIVE
1% QUARTZ as microveins
.3% CARBONATE as microveins
CORE IS BADLY BROKEN UP

FROM 154.02MT. TO 160.26MT.

dark green BASALT
Textures noted: MASSIVE
1% QUARTZ as microveins
.3% BIOTITE as disseminations and scattered crystals
1% CARBONATE as microveins
.3% K-FELDSPAR as microveins
BASALT LOCALLY GRADES TO A DACITE

FROM 160.26MT. TO 185.17MT.

med. dark green PYROXENITE ; TALCOSE
Textures noted: , MASSIVE , FOLIATED
.3% QUARTZ as microveins
10% BIOTITE as laminations, bedded
.3% CARBONATE as microveins
.01% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
.1% PYRRHOTITE as disseminations and scattered crystals

16298 16368 MEDIUM GRAINED BASALT
16474 16983 MINDR INTERBEDDED BASALTIC MATERIAL
17252 17281 PROBABLE FAULT ZONE
17739 18072 PYROXENITE IS HIGHLY TALCOSE AND MAGNETIC

FROM 185.17MT. TO 188.06MT.

dark green BASALT
Textures noted: VARIOLITIC , MASSIVE
1% QUARTZ as microveins
1% BIOTITE as laminations, bedded
1% CARBONATE as microveins
.01% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
.1% PYRRHOTITE as disseminations and scattered crystals
WEAKLY VARIOLITIC BASALT

REGH 18806 18806 END OF HOLE.
 IN-HOLE SURVEY AT 106.68 MT.
 GRID AZIMUTH OF HOLE ??? .00 VERTICAL ANGLE -80.00
 IN-HOLE SURVEY AT 185.93 MT.
 GRID AZIMUTH OF HOLE ??? .00 VERTICAL ANGLE -75.00

NOTE: THERE ARE NO AZIMUTHS FOR DEVIATION OF DRILLHOLE.

A001										
AURN			GMTAU	GMTAG	PPNCU	CJ	Z	PPMZN	ZM	Z
ALAB			CHMTC	CHMTC	CHMTC	CHMTC	CHMTC	CHMTC	CHMTC	CHMTC
ATYP			H-COR	H-COR	H-COR	H-COR	H-COR	H-COR	H-COR	H-COR
ANTH			FA	FA	AA			AA		
A001	1292	12972	4697	.15	2.67					
A001	13014	13115	4698	.15	3.43					
A001	14599	14700	4699	.15	000					
A001	14700	14853	5183	0.17	0.17					
A001	14853	14914	5184	0.17	0.00					
A001	14914	14993	5185	0.17	1.44					
A001	14993	15093	1972	.15	.15	160				
A001	15093	15163	1973	4.01	6.79	6120				
A001	15163	15263	1974	.15	.15	127				
A001	15264	15417	5186	0.17	3.15					
A001	17428	17461	4700	.15	000					
A001	17462	17535	5187	0.17	0.55					
A001	17535	17556	1975	1.58	.15	202				
A001	17556	17657	5188	0.17	0.89					

NOTE: TRACE VALUE = 0.15

/END

HOLE 83CH008 BQ GRID NORTH -20.00 GRID EAST 1400.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -85.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 364.85mt.
Logged by: H.Thiboutot on (day/mo/yr)... FEB83
Drilled by: Bradley Bros. FEB83

FROM 0.00MT. TO 3.05MT.
OVERBURDEN

FROM 3.05MT. TO 8.87MT.
green grey CRYSTAL TUFF
.3% QUARTZ as microveins
.1% BIOTITE as disseminations and scattered crystals
.3% CARBONATE as microveins
2.5% CHLORITE as pervasive mineralization
.3% EPIDOTE as pervasive mineralization
RHYOLITE CRYSTAL TO LOCALLY LAPILLI TUFFS; 15 TO 25%
RHYOLITIC AND FELDSPAR PORPHYRITIC GRAINS FROM 1mm TO
(FELDSPAR CRYSTALS) TO 1cm IN SIZE

FROM 5.12MT. TO 6.77MT.
100% of this subinterval is
dark grey GRANODIORITE
Textures noted: MASSIVE
.1% CARBONATE as microveins
.1% EPIDOTE as microveins
.1% PYRRHOTITE as disseminations and scattered crystals

783 823 AGGLOMERATIC ZONE; FRAGMENTS UP TO 4cm IN THICKNESS

FROM 8.87MT. TO 9.20MT.
dark green BASALT
Textures noted: , FRAGMENTAL
.3% QUARTZ as microveins
.3% CARBONATE as microveins
FRAGMENTAL BASALT; 15 TO 20% 1mm TO 1cm SIZED
APHANITIC AND FELDSPAR PORPHYRITIC RHYOLITE
FRAGMENTS; SOME FRAGMENTS APPEAR BLEACHED

FROM 9.20MT. TO 52.18MT.
dark green DIORITE with AMPHIBOLES , FELDSPAR ,
Textures noted: , MASSIVE
.3% QUARTZ as microveins
.3% CARBONATE as microveins
1% PYRITE as disseminations and scattered crystals
.1% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals

920 1161 QUARTZ FELDSPAR PORPHYRY DYKE ; K-SPAR AND EPIDOTE
VEINLETS

1161 5218 MASSIVE COARSE GRAINED DIORITE, FELDSPAR AND AMPHIBOLE
CRYSTALS 1mm TO 5mm IN SIZE.

1789 1881 GRANITE DYKE

2926 5218 DIORITE CHANGES; PROPORTION OF AMPHIBOLES INCREASES
TO 35 TO 40%, AMPHIBOLES UP TO 1cm IN LENGTH

FROM 52.18MT. TO 74.62MT.
 dark green BASALT
 Textures noted: MASSIVE , AMYGDALOIDAL
 1% QUARTZ as microveins
 1% CARBONATE as microveins
 .01% PYRITE as disseminations and scattered crystals
 .01% CHALCOPYRITE as disseminations and scattered crystals
 .01% K-FELDSPAR as microveins
 .1% EPIDOTE as microveins

5770 6163 DARK GREY FINE GRAINED DACITIC TO RHYOLITIC TUFF
 50 DEG. CORE NORMAL

6355 6376 GRANITIC DYKE

6480 6727 FRAGMENTAL BASALT

6727 6885 RHYOLITIC TUFF WITH BASALTIC BAND; LAST 0.15 metres
 RESEMBLES FRAGMENTAL BASALT

7163 7211 FRAGMENTAL BASALT

7269 7355 FRAGMENTAL BASALT WITH RHYOLITIC TUFF BAND

FROM 74.62MT. TO 83.18MT.
 green grey RHYOLITIC TUFF
 Textures noted: , BEDDED
 Structures noted: BEDDING dip 50,
 .3% QUARTZ as microveins
 .3% CARBONATE as microveins
 .01% PYRITE as disseminations and scattered crystals
 2.5% CHLORITE as pervasive mineralization
 .01% EPIDOTE as microveins

7762 8318 SOME PINK CARBONATE PRESENT

7577 7614 BASALTIC FLOW

7696 7903 DACITIC FLOW

8220 8245 BASALTIC FLOW

8245 8275 FRAGMENTAL BASALT

FROM 83.18MT. TO 87.23MT.
 brown grey CRYSTAL TUFF
 1% QUARTZ as eyes, augen
 5% BIOTITE as pervasive mineralization
 .1% CARBONATE as microveins
 10% K-FELDSPAR as clasts
 RHYOLITIC CRYSTAL TUFF; LOCALLY AGGLOMERATICIN
 APPERARANCE, MATRIX IS BASALTIC FROM 86.44 TO 87.25

FROM 87.23MT. TO 91.77MT.
 dark green BASALT with AMPHIBOLES ,
 Textures noted: MASSIVE , AMYGDALOIDAL
 .1% QUARTZ as microveins
 .1% CARBONATE as microveins
 BASALT; 30% 1 TO 2mm SIZED AMPHIBOLES

FROM 91.77MT. TO 97.08MT.
 brown grey RHYOLITIC TUFF ; CHERTY
 Textures noted: , BEDDED
 Structures noted: BEDDING dip 40,
 5% BIOTITE as pervasive mineralization
 WELL BEDDED RHYOLITIC TO CHERTY TUFF, LOCALLY LAPILLI

SIZED FRAGMENTS.

9388 9495 VERY NICE FRAGMENTAL BASALT
9546 9650 VERY NICE FRAGMENTAL BASALT

FROM 97.08MT. TO 101.13MT.

brown grey LAPILLI TUFF
Textures noted: , BEDDED
Structures noted: BEDDING dip 45,
.3% QUARTZ as eyes, augen
2.5% BIOTITE as pervasive mineralization
.3% CARBONATE as microveins

9708 9767 WEAKLY (3 TO 5%, 1 TO 3mm SIZED FELDSPAR LATHS)
PORPHYRITIC BASALT
10098 10113 FRAGMENTAL BASALT

FROM 101.13MT. TO 102.78MT.

dark green BASALT
Textures noted: , MASSIVE
.3% QUARTZ as microveins
.3% CARBONATE as microveins

FROM 102.78MT. TO 116.53MT.

brown grey RHYOLITIC TUFF
Textures noted: , BEDDED
Structures noted: BEDDING dip 30,
1% QUARTZ as eyes, augen
2.5% BIOTITE as pervasive mineralization
.3% CARBONATE as microveins
.1% K-FELDSPAR as microveins
.3% CHLORITE as disseminations and scattered crystals
.3% EPIDOTE as microveins

10616 10738 BASALTIC FLOW
10915 11064 MASSIVE BASALT
11064 11122 FRAGMENTAL BASALT; MINOR TUFF BAND

FROM 116.53MT. TO 120.79MT.

brown grey RHYOLITE AGGLOMERATE
.3% QUARTZ as microveins
2.5% BIOTITE as pervasive mineralization
.3% CARBONATE as microveins
RHYOLITIC AGGLOMERATE; 30 TO 40% 1mm TO 5cm SIZED
APHANITIC TO PORPHYRITIC FRAGMENTS

FROM 120.79MT. TO 131.22MT.

brown grey LAPILLI TUFF
Textures noted: , BEDDED
Structures noted: BEDDING dip 40,
1% QUARTZ as eyes, augen
5% BIOTITE as pervasive mineralization
.3% CARBONATE as microveins
.3% SERICITE as laminations, bedded
.1% PYRRHOTITE as disseminations and scattered crystals
RHYOLITE LAPILLI TUFF, FRAGMENT SIZED IN THIS SECTION
VARIES FROM FINE GRAINED TO AGGLOMERATIC: FROM 126.78
TO 128.32 UP TO 50% FRAGMENTS FROM 1mm TO 2cm IN SIZE

12558 12580 BASALTIC BAND
12625 12677 BASALT
13006 13030 BASALT
13091 13122 BASALT

FROM 131.22MT. TO 138.07MT.

brown grey CRYSTAL TUFF
Textures noted: , BEDDED
Structures noted: BEDDING dip 35,
1% QUARTZ as eyes, augen
1% BIOTITE as pervasive mineralization
.3% CARBONATE as microveins
20% K-FELDSPAR as clasts
RHYOLITE CRYSTAL TUFF; MINOR RHYOLITIC TUFF
BANDS; 10 TO 15% 1 TO 3mm FELDSPAR CRYSTALS
BASALTIC MATRIX FROM 136.98 TO 137.13 AND
FROM 137.68 TO 138.0 M.

13183 13259 BASALTIC FLOW
13615 13661 WEAKLY PORPHYRITIC BASALT, 3 TO 5% 1 TO 3mm SIZED
FELDSPAR LATHS

FROM 138.07MT. TO 194.55MT.

dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
1% QUARTZ as microveins
1% CARBONATE as microveins
.01% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
.01% K-FELDSPAR as microveins
.1% EPIDOTE as microveins
.01% PYRRHOTITE as disseminations and scattered crystals

14280 19455 BASALT IS MEGA-AMYGDULAR

FROM 194.55MT. TO 196.20MT.

dark grey META-DACITE
Textures noted: , MASSIVE
2.5% QUARTZ as microveins
.3% CARBONATE as microveins
.3% PYRITE as disseminations and scattered crystals
2.5% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals

19589 19620 PORPHYRITIC BASALT; 10 TO 15% 1mm TO 5mm FELDSPAR LATHS

FROM 196.20MT. TO 204.55MT.

BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
1% QUARTZ as microveins
1% CARBONATE as microveins
.01% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
3G D.

FROM 204.55MT. TO 207.26MT.

PORPHYRITIC BASALT
Textures noted: , PORPHYRITIC

.3% QUARTZ as microveins
1% BIOTITE as laminations, bedded
.3% CARBONATE as microveins
PORPHYRITIC BASALT; 15 TO 20% 1mm TO 7mm SIZED
FELDSPAR PHENOCRYSTS, THE LAST 0.6 M BECOMES FRAGMENTAL.

FROM 207.26MT. TO 208.79MT.

dark green FRAGMENTAL BASALT
Textures noted: , BRECCIATED
.1% QUARTZ as microveins
1% BIOTITE as laminations, bedded
.1% CARBONATE as microveins
30 TO 35% 1mm TO 2cm SIZED ACID APHANITIC AND
PORPHYRITIC (FELDSPAR) FRAGMENTS

FROM 208.79MT. TO 212.32MT.

dark grey CRYSTAL TUFF
.1% QUARTZ as microveins
1% BIOTITE as disseminations and scattered crystals
.3% CARBONATE as microveins
2.5% CHLORITE as disseminations and scattered crystals
.3% EPIDOTE as microveins
10% FELDSPAR as clasts

20879 21232 RHYOLITE CRYSTAL TUFF INTERBEDDED (210.86-211.32)
WITH FRAGMENTAL BASALT

FROM 212.32MT. TO 242.53MT.

dark green BASALT
Textures noted: PILLOWED , ANYSDALOIDAL
1% QUARTZ as microveins
5% BIOTITE as selvages
1% CARBONATE as microveins
.01% CHALCOPYRITE as disseminations and scattered crystals
.01% EPIDOTE as microveins
.01% PYRRHOTITE as disseminations and scattered crystals
BIOTIZED PILLOW RIMS

22942 22945 MASSIVE CPY-PO IN QUARTZ VEIN

FROM 242.53MT. TO 243.44MT.

dark green FRAGMENTAL BASALT
.3% PYRRHOTITE as disseminations and scattered crystals

FROM 243.44MT. TO 256.58MT.

med. dark grey RHYOLITIC TUFF ; CHERTY
Textures noted: , BEDDED
Structures noted: BEDDING dip 30,
.3% QUARTZ as microveins
.01% GARNET as disseminations and scattered crystals
.3% CARBONATE as microveins
.1% PYRITE as disseminations and scattered crystals
1% CHLORITE as disseminations and scattered crystals
.1% PYRRHOTITE as disseminations and scattered crystals
PROBABLE INTERBEDDED DACITIC TO PHYOLITIC FLOWS

FROM 247.83MT. TO 252.86MT.

100% of this subinterval is

dark green BASALT

Textures noted: MASSIVE , AMYGDALOIDAL

25527 25658 FRAGMENTAL BASALT; MINOR RHYOLITE CRYSTAL TUFF BAND

FROM 256.58MT. TO 268.53MT.

dark green BASALT

Textures noted: MASSIVE , PILLOWED , AMYGDALOIDAL

.3% QUARTZ as microveins

.3% CARBONATE as microveins

.1% CHALCOPYRITE as disseminations and scattered crystals

.1% PYRRHOTITE as disseminations and scattered crystals

FROM 268.53MT. TO 282.40MT.

dark green DIORITE

Textures noted: MASSIVE

.3% QUARTZ as microveins

.3% CARBONATE as microveins

.1% PYRITE as disseminations and scattered crystals

.01% EPIDOTE as spots

.1% PYRRHOTITE as disseminations and scattered crystals

FROM 282.40MT. TO 299.00MT.

dark green BASALT

Textures noted: MASSIVE , PILLOWED , FLOW BRECCIA

1% QUARTZ as microveins

1% CARBONATE as microveins

.01% CHALCOPYRITE as disseminations and scattered crystals

.01% PYRRHOTITE as disseminations and scattered crystals

28752 28837 PYROXENITIC DYKE

FROM 299.00MT. TO 306.93MT.

dark green BASALT

Textures noted: MASSIVE , FOLIATED

Structures noted: FOLIATION dip 30,

1% QUARTZ as microveins

1% BIOTITE as laminations, bedded

1% CARBONATE as microveins

.01% PYRRHOTITE as disseminations and scattered crystals

FROM 306.93MT. TO 324.09MT.

dark green BASALT

Textures noted: MASSIVE

.3% QUARTZ as microveins

.3% CARBONATE as microveins

FROM 324.09MT. TO 327.90MT.

med. dark green DACITIC TUFF

.3% QUARTZ as microveins

2.5% CARBONATE as microveins

2.5% PYRITE as disseminations and scattered crystals

.3% K-FELDSPAR as microveins

.3% EPIDOTE as microveins

FROM 325.07MT. TO 326.56MT.

100% of this subinterval is

med. dark green MAFIC TUFF
Textures noted: BEDDED
Structures noted: BEDDING dip 30,
.3% QUARTZ as microveins
.3% CARBONATE as microveins
2.5% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
.3% K-FELDSPAR as microveins
.3% EPIDOTE as microveins
.01% PYRRHOTITE as disseminations and scattered crystals

32507 32656 MAFIC TUFF WITH 3 TO 5% FINE PY; TRACE PD AND CPY

FROM 327.90MT. TO 334.18MT.

dark green BASALT
Textures noted: MASSIVE
1% QUARTZ as microveins
1% CARBONATE as microveins
.3% CHALCOPYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as disseminations and scattered crystals

FROM 334.18MT. TO 341.50MT.

med. dark green PYROXENITE ; TALCOSE
Textures noted: , MASSIVE
.3% QUARTZ as microveins
.3% CARBONATE as microveins

33763 33781 PROBABLE FAULT ZONE

34113 34132 PROBABLE FAULT ZONE

FROM 341.50MT. TO 346.19MT.

med. dark grey RHYOLITIC TUFF ; CHERTY
Textures noted: , BEDDED
Structures noted: BEDDING dip 20,
.1% QUARTZ as microveins
.3% BIOTITE as disseminations and scattered crystals
.1% CARBONATE as microveins
.01% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
1% CHLORITE as pervasive mineralization

34150 34619 MINOR INTERBEDDED DACITE TUFF, BASALT FROM 343.87-344.67

FROM 346.19MT. TO 348.14MT.

dark green BASALT
Textures noted: , MASSIVE
.3% QUARTZ as microveins
.3% CARBONATE as microveins
.01% CHALCOPYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals
MINOR RHYOLITE BEDS

FROM 348.14MT. TO 356.71MT.

dark green BASALT
Textures noted: , MASSIVE
.3% QUARTZ as microveins
.3% CARBONATE as microveins

BASALT BECOMING WEAKLY VARIOLITIC

FROM 356.71MT. TO 364.85MT.

dark green BASALT
 Textures noted: , MASSIVE
 .3Z QUARTZ as microveins
 .3Z CARBONATE as microveins

35671 36104 BASALT IS VARIOLITIC

FROM 361.04MT. TO 364.24MT.

100Z of this subinterval is

med. dark green PYROXENITE
 Textures noted: , MASSIVE

REQH 36485 36485 END OF HOLE.

IN-HOLE SURVEY AT 124.05 MT.

GRID AZIMUTH OF HOLE ??? .00 VERTICAL ANGLE -80.00

IN-HOLE SURVEY AT 245.97 MT.

GRID AZIMUTH OF HOLE ??? .00 VERTICAL ANGLE -76.00

IN-HOLE SURVEY AT 363.50 MT.

GRID AZIMUTH OF HOLE ??? .00 VERTICAL ANGLE -75.00

NOTE: PROBLEM WITH THE DOWN HOLE SURVEYS.

A001									
ALUM			GNTAU	GNTAG	PPMCU	CU Z	PPMZN	ZN Z	
ALAB			CHMTC	CHMTC	CHMTC	CHMTC	CHMTC	CHMTC	
ATYP			H-COR	H-COR	H-COR	H-COR	H-COR	H-COR	
ANTH			FA	FA	AA		AA		
A001	22942	22967	2640	0.43	16.44	37600			
A001	31870	31970	4701	.15	3.57				
A001	32409	32507	2641	.15	.15	167			
A001	32507	32656	2642	0.75	7.13	254			
A001	32656	32790	2643	0.69	6.65	3420			
A001	3279	32943	5189	0.17	0.55				
A001	32943	33043	5190	0.17	1.03				
A001	33043	33147	5191	0.17	1.23			520	
A001	33147	33254	2644	1.85	5.39	382			
A001	33245	33323	4702	.15	000				
A001	33323	3347	4703	.15	0.89				
A001	3415	34272	4704	.15	000				
A001	34272	34357	5192	0.17	1.71			18	
A001	34357	34467	4705	.15	000				
A001	34467	34625	5193	0.17	2.95			29	
A001	34625	34808	5194	0.17	3.36				
A001	34808	34912	2645	.15	.15	1760			
A001	34912	35015	4706	.15	000				

/END

HOLE 83CH09A BQ GRID NORTH 1180.00 GRID EAST-5150.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -55.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 40.23mt.

Logged by: M.Drouin on (day/mo/yr)...JUN83

Drilled by: Bradley Bros. JUN83

FROM 0. MT TO 40.23 MT

OVERBURDEN

HOLE ABANDONED ; COULD NOT PUT DOWN B CASING

REQH 4023

/END

HOLE 83CH09B BQ GRID NORTH 1180.00 GRID EAST-5150.00
 GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -75.00
 TRUE AZIMUTH OF HOLE 215
 TOTAL DEPTH OF HOLE: 41.45mt.

Logged by: M.Drouin on (day/mo/yr)...JUN83
 Drilled by: Bradley Bros. JUN83

FROM 0.00MT. TO 17.68MT.
 OVERBURDEN

FROM 17.68MT. TO 41.45MT.
 med. light red GRANITE with QUARTZ,
 Textures noted: MASSIVE
 1% QUARTZ as microveins
 1% MAGNETITE as disseminations and scattered crystals
 .3% CHLORITE as microveins
 .3% EPIDOTE as disseminations and scattered crystals
 1% HEMATITE as disseminations and scattered crystals
 3109 4145 VERY POOR CORE RECOVERY DUE TO INTENSE FAULTING
 3139 3444 0.3M OF VERY BROKEN CORE RECOVERED
 3444 3566 WEAKLY TO MODERATELY CONDUCTIVE FAULT GOUGE
 3566 3871 0.46M OF BADLY BROKEN UP GRANITE RECOVERED
 3932 4145 0.82M OF BADLY BROKEN UP GRANITE RECOVERED
 HOLE ABANDONED

REQH 4145

A001

ALUM

ALAB

ATYP

AMYH

A001 2347 2447

A001 2856 2956

/END

PPB AUPPM ASPPM'CU

CHMITCCHINTCCHINTC

H-COR H-COR H-COR

AA AA AA

2767 5 0.10

2768 5 0.10

HOLE 83CH010 BQ GRID NORTH -875.00 GRID EASTS650.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -55.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 105.46mt.

Logged by: M.Drouin on (day/mo/yr)... JUN83

Drilled by: Bradley Bros. JUN83

FROM 0.00MT. TO 3.04MT.
OVERBURDEN

FROM 3.04MT. TO 65.84MT.
medium grey GRANITE
Textures noted: MASSIVE
1% QUARTZ as microveins
1% CARBONATE as microveins
5% MAGNETITE as disseminations and scattered crystals
.01% PYRITE as disseminations and scattered crystals
10% MUSCOVITE as pervasive mineralization
10% CHLORITE as pervasive mineralization
1% EPIDOTE as microveins
1% HEMATITE as microveins
304 6584 MEDIUM GRAINED DARK GREY GRANITE
3535 4855 GRANITE BECOMES FINE GRAINED
4767 4803 CORE IS HEAVILY FRACTURED
6187 6584 CORE IS BADLY BROKEN UP ; PROBABLE FAULT ZONE

FROM 65.84MT. TO 71.26MT.
med. dark green META BASALT
1% QUARTZ as microveins
5% CARBONATE as microveins
5% HEMATITE as microveins

FROM 71.26MT. TO 82.30MT.
red grey ALTERED GRANITE
2.5% QUARTZ as microveins
.3% CHLORITE as microveins
5% HEMATITE as microveins
7126 8230 SIMILAR TO PREVIOUS GREY GRANITE; HOWEVER THIS
SECTION IS CHARACTERIZED BY A PERVASIVE HEMATITE
STAINING AND FRACTURE FILLING ; CORE IN GENERAL
IS HEAVILY FRACTURED

FROM 82.30MT. TO 87.78MT.
FAULT ZONE
8230 8778 MAJOR FAULT ZONE IN GRANITE; GOOD CORE RECOVERY ;
CORE IS CLAY LIKE AND WEAKLY TO LOCALLY MODERATELY
CONDUCTIVE ; THIS SECTION EXPLAINS THE MAXIM RESPONSE

FROM 87.78MT. TO 105.46MT.
red green GRANITE
Textures noted: BRECCIATED
10% QUARTZ as microveins
2.5% CARBONATE as microveins
10% HEMATITE as pervasive mineralization
8778 10546 REDISH GRAY FINE GRAINED HIGHLY BRECCIATED -

QUARTZ HEALED , PERVASIVELY HEMATITE STAINED
NO ACID TEST POSSIBLE ; SAND IN HOLE

RSUM
REQH 10546

A001

AUMM

ALAB

ATYP

AMTH

A001 445 455

A001 6693 6793

A001 9068 9168

A001 10028 10128

/END

PPB AUPPM AGPPM CU ZCU PPM ZN

CHINTCCHINTCCHINTC

H-COR H-COR H-COR

AA AA AA

3863 5 0.20

3864 5 0.20

3865 5 0.20

3866 5 0.20

HOLE B3CH016 BQ GRID NORTH 200.00 GRID EAST-2050.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -45.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 165.81mt.

Logged by: H.Thiboutot on (day/mo/yr)...JUL83
Drilled by: Bradley Bros. JUL83

FROM 0.00MT. TO 22.0 MT.
OVERBURDEN

FROM 22.0 MT. TO 59.28MT.
green grey QUARTZ DIORITE
Textures noted: MASSIVE
2.5% QUARTZ as interstitial fillings
.01% CARBONATE as microveins
.01% PYRITE as microveins
.01% CHALCOPYRITE as microveins
.01% K-FELDSPAR as laminations, bedded
.01% PYRRHOTITE as microveins
.3% TOURMALINE as microveins
220 5928 QUARTZ DIORITE: QUARTZ VARIES FROM 1% TO 10% LO-
CALLY; GENERALLY FRESH LOOKING WITH SOME MICROVEINS
OF TOURMALINE (PO-PY AS DISSEMINATIONS)

FROM 52.3 MT. TO 54.46MT.

100% of this subinterval is

dark green BASALT with FELDSPAR ,
Textures noted: MASSIVE
.1% QUARTZ as microveins
.1% CARBONATE as microveins
5230 5446 BASALT CONTAINS 2-4% 1-4 MM SIZED FELDSPAR PHENO-
CRYSTS, PROBABLY A XENOLITH IN DIORITE

FROM 59.28MT. TO 71.32MT.

medium green BASALT
Textures noted: MASSIVE
2.5% QUARTZ as macroveins
2.5% BIOTITE as pervasive mineralization
.1% CARBONATE as microveins
.1% PYRITE as microveins
.1% CHALCOPYRITE as microveins
.1% K-FELDSPAR as microveins
2.5% PYRRHOTITE as microveins
5928 6888 BASALT IS ALTERED (WHITE SPECKLED APPEARANCE): HAS
LOCALLY A PALE GREEN COLOR DUE TO BLEACHING NUMEROUS
QUARTZ VEINS (1CM TO 20CM) WITH SULPHINES (10-15%) IN
ORDER OF IMPORTANCE PO-CPY-PY. WE ALSO HAVE A
LITTLE FELDSPAR PORPHYRY DYKE. THE QUARTZ-VEIN SYS-
TEM IN BASALT IS THE EXPLANATION OF WEAK MAX-MIN
ANOMALY (CONDUCTOR) - (61.96-62.33+65.07-65.41+65.8
60.32)
6729 6806 FELDSPAR PORPHYRY ACID DYKE DISS OF PY-PO-CPY
6662 6705 POSSIBLE VARIOLES

FROM 71.32MT. TO 75.59MT.

dark green VARIOLITIC BASALT
 1Z QUARTZ as microveins
 1Z CARBONATE as microveins
 .1Z PYRITE as disseminations and scattered crystals
 .1Z K-FELDSPAR as microveins
 .1Z PYRRHOTITE as disseminations and scattered crystals
 7132 7559 MODERATELY VARIOLITIC BASALT

FROM 75.59MT. TO 93.78MT.
 dark green BASALT
 Textures noted: MASSIVE , BANDED
 1Z QUARTZ as microveins
 1Z BIOTITE as pervasive mineralization
 1Z CARBONATE as microveins
 .3Z PYRITE as disseminations and scattered crystals
 .3Z CHALCOPYRITE as disseminations and scattered crystals
 .1Z K-FELDSPAR as microveins
 .1Z EPIDOTE as microveins
 1Z PYRRHOTITE as disseminations and scattered crystals
 7559 9378 COARSE GRAINED BASALT LAST TEN FEET HAS A PALE
 GREEN COLOR AND CONTAIN 1Z PD THROUGHOUT

FROM 93.78MT. TO 94.39MT.
 medium grey DACITIC TUFF
 Textures noted: BEDDED
 Structures noted: BEDDING dip 15,
 .3Z PYRITE as disseminations and scattered crystals
 .01Z CHALCOPYRITE as disseminations and scattered crystals
 1Z PYRRHOTITE as disseminations and scattered crystals

FROM 94.39MT. TO 97.41MT.
 medium grey DACITE
 Textures noted: MASSIVE
 1Z QUARTZ as microveins
 1Z BIOTITE as pervasive mineralization
 .1Z GARNET as disseminations and scattered crystals
 1Z CARBONATE as microveins
 1Z PYRITE as disseminations and scattered crystals
 .1Z CHALCOPYRITE as disseminations and scattered crystals
 .3Z K-FELDSPAR as microveins
 .3Z EPIDOTE as microveins
 1Z PYRRHOTITE as disseminations and scattered crystals

FROM 97.41MT. TO 111.73MT.
 med. dark green VARIOLITIC BASALT ; SILICIFIED, SILICIOUS
 Textures noted: VARIOLITIC
 1Z QUARTZ as microveins
 1Z CARBONATE as microveins
 .1Z PYRRHOTITE as disseminations and scattered crystals

FROM 100.03MT. TO 106.68MT.
 100% of this subinterval is
 grey green BASALT
 Textures noted: MASSIVE , AMYGDALOIDAL
 .3Z QUARTZ as microveins

.3% CARBONATE as microveins
.1% K-FELDSPAR as microveins
1018 10256 ALTERED LIGHT GREEN BASALT, K-FELDSPAR-CARBONATE
VEINING
11131 11173 TWO DIORITIC DYKES WITHIN BASALT (3-5 CM WIDE)

FROM 111.73MT. TO 114.54MT.

medium grey RHYOLITIC TUFF
Textures noted: BEDDED, MASSIVE
Structures noted: BEDDING dip 25,
2.5% QUARTZ as eyes, augen
.01% PYRITE as disseminations and scattered crystals
1% CHLORITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals
11356 11405 DIORITIC DYKE
11417 11439 DIORITIC DYKE

FROM 114.54MT. TO 120.88MT.

med. dark green BASALT
Textures noted: MASSIVE, AMYGDALOIDAL
1% QUARTZ as microveins
1% CARBONATE as microveins
.01% PYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals

FROM 120.88MT. TO 122.68MT.

RHYOLITE
Textures noted: MASSIVE, BANDED
Structures noted: CONTACT dip 40,
1% QUARTZ as eyes, augen
1% PYRITE as microveins
1% CHLORITE as pervasive mineralization
.3% PYRRHOTITE as disseminations and scattered crystals

FROM 122.68MT. TO 152.67MT.

QUARTZ DIORITE
Textures noted: MASSIVE
2.5% BIOTITE as pervasive mineralization
.1% MAGNETITE as disseminations and scattered crystals
.1% PYRITE as disseminations and scattered crystals
.1% PYRRHOTITE as disseminations and scattered crystals
12268 15267 QUARTZ DIORITE GRADING TO GRANODIORITE WITH MORE
THAN 20% QUARTZ AND 10% ALKALI-FELDSPAR

FROM 138.47MT. TO 140.81MT.

100% of this subinterval is

DACITE
Textures noted: MASSIVE
1% PYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as disseminations and scattered crystals
14444 14462 BASALTIC Xenolith

FROM 152.67MT. TO 165.81MT.

dark green VARIOLITIC BASALT
Textures noted: PILLOWED, VARIOLITIC

1% QUARTZ as microveins
 1% CARBONATE as microveins
 VERY GOOD LOOKING VARIOLITIC BASALT

15267 16581

REQH 16581

IN-HOLE SURVEY AT 165.81 MT.

GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -38.00

TRUE AZIMUTH OF HOLE 215

A001

ALPH	ALAB	ATYP	AMTH	GTN	AUGTH	AGPPH	CU
				CHINTC	HINTC	CHINTC	HINTC
				H-COR	H-COR	H-COR	
				FA	FA	AA	
A001	3219	3313	3894	.15	000		
A001	3922	4023	3895	.15	000		
A001	5511	5630	3896	.15	0.45	1860	
A001	5877	6032	3897	.15	000	1520	
A001	6032	6178	3898	.15	000		
A001	6178	6233	3899	.15	3.15	4620	
A001	6233	6392	3900	.15	1.95	600	
A001	6392	6507	3976	.15	000	800	
A001	6507	6544	3977	.15	3.70	5600	
A001	6544	6581	3978	.15	000	300	
A001	6581	6633	3979	.15	0.69	4920	
A001	6633	6803	3980	.15	2.98	1460	
A001	8348	8446	3981	.15	000		
A001	8647	8702	3982	.15	5.25	2300	
A001	9345	9440	3983	.15	1.78		
A001	9440	9492	3984	.15	5.31	4980	
A001	9492	9595	3985	.15	1.47	270	
A001	9193	9345	3986	.15	000		
A001	9595	9744	3987	.15	.15		
A001	9744	9897	3988	.15	000		
A001	12116	12268	3989	.15	0.86		
A001	12268	12369	3990	.15	.15		
A001	12853	13006	3991	.15	0.93		
A001	13402	13554	3992	.15	000		
A001	13695	13847	3993	.15	000		
A001	13847	13871	3994	.15	1.20		
A001	13871	13996	3995	000	000		

/END

HOLE 83CH017 8Q GRID NORTH 150.00 GRID EAST -1600.0
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -55.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 145.39mt.

Logged by: H.Thiboutot on (day/mo/yr)...JUL83

Drilled by: Bradley Bros. JUL83

FROM 0.00MT. TO 3.66MT.
OVERBURDEN

FROM 3.66MT. TO 20.08MT.
dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL , BANDED
.3Z QUARTZ as microveins
.3Z BIOTITE as pervasive mineralization
.3Z CARBONATE as microveins
1Z PYRITE as microveins
1Z CHALCOPYRITE as disseminations and scattered crystals
1Z PYRRHOTITE as microveins
366 689 POSSIBLY WEAKLY VARIOLITIC

FROM 6.89MT. TO 8.35MT.

100% of this subinterval is

brown grey DACITIC TUFF
Textures noted: BEDDED
Structures noted: BEDDING dip 20,
5Z BIOTITE as pervasive mineralization
.3Z PYRITE as microveins
.3Z MUSCOVITE as pervasive mineralization
.3Z PYRRHOTITE as microveins

689 835 DACITIC TO RHYOLITIC IN COMPOSITION

FROM 8.63MT. TO 12.95MT.

100% of this subinterval is

medium green PYROXENITE
Textures noted: MASSIVE
Structures noted: CONTACT dip 30,
.1Z MAGNETITE as disseminations and scattered crystals

FROM 13.44MT. TO 16.46MT.

100% of this subinterval is

med. light grey RHYOLITIC TUFF
Textures noted: BEDDED
Structures noted: BEDDING dip 40,
.3Z QUARTZ as microveins
1Z BIOTITE as pervasive mineralization
.3Z CARBONATE as microveins
.1Z PYRITE as microveins
.1Z CHALCOPYRITE as microveins
1Z CHLORITE as pervasive mineralization
.1Z PYRRHOTITE as microveins

FROM 20.08MT. TO 30.08MT.

medium grey RHYOLITE
Textures noted: BANDED

Structures noted: BANDING dip 30,
 1Z BIOTITE as pervasive mineralization
 1Z PYRITE as disseminations and scattered crystals
 .3Z CHALCOPYRITE as disseminations and scattered crystals
 1Z PYRRHOTITE as disseminations and scattered crystals

FROM 30.08MT. TO 35.91MT.

med. dark green BASALT with AMPHIBOLES , and 100Z
 Textures noted: PORPHYRITIC
 1Z CARBONATE as microveins
 1Z PYRITE as disseminations and scattered crystals
 1Z PYRRHOTITE as disseminations and scattered crystals
 5 TO 10Z - 2TO4MM SIZED AMPHIBOLE PHENOCRYSTS;&CONTACT
 WITH FOLLOWING RHYOLITE IS GRADATIONAL

3008 3591

FROM 35.91MT. TO 97.32MT.

medium grey
 Textures noted: MASSIVE
 .3Z QUARTZ as microveins
 10Z BIOTITE as pervasive mineralization
 .3Z CARBONATE as microveins
 5Z NARIPOSITE as pervasive mineralization
 5Z PYRITE as disseminations and scattered crystals
 1Z CHALCOPYRITE as disseminations and scattered crystals
 5Z MUSCOVITE as disseminations and scattered crystals
 10Z CHLORITE as spots
 10Z PYRRHOTITE as disseminations and scattered crystals
 RHYOLITE IS CHARACTERIZED BY ABUNDANT DARK GREEN
 CHLORITIC SPOTS
 STRONG OR PERVASIVE GREEN CARBONATE (FUCHSITE)
 ABUNDANT SULPHIDE BANDS FROM 2CM TO 10 CM IN WIDTH
 PO IS MOST ABUNDANT SULPHIDE FOLLOWED BY PY AND
 CPY (LESS THAN 1Z), 10 TO 20% TOTAL SULPHIDES

3591 9732

3779 4206

4328 4602

6139 6139

6218 6325

6325 6553

6553 6614

6614 6706

7529 7986

7925 8794

8839 9129

9556 9821

9815 9845

5MM THICK BRIGHT EMERALD GREEN (CARBONATE) BAND
 BEGINNING OF GOOD ALTERATION ; BIOTITE CONTENT
 INCREASES TWO FOLD PRIOR TO FUCHSITE
 STRONG PERVASIVE GREEN CARBONATE - FUCHSITE
 ALTERATION PRESENT CONSISTS OF BLEACHING, MINOR
 GREEN CARBONATE AND A 5CM THICK EPIDOTE RICH BAND
 HEAVY ALTERATION CONSISTING OF DERVASIVE GREEN
 CARBONATE, DISSEMINATIONS AND VEINS OF EPIDOTE
 AND 3% GARNETS AT 66.44
 SEVERAL BANDS 1-TO 3CM THICK OF GREEN CARBONATE
 ABUNDANT STRINGERS AND BANDS OF PO PY CPY; TOTAL
 SULPHIDE CONTENT VARIES BETWEEN 5 AND 20%; LESS
 THAN 1Z CPY ; MINOR FUCHSITE TO BANDING PRESENT
 SCATTERED ROUND "BALLS" AND BANDS 2 TO 4MM THICK OF
 A BLuish GREEN (TURQUOISE),RELATIVELY SOFT CARBONATE (?)
 MINERAL.
 STRONG PERVASIVE DEVELOPMENT OF GREEN CARBONATE (FUCHSIT
 ; INTENSE BIOTITE FROM 95.55 TO 97.53
 QUARTZ CARBONATE MACROVEINS WITH EPIDOTE FRACTURE FILLIN

FROM 97.32MT. TO 99.12MT.

medium grey RHYOLITIC TUFF
Textures noted: , BANDED
Structures noted: BANDING dip 15,
1Z BIOTITE as pervasive mineralization
10Z MARIPOSITE as pervasive mineralization
20Z PYRITE as disseminations and scattered crystals
20Z PYRRHOTITE as disseminations and scattered crystals

FROM 99.12MT. TO 114.91MT.

medium grey RHYOLITE
Textures noted: TUFFACEOUS , MASSIVE
5Z BIOTITE as pervasive mineralization
2.5Z PYRITE as disseminations and scattered crystals
2.5Z PYRRHOTITE as disseminations and scattered crystals
10339 10558 RHYOLITE APPEARS TOBE CHLORITIZED
10826 11491 LOCALLY TUFFACEOUS

FROM 114.91MT. TO 121.98MT.

RHYOLITE
Textures noted: MASSIVE
1Z PYRITE as disseminations and scattered crystals
20Z CHLORITE as pervasive mineralization
1Z PYRRHOTITE as disseminations and scattered crystals
11491 12198 CHLORITIZED RHYODACITE

FROM 121.98MT. TO 124.18MT.

medium white RHYOLITE
Textures noted: MASSIVE
1Z PYRITE as disseminations and scattered crystals
1Z CHALCOPYRITE as disseminations and scattered crystals
1Z PYRRHOTITE as disseminations and scattered crystals
12198 12418 WHITE(PORCELANITE) RHYOLITE,3-5Z SULPHIDE(PO-PY-CPY)

FROM 124.18MT. TO 141.98MT.

violet grey RHYOLITE
Textures noted: MASSIVE , TUFFACEOUS
1Z BIOTITE as pervasive mineralization
.3Z PYRITE as disseminations and scattered crystals
1Z CHLORITE as pervasive mineralization
.3Z EPIDOTE as microveins
.3Z PYRRHOTITE as disseminations and scattered crystals

FROM 131.93MT. TO 131.89MT.

100Z of this subinterval is

violet grey CHERY TUFF
Textures noted: , BEDDED
Structures noted: BEDDING dip 30,
.1Z BIOTITE as pervasive mineralization
.3Z GARNET as disseminations and scattered crystals
.3Z PYRITE as disseminations and scattered crystals
1Z EPIDOTE as microveins
.3Z PYRRHOTITE as disseminations and scattered crystals

FROM 131.89MT. TO 133.38MT.

100Z of this subinterval is

violet green DACITE
 Textures noted: , BANDED
 Structures noted: BANDING dip 10,

FROM 133.38MT. TO 137.22MT.
 100% of this subinterval is

violet grey RHYOLITIC TUFF
 Textures noted: , BEDDED
 Structures noted: BEDDING dip 30,
 .3% PYRITE as disseminations and scattered crystals
 .3% MUSCOVITE as laminations, bedded
 .3% PYRRHOTITE as disseminations and scattered crystals

FROM 137.22MT. TO 141.96MT.
 100% of this subinterval is

violet grey RHYOLITIC TUFF
 Textures noted: , BEDDED
 Structures noted: BEDDING dip 30,
 .3% QUARTZ as microveins
 .3% CARBONATE as microveins
 .3% PYRITE as disseminations and scattered crystals
 .3% PYRRHOTITE as disseminations and scattered crystals

13722 14196 RHYOLITIC TO DALITIC IN COMPOSITION, BLEACHED ZONE
 FROM 138.95M TO 139.08M.

FROM 141.98MT. TO 145.39MT.

med. dark green BASALT
 Textures noted: MASSIVE
 1% QUARTZ as microveins
 1% BIOTITE as microveins
 1% CARBONATE as microveins
 .3% PYRITE as microveins
 1% EPIDOTE as microveins
 .1% PYRRHOTITE as microveins

RHGH 14539

IN-HOLE SURVEY AT 111.86 MT.

GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -51.00

TRUE AZIMUTH OF HOLE 215

A001 GTM AUGTM AGPPM CUPPM ZN

AUPM

ALAB CHMITCCHINTCCHINTCCHINTC

ATYP H-COREH-COR H-COR H-COR

AMTH FA FA AA AA

A001	546	698	4003	.15	000		
A001	698	835	4004	.15	000		
A001	1349	1497	4005	.15	000		
A001	1719	1811	4006	.15	000		
A001	1914	2009	4007	.15	000		
A001	2009	2161	4008	.15	000	1000	
A001	2161	2313	4009	.15	.15	1040	
A001	2313	2466	4010	.15	1.34	1120	
A001	2466	2606	4011	.15	000	1240	
A001	2606	2755	4012	.15	000	760	
A001	2755	2908	4013	.15	000	760	
A001	2908	3011	4014	.15	000		

A001	3591	3691	4015	.15	1.41	1000	
A001	3691	3791	4016	.15	000	120	
A001	3791	3292-3892	4017	000	000	70	
A001	3892	3993	4018	000	000	70	
A001	3993	4093	4019	.15	000	126	
A001	4093	4194	4020	.15	2.85	90	12
A001	4194	4365	4021	.15	2.40	600	12
A001	4365	4465	4022	.15	1.23	1560	12
A001	4465	4566	4023	.15	1.41	1440	11
A001	4566	4666	4024	.15	0.48	920	7
A001	4666	4767	4025	.15	0.69	560	
A001	4767	4868	4501	.15	000	440	
A001	4868	4968	4502	.15	.15	540	
A001	4968	5069	4503	.15	2.16	286	
A001	5069	5169	4504	.15	000	110	
A001	5169	5270	4505	.15	000	100	
A001	5270	5370	4506	.15	000	134	
A001	5370	5471	4507	.15	000	193	
A001	5471	5572	4508	.15	1.10	92	
A001	5572	5672	4509	.15	000	183	
A001	5672	5773	4510	.15	1.89	159	
A001	5773	5873	4511	.15	1.51	120	
A001	5873	5974	4512	000	.15	122	
A001	5974	6074	4513	000	.15	163	
A001	6074	6175	4514	.15	3.19	66	
A001	6175	6275	4515	.15	.15	72	
A001	6275	6376	4516	000	000	147	
A001	6376	6477	4517	.15	3.81	107	
A001	6477	6577	4518	.15	.15	266	
A001	6577	6678	4519	.15	0.55	17	
A001	6678	6779	4520	000	000	46	
A001	6779	6879	4521	.15	.15	70	
A001	6879	698	4522	000	000	86	
A001	698	7081	4523	000	000	231	
A001	7081	7181	4524	.15	2037	193	
A001	7181	7282	4525	.15	000	69	
A001	7282	7382	4526	.15	.15	211	
A001	7382	7483	4527	000	000	83	
A001	7483	7583	4528	000	000	78	
A001	7583	7683	4529	.15	000	580	
A001	7683	7784	4530	.15	000	167	
A001	7784	7885	4531	.15	.15	204	
A001	7885	7986	4532	.15	000	366	
A001	7986	8086	4533	.15	000	520	
A001	8086	8187	4534	.15	000	135	
A001	8187	8287	4535	.15	000	334	
A001	8287	8388	4536	.15	000	1080	
A001	8388	8488	4537	.15	000	760	
A001	8488	8589	4538	.15	.15	1480	
A001	8589	8690	4539	.15	000	900	
A001	8690	8790	4540	.15	000	255	
A001	8796	8891	4541	.15	.15	165	
A001	8891	8991	4542	.15	000	342	
A001	8991	9092	4543	.15	000	72	
A001	9092	9193	4544	.15	000	153	

A001	9193	9293	4545	.15	000	91
A001	9293	9394	4546	.15	.15	218
A001	9394	9494	4547	.15	000	182
A001	9494	9595	4548	.15	000	218
A001	9595	9696	4549	.15	000	166
A001	9696	9796	4550	.15	000	63
A001	9796	9897	4551	.15	000	35
A001	9897	9997	4552	.15	000	23
A001	9997	10098	4553	.15	000	18
A001	10098	10199	4554	.15	.15	77
A001	10199	10299	4555	.15	.15	161
A001	10299	1040	4556	.15	000	200
A001	1040	1050	4557	.15	.15	178
A001	1100	1110	4558	.15	000	277
A001	11747	11847	4559	.15	000	240
A001	12198	12299	4560	.15	000	250
A001	12299	12418	4561	.15	000	258
A001	12418	1257	5195	0.17	3.98	
A00	1257	12722	5196	0.17	0.62	
A001	12722	12874	5197	0.17	2.13	
A001	12874	13027	5198	0.17	3.98	
A001	13027	13179	5199	0.17	2.81	
A001	13179	13338	5200	0.17	1.44	
A001	13338	13439	4562	.15	15.29	
A001	13439	13539	4563	.15	000	
A001	13539	13691	5201	0.17	3.63	
A001	13691	13844	5202	0.17	3.50	
A001	13844	13993	5203	0.17	0.17	
A001	13993	14094	4564	.15	0.75	480
A001	14094	14246	5204	0.17	2.13	
A001	14246	14398	5205	0.17	1.92	
A001	14398	14538	5206	0.17	8.39	
/END						

HOLE 83CH 18 BQ GRID NORTH 392.00 GRID EAST-1067.00
GRID AZINUTH OF HOLE 270.00 VERTICAL ANGLE -55.00
TRUE AZINUTH OF HOLE 305
TOTAL DEPTH OF HOLE: 130.15mt.

Logged by: H.Thiboutot on (day/mo/yr)...JUL83

Drilled by: Bradley Bros. JUL83

FROM 0.00MT. TO 1.83MT.
OVERBURDEN

FROM 1.83MT. TO 18.72MT.
dark green BASALT
Textures noted: MASSIVE , PILLOWED
1% QUARTZ as macroveins
.1% CARBONATE as microveins
.01% CHALCOPYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as microveins
183 1872 COARSE GRAINED BASALTIC FLOW

FROM 18.72MT. TO 48.00MT.
dark green BASALT with AMPHIBOLES ,
Textures noted: MASSIVE
.3% QUARTZ as microveins
.3% CARBONATE as microveins
.3% PYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as disseminations and scattered crystals
1872 4800 BASALT CHARACTERIZED BY 20-25 % 1 TO 3 MM SIZED AM-
PHIBOLE METACRYSTS CORRESPOND TO METAGABRO MAP DU-
RING FIELD WORK

FROM 48.00MT. TO 58.89MT.
BASALT
Textures noted: MASSIVE
.3% QUARTZ as microveins
.3% CARBONATE as microveins
4800 5889 GRAIN OF THIS BASALTIC UNIT VARYING FROM MEDIUM TO
COARSE GRAIN, WITH SOME AMPHIBOLE METACRYSTS ZONE
THROUGHOUT (LOCALLY WHITE SPECKLED APPEARANCE)
5791 5813 POSSIBLE FAULT ZONE, CORE IS SCHISTOSE AND BROKEN UP

FROM 58.89MT. TO 61.05MT.
medium green MAFIC TUFF
Textures noted: TUFFACEOUS , BEDDED
Structures noted: BEDDING dip 50,
.1% QUARTZ as microveins
1% BIOTITE as laminations, bedded
.1% CARBONATE as microveins
.3% PYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as disseminations and scattered crystals
5889 6105 MAFIC TUFF WITH SOME INTERBEDS OF DACITICTO RHYOLI-
TIC TUFF; WELL BEDDED

FROM 61.05MT. TO 84.43MT.
light grey RHYOLITIC TUFF
Textures noted: TUFFACEOUS , BEDDED

Structures noted: BEDDING dip 60,
.3% QUARTZ as microveins
5% BIOTITE as pervasive mineralization
.3% CARBONATE as microveins
.3% PYRITE as disseminations and scattered crystals
2.5% CHLORITE as pervasive mineralization
.3% EPIDOTE as microveins
6105 8443 RHYOLITIC TUFF, LOCALLY CRYSTAL TUFF VERY WELL BEDDED
WITH SOME CHERTY BAND, BIOTITE IS PERVASIVE
AND ALSO FORMS BANDS

FROM 69.07MT. TO 70.47MT.

100% of this subinterval is

med. light green PYROXENITE
Textures noted: MASSIVE
1% BIOTITE as pervasive mineralization
1% PYRITE as disseminations and scattered crystals
6907 7047 MASSIVE, LIGHT GREEN, SLIGHTLY MAGNETIC PYROXENITE
7135 8443 RHYOLITIC TUFF (FINE GRAINED) INTERBEDDED WITH FELD-
SPAR CRYSTAL TUFF, 50 TO CORE NORMAL

FROM 84.43MT. TO 112.32MT.

med. dark grey PYROXENITE ; TALCOSE
.1% QUARTZ as microveins
1% BIOTITE as pervasive mineralization
.1% CARBONATE as microveins
1% MAGNETITE as disseminations and scattered crystals
.01% PYRITE as disseminations and scattered crystals
8443 11232 MAGNETIC , TALCOSE PYROXENITE
9967 9973 PROBABLE FAULT ZONE, PYROXENITE IS HEAVILY SHEARED

FROM 112.32MT. TO 127.25MT.

light grey RHYOLITIC TUFF
Textures noted: BANDED
Structures noted: BANDING dip 60,
1% QUARTZ as eyes, augen
.3% CARBONATE as microveins
.1% MARIPOSITE as pervasive mineralization
.01% PYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals
11232 12725 WHITE TO LIGHT GREY, FINE GRAINED RHYOLITIC TUFF

FROM 124.6 MT. TO 126.22MT.

100% of this subinterval is

med. dark green PYROXENITE
Textures noted: MASSIVE
Structures noted: CONTACT dip 75,
5% BIOTITE as pervasive mineralization
12460 12622 NON MAGNETIC PYROXENITE

FROM 127.25MT. TO 130.15MT.

dark grey PYROXENITE ; TALCOSE
Textures noted: MASSIVE
Structures noted: CONTACT dip 50,
1% MAGNETITE as disseminations and scattered crystals

12725 13015 MAGNETIC + TALCOSE PYROXENITE

REQH 13015

IN-HOLE SURVEY AT 127.1 MT.

GRID AZIMUTH OF HOLE 270.00 VERTICAL ANGLE -51.00

TRUE AZIMUTH OF HOLE 305

IN-HOLE SURVEY AT 130.15 MT.

GRID AZIMUTH OF HOLE 270.00 VERTICAL ANGLE -51.00

TRUE AZIMUTH OF HOLE 305

A001

AUMM GTM AUGTM AGPPM CU

ALAG CHINTCCHINTCCHIMTC

ATYP H-COREH-COR H-COR

AMTH FA FA AA

A001 1618 1676 3996 000 000 100

A001 4203 4300 3997 000 2.02

A001 6907 7047 3998 000 000

A001 7275 7376 3999 .15 000

A001 794 8035 4000 .15 000

A001 11354 11448 4001 .15 000

A001 12369 12469 4002 .15 .15

/END

DLE 83CH027 BQ GRID NORTH -010.00 GRID EAST-1300.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -55.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 99.67mt.

Logged by: M.Drouin on (day/mo/yr)...JUL83
Drilled by: Bradley Bros. JUL83

FROM 0.00MT. TO 3.35MT.
OVERBURDEN

FROM 3.35MT. TO 14.02MT.
med. dark green BASALT
Textures noted: MASSIVE , FOLIATED , AMYGDALOIDAL
Structures noted: FOLIATION dip 40,
10% CARBONATE as pervasive mineralization
893 920 DACITIC FLOW

FROM 14.02MT. TO 51.45MT.
med. dark green GABBRO with AMPHIBOLES ,
Textures noted: MASSIVE
1% QUARTZ as microveins
2.5% CARBONATE as microveins
1% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
.1% PYRRHOTITE as disseminations and scattered crystals
1402 1676 GABBRO IS DIFFERENTIATED - GRADES FROM A MASSIVE
PYROXENITE TO A FINE GRAINED GABBRO CONTAINING 30%
3MM SIZED AMPHIBOLES

FROM 30.42MT. TO 32.03MT.
100% of this subinterval is
med. dark green BASALT
Textures noted: MASSIVE
Structures noted: CONTACT dip 10, CONTACT dip 50

FROM 41.33MT. TO 43.31MT.
100% of this subinterval is
med. light grey RHYOLITE
Textures noted: MASSIVE
.3% PYRITE as disseminations and scattered crystals
.3% CHALCOPYRITE as disseminations and scattered crystals
5% CLORITE as disseminations and scattered crystals
5% PYRRHOTITE as disseminations and scattered crystals
4724 4776 MASSIVE BASALT

FROM 51.45MT. TO 60.05MT.
med. dark green META TUFF
Textures noted: BANDED
Structures noted: BANDING dip 20,
10% BIOTITE as pervasive mineralization
2.5% PYRRHOTITE as disseminations and scattered crystals
SECTION CHARACTERIZED BY AN INTERBANDING OF THIN
(0.05) GREYBROWN BIOTITIC DACITE TUFF BANDS AND
OF DARK GREEN-GABBROIC IN APPEARANCE - MAFIC BANDS

FROM 60.05MT. TO 64.10MT.
 medium grey DACITIC TUFF
 Textures noted: BEDDED , BANDED
 Structures noted: BEDDING dip 40,
 2.5Z PYRITE as microveins
 1Z PYRRHOTITE as microveins
 6005 6410 WELL BEDDED; MINOR MAFIC BANDS ; COLOR VARIES FROM
 DARK GREY TO A DULL WHITE
 6203 6308 20Z SULPHIDE IN THIS SECTION CONSISTING PREDOMINATELY
 OF PO. EM RESPONSE DUE TO PO STRINGERS FOUND BETWEEN
 57 AND 67.36

FROM 64.10MT. TO 69.74MT.
 med. dark grey RHYODACITIC TUFF
 Textures noted: BEDDED , BANDED
 10Z BIOTITE as pervasive mineralization
 2.5Z MAGNETITE as disseminations and scattered crystals
 2.5Z PYRITE as disseminations and scattered crystals
 10Z PYRRHOTITE as microveins
 6766 6828 3 TO 5Z DISSEMINATE MAGNETITE CRYSTALS

FROM 69.74MT. TO 99.67MT.
 med. dark green BASALT
 Textures noted: MASSIVE , FLOW BRECCIA , BANDED
 Structures noted: BANDING dip 05,
 1Z QUARTZ as microveins
 2.5Z BIOTITE as microveins
 10Z CARBONATE as microveins
 .1Z MARIPOSITE as disseminations and scattered crystals
 2.5Z EPIDOTE as microveins
 6974 9967 BASALT CHARACTERIZED BY 5 TO 10Z QUARTZ - CARBONATE
 PATCHES OF IRREGULAR SHAPE
 7077 7163 2 TO 5Z MINISCULE GARNETS
 9601 9784 AS ABOVE

REQH 9967

IN-HOLE SURVEY AT 99.67 MT.
 GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -54.00
 TRUE AZIMUTH OF HOLE 215

A001	AUMM	6TH	AUGTM	AGPPM	CU
A001	ALAB	CHINTC	CHINTC	CHINTC	
A001	ATYP	H-COR	H-COR	H-COR	
A001	ANTH	FA	FA	AA	
A001	2194 2295	4927	.15	0.55	
A001	4139 4234	4928	.15	000	286
A001	4234 4331	4929	.15	000	178
A001	5432 5532	4930	.15	000	
A001	5532 5632	5222	0.17	1.65	
A001	5632 5699	5223	0.17	0.17	
A001	5699 58	4931	.15	000	
A001	58 59	4932	1.40	1.16	304
A001	59 6001	4933	.15	8.95	
A001	6001 6102	4934	.15	1.58	
A001	6102 6202	4935	.15	23.83	
A001	6202 6309	4936	2.40	2.33	640

A001	6309	6409	4937	1.75	25.44	172
A001	6409	651	4938	.15	62.95	
A001	651	6611	4939	1.47	22.94	62
A001	6611	6712	4940	1.92	13.68	106
A001	6712	6812	4941	.15	2.61	
A001	6812	6913	4942	.15	1.32	
A001	6913	6974	4943	.15	3.36	
A001	6974	7056	4944	.15	5.52	
A001	7056	7163	4945	.15	4.01	
A001	7163	7315	5224	0.17	0.00	
A001	7315	7467	5225	0.17	0.00	
A001	7924	8077	5226	0.17	2.03	
A001	8443	8595	5227	0.17	1.37	
A001	8747	8900	5228	0.17	0.41	
A001	9601	9753	5229	0.17	1.44	
A001	9753	9906	5230	0.17	0.00	
A001	9906	9966	5231	0.17	0.55	

/END

HOLE 83CH28 BQ GRID NORTH 290.00 GRID EAST -100.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -55.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 104.70mt.

Logged by: M.Drouin on (day/mo/yr)...JUL83
Drilled by: Bradley Bros. JUL83

FROM 0. MT- TO 1.52MT-
OVERBURDEN

FROM 1.52MT- TO 8.81MT-
med. dark green BASALT with AMPHIBOLES , FELDSPAR ,
Textures noted: MASSIVE , PORPHYRITIC , FLOW BRECCIA
1% CARBONATE as microveins
1% FELDSPAR as disseminations and scattered crystals
152 881 5% 1 TO 2MM SIZED AMPHIBOLE PHENOCRYSTS;
2% 1 TO 4MM FELDSPAR PHENOCRYSTS

FROM 8.81MT- TO 9.42MT-
med. light grey RHYOLITIC TUFF
Textures noted: BEDDED
Structures noted: BEDDING dip 15,
2.5% BIOTITE as disseminations and scattered crystals
5% CHLORITE as disseminations and scattered crystals
10% FELDSPAR as disseminations and scattered crystals

FROM 9.42MT- TO 25.18MT-
dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
.01% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals
942 2518 DARK GREEN BASALT; WEAK SPECKLED APPEARANCE;
RESEMBLES BASALT HOSTING MAGA-AMYGDULES NEAR CHARLIE
LAKE

FROM 12.68MT- TO 13.41MT-
100% of this subinterval is
med. dark green FRAGMENTAL BASALT ; LAPILLI
Textures noted: FRAGMENTAL
.01% CHALCOPYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals
1268 1341 FRAGMENTAL BASALT, SIMILAR TO CHARLIE LAKE AREA
20% FELSIC FELDSPAR PORPHYRITIC FRAGMENTS IN A
DARK GREEN BASALTIC MATRIX
1341 1372 AMPHIBOLE (1-2%) AND FELDSPAR (1-2%) PORPHYRITIC
MAFIC DYKE AT 55 TO CORE NORMAL
1484 1539 MAFIC FINE GRAINED DYKE AT 10 TO CORE NORMAL

FROM 16.22MT- TO 17.37MT-
100% of this subinterval is
green grey FRAGMENTAL BASALT
Textures noted: FRAGMENTAL , BANDED
Structures noted: BANDING dip 20,
10% FELDSPAR as disseminations and scattered crystals

1622 1737 SEVERAL BANDS OF ACID TUFFS (FELDSPAR CRYSTALS)
AND UP TO 10Z 1 TO 2MM SIZED FELDSPAR CRYSTALS
DISSEMINATED THROUGHOUT

FROM 18.05MT- TO 19.99MT-
100% of this subinterval is

brown grey RHYOLITIC TUFF
Textures noted: BANDED
Structures noted: BANDING dip 15,
5Z BIOTITE as pervasive mineralization
10Z FELDSPAR as disseminations and scattered crystals

1805 1999 RHYOLITE CRYSTAL TUFF WITH FRAGMENTAL BASALT
MATERIAL AT BEGINNING AND END OF INTERVAL
2115 2157 MAFIC DYKE WITH 25Z 1TO4MM SIZED FELDSPAR PHENOCRYSTS
2204 2234 FRAGMENTAL BASALT : 35Z FELDSPAR PORPHYRITIC AND
APHANITIC RHYOLITIC FRAGMENTS RANGING FROM A FEW
MM TO 6CM IN SIZE

FROM 25.18MT- TO 33.53MT-

med. light grey RHYOLITIC PYROCLASTIC
Textures noted: FRAGMENTAL , BANDED , BEDDED
Structures noted: BANDING dip 20,
10Z BIOTITE as pervasive mineralization
2.5Z PYRITE as microveins
10Z CHLORITE as pervasive mineralization
1Z PYRRHOTITE as disseminations and scattered crystals

2518 3353 MIXED BOTH TEXTURALLY AND COMPOSITIONNALLY PYROCLASTIC
SEQUENCE
2585 2703 AGGLOMERATE; RHYOLITIC FRAGMENTS IN A DACITIC TO
RHYODACITIC MATRIX
2703 2743 CHLORITIC FINE RHYOLITE TUFFS
2743 3304 FINE GRAINED DACITIC TO RHYOLITIC TUFFS
2957 3033 SEAM; CORE IS OXIDIZED (RUSHY COLORED)

FROM 33.53MT- TO 57.30MT-

medium green ALTERED BASALT ; SILICIFIED, SILICIOUS
Textures noted: MASSIVE , BANDED , PILLOWED
Structures noted: BANDING dip 20,
5Z QUARTZ as pervasive mineralization
1Z BIOTITE as pervasive mineralization
5Z CARBONATE as pervasive mineralization
2.5Z PYRITE as microveins
.3Z CHALCOPYRITE as disseminations and scattered crystals
1Z PYRRHOTITE as disseminations and scattered crystals

3353 5730 BASALT IS STRONGLY ALTERED, NUMEROUS MACROVEINS
OF QUARTZ AND MICROVEINS OF CARBONATE; CORE HAS AN
OVERALL WHITISH COLOR AND IS STRONGLY BANDED

FROM 34.75MT- TO 35.42MT-
100% of this subinterval is

medium green PORPHYRITIC BASALT with FELDSPAR ,
Textures noted: PORPHYRITIC , MASSIVE
.1Z QUARTZ as microveins
.1Z CARBONATE as microveins
20Z FELDSPAR as disseminations and scattered crystals

3475	3542	PORPHYRITIC BASALT CHARACTERIZED BY 20% - 1 TO 8MM IN SIZE FELDSPAR LATHS
3584	3633	QUARTZ CHLORITE VEIN WITH 1 TO 5% PO-PY-CPY
3767	3804	QUARTZ CHLORITE VEIN WITH 1 TO 5% PO-PY-CPY
3975	4008	AS ABOVE
4033	4090	A FEW RHYOLITE TUFF BANDS AT 20 TO CORE NORMAL
FROM	57.30MT-	TO 59.47MT-
		med. light grey RHYOLITIC TUFF
		Textures noted: BANDED
		Structures noted: BANDING dip 10,
		2.5% QUARTZ as microveins
		10% BIOTITE as pervasive mineralization
		2.5% CARBONATE as microveins
		5% CHLORITE as disseminations and scattered crystals
		10% FELDSPAR as disseminations and scattered crystals
5730	5947	SECTION CONSISTS PREDOMINATLY OF FINE RHYOLITE CRYSTAL TUFFS WITH MINOR MORE DACITIC SECTIONS UP TO 0.2M IN THICKNESS AND ONE THIN (.2CM) FRAGMENTAL BASALT BAND
FROM	59.47MT-	TO 61.11MT-
		med. dark green BASALT
		Textures noted: MASSIVE
		1% QUARTZ as microveins
		1% AMPHIBOLES as laminations, bedded
FROM	61.11MT-	TO 70.01MT-
		med. dark green BASALT with AMPHIBOLES, FELDSPAR,
		Textures noted: PORPHYRITIC, MASSIVE
		1% QUARTZ as microveins
		1% CARBONATE as microveins
		1% PYRRHOTITE as disseminations and scattered crystals
		10% FELDSPAR as disseminations and scattered crystals
6111	7001	BASALT TYPIFIED BY 1-2% SCATTERED FELDSPAR PHENOCRYSTS AND UP TO 10% AMPHIBOLE PHENOCRYSTS
FROM	70.01MT-	TO 76.05MT-
		med. dark green BASALT
		Textures noted: BANDED
		1% QUARTZ as microveins
		2.5% CARBONATE as microveins
		1% PYRITE as disseminations and scattered crystals
		.01% CHALCOPYRITE as disseminations and scattered crystals
		2.5% PYRRHOTITE as disseminations and scattered crystals
7001	7605	STRONG GRID ALTERATION
FROM	76.05MT-	TO 77.72MT-
		medium grey META-DACITE
		Textures noted: MASSIVE
		20% QUARTZ as macroveins
		2.5% CARBONATE as microveins
		5% PYRITE as disseminations and scattered crystals
		1% CHALCOPYRITE as disseminations and scattered crystals
		5% PYRRHOTITE as disseminations and scattered crystals

7656 7772 QUARTZ CHLORITE VEINING; ABOUT 30% QUARTZ; RESEMBLES STRONGLY CHARLIE LAKE ORE ZONE ; FRAGMENTS OF DACITE WITHIN QUARTZ ; UPPER CONTACT IS ROUGHLY AT 70 TO CORE NORMAL

FROM 77.72MT- TO 79.31MT-
 med. dark green BASALT
 Textures noted: MASSIVE
 1% QUARTZ as microveins
 1% CARBONATE as microveins
 10% PYRRHOTITE as disseminations and scattered crystals

FROM 79.31MT- TO 83.01MT-
 7931 8301 medium grey RHYOLITE AGGLOMERATE
 5% BIOTITE as pervasive mineralization
 1% PYRITE as disseminations and scattered crystals
 5% CHLORITE as pervasive mineralization
 1% PYRRHOTITE as disseminations and scattered crystals
 RHYOLITE AGGLOMERATE ; 25 TO 30% RHYOLITIC FINE GRAINED TO FELDSPAR PORPHYRITIC, WEAKLY CHLORITIC FRAGMENTS ; MATRIX IS LOCALLY VARIABLE (BIOTITIC TO CHLORITIC TO SILICEOUS)

FROM 83.01MT- TO 87.66MT-
 8443 8498 med. light grey RHYOLITIC TUFF
 Textures noted: BANDED , BEDDED
 Structures noted: BEDDING dip 10,
 5% QUARTZ as microveins
 2.5% BIOTITE as disseminations and scattered crystals
 10% MUSCOVITE as pervasive mineralization
 RHYOLITE AGGLOMERATE BAND

FROM 87.66MT- TO 97.78MT-
 9507 9778 med. dark green BASALT
 Textures noted: MASSIVE , AMYGDALOIDAL , FLOW BRECCIA
 1% QUARTZ as microveins
 1% CARBONATE as microveins
 LOCALLY FLOW BRECCIATED ; FRESH LOOKING BASALT

FROM 97.78MT- TO 101.04MT-
 9778 10104 med. dark green BASALT with AMPHIBOLES ,
 Textures noted: MASSIVE
 1% QUARTZ as microveins
 1% CARBONATE as microveins
 BASALT IS COARSE GRAINED ; 20 TO 25% 1 TO 2MM SIZED AMPHIBOLE METACRYSTS

FROM 101.04MT- TO 104.70MT-
 10104 10470 BASALT
 Textures noted: MASSIVE
 1% QUARTZ as microveins
 1% CARBONATE as microveins
 FRESH LOOKING BASALT

REOH 10470
 IN-HOLE SURVEY AT 102.72 MT-

GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -52.00
 TRUE AZIMUTH OF HOLE 215

A001			GTN	AUGTH	AGPPM	CU
AUMN			CHINTC	CHINTC	CHINTC	
ALAB			H-COR	H-COR	H-COR	
ATYP			FA	FA	AA	
AMTH						
A001	1161	1265	3963	.15	3.57	620
A001	2518	2618	3964	.15	000	
A001	2618	2718	3965	.15	000	
A001	3261	3377	3966	.15	000	1000
A001	3584	3633	3967	.15	000	406
A001	3633	3767	3968	.15	0.55	116
A001	3767	3828	3969	.15	000	1080
A001	3828	3959	3970	.15	.15	127
A001	3959	4033	3971	.15	.15	700
A001	4033	4176	3972	.15	000	440
A001	4176	4328	3973	.15	000	362
A001	4328	448	3974	.15	0.51	460
A001	448	4633	3975	.15	000	760
A001	4633	4785	3882	000	000	930
A001	4785	4938	3883	000	000	460
A001	4938	5090	3884	000	1.54	
A001	5425	5577	3885	000	1.23	
A001	5577	5730	3886	000	0.89	
A001	7303	7404	3887	.15	000	
A001	7404	7504	3888	.15	2.71	
A001	7504	7605	3889	.15	000	
A001	7605	7657	3890	.15	000	
A001	7657	7772	3891	.15	2.50	
A001	7772	787	3892	.15	2.37	
A001	8367	8461	3893	.15	000	

/END

HOLE 83CH029 BQ GRID NORTH -070.00 GRID EAST 800.0
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -80.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 249.02mt.

Logged by: M.Drouin on (day/mo/yr)...JUL83

Drilled by: Bradley Bros. JUL83

FROM 0.00MT. TO 5.79MT.

OVERBURDEN

FROM 5.79MT. TO 9.24MT.

med. dark green FRAGMENTAL BASALT
5Z BIOTITE as pervasive mineralization
2.5Z CHLORITE as pervasive mineralization
5Z FELDSPAR as disseminations and scattered crystals
579 924 FRAGMENTAL BASALT; 20 TO 25Z RHYOLITIC FINE GRAINED
TO FELDSPAR PORPHYRITIC FRAGMENTS IN A BASALTIC MATRIX
670 745 MASSIVE BASALT

FROM 9.24MT. TO 14.51MT.

medium grey RHYOLITIC TUFF ; CRYSTALS
Textures noted: , BANDED
Structures noted: BANDING dip 50,
5Z BIOTITE as pervasive mineralization
5Z MUSCOVITE as pervasive mineralization
2.5Z CHLORITE as disseminations and scattered crystals
10Z FELDSPAR as disseminations and scattered crystals
924 1451 RHYOLITE CRYSTAL TUFF; BIOTITE CONTENT DECREASES
TOWARDS BOTTOM OF HOLE

FROM 14.51MT. TO 46.36MT.

med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
2.5Z QUARTZ as microveins
10Z BIOTITE as veins and/or abundant envelopes
2.5Z CARBONATE as microveins
2652 4636 BIOTIZED PILLOW RIMS AT IRREGULAR INTERVALS

FROM 46.36MT. TO 51.30MT.

med. light grey RHYOLITE AGGLOMERATE ; AGGLOMERATIC
Textures noted: , BANDED
Structures noted: BANDING dip 40,
10Z BIOTITE as pervasive mineralization
.01Z PYRITE as disseminations and scattered crystals
10Z CHLORITE as pervasive mineralization
4636 5130 40Z FRAGMENTS VARYING FROM CHERTY TO FELDSPAR PORPHYRITI
BIOTITE AND CHLORITE IN MATRIX
4859 4901 MASSIVE BASALT
4983 5130 MATRIX BECOMES BASALTIC

FROM 51.30MT. TO 57.91MT.

med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
2.5Z QUARTZ as microveins
2.5Z CARBONATE as microveins

FROM 57.91MT. TO 183.18MT.

medium green BASALT
Textures noted: FLOW BRECCIA , AMYGDALOIDAL , PILLOWED , MASSIVE
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
5791 18318 FRES BASALT
9668 9824 15%- 2TO4MM SIZED AMPHIBOLE PHENOCRYSTS; CONTACT IS
AT 40 TO CORE NORMAL

FROM 100.74MT. TO 102.35MT.

100% of this subinterval is
dark grey DACITE
Textures noted: MASSIVE
Structures noted: CONTACT dip 40,
10% MUSCOVITE as pervasive mineralization

FROM 107.91MT. TO 121.92MT.

100% of this subinterval is
med. dark green BASALT
Textures noted: MASSIVE
Structures noted: CONTACT dip 40,
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins

FROM 183.18MT. TO 194.55MT.

med. dark green BASALT
Textures noted: MASSIVE
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
18318 18364 HEAVY EPIDOTE VEINING

FROM 194.55MT. TO 215.80MT.

med. dark green BASALT with AMPHIBOLES ,
Textures noted: MASSIVE
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
19455 21580 COARSE TO VERY COARSE BASALT; LOCALLY ALMOST PORPHYRITIC
21351 21580 HEAVY BLEACHING, REDDISH K-FELDSPAR BANDS FROM 215.19
TO 215.8 ; BRIGHT REDDISH GARNETS FROM 214.1 TO 214.73

FROM 215.80MT. TO 219.21MT.

light grey RHYOLITIC TUFF
Textures noted: BANDED
Structures noted: BANDING dip 40,
.03% PYRITE as disseminations and scattered crystals
10% MUSCOVITE as pervasive mineralization
21635 21641 VERY HEAVY EPIDOTE
21641 21741 TUFF IS COMPLETELY ALTERED - BLEACHING MASSIVE EPIDOTE
AND K-FELDSPAR BANDS

FROM 219.21MT. TO 224.7 MT.

very dark grey PYROXENITE ; TALCOSE
Textures noted: , MASSIVE
20% MAGNETITE as pervasive mineralization
22052 22074 ALTERED(EPIDOTE AND K-FELDSPAR) ACID TUFF BAND

22448 22448 FAULT GOUGE

FROM 224.7 MT. TO 225.25MT.

med. light grey DACITIC TUFF
 Textures noted: , BANDED
 Structures noted: BANDING dip 40,
 2.5% PYRITE as disseminations and scattered crystals

FROM 225.25MT. TO 227.68MT.

med. dark green BASALT
 Textures noted: , FOLIATED
 Structures noted: FOLIATION ,

FROM 227.68MT. TO 249.02MT.

med. dark green BASALT
 Textures noted: MASSIVE , FOLIATED
 2.5% QUARTZ as microveins
 2.5% CARBONATE as microveins
 2.5% PYRITE as laminations, bedded
 2.5% K-FELDSPAR as microveins
 2.5% EPIDOTE as microveins
 2414 24293 BASALT GRADES INTO A DACITE CONTAINING 3-5% DISSMINATED
 PY AND SOME SPECKS OF SPHALERITE
 24384 2475 BASALT GRADES INTO A DACITE
 24719 24722 SPHALERITE STRINGERS

REDH 24902

IN-HOLE SURVEY AT 181.97 MT.
 GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -79.00
 TRUE AZIMUTH OF HOLE 215
 IN-HOLE SURVEY AT 247.49 MT.
 GRID AZIMUTH OF HOLE 188.00 VERTICAL ANGLE -77.00
 TRUE AZIMUTH OF HOLE 223

A001	GTM AUGTM AGPPM CUPPM ZN				GTM AUGTM AG	
AUMM	CHINTCCHINTCCHINTCCHINTC				CHINTCCHINTC	
ALAB	H-COR	H-COR	H-COR	H-COR	Q-COR	Q-COR
ATYP	FA	FA	AA	AA	FA	FA
AMTH	FA	FA	AA	AA	FA	FA
A001 2129 21351	4565	.15	000			
A001 21351 21451	4639	.15	3.12			
A001 21451 21551	4640	.15	0.48			
A001 21551 21651	4641	.15	000			
A001 21651 21751	4642	.15	.15			
A001 21751 21851	4643	.15	0.82			
A001 21851 21951	4644	.15	13.65			
A001 21951 22051	4645	.15	1.92			
A001 22051 22151	4646	.15	000			
A001 22151 22251	4647	.15	0.96			
A001 22251 22351	4648	.15	.15			
A001 22351 22451	4649	.15	0.50			
A001 22451 22551	4650	.15	.15			
A001 22551 22651	4651	.15	0.55			
A001 22651 22751	4652	.15	5.07			
A001 22751 2286	4653	.15	000			
A001 2286 2296	4654	.15	4.66			
A001 2296 2306	4655	.15	2.78			

A001 2306 2316	4656	.15	6.34			
A001 2316 2326	4657	.15	0.41			
A001 2326 23378	4658	.15	000			
A001 23378 23478	4567	2.78	0.55	680		
A001 23478 23578	4568	.15	000			
A001 23579 23679	4569	.15	000			
A001 23378 23530	4659			560	1.44	2.20
A001 23530 23679	4660				.15	000
A001 23679 23779	4661	.15	000			
A001 23779 23879	4662	0.69	112.10	5		
A001 23879 23987	4663	.15	.15			
A001 23987 24087	4664	.15	000			
A001 24087 24140	4665	.15	.15			
A001 2414 2429	4570	19.23	7.85	170	700	
A001 2414 2429	4666				4.87	5.83
A001 2429 2439	4667	.15	000			
A001 2439 2449	4668	.15	.15			
A001 2449 2459	4669	2.60	1.55			
A001 2459 2469	4670	1.71	3.43	262		
A001 2469 2479	4671	.15	0.34			
A001 2479 24902	4672	.15	1.65			
/END						

HOLE B3CH030 BQ GRID NORTH -440.00 GRID EAST 2750.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -55.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 122.83mt.

Logged by: M.Drouin on (day/mo/yr)...JUL83
Drilled by: Bradley Bros. JUL83

FROM 0.00MT. TO 6.09MT.
OVERBURDEN

FROM 6.09MT. TO 47.39MT.
med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
409 3825 FRESH BASALT

FROM 12.03MT. TO 17.92MT.
100% of this subinterval is

medium grey GRANODIORITE
Textures noted: MASSIVE
1% QUARTZ as microveins
1% PYRITE as disseminations and scattered crystals
1% K-FELDSPAR as microveins
5% CHLORITE as pervasive mineralization
UNIT CONTAINS A FEW HIGHLY BIOTITIZED BASALT Xenoliths
2133 2164 SOME TEXTURAL FEATURES RESEMBLING "MEGA-AMYGDULES"
OF 'A' ZONE

FROM 32.61MT. TO 35.78MT.
100% of this subinterval is

light grey GRANODIORITE
Textures noted: MASSIVE
20% BIOTITE as pervasive mineralization
5% CHLORITE as pervasive mineralization

FROM 38.19MT. TO 39.79MT.
100% of this subinterval is

brown grey RHYOLITIC TUFF
Textures noted: BANDED
Structures noted: BANDING dip 10,
.3% QUARTZ as eyes, augen
20% MUSCOVITE as pervasive mineralization
5% CHLORITE as disseminations and scattered crystals
3977 4099 MEDIUM GRAINED GRANODIORITE DYKE
4358 448 MINOR FLOW BRECCIATION

FROM 47.39MT. TO 51.45MT.
medium grey BASALT ; BIOTITIC
Textures noted: MASSIVE , TUFFACEOUS
2.5% QUARTZ as microveins
40% BIOTITE as pervasive mineralization
10% CARBONATE as pervasive mineralization

FROM 48.85MT. TO 49.37MT.

80% of this subinterval is

med. dark grey RHYOLITIC TUFF
Textures noted: BANDED
Structures noted: CONTACT dip 10,
10% QUARTZ as eyes, augen
.3% GARNET as disseminations and scattered crystals

FROM 51.45MT. TO 52.97MT.

pale grey META CHERT ; SILICIFIED, SILICIOUS
2.5% GARNET as disseminations and scattered crystals
2.5% PYRITE as microveins
10% CHALCOPYRITE as disseminations and scattered crystals
10% PYRRHOTITE as microveins

5145 5297 METACHERT ZONE CONSISTING OF 15% SULPHIDES, 75-80%
SILICA; FROM 51.63 TO 51.88 BIOTITIC TUFFACEOUS
BASALT; SPARSELY MINERALIZED

5132 5132 MASSIVE GARNET BAND

FROM 52.97MT. TO 55.47MT.

brown green BASALT ; TUFFACEOUS BIOTITIC
Textures noted: MASSIVE , BANDED
2.5% QUARTZ as microveins
20% BIOTITE as pervasive mineralization
2.5% CARBONATE as microveins

FROM 55.47MT. TO 56.90MT.

pale grey META CHERT ; SILICIFIED, SILICIOUS
10% BIOTITE as microveins
10% CHALCOPYRITE as microveins
10% PYRRHOTITE as microveins

5547 5690 METACHERT ZONE: 75 TO 80% SILICA, 10 TO 15% PO
INCLUDING A MASSIVE 10CM THICK STRINGER AND 10 TO
15% BIOTITE BANDS

5672 5672 FUCHSITE AND CHLORITE BAND 3MM THICK

FROM 56.90MT. TO 59.13MT.

brown green BASALT ; TUFFACEOUS BIOTITIC
Textures noted: MASSIVE , BANDED
2.5% QUARTZ as microveins
10% BIOTITE as laminations, bedded
2.5% CARBONATE as microveins
.1% PYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as microveins

FROM 59.13MT. TO 86.41MT.

med. dark green BASALT
Textures noted: MASSIVE , PILLOWED
2.5% QUARTZ as microveins
5% BIOTITE as disseminations and scattered crystals
2.5% CARBONATE as microveins
1% PYRRHOTITE as disseminations and scattered crystals

6203 6306 0.3M GROUND CORE

6234 6251 MASSIVE NONMAGNETIC PYROXENITIC

FROM 65.83MT. TO 67.66MT.

100% of this subinterval is

dark green PYROXENITE
Textures noted: MASSIVE
2.5% BIOTITE as disseminations and scattered crystals
.3% CARBONATE as microveins

6918 8001 FRESH MASSIVE AND PILLOWED BASALT
6537 6550 DACITIC TUFF BAND
8464 8641 BASALT IS TUFFACEOUS

FROM 86.41MT. TO 89.90MT.

dark green PYROXENITE
Textures noted: MASSIVE
5% BIOTITE as disseminations and scattered crystals
10% MAGNETITE as disseminations and scattered crystals

FROM 87.11MT. TO 88.05MT.

100% of this subinterval is

medium grey RHYOLITIC TUFF
Textures noted: BEDDED
5% PYRITE as microveins
1% CHALCOPYRITE as disseminations and scattered crystals
10% PYRRHOTITE as microveins
.3% SPHALERITE as disseminations and scattered crystals

8747 8767 SMALL DRUG FOLD
8711 8805 MODERATELY BEDDED; 10 TO 15% PO STRINGERS

FROM 89.90MT. TO 92.04MT.

med. light grey RHYOLITIC TUFF
Textures noted: BEDDED
Structures noted: BEDDING dip 10,
2.5% BIOTITE as disseminations and scattered crystals
.3% PYRITE as disseminations and scattered crystals
2.5% MUSCOVITE as microveins

FROM 92.04MT. TO 93.26MT.

med. dark green BASALT
Textures noted: MASSIVE
1% CARBONATE as microveins
1% PYRRHOTITE as disseminations and scattered crystals

FROM 93.26MT. TO 98.05MT.

dark green PYROXENITE
Textures noted: MASSIVE
20% MAGNETITE as disseminations and scattered crystals

FROM 98.05MT. TO 99.66MT.

med. dark grey RHYOLITIC TUFF with QUARTZ, FELDSPAR, and CRYSTALS
2.5% QUARTZ as eyes, augen
10% BIOTITE as pervasive mineralization
2.5% PYRRHOTITE as disseminations and scattered crystals
20% FELDSPAR as disseminations and scattered crystals

FROM 99.66MT. TO 102.87MT.

med. dark grey RHYOLITIC TUFF
Textures noted: BEDDED, BANDED

Structures noted: BEDDING dip 20,
 20% BIOTITE as pervasive mineralization
 .3% PYRITE as disseminations and scattered crystals
 .01% CHALCOPYRITE as disseminations and scattered crystals
 10% MUSCOVITE as pervasive mineralization
 10% CHLORITE as pervasive mineralization
 .3% PYRRHOTITE as disseminations and scattered crystals

FROM 102.87MT. TO 112.29MT.

dark green PYROXENITE ; TALCOSE
 Textures noted: MASSIVE
 5% BIOTITE as disseminations and scattered crystals
 1% CARBONATE as microveins
 20% MAGNETITE as disseminations and scattered crystals

FROM 112.29MT. TO 122.83MT.

med. dark green BASALT
 Textures noted: MASSIVE
 Structures noted: CONTACT dip 30,
 1% CARBONATE as microveins
 .1% K-FELDSPAR as microveins
 POSSIBLE FAULT OR SHEAR ZONE ; CORE IS BROKEN UP
 BASALT IS WEAKLY VARIOLITIC

11735 11790

12131 12283

REQH 12283

IN-HOLE SURVEY AT 99.67 MT.

GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -54.00

TRUE AZIMUTH OF HOLE 215

A001	AUMM	ALAB	ATYP	AMTH	GTM	AUGTM	AGPPM	CU
					H-COR	H-COR	H-COR	AA
					FA	FA	AA	
A001	5044	5145		4910	.15	000	143	
A001	5145	5218		4911	3.94	1.06	900	
A001	5218	5297		4912	8.15	0.50	1640	
A001	5297	5398		4913	.15	000	189	
A001	5398	5547		4914	.15	1.47	50	
A001	5547	5690		4915	1.85	14.37	2080	
A001	5640	5790		4916	.15	000	58	
A001	5790	5891		4917	.15	000	36	
A001	5891	6004		4918	.15	1.71	98	
A001	7546	7647		4919	.15	1.51	1420	
A001	8291	8382		4920	.15	1.37	179	
A001	8641	8711		4921	.15	2.26	25	
A001	8711	8805		4922	1.02	7.05	840	
A001	8805	8820		4923	.15	000	49	
A001	8820	8921		4924	.15	000	103	
A001	9851	9927		4925	.15	000	38	
A001	9927	10028		4926	.15	000	110	

/END

HOLE 83CH032 80 GRID NORTH 075.00 GRID EAST-2050.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -55.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 155.14mt.
Logged by: H.Thiboutot on (day/mo/yr)...JUL83
Drilled by: Bradley Bros. JUL83

FROM 0.00MT. TO 4.18MT.
OVERBURDEN

FROM 4.18MT. TO 21.43MT.
med. dark green BASALT
Textures noted: MASSIVE , FOLIATED
Structures noted: BANDING dip 30,
10% QUARTZ as microveins
5% BIOTITE as pervasive mineralization
1 CARBONATE as microveins
1% PYRITE as microveins
.3% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as microveins
.01% TOURMALINE as disseminations and scattered crystals
418 2143 RECRYSTALLIZED BASALT (DIORITIZED); FELDSPAR PHENOCRYSTS
FROM 20.12 TO 21.43 ; BASALT IS LOCALLY SILICIFIED
963 1225 BASALT MAY GRADE INTO A DACITE
1225 1375 RHYODACITIC FLOW (?)

FROM 21.43MT. TO 85.34MT.
medium grey GRANODIORITE
Textures noted: MASSIVE
1% QUARTZ as microveins
1% BIOTITE as pervasive mineralization
2.5% PYRITE as microveins
.3% CHALCOPYRITE as disseminations and scattered crystals
1% CHLORITE as pervasive mineralization
2.5% PYRRHOTITE as microveins
.01% SPHALERITE as disseminations and scattered crystals
2143 8534 GRANODIORITE CONTAINS BASALTIC XENOLITHS UP TO 20CM
IN SIZE
3972 4383 GRANODIORITE IS FINE GRAINED; ALMOST NO MAFIC
MINERALS PRESENT; SILICEOUS IN APPEARANCE
4895 5081 INTERMEDIATE TO ACID DYKE; BIOTITIC AND CHLORITIC;
CONTACT SHOWS BANDING
6074 6608 FINE GRAINED DIORITIC PHASE; FROM 63.7 TO 64.62
ROCK IS BANDED AND CONTAINS MINOR GARNETS
6462 6486 QUARTZ SULPHIDE VEIN
6840 6867 GRANODIORITE GRADES INTO A DIORITE
7077 7138 INTERMEDIATE FINE GRAINED DYKE
7181 7705 SECTION CONTAINS 60% BASALT XENOLITHS

FROM 85.34MT. TO 88.54MT.
medium grey RHYOLITE
Textures noted: BANDED , MASSIVE
Structures noted: BANDING dip 50,
1% QUARTZ as microveins
1% CARBONATE as microveins

2.5% PYRITE as microveins
.01% CHALCOPYRITE as disseminations and scattered crystals
1% K-FELDSPAR as microveins
1% CHLORITE as pervasive mineralization

FROM 88.54MT. TO 92.48MT.
brown green DACITE
Textures noted: MASSIVE , BANDED
Structures noted: BANDING dip 40,
1% QUARTZ as macroveins
5% BIOTITE as pervasive mineralization
1% CARBONATE as microveins
2.5% PYRITE as microveins
.1% CHALCOPYRITE as disseminations and scattered crystals
2.5% CHLORITE as pervasive mineralization

FROM 92.48MT. TO 94.24MT.
medium grey RHYODACITE
Textures noted: MASSIVE , BANDED
Structures noted: BANDING dip 40,
20% BIOTITE as pervasive mineralization
2.5% PYRITE as microveins
.1% CHALCOPYRITE as disseminations and scattered crystals

FROM 94.24MT. TO 99.88MT.
medium green BASALT
Textures noted: MASSIVE
1% QUARTZ as microveins
5% BIOTITE as pervasive mineralization
1% CARBONATE as microveins
1% PYRITE as microveins
.3% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as microveins

FROM 99.88MT. TO 105.40MT.
medium grey DACITE
Textures noted: MASSIVE
.3% QUARTZ as microveins
5% BIOTITE as pervasive mineralization
.3% CARBONATE as microveins
2.5% PYRITE as microveins
1% CHALCOPYRITE as disseminations and scattered crystals
2.5% CHLORITE as pervasive mineralization
2.5% PYRRHOTITE as microveins

FROM 105.40MT. TO 113.20MT.
medium green BASALT
Textures noted: MASSIVE , BANDED
Structures noted: BANDING dip 50,
1% QUARTZ as microveins
5% BIOTITE as pervasive mineralization
1% CARBONATE as microveins
1% PYRITE as microveins
.3% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as microveins

10540 11320 BASL IS LOCALLY SILICIFIED

FROM 106.50MT. TO 107.93MT.

100% of this subinterval is

brown green DACITE
Textures noted: , BANDED
Structures noted: BANDING dip 45,
10% BIOTITE as pervasive mineralization

FROM 113.20MT. TO 131.61MT.

med. light grey RHYOLITE
Textures noted: MASSIVE
1% QUARTZ as microveins
1% CARBONATE as microveins
1% PYRITE as microveins
.3% CHALCOPYRITE as disseminations and scattered crystals
2.5% MUSCOVITE as pervasive mineralization
1% CHLORITE as microveins
1% PYRRHOTITE as microveins

FROM 122.96MT. TO 125.67MT.

100% of this subinterval is

brown grey DACITE
Textures noted: , BANDED
Structures noted: BANDING dip 55,
10% BIOTITE as pervasive mineralization
.3% PYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as disseminations and scattered crystals

1274 12835 GRANDIORITY DYKE

FROM 128.35MT. TO 129.33MT.

100% of this subinterval is

brown grey DACITE

12933 12999 CPY RICH STRINGERS; 5 TO 7% TOTAL SULPHIDES

FROM 131.61MT. TO 153.37MT.

medium green BASALT
Textures noted: MASSIVE
1% QUARTZ as microveins
.3% BIOTITE as disseminations and scattered crystals
1% CARBONATE as microveins
1% PYRITE as microveins
.1% CHALCOPYRITE as disseminations and scattered crystals
.3% K-FELDSPAR as microveins
1% EPIDOTE as massive
1% PYRRHOTITE as microveins
.01% SPHALERITE as disseminations and scattered crystals

13161 15337 BASALT IS LOCALLY SILICIFIED, BLEACHED AND EPIDOTIZED

13947 13978 BASALT IS EPIDOTIZED

14179 14209 BASALT IS EPIDOTIZED

14467 14777 POSSIBLE VARIOLES

14871 14926 GRANDIORITY DYKE

15194 15209 MASSIVE EPIDOTE

FROM 153.37MT. TO 155.14MT.

med. dark grey DACITE
 Textures noted: MASSIVE , BANDED
 Structures noted: BANDING dip 10,
 1Z GARNET as disseminations and scattered crystals
 1Z PYRITE as microveins
 .1Z CHALCOPYRITE as disseminations and scattered crystals
 1Z PYRRHOTITE as microveins
 GRANODIORITE DYKE; MINOR DISS PO-PY
 GRANODIORITE DYKE; 1Z GARNETS

15337 15361
 15374 15398

REQH 15514

IN-HOLE SURVEY AT 126.79 MT.
 GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -49.00
 TRUE AZIMUTH OF HOLE 215

A001	AUMM	ALAB	ATYP	AMTH	STN	AUGTM	AGCU	PPMZN	PPM
					CHINTC	CHINTC	CHINTC	CHINTC	
					H-COR	H-COR	H-COR	H-COR	
					FA	FA	AA	AA	
A001	555	655		4571	.15	000	293		
A001	783	883		4572	.15	000	600		
A001	883	984		4573	.15	000	163		
A001	984	1084		4574	.15	000	348		
A001	1084	1185		4575	.15	000	182		
A001									
A001	1186	1286		4801	.15	000	440		
A001	1286	1386		4802	.15	000	400		
A001	1386	1463		4803	.15	000	780		
A001	2277	2377		4804	.15	000	190		
A001	2377	2478		4805	.15	1.23	400		
A001	2478	2578		4806	.15	000	230		
A001	2578	2679		4807	.15	000	128		
A001	2679	2779		4808	.15	000	38		
A001	2779	288		4809	.15	000	190		
A001	3871	3971		4810	.15	000	27	47	
A001	3971	4072		4811	.15	000	47	39	
A001	4072	4172		4812	000	000	137	1280	
A001	4172	4273		4813	000	000	146	105	
A001	4273	4373		4814	000	000	80	46	
A001	4373	4494		4815	000	000	22	49	
A001	4788	4888		4816	000	000			
A001	4888	4788		4817	000	000			
A001	5971	6071		4818	000	000			
A001	6071	6171		4819	000	000			
A001	6171	6271		4820	.15	0.62			
A001	6271	6371		4821	.15	2.95			
A001	6371	6471		4822	.15	000			
A001	6471	6571		4823	.15	.15			
A001	6571	6645		4824	.15	000			
A001	684	6867		4825	.15	000			
A001	8431	8534		4826	.15	.15	332		
A001	8534	8544		4827	.15	3.50	1100		
A001	8544	8735		4828	.15	3.67	1300		
A001	8735	8834		4829	2.16	2.98	1060		
A001	8834	8936		4830	.15	000	540		
A001	8936	9037		4831	.15	2.40	760		

A001	9147	9248	4832	.15	000	400	
A001	9248	9348	4833	.15	000	600	
A001	9348	9449	4834	.15	0.41	520	
A001	9619	9720	4835	.15	000	460	
A001	9720	9820	4836	.15	000	155	
A001	10019	10119	4837	.15	.15	800	
A001	10119	10220	4838	.15	1.75	940	
A001	10220	10320	4839	.15	1.89	1360	
A001	10320	10421	4840	.15	000	1640	
A001	10421	10521	4841	0.96	0.75	1540	
A001	10521	10622	4842	0.38	1.65	0880	
A001	10622	10722	4843	.15	0.89	1000	
A001	10722	10823	4844	000	000	460	
A001	10823	10923	4845	0.38	0.82	540	
A001	10923	11024	4846	.15	000	211	
A001	11024	11125	4847	.15	1.75	298	
A001	11125	11226	4848	.15	2.47	206	
A001	11226	11326	4849	0.34	.15	304	
A001	11326	11427	4850	.15	1.82	126	
A001	11427	11527	4851	000	000	158	
A001	11527	11628	4852	000	000	66	
A001	11628	11729	4853	000	000	77	
A001	11729	11829	4854	.15	0.45	153	
A001	11829	11930	4855	000	0.96	129	
A001	11930	12030	4856	000	.15	186	
A001	12030	12131	4857	.15	0.41	238	
A001	12131	12231	4858	.15	0.69	620	
A001	12232	12308	4859	3.22	1.10	460	
A001	12308	12408	4860	.15	2.30	354	
A001	12408	12508	4724	.15	3.22		
A001	12508	12567	4725	.15	3.36		
A001	12567	12667	4861	.15	1.15	204	
A001	12667	12741	4862	.15	4.53	146	
A001	12741	12835	4874	.15	0.41	162	
A001	12835	12933	4863	.15	28.87	122	
A001	12933	12999	4864	0.38	1.51	2720	
A001	12999	13100	4865	.15	0.34	79	
A001	13100	13200	4707	.15	000		
A001	13200	13289	4708	.15	0.34		
A001	13289	13392	4866	.15	0.34	420	
A001	13392	13472	4867	11.79	1.13	393	
A001	13472	13533	4709	.15	000		
A001	13533	13634	4868	.15	1.41	440	
A001	13634	13734	4710	.15	000		
A001	13734	13834	4711	.15	000		
A001	13834	13934	4712	.15	000		
A001	13934	14034	4713	.15	4.05		
A001	14034	14167	4714	.15	000		
A001	14167	14228	4869	.15	18.55	620	176
A001	14228	14328	4715	.15	0.72		
A001	14328	14428	4716	.15	2.74		
A001	14428	14528	4717	.15	000		
A001	14528	14640	4718	.15	000		
A001	14640	14750	4719	.15	2.88		
A001	14750	14850	4720	.15	4.05		

A001	14850	14950	4721	.15	000		
A001	14950	15050	4722	.15	7.27		
A001	15050	15109	4723	.15	3.36		
A001	15109	15231	4870	.15	9.75	106	46
A001	15231	15331	4871	.15	0.45	227	38
A001	15331	15432	4872	000	000	197	26
A001	15432	15514	4873	.15	3.09	242	42

/END

HOLE 83CH033 BQ GRID NORTH 615.00 GRID EAST-1050.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -55.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 99.67mt.

Logged by: H.Thiboutot on (day/mo/yr)...JUL83

Drilled by: Bradley Bros. JUL83

FROM 0.00MT. TO 1.83MT.
OVERBURDEN

FROM 1.83MT. TO 4.66MT.
med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
5% QUARTZ as microveins
5% CARBONATE as microveins
.1% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
.1% PYRRHOTITE as disseminations and scattered crystals

FROM 4.66MT. TO 25.24MT.
light grey
Textures noted: FRAGMENTAL , BEDDED
Structures noted: BEDDING dip 15,
1% BIOTITE as pervasive mineralization
.1% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
.1% PYRRHOTITE as disseminations and scattered crystals
466 2524 THIS PYROCLASTIC SEQUENCE VARIES FROM FINE GRAINED
RHYOLITE TUFF TO A BIMODAL RHYOLITE AGGLOMERATE.
IN THE LATER CASE THE MATRIX IS BASALTIC AND FORMS
ABOUT 20% OF UNIT 3 TYPES OF FRAGMENTS ARE OBSERVED;
RHYOLITE FELDSPAR PORPHYRITIC, FINE GRAINED RHYOLITIC AND
SOME CHERTY FRAGMENTS. MORE RARELY HEAVILY BIOTIZED
MAFIC FRAGMENTS MAY BE OBSERVED
1917 1978 MAFIC MEDIUM GRAINED DYKE
1311 1372 BLEACHED SECTIONED

FROM 25.24MT. TO 49.68MT.
light grey
Textures noted: FRAGMENTAL , BEDDED
5% QUARTZ as eyes, augen
1% BIOTITE as pervasive mineralization
.3% GARNET as disseminations and scattered crystals
.3% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
1% MUSCOVITE as pervasive mineralization
1% CHLORITE as pervasive mineralization
1% PYRRHOTITE as microveins
.01% SPHALERITE as disseminations and scattered crystals
2524 4968 AS PREVIOUS MATRIX VARIES FROM BASALTIC TO RHYOLITIC
3572 4160 SECTION CONSISTS OF FINE RHYOLITE TUFF AND RHYOLITE
AGGLOMERATE; 1-3% SULPHIDES (PY, CPY, PO, ZNS) ARE FOUND AS
DISSEMINATIONS OR AS MICROVEINS.
4160 4816 FRAGMENT CONTENT DECREASES TO BETWEEN 10 AND 15%
4816 4968 DACITIC TO RHYODACITIC AGGLOMERATE

FROM 49.68MT. TO 51.72MT.

medium green PYROXENITE
Textures noted: MASSIVE
1% QUARTZ as macroveins
1% CARBONATE as microveins
1% EPIDOTE as microveins

FROM 51.72MT. TO 64.53MT.

med. light grey RHYOLITIC TUFF
Textures noted: BANDED
Structures noted: BANDING dip 10,
5% QUARTZ as eyes, augen
2.5% BIOTITE as pervasive mineralization
2.5% MAGNETITE as disseminations and scattered crystals
1% PYRITE as microveins
.1% CHALCOPYRITE as disseminations and scattered crystals
2.5% MUSCOVITE as pervasive mineralization
2.5% CHLORITE as pervasive mineralization
.3% EPIDOTE as microveins
1% PYRRHOTITE as microveins
.01% SPHALERITE as disseminations and scattered crystals
RHYOLITE TUFF AND CRYSTAL TUFFS
MAFIC DYKE

5172 6453
5477 5507

FROM 64.53MT. TO 87.81MT.

med. dark green BASALT ; SILICIFIED, SILICIOUS
Textures noted: , MASSIVE
2.5% QUARTZ as microveins
2.5% BIOTITE as pervasive mineralization
2.5% CARBONATE as microveins
.3% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as microveins
MASSIVE PO-MINOR PY CPY-BAND

6757 6757

FROM 69.68MT. TO 75.68MT.

100% of this subinterval is

brown grey DACITE
Textures noted: MASSIVE , BANDED
Structures noted: BANDING dip 30,
1% QUARTZ as microveins
5% BIOTITE as pervasive mineralization
1% CARBONATE as microveins
1% PYRITE as microveins
1% CHALCOPYRITE as disseminations and scattered crystals
10% PYRRHOTITE as massive

FROM 77.85MT. TO 78.91MT.

100% of this subinterval is

brown grey DACITE
Textures noted: MASSIVE
5% BIOTITE as pervasive mineralization
2.5% PYRITE as disseminations and scattered crystals
5% CHALCOPYRITE as disseminations and scattered crystals

10% PYRRHOTITE as massive

FROM 83.94MT. TO 86.47MT.
100% of this subinterval is

brown grey DACITE
Textures noted: MASSIVE
5% BIOTITE as pervasive mineralization
2.5% GARNET as disseminations and scattered crystals
.3% PYRITE as disseminations and scattered crystals
.3% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals

FROM 86.47MT. TO 86.77MT.
100% of this subinterval is

light grey RHYOLITE
Textures noted: MASSIVE
.3% PYRITE as disseminations and scattered crystals
.3% CHALCOPYRITE as disseminations and scattered crystals
2.5% PYRRHOTITE as disseminations and scattered crystals

8677 8781 BASALT CONTAINS 3 TO 5% FELDSPAR PHENOCRYSTS OF
IRREGULAR SHAPE

FROM 87.81MT. TO 98.60MT.

medium grey RHYOLITE
Textures noted: MASSIVE , BANDED
Structures noted: BANDING dip 10,
5% QUARTZ as eyes, augen
1% BIOTITE as pervasive mineralization
1% PYRITE as disseminations and scattered crystals
2.5% MUSCOVITE as pervasive mineralization
1% CHLORITE as spots
1% PYRRHOTITE as disseminations and scattered crystals

FROM 98.60MT. TO 99.67MT.

med. dark green BASALT
Textures noted: MASSIVE
.3% QUARTZ as microveins
.3% CARBONATE as microveins

REQH 9967
IN-HOLE SURVEY AT 99.67 MT.
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -53.00
TRUE AZIMUTH OF HOLE 215

A001							
AUMN	6TM AUGTM AGPPM CUPPM ZN						
ALAB	CHINTCCHINTCCHINTCCHINTC						
ATYP	H-COR H-COR H-COR H-COR						
AMTH			FA	FA	AA	AA	
A001	3051	3152	5253	0.17	0.00		
A001	3152	3304	5254	0.17	1.85		
A001	3304	3456	5255	0.17	0.41		
A001	3457	3557	4946	.15	4.80	440	640
A001	3557	3657	4947	.15	5.86	1140	2120
A001	3657	3757	4948	.15	7.51	1160	780
A001	3757	3857	4949	.15	6.45	500	395
A001	3857	3957	4950	.15	0.96	220	183

A001	3957	4057	4951	.15	5.90	228	337
A001	4057	4157	4952	.15	4.66	82	189
A001	4157	4257	4953	.15	000	179	27
A001	4257	4357	4954	.15	1.37	223	
A001	4357	4457	4955	.15	0.34	54	
A001	4457	4557	4956	.15	000	112	
A001	4557	4657	4957	.15	000	243	
A001	4657	4703	4958	.15	0.34	23	
A001	4785	4865	4959	.15	000	321	
A001	4865	4968	4960	.15	000	94	
A001	4968	5069	5256	0.17	0.17		
A001	5069	5172	5257	0.17	4.53		
A001	5172	5273	4961	.15	1.58	322	
A001	5273	5373	4962	.15	1.58	343	
A001	5373	5474	4963	.15	000	187	
A001	5474	5627	5258	0.17	0.17		
A001	5627	5779	5259	0.17	0.17		
A001	5779	5879	5260	0.17	0.17		
A001	5879	5992	5261	0.17	0.17		
A001	5993	6093	4964	.15	000	51	91
A001	6093	6193	4965	.15	000	23	77
A001	6193	6293	4966	.15	000	20	32
A001	6293	6393	4967	.15	000	92	46
A001	6393	6453	4968	.15	0.48	70	46
A001	6453	6553	5262	0.17	0.17		
A001	6553	6669	5263	0.00	0.00		
A001	6669	6769	4969	0.89	5.42	182	
A001	6769	6869	4970	1.37	1.10	35	
A001	6869	6969	4971	1.58	4.46	85	
A001	6969	7069	4972	1.82	21.74	267	
A001	7069	7169	4973	1.58	3.43	1780	
A001	7169	7269	4974	0.34	1.37	79	
A001	7269	7369	4975	0.48	6.10	272	
A001	7369	7473	4976	.15	2.95	63	
A001	7474	7565	5264	0.00	0.00		
A001	7565	7684	5265	0.00	0.00		
A001	7684	7784	4977	1.71	1.65	2140	
A001	7784	7891	4978	0.34	1.03	2140	
A001	7891	7991	4979	.15	1.30	73	
A001	7992	8144	5266	0.17	0.17		
A001	8144	8297	5267	0.17	0.17		
A001	8297	8394	5268	0.17	0.17		
A001	8394	8494	4980	.15	1.23	357	
A001	8494	8594	4981	.15	000	247	
A001	8594	8678	4982	.15	9.87	124	
A001	8678	883	5269	0.17	0.17		
A001	833	8982	5270	0.17	0.17		
A001	8982	9135	5271	0.17	0.17		
A001	9135	9287	5272	0.17	0.17		
A001	9287	9439	5273	0.17	0.17		
A001	9439	9592	5274	0.17	0.17		
A001	9592	9744	5275	0.17	0.17		
A001	9744	9897	5276	0.17	0.17		
A001	9897	9967	5277	0.17	0.17		

/END

HOLE B3CH034 BQ GRID NORTH 260.00 GRID EAST -900.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -75.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 99.67mt.

Logged by: M.Drouin on (day/mo/yr)...JUL83

Drilled by: Bradley Bros. JUL83

FROM 0. MT- TO 2.74MT-
OVERBURDEN
.1% PYRITE as disseminations and scattered crystals

FROM 2.74MT- TO 20.30MT-
med. dark grey PYROXENITE ; TALCOSE
Textures noted: MASSIVE
5% CARBONATE as pervasive mineralization
20% MAGNETITE as pervasive mineralization
457 487 PYROXENITE IS SHEARED
274 1874 PYROXENITE IS TYPIFIED BY ABOUT 15% ROUND CALCITE
"AMYGDALES" OR CAVITY FILLINGS
1874 2030 PYROXENITE BECOMES DARK GREEN IN COLOR AND CONTAINS
BETWEEN 10 AND 15% BIOTITE ; MASSIVE BIOTITE IS
PRESENT BETWEEN 19.5 AND 19.6; PYROXENITE GRADES INTO
FOLLOWING GABBRO

FROM 20.30MT- TO 30.57MT-
med. dark green GABBRO
Textures noted: MASSIVE
2.5% CARBONATE as microveins
1% MAGNETITE as disseminations and scattered crystals
2030 3057 FELDSPAR CONTENT DECREASES SIGNIFICANTLY AS ONE APPROACH-
ES THE FOLLOWING ACID TUFFS; AS THE FELDSPAR CONTENT
DECREASES AMPHIBOLE PHENOCRYSTS BECOME MORE PROMINENT

FROM 30.57MT- TO 43.28MT-
med. light grey RHYOLITIC TUFF
Textures noted: BEDDED , BANDED
Structures noted: BEDDING dip 30,
.3% QUARTZ as eyes, augen
10% BIOTITE as pervasive mineralization
10% MUSCOVITE as pervasive mineralization
20% FELDSPAR as disseminations and scattered crystals

FROM 43.28MT- TO 64.62MT-
dark grey PYROXENITE ; TALCOSE
Textures noted: MASSIVE
20% MAGNETITE as pervasive mineralization
4474 4480 CPY RICH BAND
5852 5959 PROBABLE SHEAR OR FAULT ZONE; CORE IS BADLY BROKEN UP
6209 6227 PROBABLE FAULT ZONE; CORE IS HEAVILY BROKEN UP
6309 6462 PYROXENITE BECOMES DARK GREEN ; IS NOT TALCOSE
AND CONTAINS UP TO 30% BIOTITE IN THE FORM OF BANDS

FROM 64.62MT- TO 67.86MT-
medium green GABBRO with AMPHIBOLES , FELDSPAR ,
Textures noted: MASSIVE

FROM 67.86MT- TO 69.22MT-
 medium grey RHYOLITE
 Textures noted: MASSIVE , BANDED
 Structures noted: BANDING dip 20,
 10% BIOTITE as pervasive mineralization
 .01% PYRITE as disseminations and scattered crystals
 .01% CHALCOPYRITE as disseminations and scattered crystals
 .01% EPIDOTE as pervasive mineralization
 .1% PYRITE as disseminations and scattered crystals

FROM 69.22MT- TO 73.76MT-
 dark green PYROXENITE
 Textures noted: MASSIVE
 704 7071 ACID TUFF BANDS
 7224 7254 SHEAR OR FAULT ZONE; CORE IS ALL BROKEN UP

FROM 73.76MT- TO 99.67MT-
 med. dark green BASALT
 Textures noted: MASSIVE , BANDED
 5% BIOTITE as laminations, bedded
 5% CARBONATE as microveins
 .3% K-FELDSPAR as microveins
 7376 9967 BASALT IS CHARACTERIZED BY FREQUENT BANDS OR SECTIONS
 WITH 1 TO 2MM SIZED AMPHIBOLE PHENOCRYSTS
 7507 7626 MASSIVE GREY GREEN RHYODACITE
 RSM VLF RESPONSE PROBABLY DUE TO SHEARS OR FAULTS IN
 PYROXENITE

REQH 9967
 IN-HOLE SURVEY AT 99.67 MT-
 GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -68.00
 TRUE AZIMUTH OF HOLE 215

A001			6TH	AUGTH	AGPPH	CU
AUMM			CHINTC	HINTC	CCHINTC	HINTC
ALAB			H-COR	H-COR	H-COR	
ATYP			FA	FA	AA	
ANTH						
A001	2194	2294	4983	.15	0.89	87
A001	4429	4529	4984	.15	000	420
A001	6772	6872	4985	.15	4.59	78
/END						

HOLE B3CH035 BQ GRID NORTH 140.00 GRID EAST -750.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -55.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 96.32mt.

Logged by: M.Drouin on (day/mo/yr)...JUL83

Drilled by: Bradley Bros. JUL83

FROM 0.00MT- TO 2.44MT-
OVERBURDEN

FROM 2.44MT- TO 6.40MT-
dark green PYROXENITE ; TALCOSE
Textures noted: MASSIVE
20% MAGNETITE as pervasive mineralization

FROM 6.40MT- TO 13.78MT-
med. dark green BASALT
Textures noted: MASSIVE
2.5% CARBONATE as microveins
.3% CHALCOPYRITE as blebs
640 704 A FEW ACID TUFF BANDS WITHIN THIS INTERVAL
1344 1350 BASALT IS GARNETIFEROUS

FROM 13.78MT- TO 15.94MT-
med. dark grey QUARTZ-FELDSPAR PORPHYRY with FELDSPAR , QUARTZ ,
Textures noted: PORPHYRITIC , MASSIVE
1% QUARTZ as eyes, augen
20% BIOTITE as pervasive mineralization
.03% MUSCOVITE as pervasive mineralization
10% CHLORITE as pervasive mineralization
1% PYRRHOTITE as disseminations and scattered crystals
1% FELDSPAR as disseminations and scattered crystals

FROM 15.94MT- TO 24.60MT-
dark green PYROXENITE
Textures noted: , MASSIVE
.3% CARBONATE as microveins

FROM 24.60MT- TO 25.15MT-
med. dark grey QUARTZ-FELDSPAR PORPHYRY with FELDSPAR , QUARTZ ,
Textures noted: PORPHYRITIC , MASSIVE
1% QUARTZ as eyes, augen
20% BIOTITE as pervasive mineralization
5% MUSCOVITE as pervasive mineralization
1% SERICITE as disseminations and scattered crystals
2460 2515 PORPHYRY IS GARNETIFEROUS ; SIZE AND QUANTITY OF
GARNETS DIMINISHES RAPIDLY FROM ABOVE CONTACT

FROM 25.15MT- TO 46.02MT-
brown green ALTERED BASALT ; BIOTITIC
Textures noted: , BANDED
Structures noted: BANDING dip 20,
30% BIOTITE as laminations, bedded
10% CARBONATE as pervasive mineralization
1% PYRRHOTITE as disseminations and scattered crystals

2515 4602 ALTERED BASALT; BASALT TYPIFIED BY HIGHLY ABNORMAL
BIOTITE BANDING; LOCALLY GRADES TO ALMOST A DACITE
3362 3371 A FEW GARNETS

FROM 46.02MT- TO 49.22MT-
medium green PORPHYRITIC DYKE with AMPHIBOLES , FELDSPAR ,
Textures noted: PORPHYRITIC
5% FELDSPAR as disseminations and scattered crystals
4602 4922 AMPHIBOLE (20% PHENOCRYSTS, 1 TO 4MM IN SIZE) AND
FELDSPAR (3-5%) PHENOCRYSTS IN A MAFIC MATRIX

FROM 49.22MT- TO 54.56MT-
med. dark green GABBRO with AMPHIBOLES ,
Textures noted: MASSIVE
2.5% CARBONATE as microveins
4922 4953 MASSIVE PYROXENITE DYKE
5258 5303 MASSIVE META-DACITE

FROM 54.56MT- TO 79.86MT-
med. dark green BASALT
Textures noted: MASSIVE , BANDED
2.5% QUARTZ as microveins
2.5% BIOTITE as microveins
2.5% CARBONATE as microveins
1% EPIDOTE as microveins

FROM 57.88MT- TO 60.72MT-
100% of this subinterval is

med. dark green META-RHYOLITE
Textures noted: MASSIVE
.3% QUARTZ as microveins
10% BIOTITE as pervasive mineralization
.3% CARBONATE as microveins
.03% PYRITE as disseminations and scattered crystals
.03% CHALCOPYRITE as disseminations and scattered crystals

6096 6187 PYROXENITE DYKE

6715 6776 BASALT IS FELDSPAR PORPHYRITIC ; FROM 3 TO 7% 1 TO
3MM SIZED WHITE FELDSPAR PHENOCRYSTS; 0.3% OF AMPHIBOLE
PORPHYRITIC BASALT PRECEDES FELDSPAR PHENOCRYSTS

6776 6858 META-DACITE FLOW

6861 6898 FELDSPAR PORPHYRITIC BASALT AS ABOVE; THESE TWO
PORPHYRITIC BANDS MAY BE DYKES AS THEY APPEAR
FRESH AND MASSIVE WHICH IS IN SHARP CONTRAST
TO THE HOSTING BASALT.

7041 7925 CM THICK BANDS CONTAINING AMPHIBOLE PHENOCRYSTS APPEAR
REGULARLY

6934 7019 META DACITE FLOW

FROM 79.86MT- TO 82.90MT-
dark green PYROXENITE
Textures noted: MASSIVE
2.5% CARBONATE as microveins

FROM 82.90MT- TO 85.16MT-
light grey RHYOLITE

Textures noted: MASSIVE
 Structures noted: CONTACT dip 10,
 1Z QUARTZ as eyes, augen
 .03Z PYRITE as disseminations and scattered crystals
 .03Z PYRRHOTITE as disseminations and scattered crystals
 .03Z SPHALERITE as microveins

FROM 85.16MT- TO 92.41MT-
 medium green GABBRO with FELDSPAR ,
 Textures noted: MASSIVE
 Structures noted: CONTACT dip 10,
 8516 9241 GABBRO IS ZONED; FROM 85.16 TO 87.78 GABBRO IS
 FINE GRAINED AND FELDSPAR POOR ; FROM 87.78 TO 92
 GABBRO IS COARSE GRAINED AND CONTAINS 20Z FELDSPARS
 GREATER THAN 1MM IN SIZE

FROM 92.41MT- TO 96.32MT-
 very dark green PYROXENITE
 Textures noted: MASSIVE
 Structures noted: CONTACT dip 80,

REQH 9632
 IN-HOLE SURVEY AT 96.32 MT-
 GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -51.00
 TRUE AZIMUTH OF HOLE 215

A001				GTM AUGTM AGPPM CU		
AUMM				CHINTCCHINTCCHINTC		
ALAB				H-COR H-COR H-COR		
ATYP						
AMTH				FA	FA	AA
A001	1149	1249	4986	.15	3.91	1220
A001	1249	1349	4987	.15	2.06	460
A001	3033	3133	4988	.15	3.02	133
A001	3261	3361	4989	.15	000	136
A001	3361	3461	4990	.15	3.43	196
A001	3461	3561	4991	.15	.15	580
A001	3561	3661	4992	.15	0.41	
A001	4502	4602	4993	.15	000	
A001	5788	5888	4994	.15	000	372

/END

HOLE 83CH036 BQ GRID NORTH 160.00 GRID EAST -400.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -55.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 87.47mt.

Logged by: M.Drouin on (day/mo/yr)...JUL83
Drilled by: Bradley Bros. JUL83

FROM 0.00MT. TO 3.66MT.
OVERBURDEN

FROM 3.66MT. TO 9.09MT.
medium grey RHYOLITE
Textures noted: MASSIVE , BANDED
Structures noted: BANDING dip 35,
10% BIOTITE as pervasive mineralization
1% PYRRHOTITE as microveins

FROM 9.09MT. TO 24.38MT.
med. dark green GABBRO
Textures noted: MASSIVE
2.5% CARBONATE as microveins
2.5% MAGNETITE as disseminations and scattered crystals
.3% PYRITE as microveins
1% PYRRHOTITE as disseminations and scattered crystals

FROM 24.38MT. TO 33.22MT.
med. dark green BASALT
Textures noted: MASSIVE
2956 3322 CORE IS GENERALLY BADLY BROKEN UP; MAJOR FAULT
OR FISSURE ZONE

FROM 33.22MT. TO 40.60MT.
medium grey RHYOLITIC TUFF
Textures noted: BEDDED , BANDED
Structures noted: BEDDING dip 35,
3322 4060 CORE IS PARTICULARLY HEAVILY FRACTURED AND BROKEN
UP; LIMONITE ALONG FRACTURES; MAJOR FAULT OR FISSURE ZONE

FROM 40.60MT. TO 60.96MT.
dark green PYROXENITE ; TALCOSE
Textures noted: MASSIVE
30% MAGNETITE as pervasive mineralization
4480 4572 SHEAR OR FAULT ZONE ; CORE IS BADLY BROKEN UP
4968 5017 SHEAR OR FAULT ZONE ; CORE IS BADLY BROKEN UP
5273 5547 PYROXENITE IS PARTICULARLY TALCOSE AND MAGNETIC

FROM 60.96MT. TO 65.96MT.
medium grey RHYOLITIC TUFF
Textures noted: BEDDED
Structures noted: BEDDING dip 20,
10% BIOTITE as pervasive mineralization
.3% PYRITE as disseminations and scattered crystals
1% CHLORITE as microveins
1% PYRRHOTITE as disseminations and scattered crystals

FROM 65.96MT. TO 75.96MT.
 med. dark green BASALT
 Textures noted: MASSIVE , AMYGDALOIDAL
 2.5% QUARTZ as microveins
 2.5% CARBONATE as microveins
 6596 7596 VERY FRESH LOOKING BASALT
 6718 6754 FAULT OR SHEAR ZONE; CORE IS BADLY BROKEN UP
 7559 7596 RHYOLITE TUFF BANDS

FROM 75.96MT. TO 87.47MT.
 dark green PYROXENITE
 Textures noted: MASSIVE
 2.5% CARBONATE as microveins
 8047 8747 PYROXENITE IS COARSE GRAINED
 RSUM HOLE ABANDONNED; CORE BARREL, TUBE, SHELL, BIT AND
 1 METER OF CORE LEFT IN HOLE; 0.3M OF CAVE OVERLIES
 ABOVE; IMPOSSIBLE OF FISH ANYTHING OUT

REQH 8747
 IN-HOLE SURVEY AT 84.42 MT.
 GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -54.00
 TRUE AZIMUTH OF HOLE 215

A001			STM	AUGTH	AGPPM	CU
A001			CHINTC	CHINTC	CHINTC	
A001			H-COR	H-COR	H-COR	
AMTH			FA	FA	AA	
A001	89	99	4995	.15	000	
A001	1219	1319	4996	.15	.15	
A001	1319	1419	4997	.15	000	
A001	6251	6351	4998	.15	000	
A001	6467	6567	4999	.15	.15	
A001	7059	7159	5000	.15	3.43	

/END

HOLE B3CH037 BQ GRID NORTH -295.00 GRID EAST -800.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -55.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 98.45mt.

Logged by: H.Thiboutot on (day/mo/yr)...JUL83
Drilled by: Bradley Bros. JUL83

FROM 0.00MT. TO 2.40MT.
OVERBURDEN

FROM 2.40MT. TO 18.38MT.
dark green BASALT
Textures noted: PILLOWED , BANDED
Structures noted: BANDING dip 30,
1% QUARTZ as microveins
2.5% BIOTITE as laminations, bedded
1% CARBONATE as microveins
.3% PYRITE as disseminations and scattered crystals
240 1838 COARSE BASALT ; LOCALLY QUARTZ FILLED AREAS
OF IRREGULAR SHAPE

FROM 18.38MT. TO 42.21MT.
dark green GABBRO
Textures noted: MASSIVE
1% QUARTZ as microveins
1% CARBONATE as microveins
.03% PYRITE as disseminations and scattered crystals
1838 4221 TOWARDS THE MIDDLE OF THIS UNIT THE GABBRO GRADES
INTO A PYROXENITE WHICH IS WELL FOLIATED AT 5 TO
CORE NORMAL; GRAIN SIZE VARIES FROM MEDIUM TO COARSE
2551 2685 FINE GRAINED DACITIC TO BASALTIC ROCK

FROM 41.15MT. TO 41.30MT.
100% of this subinterval is

med. dark green DACITIC TUFF
Textures noted: BANDED
Structures noted: BANDING dip 10,
1% PYRITE as disseminations and scattered crystals

FROM 42.21MT. TO 43.40MT.
med. dark green BASALT
Textures noted: TUFFACEOUS , MASSIVE , BANDED
Structures noted: BANDING dip 10,
2.5% BIOTITE as pervasive mineralization
2.5% PYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals
4221 4340 UNIT VARIES IN COMPOSITION FROM BASALTIC TO DACITIC

FROM 43.40MT. TO 98.45MT.
light grey
Textures noted: TUFFACEOUS , FRAGMENTAL
Structures noted: dip 30,
1% QUARTZ as microveins
1% BIOTITE as disseminations and scattered crystals
1% GARNET as disseminations and scattered crystals

1Z CARBONATE as microveins
 1Z PYRITE as disseminations and scattered crystals
 20Z CHLORITE as pervasive mineralization
 4340 9845 PYROCLASTIC SEQUENCE CONSISTING OF 60Z RHYOLITE
 AGGLOMERATE AND 40Z RHYOLITE TUFF; GARNETS ARE FOUND IN
 THE MATRIX
 5185 5288 BASALT WITH SILICEOUS SPOTTING; ALMOST FRAGMENTAL
 IN APPEARANCE; 2-3Z GARNETS IN THIS SECTION
 6864 7291 FINE GRAINED DACITE; MINOR GARNETS
 8333 8364 DACITIC TUFF BAND
 8516 8516 FUCHSITE (?), TOURMALINE BAND
 8857 9348 MATRIX IS MORE MAFIC AND VARIES FROM DACITIC TO
 BASALTIC; FRAGMENT CONTENT DECREASES TO BETWEEN
 40 AND 50Z

REDH 9845
 IN-HOLE SURVEY AT 98.45 MT.
 GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -48.00
 TRUE AZIMUTH OF HOLE 215

A001				GTM AUGTM AGPPM CU		
AUMM				CHINTCCHINTCCHIMTC		
ALAB				H-COR H-COR H-COR		
ATYP				FA	FA	AA
ANTH				FA	FA	AA
A001	4227	4340	4620	.15	2.43	
A001	4340	4440	4621	.15	0.55	
A001	4440	4540	4622	.15	1.10	
A001	5084	5184	4623	.15	000	
A001	5184	5284	4624	.15	000	
A001	5284	5388	4625	.15	4.05	
A001	5651	5751	4626	.15	3.15	
A001	6513	6613	4627	.15	0.41	
A001	6613	6713	4628	.15	0.82	
A001	6713	6864	4629	.15	1.30	
A001	7653	7753	4630	.15	2.50	
A001	7753	7853	4631	.15	0.89	
A001	8138	8238	4632	.15	000	
A001	8238	8338	4633	.15	000	
A001	8338	8438	4634	.15	000	
A001	8438	8538	4635	.15	0.48	
A001	8538	8638	4636	.15	1.51	1
A001	9562	9662	4637	.15	2.06	29
A001	9662	9762	4638	.15	1.99	1

/END

HOLE 83CH038 BQ GRID NORTH 90.00 GRID EAST-1800.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -55.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 120.70mt.

Logged by: M.Drouin on (day/mo/yr)...JUL83
Drilled by: Bradley Bros. JUL83

FROM 0.00MT. TO 13.40MT.
OVERBURDEN

FROM 13.40MT. TO 27.17MT.
med. dark green VARIOLITIC BASALT ; VARIOLITIC
1% QUARTZ as microveins
1% CARBONATE as microveins
.3% PYRITE as disseminations and scattered crystals
2.5% PYRITE as disseminations and scattered crystals
VARIOLITIC SECTION ARE UP TO 0.1M THICK ; WHERE
VARIOLES ARE PRESENT BASALT IS MORE FELSIC(DACITIC)

FROM 24.17MT. TO 31.39MT.
med. dark green BASALT
Textures noted: BANDED , MASSIVE
1% BIOTITE as microveins
.1% CHALCOPYRITE as disseminations and scattered crystals
2.5% PYRITE as disseminations and scattered crystals
2417 3139 UNIT CHARACTERIZED BY NUMEROUS 'DACITIC' BIOTITIC
BANDS

FROM 31.39MT. TO 45.48MT.
med. dark green BASALT
Textures noted: MASSIVE
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
.3% PYRITE as disseminations and scattered crystals
3139 4173 RATHER FRESH LOOKING CONTRASTING TO PREVIOUS BASALT
4043 4173 CONTACT ZONE;BASALT IS ALTERED; QUARTZ VEINING WITH
10% PO AND PY

FROM 41.73MT. TO 43.74MT.
100% of this subinterval is
medium grey RHYODACITE
Textures noted: MASSIVE
2.5% PYRITE as disseminations and scattered crystals
2.5% PYRITE as disseminations and scattered crystals

FROM 45.48MT. TO 62.94MT.
grey green META-DACITE
Textures noted: MASSIVE , BANDED
Structures noted: BANDING dip 35,
2.5% PYRITE as disseminations and scattered crystals
2.5% PYRITE as disseminations and scattered crystals
5715 5852 1-3% MINISCULE GARNETS
4971 4971 POSSIBLE FUCHSITE BAND

FROM 62.94MT. TO 75.59MT.

med. dark green VARIOLITIC BASALT ; VARIOLITIC
 Textures noted: MASSIVE , PILLOWED
 1Z QUARTZ as microveins
 1Z CARBONATE as microveins
 2.5Z PYRITE as microveins
 5Z PYRITE as microveins
 6294 7559 BASALT SHOWS STRONG CONTRASTS IN COLOR; THE NON-
 VARIOLITIC PORTIONS ARE DARK GREEN WHILE THE
 VARIOLITIC BANDS ARE DULL GREY IN COLOR

FROM 75.59MT. TO 81.38MT.
 dark green RHYOLITE
 Textures noted: MASSIVE
 2.5Z PYRITE as disseminations and scattered crystals
 .3Z CHALCOPYRITE as disseminations and scattered crystals
 5Z PYRITE as laminations, bedded
 7559 8138 5 PD BANDS 1 TO 10 CM IN WIDTH ; EXPLANATION FOR
 WEAK MAXMIN RESPONSE
 8138 11369 BASALT IS COMPOSITIONALLY, VARIABLE, UNIT GRADES
 FROM BASALT TO DACITE AND BACK AGAIN ; LOCAL
 VARIOLES PRESENT

FROM 81.38MT. TO 113.69MT.
 med. dark green BASALT
 Textures noted: MASSIVE , BANDED , AMYGDALOIDAL
 2.5Z QUARTZ as microveins
 2.5Z CARBONATE as microveins
 .3Z PYRITE as microveins
 1Z PYRITE as disseminations and scattered crystals

FROM 113.69MT. TO 120.70MT.
 dark green PYROXENITE
 Textures noted: MASSIVE
 1Z CARBONATE as microveins
 .1Z PYRITE as disseminations and scattered crystals
 TALCOSE ALONG FRACTURES

11369 12070
 REQ# 12070
 IN-HOLE SURVEY AT 120.70 MT.
 GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -51.00
 TRUE AZIMUTH OF HOLE 215

A001				6TH	AUGTH	AGPPM	CU
AUMM				CHIMTC	CHINTC	CHIMTC	
ALAB				H-COR	H-COR	H-COR	
ATYP				FA	FA	AA	
AMTH				FA	FA	AA	
A001	2317	2417	4885	.15	000		
A001	2972	3072	4886	.15	.15		
A001	3938	4039	4887	.15	000		
A001	4039	4173	4888	.15	000		
A001	4173	4273	4889	.15	000		
A001	4273	4374	4890	.15	000		
A001	4816	4916	4891	.15	.15		
A001	4916	5016	4892	.15	000		
A001	5349	5459	4893	.15	0.34		
A001	5449	5549	4894	.15	000		

A001	5549	5649	4895	.15	000	
A001	5649	5749	4896	.15	0.55	
A001	5749	5849	4897	.15	.15	
A001	5849	5949	4898	.15	3.53	
A001	5949	6049	4899	.15	000	
A001	6049	6149	4900	.15	000	
A001	6149	6263	4901	.15	.15	
A001	6263	6416	5243	0.17	0.75	
A001	6416	6514	5244	0.17	0.17	
A001	6514	6614	4902	1.68	0.51	180
A001	6614	6714	4903	.15	0.89	
A001	6715	6803	5245	0.17	5.42	
A001	6803	6904	4904	.15	1.58	
A001	6904	7056	5246	0.17	1.03	
A001	7056	7208	5247	0.17	0.00	
A001	7208	7345	5248	0.17	0.00	
A001	7346	7446	4905	.15	0.89	
A001	7446	7598	5249	0.17	0.00	
A001	7598	7751	5250	0.17	1.10	
A001	7751	7803	5251	0.17	0.96	
A001	7803	7903	4906	.15	0.55	
A001	7903	8004	4907	.15	000	
A001	8004	8108	4908	.15	.15	
A001	8108	826	5252	0.17	0.17	
A001	9479	9580	4909	.15	000	

/END

HOLE 82CH 04
PLACER DEVELOPMENT LTD., V.116, EASTMAIN
TWP. 2334, QUEBEC.
CLAIM NO. 404968-2
GRID NORTH -390.00 GRID EAST 1900.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -50.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 131.36mt.
Logged by: M.Drouin (day/mo/yr)... JUN82
Drilled by: Bradley Bros. Ltd. (mo/yr)..JUN82

FROM 0.00MT. TO 9.14MT.
OVERBURDEN

FROM 9.14MT. TO 19.35MT.
dark grey GRANODIORITE with FELDSPARS, GEN. , QUARTZ ,
Textures noted: MASSIVE
Structures noted: CONTACT dip 10,
2.5% QUARTZ as microveins
5% BIOTITE as disseminations and scattered crystals
.3% PYRITE as microveins
.3% CHALCOPYRITE as microveins
.3% K FELDSPAR as microveins
5% CHLORITE as disseminations and scattered crystals
5% EPIDOTE as disseminations and scattered crystals
9.14 19.35 MINOR EPIDOTISATION OF FELDSPARS

FROM 9.44MT. TO 19.35MT.
30% of this subinterval is
med. dark green BASALT
Textures noted: MASSIVE

FROM 19.35MT. TO 38.89MT.
med. dark green BASALT
Textures noted: MASSIVE
1% QUARTZ as microveins
.3% K FELDSPAR as microveins
21.03 21.30 FINE GRAINED GRANITIC DYKE
28.62 29.65 ACID TUFF BANDS CONTAINS 20 %
FINE BIOTITE
30.57 30.84 FINE GRAINED GRANITIC DYKE
32.00 38.89 BASALT IS PROBABLY PILLOWED

FROM 38.89MT. TO 41.54MT.
light grey GRANODIORITE
Structures noted: DYKE ,
10% QUARTZ as macroveins
38.89 41.54 THIS SECTION CONSISTS OF METABASALT INTRUDED BY GRAND-
DIORITE WHICH IN TURN HAS BEEN INTRUDED BY QUARTZ.
ONLY ABOUT 30% OF THIS SECTION CONSISTS OF BASALTIC
MATERIAL

FROM 41.54MT. TO 42.97MT.
med. dark green PORPHYRITIC BASALT

Textures noted: PORPHYRITIC , MASSIVE
15-20% (2-4mm) FELDSPAR PHENOCRYSTS.

FROM 42.97MT. TO 73.58MT.
med. dark green PILLOWED BASALT
Textures noted: PILLOWED , MASSIVE , AMYGDALOIDAL
2.5% QUARTZ as microveins
1% BIOTITE as laminations, bedded
5% CARBONATE as microveins

47.85 51.51 BASALT IS PILLOWED
56.38 66.14 GOOD PILLOW RIMS

FROM 43.58MT. TO 46.63MT.
70% of this subinterval is
med. light grey GRANODIORITE
Textures noted: , MASSIVE

FROM 57.08MT. TO 58.20MT.
100% of this subinterval is the same as 42.97MT. to 73.58MT. except as noted
PILLOWED BASALT
Textures noted: PILLOWED

57.08 58.20 10% PD IN PILLOW RIMS TRACE CPY.
66.14 73.58 BASALT IS ESSENTIALLY MASSIVE.

FROM 69.18MT. TO 72.23MT.
100% of this subinterval is the same as 42.97MT. to 73.58MT. except as noted
BASALT
.3% QUARTZ as microveins
5% K FELDSPAR as microveins
5% EPIDOTE as microveins

FROM 73.58MT. TO 76.81MT.
pale grey RHYOLITIC TUFF;CHERTY,AND SERICITIC
Structures noted: BEDDING dip 10,
5% SERICITE as laminations, bedded
.1% PYRITE as disseminations and scattered crystals

FROM 76.81MT. TO 85.86MT.
BASALT
Textures noted: MASSIVE , BANDED
2.5% K FELDSPAR as microveins
10% BIOTITE as laminations, bedded
1% CARBONATE as microveins
? EPIDOTE as interstitial fillings

76.80 85.86 FOLIATED NON-MAGNETIC

FROM 84.40MT. TO 84.50MT.
100% of this subinterval is the same as 76.81MT. to 85.86MT. except as noted
BASALT
5% GARNET as disseminations and scattered crystals

FROM 85.40MT. TO 85.86MT.
100% of this subinterval is
DYKE
60% QUARTZ as disseminations and scattered crystals
5% GARNET as disseminations and scattered crystals

30% CHLORITE as pervasive mineralization
85.40 85.86 QUARTZ INJECTION IN BASALT UNIT CONSISTS OF QUARTZ
CHLORITE AMPHIBOLS AND SOME GARNETS.

FROM 85.86MT. TO 89.30MT.

dark green MAFIC TUFF;BIOTITIC
Structures noted: BANDING ,
30% BIOTITE as laminations, bedded
1% CARBONATE as microveins

FROM 86.47MT. TO 86.86MT.

100% of this subinterval is

light grey RHYOLITIC TUFF; CHERTY
Structures noted: BANDING ,
2.5% BIOTITE as disseminations and scattered crystals
20% SERICITE as laminations, bedded

FROM 87.47MT. TO 88.23MT.

100% of this subinterval is

light grey RHYOLITIC TUFF; CHERTY
Structures noted: BANDING ,
2.5% BIOTITE as disseminations and scattered crystals
5% SERICITE as laminations, bedded

FROM 89.30MT. TO 98.75MT.

medium green BASALT
Textures noted: MASSIVE
MAGNETIC---(PYRX??)

FROM 90.83MT. TO 92.66MT.

100% of this subinterval is the same as 89.30MT. to 98.75MT. except as noted
BASALT

5% QUARTZ as laminations, bedded
5% BIOTITE as laminations, bedded
5% CARBONATE as laminations, bedded
1% PYRITE as laminations, bedded

FROM 98.75MT. TO 104.97MT.

med. light grey META-DACITE; TUFFACEOUS
1% PYRITE as laminations, bedded

FROM 101.50MT. TO 104.97MT.

100% of this subinterval is the same as 98.75MT. to 104.97MT. except as noted
META-DACITE

1% GARNET as disseminations and scattered crystals

FROM 104.97MT. TO 106.40MT.

META CHERT; CHERTY
Structures noted: BANDING ,
5% GARNET as laminations, bedded
10% PYRITE as laminations, bedded
2.5% CHALCOPYRITE as disseminations and scattered crystals
10% PYRRHOTITE as laminations, bedded

105.00 106.40 A DEFINITE METAL ZONING. UP TO 347 PY IS PREDOMINATE
AFTER 347 PD IS DOMINANT. NO SPHALERITE SEEN

THIS HOLE IS SIGNIFICANTLY DIFFERENT FROM 82-1 AND 82-2
 ONE CAN REALLY SAY THAT THE HOST ROCK IS A META-CHERT.

FROM 100.00MT. TO 100.40MT.

100% of this subinterval is

dark green PYROXENITE
 Textures noted: MASSIVE
 5% BIOTITE as disseminations and scattered crystals
 .07 MAGNETITE as disseminations and scattered crystals

FROM 106.40MT. TO 131.36MT.

med. dark green BASALT
 Textures noted: MASSIVE
 1% QUARTZ as microveins
 1% BIOTITE as laminations, bedded
 1% CARBONATE as laminations, bedded
 .01% PYRITE as disseminations and scattered crystals
 .01% CHALCOPYRITE as disseminations and scattered crystals
 .03% PYRRHOTITE as microveins

FROM 115.80MT. TO 118.10MT.

100% of this subinterval is

med. light green META GABBRO
 Textures noted: MASSIVE
 .07 MAGNETITE as disseminations and scattered crystals

115.20 116.10 POSSIBLE FAULT 20 NE.

126.70 131.36 BASALT BECOMING WEAKLY VARIOLITIC.

END 131.36 131.36 END OF HOLE.

IN-HOLE SURVEY AT 128.60 MT.

GRID AZIMUTH OF HOLE 188.00 VERTICAL ANGLE -47.00

TRUE AZIMUTH OF HOLE 223

A001			GTM AUGTM AGPPM CU Z CUPPM 2W Z 2W						
AUNM			CHINTCCHINTCCHINTCCHINTCCHINTCCHINTC						
ALAB			H-COR H-COR H-COR H-COR H-COR H-COR						
ATYP									
AMTH			FA	FA	AA				
A001	1798	1847	2485	.15	.15	213			
A001	5709	5822	2486	000	.15	1960			
A001	8138	8238	4600	.15	.15				
A001	8238	8339	4351	.15	0.58				
A001	8339	8439	4352	.15	1.37				
A001	8439	8541	4353	.15	1.23				
A001	8541	8586	8487	.15	.15				
A001	8586	8665	4354	22.97	9.46				
A001	8665	8766	4355	.15	000				
A001	8766	8866	4356	.15	0.82				
A001	8866	8967	4357	.15	000				
A001	8967	9086	4358	.15	0.96				
A001	9086	9187	2488	.15	.15				
A001	9187	9287	2489	.15	.15				
A001	9287	9437	4741	0.17	1.30				
A001	9437	9589	4742	0.17	0.00				
A001	9589	9741	4743	0.17	0.00				

AG01	9741	9884	4744	0.17	1.17			
AG01	9884	9979	4359	.15	0.00			
A001	9979	10055	4746	0.17	0.00			
A001	10055	10156	2490	.15	.15			
A001	10156	10299	4745	0.17	0.00			
A001	10299	10408	2491	.15	.15			
A001	10408	10497	2492	.15	.15	248		
A001	10497	10604	2493	6.75	4.80		0.26	440
A001	10604	10644	2494	22.29	7.89		0.19	
A001	10644	10744	2495	.15	.15	222		
A001	11856	12003	4360	.15	3.43			

RASY
/END

TRACE VALUE = 0.15 G/METRIC TON

A P P E N D I X I I

List of Sections, looking West, Grid F &
Extensions, Eastmain, Quebec (1983 Drilling)
Legend for Sections
Diamond Drill Sections @ 1:1250

List of Sections, looking Grid West - Grid F & Extension
Eastmain, Quebec (1983 Drilling).

<u>Sections</u>	<u>Includes DDH's</u>
56+50W	83-10
51+50W	83-09A & 09B
20+50W	83-16 & 83-32
18+00W	83-38
16+00W	83-17
13+00W	83-27
10+50W	83-33
9+00W	83-34
8+00W	83-37
7+50W	83-35
4+00W	83-36
1+00W	83-28
8+00E	83-29
11+50E	A9-02, A9-07 & 83-03
12+00E	A9-01A, A9-01, A9-03, A9-06, 82-17 & 83-01
12+50E	A9-04, A9-05, 82-16 & 83-02
13+00E	83-06, 82-18 & 82-27
13+50E	83-04
14+00E	82-20, 82-23 & 83-08
14+50E	83-05
19+50E	82-06 & 83-07
27+50E	83-30

Section looking Grid North

3+92N	83-18
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LEGEND FOR SECTIONS, EASTMAIN, QUEBEC

ROCK UNITS (order does not denote age)

INTRUSIVES

<input type="checkbox"/>	GRAN	Granite
<input type="checkbox"/>	ALGR	Altered granite
<input type="checkbox"/>	GR/D	Granite dyke
<input type="checkbox"/>	PEGM	Pegmatite
<input type="checkbox"/>	PGD/	Pegmatite dyke
<input type="checkbox"/>	GRDR	Granodiorite
<input type="checkbox"/>	DIOR	Diorite
<input type="checkbox"/>	QZDR	Quartz diorite
<input type="checkbox"/>	GABR	Gabbro
<input type="checkbox"/>	MTGB	Metagabbro
<input type="checkbox"/>	PYRX	Pyroxenite
<input type="checkbox"/>	PPFQ	Quartz feldspar porphyry
<input type="checkbox"/>	PPFX	Feldspar porphyry

FLOWS

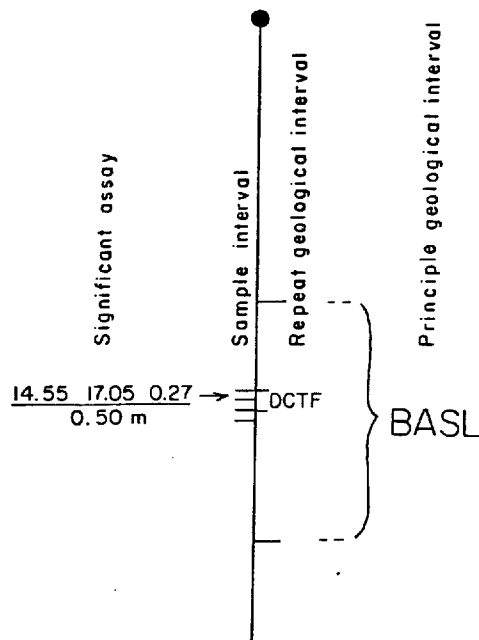
<input type="checkbox"/>	RYDC	Rhyodacite
<input type="checkbox"/>	RHYD	Rhyodacite
<input type="checkbox"/>	RHYL	Rhyolite
<input type="checkbox"/>	RHYO	Rhyolite
<input type="checkbox"/>	MTRY	Metarhyolite
<input type="checkbox"/>	PPRY	Rhyolite porphyry
<input type="checkbox"/>	RYAG	Rhyolite agglomerate
<input type="checkbox"/>	PYRC	Pyroclastic rhyolite
<input type="checkbox"/>	RYPC	Pyroclastic rhyolite
<input type="checkbox"/>	ALRY	Altered rhyolite
<input type="checkbox"/>	DACT	Dacite
<input type="checkbox"/>	MTDC	Metadacite
<input type="checkbox"/>	BASL	Basalt
<input type="checkbox"/>	MTBS	Metabasalt
<input type="checkbox"/>	VABS	Variolitic basalt
<input type="checkbox"/>	ALBS	Altered basalt
<input type="checkbox"/>	PIBS	Pillowed basalt
<input type="checkbox"/>	FRBS	Fragmental basalt
<input type="checkbox"/>	PPBS	Porphyritic basalt

TUFFS & SEDIMENTS

<input type="checkbox"/>	MTSD	Metasediments
<input type="checkbox"/>	GRS#	Graphitic schist
<input type="checkbox"/>	GRSH	Graphitic shale
<input type="checkbox"/>	SILT	Siltstone
<input type="checkbox"/>	CHER	Chert
<input type="checkbox"/>	MTCH	Metachert
<input type="checkbox"/>	VLCL	Volcanoclastics
<input type="checkbox"/>	RDTF	Rhyodacitic tuff
<input type="checkbox"/>	RYTF	Rhyolitic tuff
<input type="checkbox"/>	DCTF	Dacitic tuff
<input type="checkbox"/>	MFTF	Mafic tuff
<input type="checkbox"/>	ACTF	Acid tuff
<input type="checkbox"/>	ALTF	Altered tuff
<input type="checkbox"/>	CXTF	Crystal tuff
<input type="checkbox"/>	CHTF	Cherty tuff
<input type="checkbox"/>	LPTF	Lapilli tuff
<input type="checkbox"/>	MTTF	Meta tuff

Additional Descriptive Terms

ACID or ACD/	Acid dyke
ALVL or ALV/	Altered volcanics
DYKE	Dyke
FALT	Fault zone
MGIF	Magnetite iron formation
MSPO or MXPO	Massive pyrrhotite
OVER	Overburden
PPD/	Porphyritic dyke
QZVN	Quartz vein
TALC	Talc



November, 1983