DIAMOND DRILLING

Area: Dogpaw Lake

Report No: 47

WORK PERFORMED FOR: Metallgesellschaft Canada Ltd.

RECORDED HOLDER: SAME AS ABOVE [x]

: OTHER [ ]

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
K 615448, 590361	W-1	300.8m	Mar/85	(1)
K 590361	W-2	366.4m	Mar-Apr/85	(1)
K 615448	W-2	564.2m	Mar/85	(1)
K 632322	W-4	544.6m	Apr/85	(1)
K 632320	W-5	530m	May-June/85	(1)
"	W-6	941.2m	June-Aug/85	(1)

NOTES: (1) #72-86

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WEISENER LAKE PROPERTY

Final Report

1985 Field Program

by

J. Patel

Metallgesellschaft Canada Limited

November 1985

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SUMMARY AND CONCLUSION

The Weisener Lake property was jointly explored in 1985 by Metallgesellschaft and Teck Corporation with MCL being the operator.

Previously a base metal volcanogenic sulphide occurrence on the property was explored by geophysics and diamond drilling by a number of companies. Most of this drilling had been near surface except for Rio Algom's in 1983, who conducted Deep EM surveys, rock geochemistry and drilled three deep holes, R-1 to R-3, exploring the mineralized horizon along a 300 m length and to a maximum depth of 685 m. Hole R-2 intersected massive sulphides containing 2% Zn, 0.8% Cu and 25 g Ag/t for a core length of 3.4 m. Lithogeochemistry of drill hole samples indicated a strong footwall alteration zone.

Phase I of our program consisted of limited VLF and MaxMin work in selected areas but was mainly designed to test by drilling the area around the known massive sulphides of hole R-2. One hole was added further to the southeast to investigate what appeared to be a strengthening of the geochemically altered zone in this direction. A total of 1776 m was drilled in holes W-1 to W-4, in phase I. Hole W-1 was abandoned short of its target due to poor ice conditions, and holes W-2 and W-3 to the northwest and below drill hole R-2 did not find any massive sulphides. However, DDH W-4 in the southeast intersected a wide massive sulphide zone and a thick sequence of footwall rocks showing alteration. Although the sulphides were not of ore grade, they contained appreciable zinc values in a pyrite-pyrrhotite zone which warranted follow-up drilling.

This was done in the summer of 1985 as Phase II of our program and entailed holes W-5 and W-6 with a total length of 1471 m. Both failed to intersect any massive sulphides or base metal values.

Drill holes W-3, W-5 and W-6 of both drilling phases were drilled from the hanging wall and intersected weak gold values over narrow widths in and above an uppermost graphitic horizon. The last hole, W-6, was collared west of (= in the hanging wall) a weak IP anomaly which had as yet not been explained. This hole encountered a wide zone of disseminated and blotchy sulphides containing anomalous gold values over 17.3 m core length. As our objective was to find massive sulphides, this target was not further tested.

Two areas worthy of further investigation are: an unexplored area of the base metal horizon above hole W-4 and to the southeastof it, and follow up of the wide low-grade gold zone found in hole W-6. However, the joint venture was terminated as these remaining targets were judged not sufficiently encouraging to warrant further expenditures.

INTRODUCTION

A proposal by Metallgesellschaft Canada Limited (MCL) in 1984 to explore the Weisener Lake property of J. Hinzer and J. Ternowesky was accepted by Metallgesellschaft and Teck Corporation, who formed a 50%/50% joint venture, with MCL as operator. Our focus was to locate a stratiform massive sulphide deposit in a mineralized horizon, which had only been partially explored by others.

The near-surface possibilities for a deposit on the property had been exhausted by the previous exploration efforts; however, a review of the results indicated a possibility of success at depth, as pointed out by Z. Dvorak (1984) of Dighem Ltd. on the Deepem results:

> "The deepest conductors of good quality were detected on lines 3+00 N and 4+00 N. They occur between 250 m and 260 m below the surface and appear to constitute the most attractive exploration target on the property."

With sufficient room to find a fair size deposit at the above mentioned target area, an exploration program of diamond drilling in two stages was proposed and subsequently implemented with one additional hole (W-4) added in the southeast to investigate favourable lithogeochemistry results obtained by Rio Algom in their deep drill holes.

The first phase drilling program started on March 8, 1985, and was completed on April 15, 1985. A total of 1,776 m in 4 holes was drilled. Hole W-1 had to be stopped short of target due to poor ice conditions. No significant sulphides were intersected in drill holes W-2 and W-3. The assays in hole W-4 were the best so far obtained in the property, together with a wide footwall alteration zone. Therefore, the second phase drilling was concentrated in exploring to the southeast and below hole W-4.

This phase of drilling was started on May 27, 1985 and was completed on August 22, 1985. The last hole (W-6) in this program took more than two months to complete for a number of reasons: blocky ground conditions, deviation of the hole, a change in the dip of the horizon to an overturned position and numerous mechanical problems with the drill rig.

In addition to the drilling, a small amount of geophysics was completed (VLF-EM, MaxMin and Mag), the surface trench was resampled and 24 protection claims were staked.

LOCATION AND ACCESS

The property lies within NTS block 52-F-5 and is centred at 93°40´W/49°16´N, 80 km south of Kenora in northwestern Ontario (Figure 1). Cameron Lake with its ongoing gold exploration (Nuinsco et al.) is about 6 km to the east.

The nearest town, Nestor Falls, is connected by major roads to nearby cities. Access to the property is by plane, and by skidoo during the winter.

PROPERTY

The optioned property is in Dog Paw Lake Township, Kenora Mining Division. The optioned ground consists of 21 unpatented mining claims registered in the names of Joachim B. Hinzer and John E. Ternowesky. The claims and their expiration dates are:

Claims	No.	Expiry Date
K 590361, K 590362	2	Sept. 23, 1988
K 615319 to K 615323	5	Feb. 24, 1988
K 615448	1	Feb. 24, 1988
K 615457	1	Feb. 24, 1988
K 632320 to K 632322	3	Feb. 24, 1988
K 668481 to K 668484	4	Feb. 14, 1988
K 668585	1	Feb. 14, 1988
K 668591 to K 668594	4	Feb. 14, 1988

These claims have already more than the necessary 5 years assessment credits applied, i. e. they have to be taken to lease at their expiry dates. A further 20 claims were staked in May 1985 to enlarge the property, and 4 more claims were added in June 1985 along the strike extension to the south. These claims are shown in a cutout claim map in Figure 2. The newly staked claims are listed below:

Claims	No.	Expiry Date
K 845310 to K 845313	4	May 4, 1986
K 845314 to K 845317	4	May 6, 1986
K 845408 to K 845415	8	May 5, 1986
K 845416, K 845417	2	May 6, 1986
K 845309	1	May 7, 1986
K 845328	1	May 7, 1986
K 845891 to K 845894	4	June 5, 1986

FIG. 1 Location Map

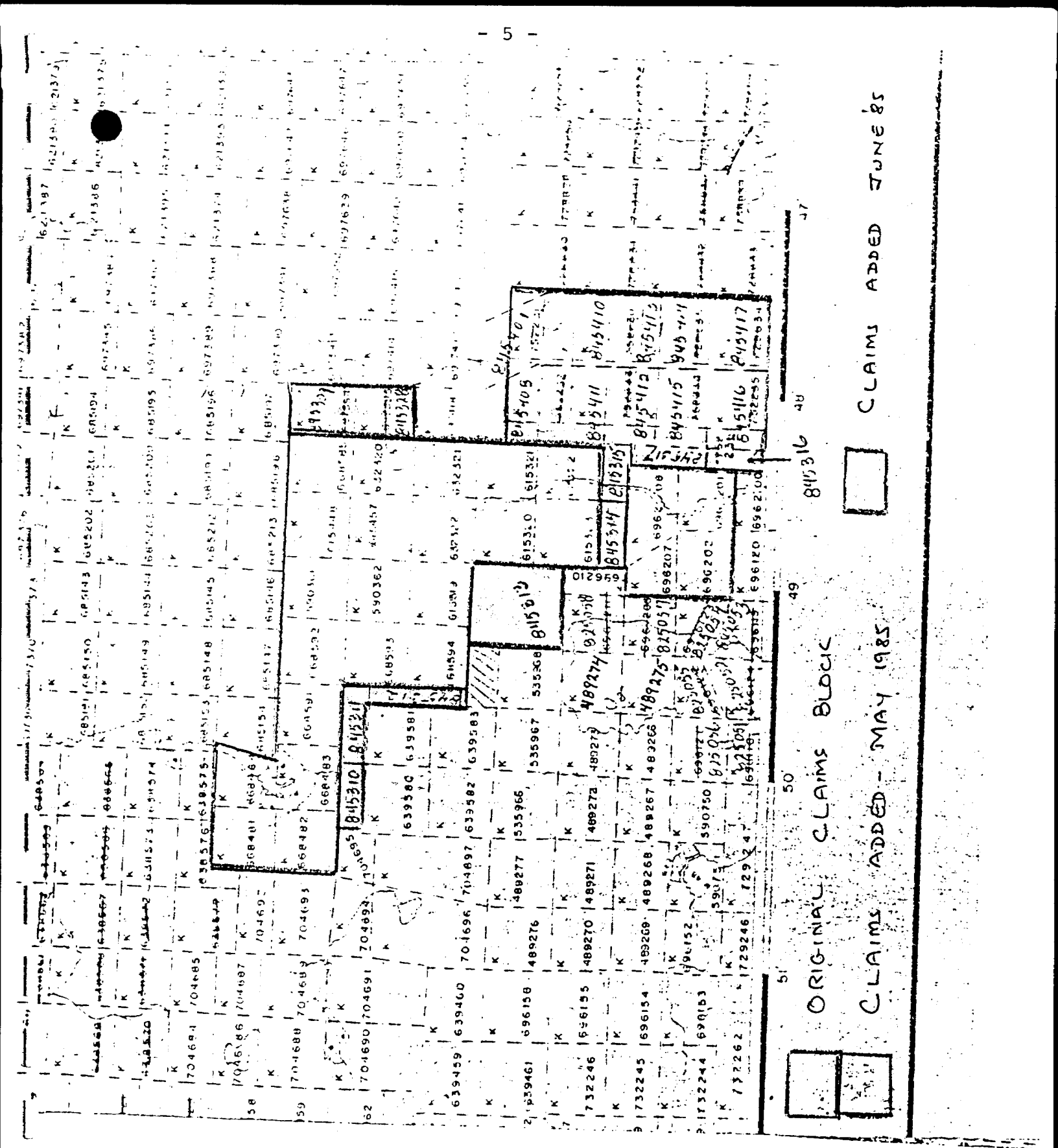


Figure 2: Claim Map

HISTORY

The exploration history of this area prior to our program has been described by J. B. Hinzer (1984) as follows:

"The claims were originally acquired by Noranda as a gold showing early in the 1960's. Following the discovery of Mattabi at Sturgeon Lake, the Weisner Lake claims were optioned by Goldray and adjacent ground to the north and south was examined and drilled by Amax, Selco, and Inco (Davies & Morin 1976). Trenching and shallow diamond drill follow-up of geophysical conductors revealed many Cu, Zn, Ag and barren sulfide showings in the area between the south shore of Little Stephen Lake and the south shore of Weisner Lake. The sporadic nature of the mineralization and its association with gabbro sill margins in all but the Weisner Lake discouraged further follow up. In 1974 Falconbridge Nickel Mines staked and optioned the southern half of the Weisner Lake area, D.D.H. F-4 encountered an estimated 10-30% sphalerite over 3.0' at a vertical depth of 250'. The imminent closing of Falconbridge's Thunder Bay office precluded any further work on this project. Mattagami Lake staked the entire section from Little Stephen Lake to Weisner Lake in 1976 and conducted ground geophysical, geological and rock geochemical surveys. Reluctant to carry out deep drill testing alone, partners were sought. Union Oil in 1980 agreed in principle, but was forced to back out when the budget was cut. The ground came open late in 1981 and was acquired jointly by Messrs. Hinzer and Ternowesky between February 1982 and August 1982. In February, 1983, Rio Algom optioned the ground and drilled three deep holes dropping the option in February 1984 prior to the second option payment."

GENERAL GEOLOGY

The area is part of the Wabigoon Greenstone Belt in northwestern Ontario which hosts the volcanogenic massive sulphide deposits at Sturgeon Lake (Mattabi, Lyon Lake, Sturgeon Lake).

The area is underlain by a typical Archean assemblage of mafic and felsic volcanics. Immediately north of Weisener Lake, a felsic volcanic centre is clearly indicated by a subvolcanic intermediate intrusive body. South and west of Weisener Lake, gabbroic sills have intruded the felsic volcanics; one of these sills was mapped on a pre-option examination visit to the property (see Map 2). The proximity of these intrusive rocks was evidenced by numerous intermediate dikes in hole W-6. Sediments are virtually absent.

The rocks in this region are metamorphosed to the green schist facies.

LOCAL GEOLOGY

The mineralized horizon at Weisener Lake is contained in, and parallel to, a sequence of dacitic tuffs, rhyolite flows and feldspar porphyries which strike NNW to NW and dip steeply, east near surface, vertical and to the west at increasing depth. The footwall rocks (SW side of the horizon) are mostly dacitic tuff, the hanging wall rocks have a larger proportion of rhyolite flows which vary from 25 cm to 10 m wide; the narrower flows are heavily cross-jointed.

A number of graphitic zones over a stratigraphic interval of about 50 m occurs in the hanging wall of the mineralized horizon which makes the geophysical interpretation of deep searching EM methods difficult. As most of the 2500 m long target horizon is under Weisener Lake, diamond drilling is the only exploration tool. The microscopic work suggests that the "graphitic horizons with typical chiastolite-blasts probably represent a former carbonaceous mudstone" (Lauenstein & Lehne, 1985).

On the footwall side the rocks exhibit an increase in sericite and muscovite alteration toward the mineralized horizon.

There are a number of dikes of different sizes and compositions varying from granitic to mafic, particularly in DDH W-6. As there is no good correlation of these from one hole to another, it would be guess work to predict their attitude. In DDH W-6, a 15 m thick dike appears to occupy a fault which offsets the entire stratigraphic section by at least 115 m.

Structurally, the rocks are slightly sheared and brecciated. The narrower rhyolite flows are intensely cross-jointed. The graphitic horizons are usually well sheared. One cross fault is inferred between line 0+0 and 1 S (see Map 1) striking generally E-W and dipping N, probably at a shallow angle.

WORK DONE

Geophysics

From the previous geophysical surveys conducted by the various companies, Pulse EM was found to be most effective for deeper conductors.

The geophysical compilation (Map 1) shows that two parallel conductive horizons extend 600 m across the property from 0+00 to 6+00N. The eastern of these represents a graphitic horizon and the western one is the sulphide horizon, or an overlying graphitic layer.

MaxMin surveys were conducted over the main target horizon to the south of the previous coverage on ice on lines 1+00 S, 2+00 S and 3+00 S, in order to guide deep drilling in this area.

The summary of Z. Dvorak's evaluation of the 1985 MaxMin II results on line 1+00S is as follows:

> "The MaxMin II survey was done on line 1+00 S using coil separations of 100 m and 150 m, and frequencies of 222 Hz, 444 Hz and 1777 Hz. The two lower frequency anomalies on 100 m separation are difficult to evaluate, but 1777 Hz frequency yielded a moderately strong response. In comparison, the 150 m coil separation data yielded well defined responses resulting in consistent, apparently reliable conductance and depth values." (Dvorak, 1985)

It was concluded that the conductor is dipping to the east and the results are consistent with the 1983 DEEPEM results which indicated a conductor of intermediate to moderate conductance to occur at a depth of 40 m to 75 m.

In 1984, during the pre-option examination of the property, a VLF survey was done covering lines 1 S to 7 N. The survey responded well to the mineralization in the trench on line 4+70 N at 1+85 E. This survey also located a strong narrow E-W striking anomaly on line 1+00 N at 2+40 W with weaker responses on the adjacent line. A subsequent check survey done in March 1985 on flagged lines perpendicular to the strike of this anomaly duplicated the results of the 1984 summer survey. A MaxMin survey on rechained line 1N (where the topography permitted the survey) failed to give a response over the VLF anomaly. The VLF anomaly extends on to the lake where it assumes a direction parallel to the shoreline (Map 3), suggesting that the conductor is a surficial feature (clay against cliff). Because of this interpretation it was decided not to drill here.

Rock Geochemistry

Rio Algom conducted whole-rock analysis on the drill core from their three deep holes drilled in 1983. The results indicated sodium depletion and potash enrichment in the immediate footwall of the mineralized horizon. Hole R-1 on line 1+00 N, the southeastern most of the three holes, had the lowest sodium values, highest potassium values and indicated an improvement of the alteration index (Fe_2O_3+MgO/Na_2O+CaO) to the southeast. The MaxMin II survey on line 1+00 S also showed increasing conductivity with depth in this area. Based on this interpretation, hole W-4 was selected to intersect the horizon on 1+50S at a depth of 350 m.

The results of this hole were the best so far on the property with a wide alteration zone in the footwall and 15.4 m core length of sulphides, although the base metal values were not of economic grade. Similar geochemical alterations were found in holes W-2, W-4, W-5 (see Maps 9 and 10). Hole W-1 did not reach the footwall, W-3 did not have the alteration zone and its absence cannot be explained. W-6, the last hole in the program, is interpreted not to have encountered footwall rocks and was therefore not sampled for rock geochemistry (see Map 6).

Diamond Drilling

The following holes were drilled by the joint venture partners and are summarized below. For details, see logs in appendix. Locations are on Map 1, and on long section, Map 8.

Phase I

Hole	W-1
Location	4+50 N, 3+70 E
Azimuth	225°
Dip	-63°
Total Length	300.8 m
Start	March 8, 1985
Finish	March 14, 1985

Hole W-1 was lost at 300.8 m due to poor ice conditions resulting from a freak warm weather period. The hole was short of its target by approximately 50 m.

Hole	W-2
Location	4+50 N, 0+20N, pierce point 4+43 N, 1+20 E -194 m
Azimuth	045°
Dip	-54°
Total Length	366.4 m
Start	March 28, 1985
Finish	April 3, 1985

This hole intersected the sulphide zone at 297 m - 301.2 m. Sulphides are made up of py, po with traces of sph and cpy. The best intersection was 0.46% Zn, 0.07% Cu, trace Ag and 0.03 g/t Au over 0.30 m.

Hole	W-3
Location	4+00 N, 4+62 E, pierce point 4+20 N, 2+46 E - 405 m
Azimuth	225°
Dip	-65°
Total Length	564.2 m
Start	March 14, 1985
Finish	March 26, 1985

This hole, drilled from the hanging wall, passed through two graphitic zones and intersected minor sulphides with low values only. Upper part of the hanging wall graphite zone assayed 1.7 g Au/t and 5.5 ppm Ag over 0.91 m with traces of Zn.

Hole	W-4
Location	0+55 S, 1+55 W, pierce point 1+65 S, 1+85 E - 388 m
Azimuth	059°
Dip	-56°
Total Length	544.6 m
Start	April 5, 1985
Finish	April 15, 1985

This hole, drilled to check a lithogeochemical target, intersected a wide sulphide zone from 516.9 m to 532.3 m containing py, po, sph and minor cpy. The section between 527.7 m and 532.3 m assayed 1.33 % Zn, 0.10% Cu, 8.9 g Ag/t, and 0.03 g Au/t, including 3.7% Zn, 0.10% Cu, 19.2 g Ag/t and 0.07 g Au/t over 0.96 m from 531.3 m to 532.26 m.

Phase II

Hole	W-5
Location	3+08 S, 3+90 E pierce point 2+85S, 1+22 E -405 m
Azimuth	225°
Dip	-63°
Total Length	530 m
Start	May 27, 1985
Finish	June 10, 1985

Hole W-5, drilled to follow up the mineralization in W-4 intersected the zone containing minor sulphides only. 1.4 m assayed 0.12 % Zn, 0.02 % Cu, 4.2 g Ag/t and traces of gold. Similar to hole W-3, this hole intersected 1.8 g Au/t over 0.9 m starting at 323.9 m associated with the upper graphitic zone.

Hole	W-6
Location	3+72 S, 4+68 E, pierce point 0+75 S, 2+00E -685 m
Azimuth	262°
Dip	-63°
Total Length	941.2 m
Start	June 10, 1985
Finish	August 22, 1985

As the northeasterly dip of the horizon near surface changed to a southwesterly one at depth and as the hole deviated towards the north, the horizon was intersected much deeper than planned (at 812 m). The final length of the hole was 941.2 m instead of the planned 650 m. After the hole encountered the interpreted main mineralized horizon with disappointing results at a vertical depth of nearly 700 m, one of the graphite zones and the hanging wall rocks were repeated due to faulting (see Map 6). No rock geochemistry was therefore done on this hole as it is interpreted to have ended in hanging wall rocks. Apart from low gold values intersected in the upper graphitic zone, two zones: 3.1 m grading 1.3 g Au/t and 9.6 m grading 0.64 g Au/t, were intersected, separated by 4.6 m of granitic dike. The second (9.6 m) section had granitic dike inclusions. The gold mineralization occurs in a partly oxidized sulphide zone in felsic volcanics at a vertical depth of 200 m.

The reexamination of three drill holes of Rio Algom and the logging of our holes show that massive sulphides occur in narrow sections (except in W-4) and are generally rich in pyrrhotite, containing sphalerite as specks, blebs and stringers. Copper is normally found remobilized into fractures across the banding in the massive sulphides. Pyrite occurs in variable but usually small amounts in narrow sections except in W-4 where an appreciable pyrite zone containing zinc was intersected. Pyrrhotite and minor pyrite also occur in the walls as fine disseminations, blobs, fracture fillings and along the foliation.

The samples of the trench on section 4+62N assayed 1.7 m at 3.26% Zn, 0.51% Cu, 24.7 g/t Ag and 0.05 g/t Au.

All the holes drilled from the hanging wall intersected weak gold values (up to 1.8 g/t over 0.9 m core length in W-5) in and at the hanging wall of an upper graphitic horizon. Hole W-6 was collared west of a weak IP response obtained by previous operators. This response is caused by disseminated and blotchy pyrite and pyrrhotite in altered rhyodacite which is still partly oxidized near surface to a depth of intersection (200 m vertical). This zone contains low but anomalous gold values (0.59 g/t) over 17.3 m core length.

CONCLUSION

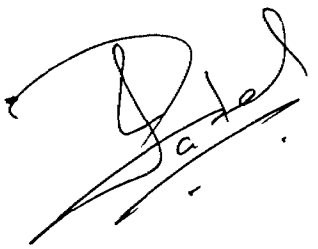
The 1985 program on the Weisener Lake property included limited geophysical surveys, rock-geochemistry on drill core and the drilling of 3247.2 m in six core holes in two campaigns.

This work failed to find any massive sulphides in the area around the known massive sulphides intersected in hole R-2. Only hole W-4 on section 1+50S intersected 15.4 m of sulphides, a better section of 4.6 m width assayed 1.33% Zn, 0.10% Cu, 8.9 g Ag/t and 0.03 g Au/t, including 0.96 m grading 3.7% Zn, 0.10% Cu, 19.2 g Ag/t and 0.07 g Au/t.

Rock geochemistry shows strengthening of alteration towards the southeast. Although holes W-5 and W-6 failed to intersect massive sulphides, the alteration is still persistent and requires investigation at shallower depth in the horizon to the southeast.

The last hole of the program, W-6, intersected a 17.3 m zone of sulphides containing anomalous gold values. This zone underlies a known weak IP anomaly previously not tested, and needs further testing.

The joint venture partners did not find enough encouragement in the drilling results to continue investigating the massive sulphide zone. The anomalous gold values in hole W-6 was not followed up as it would be basically gold exploration, for which there were no funds available. The joint venture was subsequently terminated and the property returned to the owners.



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Diamond Drill Record

Hole: W-1

Page: 1

Property: WEISENER LAKE
Location: 4+50N/3+70E
Azimuth: 225°, -63° dip
Elevation: Lake
Core Size: BQ

Start: March 8, 1985
Finish: March 14, 1985
Length: 300.8 m
Purpose: To extend R-2 mineral zone
Logged by: J. Patel

Acid & Tropare Tests, corrected

	Azimuth	Dip
30 m	-	-63°
50 m	-	-63°
100 m	220°	-63°
150 m	-	-63°
210 m	220°	-65°
250 m	-	-64°

0 - 16.2 m Casing

16.2 - 16.6 m Rhy tuff. Gray, massive, fractured with hematite stains in cracks. Few grains py.

16.6 - 19.1 m Possible alt. gabbro.
Banded quartz and chloritic green bands of 50% each. Folded and contorted with both contacts sharp. Upper broken and lower at 30° to CA.

19.1 - 26.5 m Rhyolite - upper part pinkish changing to greenish grey. Brecciated with qtz-carb cementing.

26.5 - 29.6 m Same as 16.6 - 19.1 m: upper contact 15-20° to CA and lower gradational with banded rhy.

29.6 - 46.2 m Rhyolite -
light grey, brecciated, hematite-lined fractures. Fracture either // to banding or to CA. Otherwise rhy is fine-grained and massive with py peppering.

42.6 - 43.1 m Porphyry dike - sheared. Upper contact 30° to CA. Somewhat chilled contacts.

46.2 - 47.1 m Gabbro dike - medium-grained, green. Upper contact 40° to CA, lower at 15 - 20° to CA.

47.1 - 114.9 m Rhyolite-dacite - fine-grained massive grey-green changing to light-green and grey. Fractured and lined with hematite. Disseminations of py crystals. Locally intensly brecciated, bleaching and alt.around the cracks. Few qtz stringers with carborate and py crystals. Some fractures // to CA. At 79.9 m narrow silicious bands with py crystals at 90° to CA. After 60 m the py is only occasionaly present. At 86 m core in blocks,at 94 m minor shear 15-20° to CA, at 94.5 m 3 cm shear 35° to CA. Hematite in fracture persistant but less frequent. 109.4 m 6" cherty (sample #372 @ 93.7 m).

114.9 - 120.7 m Dacite-rhyolite - light grey coloured, fine-grained massive with hematite staining on fractures and very fine py crystals. Cherty bands at 10 to 20° to CA contain py.

120.7 - 134.7 m Dacite with rhyolite sections. Green-gray with light coloured rhyolite and chert bands.

120.7 - 121.0 m 0.25% pyrite in fine cracks and blebs.

134.7 - 135.3 m Altered rhyolite with 15 cm on contact is pyrite rich (as fine-grained bedded) at 10° to CA, terminating in 1 cm qtz carb stringer with coarse py on contact.

135.3 - 144.2 m Feldspar porphyritic tuff. Grey green with up to 4 mm feldspar crystals and 0.5 % py. Slips hematite covered. U.C. 20° to CA. Lower contact grades into chlorite and pyrite rich section.
142.5 - 144.2 m py-rich section first 60 cm contain 35-40% py, fine-grained and // to schistocity. After 143.1 m, overall 5% py.Lower contact 20° to CA.

144.2 - 145.5 m Rhyolite-porphyritic. Grey with pinkish tinge - chert bands. Lower contact to pyroclastics at 35-40° to CA.

145.5 - 160.9 m Agglomerate.
Rhyolite-chert fragments few mm to 10 cm size in grey coloured rhyolite. Fractured fragments and matrix, few py crystals in fragments and on contacts.

147.8 - 150.6 m Same with quartz up to 25% as fragments. Rusted look and many hematite lined fractures. Schistosity at 30o to CA. Section of heavy hematite alt. lower contact 35° to CA.

160.9 - 184.7 m Lapilli tuff? (sample 373 @ 165.2 m).
Layered green rock shows folding. Schistosity from // to CA to 30° to CA. Gradual increase in lapillis after 167.0 m when it looks like agglomerate and decreases again after 174.4 m.

Two 20 - 30° fractures with increased hematite staining at 172.5 m. Shearing at 5° to CA. to // to CA. and gentle folding. 180.75m onward hematite staining decreases as rock is more massive.

184.7 - 194.9 m Rhyolite tuff with cherty bands and carbonaceous layers. Fine py grains throughout. Schistosity at 25 - 30° to CA. Broken core at few sections (186.7 m, 187.2 - 187.8 m, 189.0, 192.3 - 193.0 m). Last 1 m has abundant carbonaceous bands and chert at angles of 35-40° to CA. Fine cracks filled with py at 190.2 m, 191.7 m.

194.9 - 195.7 m Graphite-pyrite-chert zone. Graphite with py and chert occurs in narrow sections. Py is associated with graphite. LC 45° to CA with layers of peppered py. Over 2 cm 50% py.

195.7 - 203.6 m Rhyolite tuff. Grey colour, massive. No hematite staining - fine py disseminations. Py in most of the core is covered with a halo of hematite alt. At 201.8 m, 8 cm with py in stringers, mostly following fractures with hematite margins. After 202.0 m few darker qtz bands (glassy) @ 30° to CA. Py at 202.0 m and 203.5 m.

203.6 - 206.0 m Banded rhyolite with chert and carbonaceous layers. Dark grey in colour. Few sections of py with chert and carbonaceous bands at 203.8 m, 204.5 m, 204.8 m and 205.0 m. Py occurs only as thin stringers up to 5 mm wide, containing 50% py.

206.0 - 217.9 m Dacite-rhyolite tuff. Grey coloured with green tinge. Sections of pink feldspar-rich and chert bands. At 214.6 m hematite staining on fractures. At 216.4 m vuggy section for 30 cm with Fe staining. Last 1 m darker coloured ending in dark-grey similar to 203.6 - 206.0 m. LC 50° to CA.

217.9 - 225.9 m Dacite with graphite and py. Grey coloured, graphite in fractures and massive with pyrite.

218.1 - 218.2 m Py as blebs about 5%.
218.6 - 219.1 m higher graphite with 8-10% py
219.8 - 220.2 m higher graphite with 5-7% py
217.5 - 225.0 m 5% carbonate in stringers at all directions. Chert bands @ 5-15° to CA.

225.9 - 258.8 m Rhyolite-dacite. Light grey in colour.

231.6 - 232.1 m mottled look with dark blebs containing po-magnetite.
232.3 m 232.3 m 13 cm section pink with pink carbonate(?).
232.9 - 233.6 m Pink carb with cherty section at both contacts. Similar at
235.3 m with a near // to CA fracture. Carbonate in fine stringers persistent but less than above. Similar pink carb repeats many times and at places with chert bands. The pink carb could be hematite staining.
Core is massive and breaks at 40-45° to CA. Calcite in fine stringers mostly at 80-90° to CA. Faint bedding at 35° to CA.

257.6 m onward specks of py increasing with depth. Lower contact 30° to CA. Lower contact with chloritized gabbro bands and rhyolite.

258.8 - 260.5 m Rhyolite. Light grey siliceous in beginning - alt & chloritized in lower part. Py in fine stringers and blebs 2% or less. LC 45° to CA.

260.5 - 267.9 m Gabbro. Green coloured fine-grained on contacts, coarse in middle UC at 45° and lower at 40° to CA. Magnetite and py grains. Py increases in last 30 cm.

267.9 - 300.8 m Rhyolite. Grey, massive & fine-grained. Few chert and alt bands. Po as blebs and grains. Changes to alt rhy with dark bands and cracks showing alt. Bands vary from near // to CA to 65° to CA.

299.3 m 8 cm with py blebs in carbonate alt. section. Less than 3% py followed by brecciated and recemented rock.

299.6 m 8 cm of brecciated rhyolite in calcite stringer vein followed by broken cores.

300.8 m Hole ended in rhyolite.

Hole abandoned at 300.8 m due to poor ice conditions resulting from an unusually warm weather period.

Sample No.	From (m)	To (m)	Length (m)	Zn ppm	Cu ppm	Ag ppm	Au ppb
1456	142.7	143.2	0.5	89	170	0.5	94
1457	143.2	144.4	1.2	83	35	<0.5	67
1458	147.8	149.4	1.6	63	21	0.5	6
1459	149.4	150.5	1.1	100	50	1.0	8
1460	203.5	204.4	0.9	46	50	<0.5	29
1461	204.5	205.6	1.1	66	50	0.5	81
1462	207.3	207.9	0.6	110	32	0.5	26
1463	218.08	219.08	1.0	150	84	1.0	10
1464	219.08	219.5	0.42	96	33	0.5	2
1465	219.5	220.3	0.8	160	73	1.0	8
1466	231.4	231.8	0.4	120	30	1.0	<2
1467	259.1	259.4	0.3	26	41	1.0	250

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Diamond Drill Record

Hole: W-2

Property:	WEISENER LAKE	Start:	March 28, 1985
Location:	4+50N/0+20W	Finish:	April 3, 1985
Azimuth:	45°, -54° dip	Length:	366.4 m
Elevation:	Lake + 35 m	Purpose:	To extend R-2 mineral zone
Core Size:	BQ	Logged by:	J. Patel

Acid & Tropari Tests, corrected

	Azimuth	Dip
14 m	-	54°
50 m	-	52°
100 m	46.5°	51°
150 m	-	50.5°
213 m	46°	49°
250 m	-	48°
260 m	48.5°	47°
300 m	46.5°	46°
350 m	48.5°	45°

0 - 4.3 m Overburden and casing.

4.3 - 12.5 m Dacite tuff. Grey coloured, fine-grained brecciated. Cracks with alt. margins and rust stains to 9.8 m. Blebs of py at 10m and 12 m. The blebs of py are made up of disseminated py. Blocky core to 7 m and at 8.1 m, 9.9 m and 10.2 m. Lower contact uneven.

12.5 - 15.9 m Feldspar porphyritic tuff. Grey-green colour with variable amount of feldspar xals. 1 to 1.5 mm size and concentration up to 10%. 14.0 - 14.3 m buff grey section with 2 mm diam qtz eyes, has sharp contact upper at 45° to CA and lower at 70-75° to CA. Lower contact of feldspar porphyritic tuff broken in blocks and chips.

15.9 - 16.8 m Dacite tuff. Grey coloured, cracked and recemented with carbonate. Lower contact 45° to CA.

16.8 - 21.6 m Cherty rhyolite. Grey, fine-grained glassy aphanitic, brecciated and recemented with qtz-carb.

19.8 - 20.6 m light grey colour, brecciated. Chert fragments in bands at 40° to CA. Lower contact at 35° to CA.

21.6 - 50.1 m Dacite tuff. Grey colour, medium fine to fine-grained, brecciated. Cracks filled with carb. Sections of rhyolite and cherty rhyolite. Banding or schistosity vague at 40-50° to CA. Narrow feldspar porphyritic tuff sections.

25.5 m 30 cm broken core in chips.
27.0 m 10 mm carb stringer in a fracture at 30-35° to CA banded with qtz.
31.9 - 33.1 m cherty section
34.1 - 34.4 m cherty section
34.8 - 36.0 m cherty section
38.0 - 38.4 m cherty section
Contacts of cherty sections vary 30 to 45° and schistosity of banding 40 - 50°.
32.0 - 32.3 m cherty with pinkish section at 25 - 30° to CA, with 4 cm of pyritic section, central part alt & oxidized - chlorite-epidote alt.
36.2 m 5 mm chloritic stringer with py blebs @ 10-15° to CA.
More silicious section at ~30 - 35° to CA.
45.5 - 46.6 m well banded at 35° to CA with dark bands.
45.5 - 46.2 m pinkish coloured matrix with darker bands, few py xals. <1% py.
46.6 - 47.1 m dark qtz eyes. Fractured and recemented with carb in all directions, lower contact 35° to CA.

50.1 - 54.6 m Feldspar porphyrtic tuff. Grey-green with lighter green sections. 1-2 mm feldspar xals, at times well formed and sharp.

50.6 - 51.3 m bleached to light green.
52.4 m 1.5 cm cherty, well-fractured vein with carbonate.
52.7 - 52.9 m section with 2 cm size chert fragments.
53.6 - 54.6 m banding at 35° to CA.

54.6 - 58.6 m Dacite - green-grey fine to medium-grained. Banded at 35° to CA. Schistosity at 40° - core breaks at 40°. Lower contact 40° to CA.

58.6 - 70.7 m Feldspar porphyritic tuff. Similar to 50.1 - 54.6 m.
63.4 m 2 cm carb at 40° to CA.
69.3 - 70.7 m silicious.

70.7 - 75.0 m Dacite - rhyolite, with cherty bands, 25° to CA.

73.0 - 74.5 m Porphyritic with feldspar xals. Small section with up to 35% feldspar xals.
74.5 - 75.0 m light green, banded with darker green, few chert bands @ 30° to CA.

75.0 - 84.3 m Rhyolite. Grey with pink bands 35-40° to CA, well banded.

82.1 - 83.1 m diffused feldspar xals.
83.2 m banded with feldspar xals 10° to CA. Py coating on cracks.

84.3 - 86.0 m Dacite-rhyolite. Green-grey colour, upper contact 40° to CA. Lower contact broken.

84.4 m disseminated py in bands @ 40° to CA
85.3 - 85.5 m brecciated dacite fragments recemented in white-buff carbonate & qtz. Both contacts 25° to CA.
85.6 m 4 mm wide chert with qtz and py blebs.
85.7 - 86.0 m 40% dark qtz eyes.

86.0 - 91.0 m Rhyolite - grey coloured, fine-grained to aphanitic, at places salmon-pink tinge, lower contact 45° to CA.

91.0 -107.6 m Dacite-rhyolite tuff. Grey coloured blotches of py dissemination in chlorite matrix. Some of these are elongated at 45° to CA., others have different directions. Overall less than 1% py.

96.8 m 2.5 cm of pink and white chert followed by py in irregular cracks and another chert band 1 cm wide.
Few feldspar xals.
Banding at 25-30° to CA.
Py framboids carry po and magnetite, in particular after 100.3 m.
Size of these framboids - or bombs? getting larger. One at 107.6 m 5 cm long x 2.5 cm wide and do not cross the core. 50% or so is po which is magnetic. Mostly they are at 45° to CA.

101.0 - 101.5 m Feldspar xals.

101.5 - 102.1 m mottled with possible chlorite blebs. Well banded at places - 40° to CA. Numerous chert bands.

107.2 - 107.6 m mottled look.

107.6 - 138.5 m Rhyolite - grey coloured with salmon-pink tinge & chert bands. Lower contact at 45° to CA

110.0 - 110.6 m intensely fractured and recemented with qtz-carb. One fine hairline stringer of py at 40° to CA.
Core is blocky and lined with hematite.

111.0 m py with rust margin in cracks up to 4 mm wide.

112.2 m Pink chert band at 25-30° to CA.

113.4 - 113.7 m py

113.7 - 114.0 m banded with chert and chlorite bands, 35° to CA.

114.9 - 119.9 m Pink bands and matrix.

119.5 - 121.6 m grey green with feldspar xals. Feldspar porphyritic tuff.

121.6 - 129.6 m pinkish colour - some feldspar xals and qtz eyes.

124.5 m shear and fault gauge - ~40° to CA.

129.6 - 133.5 m feldspar porphyritic dacite tuff - grey coloured up to 5 mm feldspar xals and sections with up to 30% feldspar.

133.5 - 138.5 m pinkish colour decreasing, feldspar xals are finer grained.
At places py blebs and po.

138.4 m 3 cm light grey chert band, upper contact 65-70° and lower 35-40° to CA.

138.5 - 151.2 m Feldspar porphyritic dacite tuff. Grey-green - first 1 m lighter green gradually changing to grey. 1-3 mm size feldspar xals, few to 4 mm size. Py-po blebs. Total less than 2% sulphides.

151.2 - 187.9 m Dacite. Grey colour with green tinge, chert bands - disseminated py, po. Shear planes contain py coatings.

157.0 - 158.8 m banding at 40° to CA, bands of dark chlorite blebs and few py blebs.
159.4 - 159.7 m bleached to buff-brown colour.
160.3 - 162.8 m feldspar xals 10-15% 1-3 mm size.
162.8 - 164.6 m chert bands.
164.6 - 165.5 m feldspar xals 5-7%.
165.5 - 168.3 m tuffaceous - banding at 45° to CA.
168.3 - 168.6 m green alt & bleached.
168.9 m brecciated.
170.4 m chert bands 40° to CA.
171.9 - 173.0 m fragments of rhyolite, largest 6 x 1.8 cm, oval shape.
172.5 - 173.0 m chert bands @ 45° to CA.
172.9 - 173.2 m light green colour with feldspar xals.
174.4 - 175.0 m rhyolite.
175.0 - 181.5 m feldspar xals and sections of rhyolite. Feldspar up to 5 mm size, bleached and alt at places.
184.7 - 185.0 m feldspar xals in bands @ 40° to CA.
186.8 m cherty bands.
187.5 - 187.7 m bleached over 20 cm, 5 minor faults on upper contact, lower at 40° to CA.
188.1 - 188.2 m fracture at 20° to CA, lined with py.

187.9 - 189.6 m Rhyolite grey coloured, aphanitic, fractured and recemented with carb. At 189.6 m 8 cm of chert, upper contact uneven, lower at 35-40° to CA.

189.6 - 201.6 m Dacite tuff. Grey green colour, medium-fine grained feldspar xals at places.

197.8 - 201.6 m brownish biotitic matrix with dark blotches and feldspar xals.

201.6 - 221.6 m Dacite - dacite tuff. Green-grey colour, at places bleached. Sections of brown biotitic matrix. Lower contact 85° to CA.

202.1 - 202.4 m biotite rich sections as stringers or in cracks over 30 cm. Stringers from 5 mm to 2 cm wide and contorted.
Other brown matrix sections are:
211.7 - 212.9 m
213.2 - 214.0 m
217.8 - 218.2 m
206.7 - 208.8 m chert bands
214.7 m 15 cm shear and fault zone 40-45° to CA
218.2 - 221.6 m feldspar porphyritic dacite tuff.

221.6 - 229.6 m Rhyolite tuff. Grey, banded with pinkish tinge.

221.6 - 223.3 m fine grained, banded at 35-40° to CA., brecciated and recemented with qtz-carb. Chert stringer contorted and contain rock fragments.
224.0 m 10 cm qtz carb with rock fragment.
224.1 - 224.4 m cherty.
224.4 - 226.2 m green-grey colour. Coarse-grained porphyritic and sericitized tuff.
226.2 - 229.6 m Salmon-pink chert banding at 40° to CA.

229.6 - 232.4 m Dacite tuff, grey-green with feldspar xals.

230.4 - 231.3 m brown matrix (sample 371 @ 231 m)
231.3 m 2 cm white qtz at 45° to CA

232.4 - 257.1 m Rhyolite - dacite - tuff. Grey coloured with pinkish and brownish bands and salmon coloured matrix. Alt around cracks. Mottled look at places, banding varies from 35 - 50° to CA.

244.6 m 5 mm qtz-muscovite-carb stringer with py on a slip of minishear. Sericite alteration.
249.6 m 15 mm qtz carb stringer @ 45° to CA. Last 30 cm mottled with brown matrix and dark blotches. Lower contact grades into feldspar-porphyritic-dacite tuff.

257.1 - 257.9 m Feldspar porphyritic dacite tuff. Grey green. Coarse feldspar xals 3 - 4 mm size and about 25% by volume. Upper contract @ 45° to CA.

257.9 - 295.0 m Rhyolite-dacite tuff similar to 232.4 - 257.1 m. Brown biotite matrix from 257.9 m onward.

259.9 m 15 cm white qtz with hairline chlorite stringers. 1 bleb of py, one of cpy and one larger one of po with cpy and sph.

261.5 - 286.8 m mottled look - brown matrix, dark blotches. Few brown bands at 45° to C.

279.8 - 280.7 m) matrix lighter pink coloured and blotches of possible dark

281.6 - 282.1 m) qtz.

281.9 m 3 cm wide band with 30% py.

286.8 - 301.2 m well banded at 45° to CA.

287.9 m fracture lined with py.

287.9 - 288.0 m cpy remobilized in fracture with py, over 15 cm length more than .25% Cu.

288.0 m onward broken core with py on fracture surfaces. Few places remobilized cpy with po. Py is still less than 2%.

292.3 m increase in sulphide - mostly py in stringers. At 292.6 m, 3 cm with 10% py // to schistosity 45° to CA.

295.0 - 297.0 m 2% py in stringer // to schistosity. Banded with biotite bands 45° to CA.

297.0- 301.2 m Sulphide zone, with banded biotite.

297.0 - 297.2 m Py and sph specks, total 4% py.

297.2 - 297.5 m 35-40% sulphide. Mostly py with blebs of sph and remobilized cpy in cracks. Sph less than 1.5% and cpy less than 1%.

297.5 - 297.8 m 3-4% po with sph specks, sph less than .5%.

297.8 - 301.2 m 2-3% py, fine peppering and xals in fractures. Stringer // to schistosity in sericite, muscovite alt dacite. Py on contacts of qtz carb.

301.2 - 312.4 m Rhyolite. Grey coloured banded with light grey bands rich in carb @ 45° to CA. Few chert bands.

312.4 - 313.8 m Carbonaceous zone - banded with chert at 50° to CA. Some carbonate with py xals and py in fractures. Lower contact at 45° to CA with peppered py.

313.8 - 318.7 m Rhyolite tuff. Grey colour, banded with salmon-pink chert bands and some bleached bands @ 50° to CA. Lower contact 40° to CA.

318.7 - 319.0 m Feldspar porphyritic tuff. Grey colour. White feldspar xals. Sharp contacts, upper at 40° and lower at 50° to CA. Feldspar cloudy and elongated in 45-50° to CA direction.

319.0 - 330.4 m Dacite tuff. Banded light and pink coloured. Few fractures filled with carb. Few po slivers in cracks // to schistosity at 45° to CA.

328.3 - 330.4 m silicious, then above.
328.6 m chert, gtz carb band 2.5 cm at 55° to CA. Lower contact cherty @ 60-65° to CA.

330.4 - 330.9 m Carbonaceous, cherty section. Grey-dark grey, banded at 60-65° to CA. Lower contact 60° to CA.
330.4 m 1 cm carbonaceous with py xals
330.4 m 12 cm of pink brown chert band followed by 15 cm of carbonate band with both contacts with py. Upper 3 mm with py and lower 2 cm of py xals 10% py total. Both contacts at 60° to CA. Py in shear planes.

330.9 - 335.9 m Rhyolite tuff, grey colour, banded. Lower contact 45° to CA.
331.9 m 30 cm carbonaceous band with py stringer @ 50° to CA.
332.5 m pink garnets over 25 mm width of a 7.6 cm basic dike. Lower contact of this basic dike also has few garnets.
334.2 m 10 cm of contorted carb-chert band.
335.4 rusty py in a stringer - vuggy.
335.45 m vuggy carbonate stringer @ 70° to CA.
335.6 m py in shear planes.

335.9 - 340.6 m Rhyolite. Grey purplish massive, coarse-grained to fine-grained po in specks and bands. 337.2 m chert with carb stringer and bleb of po. Py xals in layers and slivers of py in shear planes. Some sections with qtz eyes. Lower contact 50° to CA.

340.6 - 343.6 m Dacite - rhyolite tuff. Grey colour, banded. Py xals all over ~2%. 1 cm qtz with py on contact at 342.0 m, 40° to CA.

342.5 m 10 cm alteration with sharp contacts and pink garnets @ 45° to CA.

343.6 - 347.9 m Dacite tuff - rhyolite tuff. Green grey, banded with qtz eyes, bands and pink brown bands (all with qtz eyes). Lower contact 50° to CA.

344.4 m graphitic band with py.
344.6 m rusting py in qtz stringer.
346.1 m onwards dark carbonaceous bands.
347.0 m 12 cm carbonaceous argillite with py in cracks and cross-cutting.

347.9 - 354.4 m Graphitic tuff.

347.9 - 348.4 m 50-70% graphite, 8-10% py, little carb, chert. Py bands at 60-65° to CA.
348.4 - 350.8 m 30-50% graphite. Chert and finely disseminated py xals.
350.8 m 10 cm qtz.
351.1 - 351.4 m fine stringer of py xals at 15-20° to CA <3% py.
351.4 - 354.4 m 20% or more graphite. Chert carb bands and py stringers. 3 - 4% py banding at 65-70° to CA. Smoky qtz stringer.

354.4 - 356.1 m Carbonaceous banded tuff. 10% carbonaceous dark bands in grey, light-brown chert bands. Py in small section. Lower contact @ 80° to CA.

356.1 - 356.7 m Graphite tuff.

356.3 m 15 cm of 15% py.
356.5 - 356.6 m chert, contorted.
356.6 - 356.7 m graphite, chert, carb and 10 to 15% py.

356.7 - 358.4 m Carbonaceous tuff. 5-8% carbonaceous bands in greenish-brown cherty fine-grained rock. Grey bands have qtz eyes, bands at 65-70° to CA. Lower contact uneven at ~70° to CA.

358.4 - 364.9 m Rhyolite tuff. Dull grey with greenish buff tinge.
358.4 - 361.1 m fine qtz eyes 1 mm in size, 10% or so. Contorted chert bands with little carbonate. Lower contact at 45° to CA with carbonate stringer.

364.9 - 366.4 m Graphitic tuff. Dark grey to black. 4% fine disseminated py. Contorted and folded, at the end // to core.

366.4 m End of Hole.

Sample No.	From (m)	To (m)	Length (m)	Zn ppm	Cu ppm	Ag ppm	Au ppb (or as stated)
1491	287.90	288.05	0.15	tr	0.56%	nil	nil
1492	293.83	295.35	1.52	0.01%	0.01%	nil	nil
1493	295.35	296.88	1.53	0.02%	0.03%	nil	nil
1494	296.88	297.18	0.30	0.08%	0.04%	nil	nil
1495	297.18	297.48	0.30	0.46%	0.07%	tr	.001 oz/ton, nil Pb
1496	297.48	297.79	0.31	0.12%	0.20%	nil	nil
1497	297.79	298.70	0.91	710	190	1.0	<2
1498	298.70	299.92	1.22	210	31	0.5	<2
1499	299.92	301.45	1.53	210	37	1.0	3
1500	340.61	342.14	1.53	69	36	0.5	14
1501	347.87	348.39	0.52	470	180	1.0	150
1502	351.13	352.65	1.52	240	68	0.5	16
1503	352.65	354.18	1.53	190	66	1.0	48
1504	364.85	366.37	1.52	56	51	<0.5	5
Average	296.88	298.70	~~0.91~~	0.22%	0.10%	nil	tr

METALLGESELLSCHAFT CANADA LTD.

Diamond Drill Record

Hole: W-3

Page: 1

Property:	WEISENER LAKE	Start:	March 14, 1985
Location:	4+00N/4+62E	Finish:	March 26, 1985
Azimuth:	225°, -65° dip	Length:	564.2 m
Elevation:	Lake + 1 m	Purpose:	To extend R-2 mineral zone
Core Size:	BQ	Logged by:	J. Patel

Acid & Tropari Tests, corrected

	Azimuth	Dip
21.6 m	227°	65°
50.0 m	-	64°
87.5 m	226°	64°
150.0 m	-	62.5°
200.0 m	225°	63°
250.0 m	-	61.5°
300.0 m	225°	62°
350.0 m	-	59°
450.0 m	-	58.5°
500.0 m	224°	60°
550.0 m	-	57.5°

0 - 2.7 m Casing

2.7 - 14.3 No Core

2.7 - 14.3 m Dacite rhyolite. Grey coloured massive brecciated and recemented with alteration margins. Fractures at 5-10° to CA. Chert layers @ 5-10° to CA.

8.2 - 14.3 m Core in pebbles, chips and broken - Fe stained.

14.3 - 17.7 m Rhy - dacite. Light grey colour. Alt. & bleached around fractures. Blocky - gradual change in colour to green-grey.

17.7 - 21.3 m Dacite, green-grey colour with cherty sections. Altered - pink feldspar.

18.0 - 21.3 m Core is in pebbles.

21.3 - 63.5 m Rhyolite - grey coloured brecciated.
21.6 - 22.1 m sand (rhy) followed by blocky core to 25.6 m. Fractures at 5-10° to CA. Recemented with carb. and qtz. Sericite alt on margins. Few py and po blebs in calcite qtz cementing the cracks. 48.8 m 3 cm x 0.5 cm po stringer in a crack at 5° to CA. Again shallow └ fracture containing po and few specks of cpy at 49.5 m. At places rhy layered at 5° to CA and // to fractures. Other places it is brecciated.

45.7 - 63.1 m colour has a brownish to salmon-pink tinge.
63.1 - 63.5 m greenish colour and heavily brecciated and alt.
Lower contact 80° to CA.

63.5 - 64.1 m Diabase dike. Green. With calcite rhombs peppered throughout. Both contacts chilled, few hairline calcite stringers @ 15-20° to CA. Slightly magnetic.
Lower contact uneven.

64.1 - 69.2 m Dacite-rhyolite. Light green coloured to 65.4 m then brownish green - brecciated with lighter colour sericite alt on margin of fractures.
At 66 m, 7.5 cm of carb rich basic dike. Both contacts at 80-85° to CA.
At 66.1 m splash of py.

69.2 - 69.5 m Biotite granite. Grey colour with white phenocrysts of feldspar, qtz and biotite. Medium to coarse grained. Few py specks on a crack.
Uper contact broken, lower contact at 45° to CA.

69.5 - 73.0 m Same as 64.1 - 69.2 m. Dacite rhyolite. Brecciated. Sericite alt cracks
72.2 - 7.5 cm of cherty band at 80-85° to CA.

73.0 - 73.7 m Cherty rhyolite - light green colour, brecciated, sericite alt.

73.7 - 108.5 m Dacite tuff. Grey-green colour, massive. 2.5 cm band of possible rounded, stretched and alt fragment at 5° to CA.

74.5 - 75.4 m fine cracks with light green sericite alt.
85.3 - 86.9 m cherty bands near // to CA.
86.9 - 108.5 m (possible) lapilli tuff.

108.5 - 112.9 m Rhyolite tuff. Light grey-green colour, brecciated with light-green alt in cracks.

111.4 - 112.3 m light green,intensely brecciated and altered.
112.3 - 112.9 m brecciated.

112.9 - 125.6 m Rhyolite. Grey coloured, fine grained, massive.

114.0 - 114.6 m blocky core.
114.6 - 122.5 m massive, uniform.
116.7 - 122.7 m fine cracks filled with carb.
122.4 - 122.7 m feldspar xals up to 3 mm.
Upper contact 20° to CA; lower not clear but shallower.
Gradational change.

125.6 - 150.4 m Porphyritic feldspar tuff. Grey-green colour, similar to 122.4 - 122.7 m. Feldspar in layers at shallow Ls.

130.6 - 133.5 m brecciated, fractures mostly at 70-80° to CA.
132.9 - 133.1 m py grains in bands.
143.0 - 144.8 m brecciated.
Lower part silicious - lower contact at 55° to CA.

150.4 - 151.2 m Cherty rhy tuff with qtz eyes. Upper contact at 55° to CA. Brownish colour except where fractured,it is light green. Few py xals on fractures. Lower contact 5-10° to CA.

151.2 - 156.9 m Granitic dike. Pink-grey,porphyritic, upper and lower contacts sharp at 40° to CA. Med. coarse grained except upper contact which is somewhat finer grained and maybe chilled. Maroon blebs of alteration, possibly of sulphides. Pink feldspar.

156.9 - 157.5 m Cherty rhy tuff. Light grey colour. Cherty, brecciated. Lower contact 45-50° to CA.

157.5 - 158.3 m Granitic dike as 151.2 - 156.9 m, inclusion of above rhyolite pieces.
Lower contact at 35-40° to CA.

158.3 - 158.9 m Same as 156.9 - 157.5 m.

158.9 - 160.3 m Granitic dike, same as 151.2 - 156.9 m. Upper contact at 45° to CA. Pink-grey colour. Biotite books.

159.4 - 159.9 m massive and less porphyritic.
159.9 7.5 cm of hematite alt. follwed by 7.5 cm of above rhyolite. Last 23 cm alt. Lower contact at 50° to CA.

160.3 - 196.0 m Dacite-rhyolite-dacite. Grey-green colour, fractures alt. and carb filled.

160.8 m 15 cm of fine granitic dike at 45° to CA.
163.1 - 165.2 m biotite-feldspar rich section. Upper contact <5° to CA and lower contact at 70-80° to CA.
165.8 - 166.7 m blocky core due to a near // to CA fracture. Heavily fractured and altered at places. Some fractures carb filled, other places alt extends so far that the rock looks as fragmental.
191.1 - 193.2 m cherty bands at <5° to CA. Occasional fine py peppering. Lower contact 65-70° to CA.

196.0 - 202.3 m Gabbro dike. Green,massive, madium grained. Upper contact drilled and at 65-70° to CA. Magnetic. Fine graned py peppering throughout. Lower contact at 30° to CA with impregnated carb-quartz (rose in colour).

202.3 - 226.3 m Cherty rhyolite. Grey-green-brown colour. Fractured and cemented. Fine py crystals chert bands and cracks. Numerous chert bands at variable core angles, increasing sericite alt at depth. Lower contact 70° to CA.

226.3 - 232.3 m Ash bed or tuff bed. Grey coloured, cracked and sericite alt med-fine grained. Light green alteration.
229.5 m 20.3 cm of smoky coloured brecciated cherty rhyolite.
232.3 - 242.6 m Rhyolite. Light green coloured sections of brecciated qtz or chert, dull grey coloured. Lower contact 40° to CA.

242.6 - 257.4 m Dacite-rhy. Grey coloured massive, few fine cracks with little alteration. Number of sections of few feet wide bleached to light green coloured.

252.4 - 257.4 m brecciated (sample #374 @ 255.7 m). Fractures with alt. Few at 5° or less to CA. with carbonate. Lower contact 80° to CA.

257.4 - 258.5 m Rhyolite. Light grey col. massive. Few dark layers at 5-10° to CA. Occasional fine py blebs made up of fine py in possible chlorite matrix. Otherwise massive and hard.
Lower contact with 10 mm of gouge at 40° to CA. Two fine dark qtz stringers at 40° to CA.

258.5 - 264.3 m Brecciated rhy - light green-grey col. with dark qtz slivers at 65-85° to CA.

260.9 - 261.2 m blocky core.
262.1 m fault zone, 5 cm of gouge and crushed rock.
Lower contact at 45° to CA.

264.3 - 266.7 m Cherty rhy. Grey coloured. At places appears like grey quartz. Massive. Some sericitic light green alt.
Lower contact broken between 45-60° to CA.

266.7 - 273.1 m Rhy. Light green-grey col., massive, with few cracks filled with dark qtz.

267.3 - 267.8 m sulphide rich blotches within dark qtz with vague 5-10° to CA liniation.
270.4 m 3 cm qtz vein at 35-40° to CA.
271.9 m weak shear and qtz vein at 10° to CA. Broken core and qtz extends 90 cm in core.

273.1 - 290.8 m Brecciated rhy. Light green and grey coloured islands. Some chert sections. Cracks filled with dark qtz.
286.2 - 286.5 m aplite dike with lower part pink, otherwise grey. Med-grained. Upper contact 30° to CA. Lower alt with pink feldspar and angle not clear. Some narrow sections of grey qtz with py grains and slivers. Occasional py grains in fractures.

290.8 - 295.5 m Rhyolite. Grey colour. Massive. Brownish tinge, brecciated. Upper contact 30° to CA. Last 1.5 m changes to light green colour. L.C. 35-40° to CA.

295.5 - 300.5 m Dacite-rhyolite. Light green col. Brecciated with sericite alteration on cracks.
298.1 m light green to yellow-green alt and a narrow 6 cm shear zone with smoky qtz.

300.5 - 309.5 m Dacite green-grey col. fractured with alt on them. Last 30 cm massive and grey-coloured.

309.5 - 311.4 m Dacite. Brecciated. Light green-grey coloured with sections of grey. Last 15 cm cherty with 3 cm wide qtz veins and few py grains.

311.4 - 318.5 m Cherty rhyolite. Grey coloured sections of intensly fractured and recemented with qtz-carb. Nearly // to CA, a pyrite lens 4 cm long and 8 mm wide. Py is as disseminated and spreading in a fracture. Lower contact 20° to CA.

318.5 - 321.1 m Dike. Green mottled biotite-qtz-chlorite. Rhy section comes in and out but mostly does not cross core. Py xals on contact, with biotite, muscovite and possible magnetite.

321.1 - 330.7 m Dacite-rhyolite. Intensely fractured and recemented. Fractures are mostly at 70-85° to CA. Alteration from fractures has progressed to appear as continuous.

328.9 - 329.7 m shallow angle 2 cm wide, dark silicious bands. Chert or smoky qtz.

330.7 - 371.7 m Dacite. Green-brown. Few fractures @ 80° to CA. Cherty bands and sections. Carb in cracks with occasional py.

335.3 m	5 cm long 2-4 mm wide fracture filled py which spreads in cross fractures.
358.1 - 358.5 m	possible fault.
362.1 m	possible fault.
364.5 - 365.0 m	silicious with peppered pyrite about 1%.
364.8 m	gradual change in colour to lighter grey to green.
367.6 m	sharp change in colour to grey-green. Last 6 m less fractured. Lower contact at 10° to CA.

371.7 - 372.4 m Quartz porphyry dike. Light grey colour with dark coloured qtz and qtz eyes. Layered at 10° -// to contacts. Finer grained and chilled contacts to coarser central part. True thickness only 15 cm. Lower contact 10° to CA.

372.9 - 380.5 m Dacite. Grey-green colour, massive, few fractures filled with carb. Few chert bands. Dark chloritic qtz spots with py in them. Little py and po in a narrow band at 10° to CA. Lower contact 10° to CA.

380.5 - 390.8 m Rhyolite - grey coloured changing to light green and grey-green. Py with qtz in fracture-folded, <1% py.

389.1 - 390.8 m	chert band with fine py disseminations. At places slivers of py in chert bands which is nearly // to CA. Fractures cross across with py in them.

390.8 - 405.2 m Rhyolite tuff. Grey in colour. At places silicious or cherty and light grey-green colour.

399.7 - 399.9 m	23 cm of light green altered section.
400.7 m	onward change in colour to light green colour in sections. Increasing hairline fractures throughout, filled with carb.
403.0 - 403.7 m	40% py in layers of disseminated xals. approx. at 5-10° to CA. Lower contact with 2.5 cm qtz stringer at 50° to CA.

405.2 - 426.0 m Cherty rhyolite - carbonaceous, grey to grey-green col. changing to nearly dark-grey. Py throughout.

405.6 - 406.1 m 30% py, fine-grained in bands, angles vary from 5-30° to CA.
409.5 - 410.3 m rhy, carbonate and graphite 30° to CA with 20% py.
410.7 - 412.1 m py in carbonaceous and graphite bands in rhyolite, overall 10% within the section.
413.2 - 413.3 m graphite with py on both contacts which are at 25° to CA.
414.7 - 415.7 m qtz eyes and fine py dissemination.
415.7 - 419.7 m chert bands 15-20 mm wide at 10° to CA.
419.7 - 420.3 m dacite.
420.3 - 423.4 m chert, almost glassy qtz looking.
423.4 - 426.0 m rhyolite.
Numerous fractures with carb throughout.
424.2 m piece of pinkish aplitic dike which does not cross the core.
Over 40 cm section 10 cross faults displaces this dike little at a time with lefthand movements.
Lower contact 20° to CA.

426.0 - 428.2 m Dacite tuff, grey-green, fewer fractures which are filled with carb at about 85-90° to CA. Lower contact at 25° to CA.

428.2 - 431.6 m Rhyolite, grey colour.

430.7 - 431.0 m quartz eyes.
431.0 - 431.7 m light green col. with qtz eyes. Some po xals. 5 cm qtz-carb vein near contact which is broken.

431.6 - 438.2 m Feldspar porphyritic tuff with biotite. Green-gray colour. White plagioclase xals up to 5 mm size normally 2 mm range, ≈ 15% by volume. Some fractures carb-filled and have no pattern.
Lower contact 25° to CA.

438.2 - 475.9 m Rhyolite with chert bands and few dacite bands. Grey col. Hairline fractures with carb. Po xals and slivers in fractures. Numerous chert bands at 445.5 m, 446.1 m, 446.5 m, all 17-19 cm long and 30° to CA.

At 453.5 m, thin layers of po with little py and few grains of sph over 4 mm width.
454.2 - 454.8 m fine py in shear planes and disseminated, <1%.
454.8 m carb-chert band 5 cm wide ≈ 55° to CA.
456.7 - 468.0 m rhy, chert and graphite. Py is associated with graphite and carbonaceous sections.
Thin layers of py xals at 456.7 m, 457.4 m, 458.1 m, 458.6 m, 459-459.2m.
458.6 m specks sph honey colour
460.2 m 2 cm vein with fine dissemination of py, at 45° to CA. 15% py over 2 cm.
460.9 m, 461.8 - 462.7 m thin layers of py in carbonaceous bands at 45° to CA.
≈2% over 1 m.
465.0 - 465.4 m broken core and gouge. Fault zone at 55° to CA.
462.7 - 464.2 m grey cherty rhyolite. Hairline stringers of py.
464.2 - 465.4 m graphite with <1% py in blebs, blotches and stringers. Chert bands at 45° to CA.
465.4 - 468.0 m dacite tuff, grey coloured with dark blebs of alteration. 1-2% py in stringers.
468.0 - 475.9 m grey rhy.
473.0 m 10 cm of graphite with py in shear planes.

475.9 - 485.7 m Feldspar porphyritic tuff, grey-green colour. 10-12% feldspar xals in the range of 2 mm size. Narrow 10-15 cm wide non-porphyritic bands.
484.5 m 2.5 cm qtz carb vein at 10-15° to CA.
Lower contact 30° to CA.

485.7 - 487.2 m Rhyolite-dacite-tuff. Grey, massive, and banded at 30° to CA.
Lower contact 30° to CA.

487.2 - 494.7 m Feldspar porphyritic tuff. Similar to 475.9 - 485.7 m. 30-35% feldspar xals, mostly 3 mm size and up to 5 mm. (sample # 375 @ 493.2 m).
Lower contact 20-25° to CA.

494.7 - 495.5 m Rhyolite, buff-grey coloured; massive. Lower contact diffused with dacite.

495.5 - 503.0 m Dacite-tuff. Fine feldspar xals. At places dark qtz eyes concentrated in narrow 5 cm - 15 cm wide bands.
502.3 - 503.0 m light green col. with 50-60% feldspar xals. Lower contact 20° to CA.

503.0 - 520.6 m Dacite and feldspar porphyritic tuff. Numerous chert bands.

510.2 - 510.7 m light buff coloured - banded at 30° to CA.
514.6 - 514.8 m
515.0 - 515.4 m } light green buff coloured with feldspar xals in bands at 35° to CA.
519.5 - 520.4 m similar as above, light coloured, feldspar xals on contacts.

520.6 - 557.5 m Rhyolite with chert bands at places. Grey-green coloured.

522.1 m — 25 cm light green-grey dike with sharp contacts at 30° to CA. At places porphyritic feldspar tuff and sections of mottled texture. Dark qtz blebs oblong shaped in pinkish matrix. (Sample #376 at 530.4 m).
542.8 m — 25 cm grey dike similar to 522.1 m, 30° to CA.
544.4 m — 36 cm grey dike similar to 522.1 m. Upper contact at 30° to CA, lower contact uneven.
543.8 m — graphitic slips, carb lined.
542.0 - 542.5 m — grey-green dike at 30° to CA.
548.0 - 552.3 m — fractured with light coloured alt around fractures, similar to dikes.
546.7 m — 5 cm of qtz carb at 45° to CA.
549.2 m — 5 cm of qtz carb upper at 50° to CA and lower at 70-75° to CA.
550.2 - 551.5 m — granitic dike with feldspar up to 2 mm size, grey in colour.
551.7 m — 8 cm cherty band with graphtic slips 70° to CA.
557.5 m — feldspar xals increases to 25-30%.
561.2 m — 10 cm green dike 80° to CA.
561.4 m — 2 cm of qtz at 50° to CA.

557.5 - 562.3 m Feldspar porphyritic tuff, grey coloured with up to 35% feldspar xals of average 2 mm size.

561.6 m 9 cm of gabbro dike - fine grained, magnetic. Contacts at 80° to CA.

562.8 m 38 cm of gabbro dike 80-85° to CA.
Last 25 cm or so high in feldspar xals.

562.3 - 562.7 m Gabbro dike.
Green colour, fine grained, chilled contacts. Medium grained in centre. Magnetic, with po specks. Lower contact 85° to CA.

562.7 - 562.8 m Feldspar porphyritic tuff. 18 cm grey colour epidote alt. Some salmon-pink feldspar. Lower contact 85° to CA.

562.8 - 564.1 m Gabbro dike. Green colour, chilled contacts, coarser in centre.

593.8 - 594.1 m younger gabbro dike within the dike. Finer grained. Sharp contacts 85° to CA. Lower contact 85° to CA.

564.1 - 564.2 m Feldspar porphyritic tuff, grey,30% feldspar xals 2 mm size.

564.2 m End of Hole.

Sample No.	From (m)	To (m)	Length (m)	Zn ppm	Cu ppm	Ag ppm	Au ppb
1468	267.31	267.77	0.46	17	31	0.5	240
1469	364.54	364.93	0.39	66	20	0.5	58
1470	371.86	372.92	1.06	17	30	0.5	3
1471	403.10	403.71	0.61	89	39	<0.5	46
1472	405.60	406.15	0.55	51	38	<0.5	63
1473	406.15	407.73	1.58	12	10	<0.5	34
1474	407.73	408.65	0.92	12	10	0.5	61
1475	408.65	409.38	0.73	18	12	0.5	33
1476	409.38	410.29	0.91	230	37	5.5	1700
1477	410.29	411.21	0.92	370	76	0.5	48
1478	411.21	412.21	1.0	300	130	0.5	190
1479	414.68	415.44	0.76	78	40	0.5	9
1480	453.54	454.76	1.22	83	22	0.5	8
1481	454.76	456.29	1.53	65	17	<0.5	6
1482	456.29	457.81	1.52	51	21	<0.5	7
1483	457.81	459.33	1.52	120	41	0.5	23
1484	459.33	459.94	0.61	33	24	<0.5	9
1485	459.94	460.25	0.31	120	110	1.0	340
1486	460.25	461.77	1.52	110	22	<0.5	34
1487	461.77	462.78	1.01	97	51	1.0	970
1488	462.78	464.30	1.52	20	45	0.5	20
1489	464.30	465.43	1.13	28	53	0.5	53
1490	465.43	467.26	1.83	110	260	0.5	3

METALLGESELLSCHAFT CANADA LTD.

Diamond Drill Record

Hole: W-4

Property:	WEISENER LAKE	Start:	April 5, 1985
Location:	0+55S/1+55W	Finish:	April 15, 1985
Azimuth:	059°	Length:	544.6 m
Elevation:	Lake + 1 m	Purpose:	Check rock geochemical alterations
Core Size:	BQ	Logged by:	J. Patel

Acid & Tropari Tests, corrected

	Azimuth	Dip
0 m	59.5°	56°
7 m	-	53.5°
50 m	58°	53°
100 m	60°	53°
150 m	61°	51°
200 m	61°	50°
250 m	60°	49°
300 m	65°	47°
350 m	64.5°	46°
400 m	65°	43°
450 m	67°	41°
500 m	-	39°
540 m	-	37°

0 - 6.1 m Casing

6.1 - 10.4 m Feldspar porphyritic tuff, green-grey colour, white feldspar xals density of which varies from high of 50% to 2% - decreasing at lower contact.
10.2 m cherty section no feldspar xals. Lower contact 60° to CA.

10.4 - 13.7 m Brecciated rhyolite tuff. Grey coloured,massive in the beginning, brecciated later. Fractures all over, recemented with carb with alt on margins.

11.1 m gouge lined fracture at 20° to CA
11.9 - 12.4 m brecciated cemented with chloritic green matrix
12.4 - 12.7 m green basic dike? with sharp contacts at 30° to CA
12.7 - 13.7 m distinct brecciation - light colour, chert
Lower contact at 40° to CA.

13.7 - 28.0 m Dacite tuff with sections of rhy., green-grey to grey coloured. Brecciated, fractures filled with qtz-carb and angles vary between 25° to 70° to CA.

16.0 m 2.5 cm chert, light-grey colour, 35° to CA.
21.0 - 23.7 m dacite with rhy fragments.
The core appears more chloritic than previous holes.

28.0 - 49.4 m Rhy-dacite tuff. Grey coloured, large blotches of dark diffused alt. sericite chlorite alt of feldspar? (sample at 32.6 m, No. 377). Less alt & less qtz carb than above section.

32.9 - 33.5 m Py xals with qtz-carb alt. 2% py. Last 1.5 m banded at 45° to CA.

49.4 - 62.5 m Rhyolite tuff. Grey colour, medium grained to fine grained.

49.4 - 54.6 m narrow section of 2 mm qtz eyes.
56.8 - 57.5 m broken core in pebbles, lined with rust.
56.7 - 58.0 m few contorted chert bands.
61.2 - 62.5 m banded with chert - some contorted & faulted. 45° - 50° to CA.

62.5 - 69.8 m Dacite - rhy tuff. Grey colour, first 2.7 m with dark blobs and banded with chloritic bands at 50° to CA. 68.0 m: 15 cm with irregular qtz carb veins.

69.8 - 74.1 m Dacite tuff. Grey-green colour, banded with light coloured bands and bleached section, 45° to CA.

71.9 - 72.8 m Porphyritic with feldspar xals, 5 mm in green matrix.

72.8 - 73.7 m rhyolitic
73.7 - 74.0 m porphyritic section. 1-2 mm size feldspar xals.

72.8 - 76.2 m Rhyolite-dacite tuff, grey colour, massive, med-fine grained.

76.2 - 78.5 m Rhyolite. Agglomerate. Grey coloured. Porphyritic with rhyolite fragments with qtz eyes. Some fragments vague, others clear. (sample No. 378 @ 77.9 m). Lower contact at 90° to CA.

78.5 - 80.2 m Feldspar porphyritic tuff. Grey-green colour with sections of grey rhyolite gradually changing to porphyritic rhyolite.

80.2 - 82.3 m Porphyritic ryolite, grey coloured with feldspar and qtz phenos. Gradually changes to dacite.

82.3 - 84.4 m Similar to 78.5 - 80.2 m.

84.4 - 85.0 m Similar to 80.2 - 82.3 m.

85.0 - 86.6 m Similar to 78.5 - 80.2 m. At 86.6 m 2.5 cm of carb vein @ 45° to CA.

86.6 - 88.7 m Rhyolite, grey coloured massive with qtz eyes.

88.7 - 94.8 m Fragmented rhyolite. Rounded ablong rhy with qtz eyes fragments, some larger than 10 cm.
93.5 - 93.8 m mottled with darker blobs in light grey-brown matrix.
Salmon-pink feldspar on cracks at 93.1 m.

94.8 -104.1 m Dacite-rhy tuff, grey, massive, med.fine grained.
98.0 m sheared over 15 cm with contorted carb stringers and sericite.
Fine carb strongers @ 50° - 70° to CA.

104.1-121.3 m Rhyolite - grey-green changing to grey.

104.1 - 104.7 m white alt blotches in green matrix
104.7 m shear over 15 cm with carb. At places qtz eyes and cherty carb in cross cutting stringers.
109.1 m 2.5 cm qtz stringer at 30°-40° to CA. and faulted.
114.3 m similar alteration as 104.1 - 104.7 m.

121.3 - 122.8 m Feldspar porphyritic tuff, changing to dacite tuff. Grey-green with altered and bleached bands of lighter grey col.

122.8 - 126.8 m Dacite tuff. Grey with greenish segments.
125.7 m buff coloured qtz eye porph. 16 cm long and at 45° to CA.
125.9 m cherty for 8 cm.

126.8 - 127.9 m Rhyolite, grey colour, massive.

127.4 - 127.7 m bleached buff colour, last 13 cm speckled with dark blobs up to 4 mm.

127.9 - 142.8 m Feldspar porphyritic tuff. Grey-green colour. Feldspar xals vary from non-existent to 5% and size is up to 10 mm.

136.2 - 136.9 m cherty
137.0 - 138.7 m cherty
137.8 - 142.8 m dacite porphyry, large feldspar most of them alt to sericite, chlorite.

142.8 - 144.9 m Rhyolite & cherty rhyolite, grey, massive section of buff coloured rhy with qtz eyes.
143.9 m qtz eye rhy fragment.
Lower contact 35° - 40° to CA.

144.9 - 155.8 m Dacite - rhyolite with chert bands. Grey - grey-green. 1 cm size alt blebs with rims. Rhyolite fractured. Banded at 40° - 50° to CA. Few sections with qtz eyes.
Mottled with dark islands in lighter matrix.
Moderate amount of carb stringers. Lower contact 45° to CA.

155.8 - 163.8 m Rhyolite, grey colour, massive, glassy, narrow dacitic tuff section.
156.2 m 8 - 10 mm yellow-brown cherty with carb stringer of 10-15 mm, containing py xals and hematite or rust. None in appreciable quantity.
160.6 - 160.9 m green-grey with lighter alt blotches. Sections with qtz eyes.
162.5 - 162.8 m blocky.
Contact gradational.

163.8 - 173.3 m Feldspar porphyritic tuff. Green colour, porphyritic, at places gabbroic texture.

165.3 - 173.3 m magnetic. Few 1 cm fragments of original feldspar now mostly altered.
169.9 - 171.1 m rhyolite with gradational contacts. Relatively fewer carb stringers.
172.2 - 172.5 m relatively fewer carb stringers.
Lower contact grades into porphyritic rhy.

173.3 - 192.3 m Feldspar porphyritic tuff and dacite tuff, grey-green in colour. Feldspar 8-10% of 2 mm size range, and may be up to 5 mm. Sections with qtz eyes. Carb stringers mostly 50° - 55° to CA.

177.4 m chloritic fragment with whitish halo. Sections of .5 m to 1 m shows bleaching and lighter colour.
177.5 m 2.5 cm carb qtz vein at 60° to CA.
187.4 m 3 cm fragment? and mottled for 10-12 cm. Dark qtz eyes in lighter col. matrix.
190.8 m 15 cm chert band @ 40° to CA. Lower contact bleached and altered for 15 cm and is uneven.

192.3 - 195.6 m Basic dike. Grey-green colour. Both contacts chilled with central part med grained to coarse grained.
Upper contact 50° to CA. Lower contact 40° to CA. Contacts are silicified.

195.6 - 198.5 m Rhyolite - grey coloured. First 15 cm cherty.
197.2 m 60 cm blocky core.
Lower contact at 60° to CA with dark blotches or eyes.

198.5 - 240.0 m Rhyolite-rhyolite tuff, grey colour, med coarse grained, qtz eyes.

199.8 - 200.7 m feldspar porph tuff
203.9 - 204.2 m blocky core
205.1 m 15 cm of pink-buff col. chert or feldspar with qtz eyes. Some contorted bands and fragments for 30 cm prior to this chert or feldspar. Banding at 45° to CA.

208.0 - 213.7 m alt or fragments in elongated shapes. Fragments are feldspar rich light buff colour and few with rust spots. 8-12 cm section with dark qtz eyes following bandings at 45° to CA. (Sample No. 880 at 224.9 m).
216.6 - 230.0 m cherty bands. 40° to CA.
230.1 - 236.5 m py alt products occurs as blotches and drop shapes (sample 381 at 232.4 m). Rhyolite is coarse-grained and contains qtz eyes.
231.8 - 232.0 m glassy- brownish colour following 2 cm of chert band.
232.0 - 232.4 m diffused feldspar xals.
232.8 - 237.0 m green-grey colour, tuffaceous.
237.4 - 240.0 m agglomeratic - small fragments easy to see, up to 5 cm long, 1.5 cm across. Larger fragments may be disguised as bands.

240.0 - 249.2 m Rhyolite tuff, grey colour, coarse grained with large percentage of qtz eyes (sample 382 at 244.8 m).

247.2 - 249.2 m finer grained.

249.2 - 251.9 m Alt dacite. Mozaic of light feldspar rich island in dark dacite. Few feldspar fragments (sample 383 at 250.2 m). Lower contact 35° - 40° to CA.

251.9 - 264.0 m Rhyolite-rhyolite tuff. Grey colour, med. grained, massive and with some qtz eye sections.

258.6 m 4 cm po stringer at 45° to CA with qtz on both contacts, 60-70% po., magnetic.
259.7 m cherty
260.5 m contorted bands.
260.5 - 264.0 m coarse-grained, tuffaceous with some feldspar xals and qtz. Lower contact 45° to CA.

264.0 - 264.6 m Tuff, whitish green, fine grained.
264.3 m 8 mm carb stringer @ 50° to CA.
Upper contact at 45°, lower contact at 40-45° to CA. Both contacts sharp.

264.6 - 274.4 m Alt dacite tuff. Similar to 249.2 - 251.9 m.
Light green, rock with islands of lighter green, alt, some follows cracks.
Some chert bands, at 45° - 50° to CA.

267.3 - 274.0 m gradual decrease in alt and changes to grey dacite tuff.
Few po xals within rock and in carb within cracks in all directions.

274.4 - 274.9 m Rhyolite, buff green. Cherty (glassy) contacts for 10 cm and central portion.
Po specks on upper contact.
Both contacts @ 40° to CA.

274.9 - 280.2 m Dacite tuff, grey colour, med fine grained with cherty sections.

276.0 m py in cracks
276.5 m narrow 0.2 mm - 0.8 mm wide py stringers, 25° - 30° to CA and faulted 3 to 4 times with mini cross faults.
278.1 m 1 cm carb-py-po @ 45° to CA, po xals peppering.
276.5 - 280.2 m rhyolitic
279.0 m 6 cm of cherty section

280.2 - 282.2 m Andesite. Green grey med grained with dark green amphibolite xals. First metre is finer grained and containing py & po xals peppering over all <2%.

281.2 m 15 cm broken core, py on fractures at shallow L (sample No. 384 @ 281.8 m). Lower contact at 30° with .3 mm carb stringer.

282.2 - 299.9 m Dacite tuff. Grey colour banded, med grained to coarse grained, banded with light green altered bands 45-50° to CA. Bleaching and alt around fractures. Sections of mottled alt (sample #385 @ 285.6 m).

287.2 - 287.4 m cherty
287.4 - 288.2 m banded with feldspar rich bands. 45° to CA.
288.2 - 290.2 m cherty bands. 45-50° to CA.
290.1 m po, py in a cherty band
291.3 m py in chert band, both chert bands at 50° to CA
292.6 - 293.1 m silicious with qtz eyes and dark qtz blotches
293.2 - 296.0 m alt, sea & island texture
298.0 m alt islands have po.
Generally increase in po compared to higher up in the hole.

299.9 - 302.1 m Feldspar porphyritic tuff. Grey green colour, few po specks in altered blotches and peppering in the rock.

302.1 - 303.5 m Dacite-rhy-tuff. Grey-green-brown, po blebs in altered and silicified sections and in cracks with carb stringers up to 5 mm.

303.5 - 307.2 m Feldspar porphyritic tuff. Grey with lighter green bleached or altered bands around cracks.

305.4 - 307.2 m ≈ 50% fledspar, few py, po blebs.

307.2 - 309.2 m Dacite tuff. Grey, med grained, fractured - few cracks with alteration. Py peppering throughout.
Upper contact 35° to CA, lower contact 35-40° to CA.

309.2 - 313.6 m Feldspar porphyritic tuff. Grey-green, 50% feldspar up to 4 mm, mostly 3 mm range. Contains fragments of same rock with less feldspar xals. Fragment size varies from very small to 2 cm x 2 cm. Fine cracks filled with carb in bleached rock.

313.6 - 316.3 m Dacite tuff. Grey green, banded with altered & bleached bands 45° to CA. Some fine feldspar xals. Py found as fracture lining.

314.0 m 5 cm cherty with rose qtz at 40-45° to CA.

316.3 - 335.6 m Feldspar porphyritic tuff. Grey colour, white feldspar xals about 30%. Py peppering as blebs and xals. Py is darker colour like po, and is not appreciable. Py also on fractures.

317.0 - 328.7 m featureless.
322.2 - 330.9 m gradual decrease in feldspar xals.

Few chert bands. Py in fractures and few xals here and there. Feldspar xals vary in quantity.

330.9 - 335.6 m py in fine peppering xals and blebs as blotches made up of fine disseminated py. Largest blotch 1 cm. Overall py 2%.

335.6 - 338.3 m Alt dacite tuff with light green alt in grey colour, fractured and altered.

338.3 - 347.0 m Rhyolite-dacite tuff. Grey colour, fractured intensely and recemented with carbonate hairline stringers. Green transparent muscovite? alteration with py blebs.

347.0 - 362.5 m Rhyolite tuff. Grey-pinkish colour with dark alt blotches (sample #386 at 353.3 m). Pinkish bands at 70° to CA. Cherty bands at 70° to CA. Few carbonate stringers filling fractures. Lower contact 45o to CA.

362.5 - 363.8 m Dacite tuff - rhy tuff. Grey, massive, few carb stringers in fractures.

363.8 - 367.2 m Cherty rhy.Grey colour. Some pinkish tinge near glassy section.

338.3 - 338.5 m alteration band 12 cm at 50° to CA.

367.2 - 374.9 m Feldspar porphyritic tuff. Grey colour, white feldspar xals. Upper contact 45° to CA. Gradual decrease in xals and again sudden increase in xals, then decreases to near nil.

374.9 - 383.4 m Dacite tuff. Grey colour, heavily altered with fine cracks and bleaching around these cracks.

378.0 m	onward py in fine disseminations.
379.3 m	py blebs as with 7 mm altered band.
380.4 m	carb stringer with little py.
380.4 - 381.9 m	2% py and po
382.2 m	blotches of py dissemination in rhy-dacite
382.3 m	alteration with a cross fracture with chlorite and possible few specks of cpy & py.

383.4 - 386.8 m Rhy-tuff. Grey coloured massive med grained, altered with lighter and pinkish feldspar rich bands. Fractured and filled with carbonate.

385.6 m 5 cm alt with qtz, muscovite, 45° to CA.

386.8 - 391.8 m Altered dacite (or gabbro?). Grey-green. Fine grained upper contact but not distinct - magnetic feldspar xals in section, hardness lower than dacite.

389.1 m chert band with 3 mm wide qtz stringer, py specks. Lower contact not marked, magnetics end here.

391.8 - 395.1 m Dacite tuff. Grey-brown med fine grained with few alt bands. Fine fractures with carb qtz.

395.1 - 397.9 m Similar to 386.8 - 391.8 m. Dacite tuff, grey-green, porphyritic in section. Magnetic (sample #387 at 397.0 m). Py blotches ≈2% py overall.

397.9 - 403.6 m Rhyolite - rhyolite tuff. Grey colour, fine grained with cherty sections. Cherty section at times appears glassy.

401.1 m qtz, chlorite, alt with py xals. Speck cpy in one bleb of py.
402.0 m 2 cm qtz carb stringer at 45° to CA. Lower contact broken where last foot is cherty.

403.6 - 423.2 m Dacite tuff (altered). Grey-brown with porphyritic feldspar. Throughout, alt blotches of qtz-chlorite 3-8 mm size about 15-20% area in biotite-sericite rich matrix. 2-3% py-po as blotches.

417.9 - 418.5 m 20-25% coarse fledspar xals.
418.5 m 2 cm py-po and possible speck cpy in a blotch.
411.5 m cherty over 12 cm.
420.0 m onward no more sulfides.
Chert bands at 45° to CA.

423.2 - 433.9 m Rhy tuff. Grey colour with biotite-sericite alt. Some actinolite needles. Magnetic and exhibits similar (polka-dot) blotches as previous section.

425.0 - 425.7 m chert bands contorted (sample #388 at 425.5 m).
424.3 m 4 cm of altered and sheared with muscovite-sericite, 45° to CA. Few py-po specks and blotches.
430.2 - 433.7 m porphyritic-coarse grained with larger darker blotches (sample #389 at 432.4 m) appear like granodiorite.
432.8 m onward the dark blotches decrease.

433.9 - 437.8 m Dacite tuff - rhy tuff. Grey-brown colour with cherty bands, otherwise similar to above. Fine grained slivers and blobs of py-po 1% overall.

437.8 - 441.1 m Cherty rhy. Grey-brown, fine grained. Sections with dark qtz/chlorite blebs in bands @ 50-55° to CA. Slivers and blebs of py-po. Few biotite rich alt bands. L.C. 45° to CA.

441.1 - 445.8 m Rhyolite tuff. Grey-brown with dark spots 4 mm size. Few feldspar xals. Slivers and blotches of py-po.

442.6 m 12 cm of biotite rich band with disseminated fine py xals - 45° to CA. Py 4-5%.
442.9 m similar band 5 cm wide.

445.8 - 478.3 m Alt rhy-dacite tuff. Similar to above - grey-green. Dark blobs, various sizes. Feldspar xals in sections. Highly magnetic sections to non-magnetic.

448.9 - 450.6 m non-magnetic. Samples of magnetic sections: #390 @ 446.2; #391 @ 451.0 m; #392 @ 455.7 m; #393 @ 459.4 m. The alt is similar to above.
460.2 m 2 cm qtz stringer at 30° to CA. Few py xals only. Lower contact with 2 mm wide py stringer.
460.2 - 465.1 m fine grained section of weakly magnetic.
460.4 m py in fracture at 60-65° to CA. Bands of coarse feldspar xals.
465.1 - 478.3 m magnetic at places.
465.1 - 471.8 m 7-10% py, po with sph & cpy specks. Sulfides as blobs and stringers replacement in bracks - sume vuggy.
477.2 m 5 mm stringer of py, po xals. Lower contact 45° to CA.

478.3 - 481.6 m Alt dacite tuff - grey-brown mottled texture. Biotite sericite alt.

478.3 - 478.7 m 1.5 cm qtz vein and irregular qtz with few py specks and brown mica.
479.8 m 1 cm py stringer @ 75° to CA.

481.6 - 514.5 m Dacite tuff. Grey with biotite-sericite alt, mottled texture. Py and po occur as slivers, blobs and dissemination in sections. 2% or less. Sections of light green alt. Few narrow qtz carb veins. 4 mm - 15 mm size.

489.2 - 489.5 m broken core.
494.5 - 494.8 m light green buff coloured dike, sharp upper contact at 55° to CA and lower at 50° to CA. Ls are towards each other thereby a wedge is cut by core.
495.0 - 495.6 m similar dike as above but with dark blobs containing py. Overall py is 4%. Both contacts altered and at 70° to CA.
496.5 - 514.5 m banded with chlorite-sericite, alt at places and bands of qtz mottled alt. These bands are in and out and no definite pattern or system. Some of the alteration bands have py as slivers and pepperings.
502.6 m 5 cm of irreguarly distributed py ≈50%, some po. Some diss py before and after.
504.2 m py & cpy in 1-3 mm wide fine qtz-carb stringer.
494.4 - 511.1 m numerous stringers of po with little py either in fractures or in shear planes. Shearing at 65° to CA.
511.9 m 4.5 cm of 80% po with little sphy on upper contact, which is 45-50° to CA. followed by peppering of sph for 15 cm.
513.0 - 513.4 m po & py in fracture and shear planes, sph stringer at 513.1 m.

514.5 - 521.8 m Dacite tuff with sulfides and chert bands. Grey colour to dark grey well banded with dark alteration containing sulfides as blebs and framboids.

517.4 m 5 cm of fair sph zone with slivers of cpy in po. All the sulfide sections contain po.
Lower contact 60° to CA.

521.8 - 523.0 m Acid dike. Grey colour med grained with po cement? heavy and magnetic. Sulfide estimated 30-40%? Lower contact 60° to CA.

523.0 - 532.4 m Sulfide zone. Dacite tuff, rhy bands and chert with sulfide bands. 7.5 - 13 cm section with 50% po, little py and cpy sph specks.

532.4 - 533.7 m Dacite tuff, grey colour, banded. Some po, py as blobs and bands in rhyolitic or cherty rhyolite.

533.7 - 544.7 m Rhy-rhy tuff. Grey colour band and banded at 55-60° to CA. Few alt bands up to 2 cm wide.

540.0 m py xals ass. with alteration bands and one py stringer in carbonate with graphitic slivers.

543.9 - 544.1 m dark quartz eyes, alt - mottled textures.

544.7 m End of Hole.

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WEISENER LAKE — Diamond Drill Record — Hole: W-4

Sample No.	From (m)	To (m)	Length (m)	Zn ppm	Cu ppm	Ag ppm	Au ppm	Pb%
1505	465.12	466.65	1.53	36	250	0.5	2	
1506	466.65	468.17	1.52	43	150	0.5	3	
1507	468.17	468.78	0.61	61	330	0.5	2	
1508	468.78	469.09	0.31					
1509	469.09	470.61	1.52	48	250	0.5	2	
1510	470.61	471.83	1.22	53	270	0.5	3	
1511	471.83	473.05	1.22	70	130	0.5	2	
1512	483.26	483.72	0.46	93	300	0.5	3	
1513	491.79	493.01	1.22	83	69	0.5	2	
1514	493.01	494.54	1.53	70	91	0.5	8	
1515	495.0	495.60	0.60	18	100	0.5	8	
1516	502.62	502.77	0.15	270	2100	1.0	8	
1517	502.77	504.29	1.52	170	310	0.5	3	
				%	%	oz/t	oz/t	
1518	506.58	507.03	0.45	0.01	NIL	NIL	NIL	
1519	511.15	512.67	1.52	0.14	NIL	NIL	NIL	
1520	512.67	513.28	0.62	0.17	0.01	NIL	.004	
1521	513.28	514.81	1.53	0.04	0.05	NIL	NIL	
1522	514.81	516.26	1.45	0.03	0.11	NIL	NIL	
1523	516.26	516.86	0.60	0.04	0.06	NIL	NIL	
1524	516.86	517.47	0.61	0.71	0.09	NIL	0.003	NIL
1525	517.47	519.0	1.53	0.04	0.02	NIL	NIL	
1526	519.0	520.29	1.29	0.04	0.06	NIL	NIL	
1527	520.29	521.82	1.53	0.09	0.04	NIL	NIL	
1528	521.82	523.04	1.22	0.01	0.01	NIL	NIL	
1529	523.04	524.56	1.52	0.01	0.02	NIL	NIL	
1530	524.56	526.08	1.52	Tr	0.03	NIL	NIL	NIL
1531	526.08	526.69	0.61	Tr	0.09	NIL	NIL	
1532	526.69	527.0	0.31	Tr	0.28	Tr	Tr	
1533	527.0	527.69	0.69	0.02	0.09	NIL	Tr	
1534	527.69	528.14	0.45	1.85	0.14	.270	0.002	0.08

METALLGESELLSCHAFT CANADA LTD.

WEISENER LAKE — Diamond Drill Record — Hole: W-4

Sample No.	From (m)	To (m)	Length (m)	Zn %	Cu %	Ag oz/t	Au oz/t	Pb%
1535	528.14	528.92	0.78	.02	0.01	NIL	0.001	NIL
1536	528.92	529.29	0.37	1.44	0.39	0.979	0.007	0.07
1537	529.29	529.67	0.38	0.13	0.08	Tr	NIL	NIL
1538	529.67	530.43	0.76	1.58	0.08	0.250	0.001	0.05
1539	530.43	531.34	0.91	0.02	0.07	Tr	Tr	NIL
1540	531.43	532.26	0.83	3.71	0.10	0.560	0.002	0.09
1541	532.26	533.02	0.76	0.06	0.05	Tr	0.004	NIL

METALLGESELLSCHAFT CANADA LTD.

Diamond Drill Record

Hole: W[redacted]

Page: 1

Property: WEISENER LAKE

Location: 3+08S/3+90E

Azimuth: 225°

Dip: 62°

Elevation: Lake + 3 m

Core Size: BQ

Start: May 27, 1985

Finish: June 10, 1985

Length: 530.0 m

Purpose: Follow up mineralization in W-4

Logged by: J. Patel

Acid & Tropari Tests, corrected

	Azimuth	Dip
11.3 m	-	59°
50.0 m	226°	59°
100.0 m	229°	59°
150.0 m	234°	59°
194.0 m	234°	58°
243.0 m	231°	58°
300.0 m	228.5°	57°
361.0 m	228°	57°
400.0 m	-	56°
446.0 m	232°	55°
528.0 m	236°	52°

0 - 5.2 m Casing

5.2 - 43.1 m Dacite tuff.
Grey colour with rhyolite tuff bands and cherty rhyolite. Narrow chert bands, some of which are contorted. Banding or schistosity is 15° to CA. Fractures at various angles from 85° to CA to // to CA. Some fractures have rusted surfaces or are rust coated. Epidote, chlorite, sericite alteration. Some sections with mottled texture not quite developed. Lower contact altered and contorted at 20-25° to CA.

43.1 - 44.1 m Feldspar porphyritic tuff.
Grey ligh-grey coloured. This could be altered granite dike. 30-40% feldspar xals-biotite qtz and some diss and blebs of po, py. Last 10 cm is granitic dike with sharp contacts. Upper at 55° to CA and lower at 45° to CA.

44.1 - 47.1 m Rhyolite tuff.
Grey-light grey col. Biotite-sericite alt. Few narrow sections and fragments of granite. Few chert bands.

46.0 m — 30 cm of basic dike (diorite).
Lower contact cherty at 25° to CA.

47.1 - 54.3 m Feldspar porphyritic tuff. Similar to 43.1 - 44.1 m. Few of the feldspar xals are well formed. Few alt bands. Sericite, chlorite, epidote, carb. Lower contact at 35° to CA.

54.3 - 65.1 m Dacite - rhy tuff.
Grey col., massive in the beginning, becoming mottled with alt of sericite-chlorite carb qtz. Chert bands at 10-15° to CA.

58.6 m — 8 cm of granitic dike with sharp contacts but uneven.
60.1 m — py in carb and chl in a thin stringer
61.9 m — few po blebs
64.3 - 65.1 m — biotite - aligned at 25° to CA. Lower contact at 20° to CA.

65.1 - 70.1 m Feldspar porphyritic tuff. Coarse grained. Similar to 47.1 - 54.3 m. Could be granitic dike. Po, py blebs with biotite qtz feldspar in finer grain chloritic matrix. Lower contact sharp at 20° to CA.

70.1 - 73.8 m Rhy-porphyritic rhy. Grey coloured with sections of porphyritic with diffused feldspar xals. Narrow sections of feldspar rich porphyritic tuff. Chlorite-sericite alt in narrow bands and around fractures. LC 30° to CA.

73.8 -178.9 m Rhyolite - similar to 70.1 - 73.8 m, but with hematite staining to give red colour at places brick-red colour. The red col is darker with amount of fracturing. Carb alt is considerable at places.

80.2 m	Narrow qtz-carb stringers at 75-80° to CA. Fractures at all angles, filled with carb qtz. Hematite staining decreases after 80.2 m.
82.9 - 84.1 m	Hematite stained
85.3 - 86.0 m	" "
93.9 m	" "
85.0 - 93.9 m	Fractures stained with hematite
81.4 m	onward some fragments of tuff with halo of carb. This could be localized alteration only.
96.9 - 97.4 m	broken core. Narrow section of heavy mica alt (sample at 106.1 m). specks, blebs and slivers of py, po in places and in some fractures. Chert bands. Fractures lined with rust.
113.7 m	Fine py stringer is carb and hematite on one contact of cherty rhy at 5-10° to CA.
116.7 m	Fault - 2' on either side is hematite stained, little gouge zone. Some sections of qtz-sericite-chl alt. Mottled texture, but not well developed.
127.4 m	Local alteration with a rim of po dissemination and few specks of cpy.
132.3 - 178.9 m	fractured and recemented with carb. Sections with mottled texture. Sections with lighter green sericite alt and/or bleaching.
140.2 - 140.8 m	cherty with upper contact with a 18 cm grey dike in which are the fragments of cherty rhy. Some cherty sections few blebs and slivers of py in cherty rhy. Sections of broken core at 153.0 m, 154.2 m, 156.7 m.
155.1 m	brecciated
156.7 m	qtz stringer and gouge. Fault zone with hematite staining, decreasing in both directions.
163.1 - 178.3 m	Altered in blotches or framboids, all aligned at 40-45° to CA. Core is chl, feldspar, qtz, po & little carb and rimmed with feldspar qtz. Some are crescent shaped while others are stretched oval.
164.9 m	rhy fragment
169.1 m	reddish tinge from hematite staining.

169.8 - 174.0 m 30% feldspar xals, diffused.

169.2 - 178.9 m carb, chl, qtz, feldspar alt as stringers& narrow zones. Some bleached, light coloured with carb alt. Py & po occurs as xals, blebs and slivers but not much.

177.4 - 178.4 m cherty rhy banded and slightly sheared with foliation at 30° to CA. Contains stretched blebs of py & po. Py also occurs as lining fractures. Carb abundant in fractures. Lower contract broken.

178.4 - 180.0 m Granitic dike.
Grey white, med grained biotite feldspar qtz, equigranular. Lower contact sharp but uneven ≈ 40° to CA.

180.0 - 202.1 m Rhy, cherty rhy and chert bands. Grey to light grey coloured. Carb, sericite, chlorite altered. Some alt bands carry slivers of sulfides- py & po. Some chert bands also carb altered. The carb contact is seen by degree of alt or lightness in colour.

184.4 - 195.1 m Fragmented. Oblong rounded fragments which could be localized alteration blebs or a contorted linear alt band cut at a bad angle. Py po also occurs in shear planes and fracture surfaces.

195.4 - 196.6 m Hematite stained, carb altered and intensely fractured rhy. Fractures recemented with carb & qtz.

197.8 m cherty bands, 30° to CA.
198.3 m thin carbonate stringer with py.
199.0 - 199.9 m cherty bands.
199.9 - 202.1 m similar to 184.4 - 195.1 m. Fragmented or altered.

202.1 - 222.2 m Rhy-dacite-tuff. Grey-green,brown-red hematite staining, intensely near fault zones. Heavily fractured and recemented. The fractures are marked by hematite hairlines.

206.0 m possible fault zone.

211.8 - 223.1 m silicious, rhy with cherty sections. This section has much less carbonate in the rock. Upper contact is sharp at 60-70° to CA. Hematite staining gives it brown-red colour whereas before the staining was spotty and fractured.

215.6 m — onward colour changes gradually to grey although heavily fractured. The fractures are filled with thin qtz stringers.

219.2 - 220.1 m chert bands.

222.2 - 228.9 m Rhy, chert and carbonaceous zones. Grey with dark-grey to black bands of carbonaceous with sulfide. Some py peppering.

222.3 m — 2 cm of py stringer with 40% py.
223.0 - 223.1 m carbonaceous - dark coloured with py slivers, blebs and in fractures. Some hematite staining, 5% py.

224.3 - 224.6 m similar to 223.0 - 223.1 m, 5% py.
225.1 - 225.2 m,
227.1 - 228.0 m carbonaceous with 3-5% py, fine carbonaceous material or graphite in cracks. The rhy is alt with carb, sericite & chl.

228.9 - 292.3 m Rhyolite - cherty rhyolite & chert. Grey colour, banded with altered bands 30° to CA. Some py rich bands, but they are narrow and py does not amount to much. Fractured and altered with lighter carb chl & sericite, containing py slivers.

235.3 - 292.3 m numerous 1 cm to 5 cm wide carb stringers at near 30° to CA. Some have qtz with it. Numerous sections of dark mottled alt at times with sharp contact and at times gradational contacts.

250.2 - 250.5 m dark mottled alt with fine po in them.

244.4 - 292.3 m cherty bands at about 30° to CA. Narrow stringers of py associated with carb-qtz altered bands. Sections with intense fracturing where sericite alt & bleaching is prominent.

253.9 m — 5 mm altered stringer with qtz, carb and po slivers and blebs.
269.9 m — 5 mm similar stringer with py, po.
266.4 m — 7 cm graphitic zone with py, po at 30° to CA, followed by narrow py, po graphitic stringer for next 10 cm.

267.0 - 267.3 m heavy carb alt.
271.0 m — py stringer at 20-25° to CA.
276.3 m — carb with possible siderite? - py xals over 14 cm, upper contact sharp at 75-80° to CA. Lower contact with carb.
288.6 m — py, po with carb on contact of 1 cm qtz vein at 20° to CA. Lower contact 20° to CA.

292.3 - 299.3 m Altered dacite tuff. Light grey colour, high carb alt in sections, dark spotty alt of sericite, chlorite carb, qtz veins and dark mottled alt. Few slips of graphitic sediments.

297.5 - 298.1 m carbonaceous & graphitic with carbonate alt and stringer of py with carb and py on contact 15° to CA. Graphitic slips continue to 299.3 m where another carbonaceous band at shallow angle is intersected. Lower contact broken.

299.3 - 320.3 m Rhyolite tuff. Grey coloured, with chert bands. Fine to med fine grained. Carbonate alt in bands, sericite alt. Few sections of mottled alt not quite well developed.

302.2 m py & carb stringer, chert. Some narrow argillite bands.

316.4 m argillite band with carb section and py. Sericite-chl alt & possible some bleaching. Lower contact cherty and contorted ≈ 25-30° to CA.

320.3 - 352.7 m Graphitic zone. Dacite-rhy tuff - chert. Grey, dark-grey to black. Banded and contorted with chert, graphitic and sericite altered. Py occurs either with or on contact with graphitic or carbonaceous bands, fractured and fine stringers of qtz across bands, few qtz stringers // to bands which are about 45° to CA.

331.8 - 331.9 m, 333.5 - 333.6 m, 338.3 - 339.9 m: graphitic or carbonaceous, argillite bands with py in slips and disseminated - some framboids. All at shallow angles, some with carb. Py is only up to 5%.
Other carb-argillaceous bands are as narrow slips and thin bands. Some chert bands. Sections of carb alt and qtz eyes.

347.8 m 20 cm of white qtz - 60%.Lower contact at 35° to CA. Graphitic to 352.7 m.

351.1 - 352.5 m heavily graphitic zone with some qtz bands.

351.6 m 13 cm of 70% py followed by framboids, blobs 15% to 20% py before and after. Graphite in hairline fractures.

350.8 - 351.3 m core in chips

351.4 - 351.6 m broken core

352.7 - 369.3 m Rhyolite - porphyritic. Grey buff colour porphyritic, med grained with qtz eyes py dissemination ≈2%. Some concentration of py in darker bands which are at 45° to CA.

357.1 - 357.5 m 3% py dissemination
357.8 - 360.3 m blocky core due to shallow angle fractures. Sections with fine carb alt.
360.3 - 360.8 m carbonaceous, banded with 5% py.
361.8 - 363.9 m feldspar xals, fine & diffused, disseminated py ≈2%.
363.9 - 365.5 m dark col carbonaceous with diss py and py filled cracks, py ≈2%. Lower contact broken.

369.3 - 395.8 m Rhyolite. Grey col. Blocky, causing drilling problems. Fine grained, few places qtz eyes, few alt bands giving mottled appearance. No carb alt in matrix as above. Few fractures filled with carb. Some alt with smok dark qtz in stringers. Occasionally cherty band and chert bands.

377.0 - 377.3 m, 381.8 - 382.1 m: chlorite carb alt, green coloured. The first section has py as grains & slivers. Some carb alt & stringers, occasionally with py. Qtz eyes at places. Py in fractures and as coatings in cracks.

390.1 - 390.2 m fractured and altered - carb & py, py ≈3%, 15 % carb. Stringers slivers etc. Py diss before and after continues for few feet.

392.3 m Py in fractures with carb stringers on one contact. Carb and few slivers of py on lower contact which is 40° to CA.

395.8 - 398.6 m Graphitic tuff, grey to black.

395.8 - 397.3 m grey col. dacite tuff.
397.3 - 398.6 m graphitic, py and carb, little qtz.
396.2 - 396.6 m 8% py in fractures at variable angles and ≈ at 30° to CA.
397.3 m upper contact of graphite has py, carb for 15 cm, py is 3-5%. Carbonate stringers throughout this section.
398.1 m qtz vein 2 cm wide.
398.2 m following a 5 cm carb vein at 30° to CA, 3-5 cm py zone, 30-40% py as layers at right L to carb vein.
398.4 - 398.6 m banded with graphite, py, carb and chert, 20% py.

398.6 - 476.2 m Rhyolite. Grey colour. Less blocky than section before graphite. Qtz eyes, py dissemination, few cherty bands. Altered zones with mottled look. Fractures with carb filling.

416.7 - 420.6 m more qtz, carb stringers than above. Chert bands more frequent than above.

424.9 m 2 cm carb chl stringer at 25° to CA.

Fine grained carb alteration in sections.

446.0 m 35 cm of qtz vein mostly white with patches of darker qtz and little carb mostly in fractures. Few feet on either side of this qtz show minor brecciation.

458.1 m 1 cm carb stringer at 15° to CA with peppering of med grained py xals over few cm on either side.

460.1 - 460.2 m chloritic section.
471.1 m 8 cm dark argillite band with very fine py and py on contacts.
471.5 m cherty bands, 30-35° to CA.

Lower contact is cherty at 30-35° to CA.

476.2 - 495.0 m Altered dacite tuff.
Grey-med. dark grey coloured - cherty section and chert bands. Sulfides from narrow stringer, blebs to narrow massive section. Low on carb alt. Mottled alt increasing.

479.8 - 479.9 m, 480.8 - 481.0 m - mottled section.

481.3 m 3.4 mm carb stringer with po
481.6 - 482.0 m 25% sulfides.
First 7.5 cm massive on one side of core narrowing down to 1 cm on the other side, next 2.5 cm are nearly barren followed by 3 cm of semimassive then few blebs and stringers in shear-planes or schistosity and some mottled alt. L 35° to CA. Sulfides are mostly po with one bleb of cpy in the massive po and little py, few specks of sph in the stringers.

482.0 - 482.8 m few stringers of sulfides, po, sph & py.
482.2 m a thin stringer with 5-10% sph,overall over 15 cm 1-1.5% sph.
482.3 m po, py with sph specks
482.5 - 482.6 m 35° to CA, po, sph, py over 3 mm, some diss of sulfides between stringers.
482.0 - 482.8 m total sulfides is 3-5%. Narrow cherty bands.
483.0 m 5 mm py stringer at 65° to CA and cutting across schistosity.
489.6 - 489.8 m 10% sulfides 1% sph - dragfolded, 15-20° to CA.

After this, mostly py with some po in thin stringers // to schistosity, some specks of sph. Po in blebs and large blobs with little py. Numerous chert bands.

494.1 m 7 cm brecciated, recemented.

495.0 - 499.1 m Cherty rhyolite.
Grey colour with numerous cherty bands and chert bands. Few thin stringers of py, po, total less than 2% at 40° to CA. Few mottled alt bands. Lower contact 40° to CA.

499.1 - 530.0 m Alt dacite tuff.
Grey med-dark grey in colour. Banded with chert bands and alt bands. Some sections of mottled alt bands. Some mica rich bands. Sulfides in stringer or slivers // to schistosity.

499.1 m 2 cm of 50% py, little po.
499.4 - 499.9 m bands and fracture filling of mostly po, 8-10% overall.
500.5 - 500.9 m 5% po and py blebs.
501.1 m sph in a 1 cm chert band which does not cross core.
502.3 - 511.1 m occasional narrow band of mostly po, with py specks and at times with sph and cpy. Overall less than 2% sulfides.
507.8 - 508.4 m po in schistostiy - cpy and sph splashing in fractures.
508.0 - 509.6 m heavy mottled alt with diss of cpy at one place and po on first 15 cm.
500.5 - 523.3 m sulfides mostly po with alteration, remobilized cpy in thin splashes // to schistosity which is at 40°in upper part and 25° in lower part.
500.5 m onward increase in mottled alt sections with brown tinge due to biotite, e.g. 522.0m.

523.0 - 524.6 m, 525.9 - 529.0 m and 529.4 m onward - mottled alt and mica bands.

525.9 m 3 mm po stringer & chert band, po does not cross core.
526.4 m po stringer
529.0 m bleached and banded buff coloured silica band with po xals.
529.4 m 5 cm with banded po, and cpy bleb.
529.4 - 529.9 m few more po slivers in schistosity.

530.0 m End of Hole.

Sample No.	From (m)	To (m)	Length (m)	Zn ppm	Cu ppm	Ag ppm	Au ppb
2101	222.9	223.1	0.2	120	54	0.5	40
2102	224.3	224.7	0.4	300	130	0.5	6
2103	224.7	225.0	0.3	150	81	0.5	3
2104	227.1	228.0	0.9	190	48	0.5	5
2105	322.3	322.7	0.4	110	37	0.5	24
2106	323.9	324.8	0.9	120	51	0.5	1800
2107	325.6	326.2	0.6	210	71	0.5	27
2108	338.3	340.0	1.7	170	130	0.5	28
2109	351.4	352.5	1.1	1100	410	0.5	400
2110	360.3	360.7	0.4	1000	170	1.5	24
2111	365.6	367.0	1.5	130	42	0.5	1
2112	396.2	396.6	0.4	180	99	0.5	16
2113	398.1	398.6	0.5	62	79	1.0	1100
2114	481.7	482.0	0.3	830	210	4.5	14
2115	482.0	482.5	0.5	1300	380	5.0	2
2116	482.5	483.1	0.6	1300	100	3.5	1
2145	488.1	489.6	1.5	160	320	3.0	3
2146	483.1	485.2	2.1	140	40	1.0	2
2147	485.2	486.8	1.6	110	25	1.0	2
2148	486.8	488.1	1.3	690	81	1.5	2
2117	489.6	489.8	0.2	520	470	3.0	5
2118	489.8	491.4	1.6	390	430	3.5	4
2119	499.1	499.9	0.8	270	85	1.5	2
2120	499.9	500.6	0.7	350	130	0.5	2
2121	500.6	501.1	0.5	1200	110	0.5	2
2122	507.8	508.4	0.6	780	57	0.5	5
2123	510.5	511.1	0.6	780	77	0.5	1
2125	520.9	521.2	0.3	68	780	0.5	1
2126	522.1	522.4	0.3	72	110	0.5	8
Average:	481.7	483.1	1.4	1119	223	4.25	4.1

METALLGESELLSCHAFT CANADA LTD.

Diamond Drill Record

Hole: W-6

Page: 1

Property:	WEISENER LAKE		
Location:	3+72S/4+68E	Start:	June 10, 1985
Azimuth:	262.5°	Finish:	August 22, 1985
Dip:	63°	Length:	941.2 m
Elevation:	Lake + 2 m	Purpose:	Follow up mineralization in W-4
Core Size:	BQ	Logged by:	J. Patel, 648.0-941.2 m B. Barnes

Light Log Bore Hole Readings

Depth	Azimuth	Dip	Depth	Azimuth	Dip
0	262°	62°	450	271.4°	55.8°
50	263.1°	61.8°	500	273.0°	55.1°
100	263.6°	61.8°	550	274.3°	54.9°
150	264.1°	61.7°	600	275.3°	55.1°
200	264.5°	61.2°	650	276.3°	54.8°
250	265.8°	60.1°	700	276.4°	55.1°
300	266.8°	59.1°	750	277.8°	54.8°
350	268.4°	57.5°	800	279.4°	54.0°
400	269.7°	55.7°	826	280.0°	53.9°

0 - 4.3 m Casing

4.3 - 66.8 m Altered dacite - grey colour, fine grained, qtz, carb alt on cracks and fractures and as blobs. Some hematite staining. Hairline fractures cemented with carb with sericite alteration around them.

29.9 - 30.6 m Brecciated and sheared.
38.1 - 38.9 m Hematite stained.
40.2 m 10 cm of stained quartz carbonate.
40.5 - 40.8 m Quartz-carb-epidote alt.
40.8 - 66.8 m Peppering of feldspar crystals. Chlorite sericite alt.
44.2 - 66.8 m Weakly magnetic.
54.4 - 54.6 m Basic dike with sharp contacts and med. grained. Lighter green coloured, magnetic. Contacts at 80-85° to CA.
63.2 - 64.0 m Basic dike. Similar to 54.4 - 54.6 m. Lower contact at 50° to CA.

66.8 - 70.8 m Granite-granodiorite dike. Med-grained, grey-pink coloured due to hematite staining. Lower contact 50° to CA.

70.8 - 98.7 m Dacite tuff. Grey, fine-grained with feldspar xals peppered all over. Carb-qtz locally and in fractures, some epidote alt.

76.2 - 76.5 m Broken core.
84.0 - 84.4 m Blocky.
94.5 - 94.8 m Weakly sheared at 15° to CA.
Lower contact 25° to CA.

98.7 - 99.2 m Granite dike. Similar to 66.8 - 70.8 m, med-grained, pink-red colour, hematite stained. Lower contact at 25° to CA.

99.2 - 103.3 m Dacite tuff. Similar to 70.8 - 98.7 m; first 60 cm have granitic inclusions.

103.3 - 106.4 m Alt. dacite tuff. Grey colour, med to fine-grained, weakly magnetic and sheared. Contacts gradational.

106.4 - 136.2 m Dacit tuff. Similar to 70.8 - 98.7 m. Peppering of feldspar crystals. Fractures in clusters filled with carb. qtz. Some hematite staining.

108.8 - 112.2 m Few places with local brecciation and recementing with carb. Qtz. with dacite fragments. Few py xals.
119.5 - 136.2 m Local alt as blobs. Large slivers of carb, epidote, qtz. Some hematite staining.
128.6 - 128.9 m Small lenses of soft hematite filling, possibly after sulphides with qtz carb. Carb still present as fine-grained in these lenses.
126.5 and 129.5m Brecciated and granular, Fe stained.
Lower contact 60° to CA.

136.2 - 137.8 m Granitic dike. Grey to pink-red where hematite stained.

136.6 m Qtz. Coarse-grained feldspar. Last 15 cm contaminated and green-grey coloured.
Lower contact broken.

137.8 - 173.1 m Dacite tuff. Grey colour. Peppered with feldspar crystals. Altered around cracks. Section of bleached and altered where fractions are concentrated. Alt as island

150.3 m	15 cm of brecciation and carb alt, brown coloured with py xals - possible dolomite.
155.0 m	Py in a contorted stringer, adjacent to a qtz stringer.
156.4 m	Qtz carb at 15-20° to CA.
163.7 m	2 cm of alt, with py similar to 150.3 m.
163.7 - 165.5 m	Py xals and blebs and occasional thin py stringer.
169.8 m	Qtz stringer 5 cm wide at 25° to CA. Some epidote on contact and within qtz. Lower contact 60° to CA.

173.1 - 173.4 m Granitic dike. Grey, pink stained with hematite. Lower contact 50-55° to CA.

173.4 - 173.9 m Alt. dacite. Grey colour, some py xals and a stringer with py. Lower contact at 65° to CA.

173.9 - 175.4 m Granitic dike. Stained to pink colour.

175.0 m	5 cm qtz. Lower contact dragged at 5 - 10° to CA for 23 cm.

175.4 - 180.9 m Porphyritic rhyolite and sulphides.

	175.4 - 176.2 m	med. grained, grey colour, with py peppering ~3 - 4 %.
Samples 2127-2131	176.2 - 178.5 m	Coarse grained porphyritic qtz feldspar & sulphides.
	176.2 - 177.7 m	~20% py and po. Py slightly higher than po. Sulphides occur as blobs connected with each other (as breccia filling matrix). Py is mostly in centre enveloped by po.
	178.3 m	Some stringers and blebs of py.
	178.5 - 178.8 m	Granitic dike. Stained pink colour, qtz rich.
	178.8 - 180.9 m	Porphyritic. Rhy with sulphides similar to 176.2 - 177.7 m. 179.1 - 180.1 m 15-20% py + po 180.1 - 180.9 m 3- 5% py + po

180.9 - 187.8 m Rhy-dacite. Grey colour, med-fine grained with bands of med grained at 30° to CA. Py at places as peppering, slivers and in fractures ~2% py and 1% po to 185.3 m.

187.5 - 187.8 m Cherty bands at 30° to CA.

187.8 - 192.9 m Cherty rhy-dacite. Grey colour, fine grained with chert bands at 30-35° to CA. Py in fractures and as xals.

Samples 2132,2133
192.2 - 192.6 m Massive po, 50%.
192.6 - 192.8 m 10% po.
192.8 - 192.9 m Minor po.
Lower contact 50° to CA.

192.9 - 193.6 m Granitic dike, grey colour. Lower contact 65° to CA.

193.6 - 196.1 m Rhyolite with cherty sections and dissemination of py.

Sample 2134
195.4 - 195.6 m 30% po, 10% py.
195.8 - 196.1 m 45-50% po, 10% py.

196.1 - 197.1 m Granitic dike, hematite stained, pink colour mostly. Lower contact grey and at 45° to CA.

197.1 - 210.8 m Dacite tuff. Grey colour with peppering of feldspar xals.

Sample 2135
199.3 - 199.9 m 3-4% py dissemination. Few py xals all over.

Carb in fractures and few stringers, epidote, chlorite, carb alt widespread. Lower contact sharp but uneven.

210.8 - 211.8 m Granitic dike. Pink coloured, massive med grained. Lower contact shallow at 15° to CA.

211.8 - 214.7 m Alt dacite. Grey colour, weakly sheared carb, sericite, chl, epidote. Blebs and thin bands. Few py xals. Lower contact 45° to CA.

214.7 - 215.2 m Granitic dike. Similar to 210.8 - 211.8 m. Lower contact broken.

215.2 - 216.1 m Alt. dacite. Similar to 211.8 - 214.7 m. Lower contact 45° to CA.

216.1 - 217.6 m	Granitic dike. Similar to 210.8 - 211.8 m. Grey in central part.
217.6 - 230.7 m Samples 2136-2140	Alt. rhy, dacite and granitic sections. Brown, maroon red coloured, carbonate rich. Rusted in blobs and stringers. Few py xals. Weathering similar to gossan near surface but only moderately progressed. Some py shows haloes of alt whereas others appear fresh. Brown and maroon red alt fizzes strongly.
230.7 - 236.5 m Samples 2141-2143	Alt rhy-dacite. Similar to above but much less oxidation and not much carb. Predominently grey colour. The rock is brecciated. Fine disseminated py up to 8%. Lower contact 55° to CA.
236.5 - 237.1 m	Grey dike, med grained, soft, grey coloured (possible alt feldspar porphyry?). Feldspar crystals over 2.5 cm on both contacts. Lower contact 70-80° to CA.
237.1 - 246.6 m	Brecciated rhy. Grey, pink, brown-red colour due to hematite staines.
	238.2 m — 6 cm of vuggy carb vein at 65° to CA, little py as fine crystals. 240.2 m — onward green-buff colour, less hematite and carb. 243.8 - 244.9 m — Alt granite dike. 245.4 - 246.6 m — Fine grained massive with alteration and hematite in stringers, carb altered throughout.
246.6 - 250.7 m	Dacite-rhyolite. Grey colour, massive and fine grained. Carb, sericite alt in large slivers and bands. Lower contact 45° to CA.
250.7 - 267.3 m	Granite dike. Grey colour to reddish pink where hematite stained. Few py xals.
	258.5 - 259.8 m — Dacite stained with hematite. Lower contact broken.
267.3 - 283.6 m	Alt dacite-rhy. Grey, light green colour. Highly sericitized and softer. Few cherty sections banded at 30° to CA. Few narrow sections of granitic dikes.
	279.5 m — onward silicious sections, banded at 30° to CA. Some sections with fine qtz eyes. 282.5 - 283.6 m — Rhy, cherty-glassy texture.

283.6 - 285.4 m Granite-granodiorite. Grey colour except where hematite stained to reddish colour. Upper contact 75-80° to CA. Lower contact at 20° to CA.

285.4 - 300.8 m Alt rhy-dacite tuff.
First metre grey, changing to red-grey with increasing hematite staining (sample at 287.3 m).

290.5 m	8 cm of earthy carb rich section, few qtz blobs (sample at 290.5 m).
296.7 m	possible fault. Little carb in fracture filling.
297.8 m	onward gradual decrease in hematite staining, getting to original grey coloured like other holes.

300.8 - 324.6 m Dacite tuff. Grey, fine-grained. Sericite alt around fractures where intensely fractured. The alt gives the light green buff colour for 15 cm or more. Carb occurs in cracks only.

324.6 - 349.3 m Dacite-tuff with feldspar xals. Grey colour, with 10-15% feldspar xals. Otherwise similar to 300.8 - 324.6 m.

331.5 m	6 cm of brown carb rich mustard coloured section with sharp angles 80-85° to CA, last 3 m are lighter coloured.

349.3 - 365.5 m Dacite tuff with chert bands, grey colour, fine grained, massive. Numerous lighter coloured chert bands at ~30° to CA. Carb in rocks and in cracks. Fractures show spreading sericite alteration.

365.5 - 375.7 m Rhyolite tuff. Grey colour with narrow porph sections. Less fractured than above dacite. Fracutres filled with carb. Some carbonatization of the rock.

375.7 - 394.0 m Alt dacite tuff. Grey to buff colour, fine grained. Heavily carbonated. Fractured with alt around them. At times heavily fractured and bleached appearance for up to 30 cm.

387.7 - 390.8 m	grey coloured, less fractured.
390.8 - 394.0 m	similar to 375.7 - 387.7 m, moderate sericite, carb alt with fracturing.

394.0 - 399.3 m Porphyritic dacite tuff. Grey, massive with 5-10% feldspar xals. Much less carbonated and sericitized than rocks above. Sericite alt along fractures only.

399.3 - 442.6 m Alt dacite tuff. Light grey, buff colour, similar to 375.7 - 394.0 m. Buff colour where alt, otherwise grey. Few stringers of qtz with little carb throughout. Stringers ~5 mm or less.

415.7 - 419.1 m, 420.0 - 421.5 m grey colour, less sericite alt than remaining.
422.5 - 423.1 m Intensely sericitized and brecciated with some epidote and green muscovite.
414.2 - 415.4 m Blocky core with probably 1' lost.
417.9 - 419.2 m, 421.8 - 422.3 m, and 428.5 - 429.3 m: cherty and glassy texture.
426.4 - 430.7 m Grey colour with few sections of sericite altered, buff colour.
430.7 - 432.5 m Moderate sericite altered, buff grey section.
432.5 - 436.2 m Grey dacite.
436.2 m 6 cm of qtz between 3 cm of grey mustard colour, alteration. Little py in fractures.
436.2 - 438.3 m Sericite alt, grey buff colour.
438.3 - 442.6 m Grey colour, more massive than above. Lighter green colour and altered around fractures.

442.6 - 446.1 m Dacite-rhyolite tuff.
Grey colour, lighter than unaltered dacite above. Massive. Carb and sericite alt. Fractures filled with carb and fine py xals. Banding at 45° to CA.

446.1 - 454.5 m Rhyolite. Grey light-grey colour, massive and silicious.

449.9 - 454.5 m Sericite alt, no carb alt, except in fractures with qtz. Lower contact 55-60° to CA.

454.5 - 455.3 m Graphite zone. Rhy as 446.1 - 454.5 m and graphite bands. Qtz stringers on both contacts. Fine dissemination of py first 15 cm at 2-3% and last 15 cm at 8-10%. Lower contact 75-80° to CA.

Sample 2144

455.3 - 457.8 m Rhyolite-dacite. Grey-buff coloured with minor fine carbonaceous slips.

456.3 - 456.7 m Graphitic and carbonaceous. Little carb alt and few qtz stringers.

457.8 - 458.7 m Rhy, grey coloured and massive, slightly magnetic in sections.

458.7 - 460.9 m Dacite rhy tuff. Grey coloured, massive.

459.5 - 460.2 m light grey colour with altered upper contact at 30° to CA with 15 cm chlorite rich basic dike. Lower contact 30° to CA.

460.9 - 469.5 m Feldspar porphyritic tuff. Med dark grey coloured and massive. 20% feldspar xals. Carbonatized and carb in fractures.

462.4 - 462.8 m cherty band. Lower contact 50° to CA.

469.5 - 511.0 m Cherty rhyolite. Grey coloured, fine-grained, massive with chert and carbonate bands at 25° to CA. Some sections glassy looking.

477.6 m 15 cm with 3 thin contorted stringers of po-py. Narrow 6-8 cm wide bone-coloured silica bands at 25° to CA. Few slivers and blobs of po.

490.1 - 490.6 m, 490.9 - 491.3 m: cherty bands.

491.3 - 492.3 m hairline.Stringers of py and po in shear planes. 6 cm carbonaceous, carb qtz vein at 10° to CA. Py occurs as fracture linings.

494.1 - 495.1 m cherty, ending with 1 cm of carbonaceous carb and po band at 25° to CA.

496.5 m 15 cm of qtz-carb vein at 20° to CA.

503.5 - 511.0 m numerous 1-2 cm wide carb-rich bone coloured silica bands at 20° to CA. Some contorted and broken, otherwise quite regular.

511.0 - 516.0 m Altered dacite. Grey brown coloured with fine po dissemination. Sample at 513.9 m. Slightly magnetic, somewhat banded at 20° to CA. Bone colour. Carb, silica bands at 20° to CA.

516.0 - 539.2 m Dacite rhy tuff. Grey coloured with buff-bone coloured carb silica bands, carb alt extends in the rock. Banding at 20° to CA.

517.6 m 10 cm of dark mottled alt.

524.6 m, 527.6 - 527.9 m mottled alt but not as clearly developed as at 517.6 m Few chert bands.

539.2 - 578.8 m Cherty rhyolite - dacite. Grey colour. Massive.

540.7 m 15 mm wide band of chert at 20° to CA; with py, po on contacts and along fractures. Some specks of sph on upper contact.

Few sections with mottled alt. Few fine stringers of py and po along bands. Some sulphides as fine disseminations and in qtz, carb stringers.

562.7 - 563.0 m 1.5 cm wide qtz band with diss layered py and po.
559.0 - 559.3 m, 570.9 m, 571.5 m well developed mottled alt.
549.6 - 578.8 m numerous light grey coloured cherty bands, at times with little carbonate. They are at 15-20% CA in the beginning changing to 30° at depth. Sometimes they have slivers and blebs of po.
573.6 m & 574.2 m thin po stringers // to schistosity, and associated with cherty bands.
Lower contact has heavy carb alt and diss po, py over 2 cm.
Lower contact at >10° to CA and somewhat brecciated and contaminated with dike below.

578.8 - 579.8 m Qtz-feldspar dike. Medium fine grained alt and heavily carbonated. Grey with green tinge due to fuchsite alt. Sharp contacts. Lower contact at 75° to CA and cuts across the schistosity of rhy below.

579.8 - 591.5 m Cherty rhyolite with carbonaceous bands, grey fine-grained massive. Glassy texture at places, dark chert and carbonaceous bands at 30° to CA. Some of them contain stringers of po, py and carb. Fine slivers of graphite with carbonaceous chert bands.

Lower contact 35 - 40° to CA.

591.5 - 593.3 m Qtz-feldspar dike. Similar to 578.8 - 579.9 m. Grey colour, less fuchsite than before. Upper part carbonated (sample at 531.0 m).

Lower contact chilled, at 45 - 50° to CA.

593.3 - 605.6 m Rhy-dacite with graphitic bands. Similar to 579.9 - 591.5 m. Increase in graphite than above section.

Samples 2149-2154

594.8 - 603.5 m dark grey colour, graphitic.
595.0 - 596.2 m 8% py, po with graphite bands at 30° to CA. Five cross fractures filled with py at 60° to CA.
595.0 - 599.2 m banding at <5° to CA with diss py, carbonaceous sediments and graphite.
599.2 - 602.3 m highly graphitic bands, brecciated qtz, py, po and minor chert.
599.2 - 599.7 m 25% py with qtz on both contacts
600.1 - 600.2 m 3-5 % py, graphite.
600.2 - 605.3 m stringer of py about every 12" to 18" apart.
601.4 - 602.1 m and 604.0 - 604.9 m: brecciated chert, recemented in silicious matrix, carb in fractures.
601.4 m 2.5 cm bull qtz vein at 35° to CA.
Last 15 cm cherty.
Lower contact sharp at 60° to CA.

605.6 - 606.9 m Qtz-feldspar dike. Similar to 578.8 - 579.9 m. Green fuchsite blebs or small islands.
Lower contact chilled at 85° to CA.

606.9 - 609.3 m Cherty rhyolite. Grey massive fine-grained. Upper contact brecciated for 7 cm.

607.8 m 15 cm of qtz with rock fragments.
607.8 m 15 cm of graphite band with 2-3% py and chert band at 25° to CA.

Lower contact 70° to CA.

609.3 - 609.6 m Qtz-feldspar dike. Similar to 605.6 - 606.9 m. Lower contact 85° to CA.

609.6 - 613.6 m Cherty rhy. Similar to 606.9 - 609.3 m. Lower contact 65 - 70° to CA.

613.6 - 614.8 m Qtz feldspar dike. Similar to above. Central core is grey. Lower contact broken.

614.8 - 616.3 m Cherty rhyolite. Similar to 609.6 - 613.6 m.

616.3 - 617.4 m Qtz feldspar dike - similar to 605.6 - 606.9 m. Upper contact uneven and lower at 10° or less to CA.

617.4 - 636.7 m Rhyolite, chert, graphite and acid dike segments.

	617.4 - 618.2 m	grey cherty rhyolite.
	618.2 - 618.9 m	chert/rhy and graphite- brecciated with diss py and slivers and stringers of py at 35° to CA.
	619.0 - 619.4 m	acid dike, similar to above (613.6 - 614.8 m qtz feldspar dike) with uneven shallow upper and lower contacts.
	619.4 - 619.7 m	cherty rhyolite.
	619.7 - 620.1 m	acid dike with green fuchsite. Upper contact at 30° to CA with 4-5 mm py stringer. Lower contact 30 - 35° to CA.
Sample 2155	620.1 - 621.0 m	Graphite, py and chert. First 20 cm qtz-carb at 30° to CA. 620.3 - 620.6 m banded chert, py and graphite. 25% py. 620.6 - 621.0 m chert graphite and py diss except last 7 cm with 25% py at 25-35° to CA.
	621.0 - 621.5 m	banded chert and rhy with little py.
	621.5 - 621.8 m	acid dike - grey centre and with fuchsite buff-green coloured contacts. Upper contact at 40° and lower at 55° to CA.
	621.8 - 624.4 m	cherty rhy. Buff-green coloured sericite alt. At 624.2 m 5 cm acid dike.
	624.4 - 626.1 m	graphite zone with chert bands. Py is on chert contacts which are at 30° to CA. Some py as framboids in graphite.
	626.6 m	8 cm of acid dike.
	626.1 - 626.4 m	28 cm of acid dike. Upper contact at 40° and lower contact uneven.
	626.4 - 626.5 m	18 cm of graphite with diss py about 4%.
	626.5 - 636.7 m	cherty rhyolite and acid dike bands. Rhy is grey buffish colour, sericite alt with diss py and few py stringers. Acid dikes are similar to above at 10 cm at 629.9 - 630.0 m, 630.5 - 632.6 m, with qtz over 10 cm at 631.1 m (sample at 632.5 m). More dike at 632.9 - 633.1 m, 634.8 - 635.1 m. Core angles vary 70-80° to CA.
	636.1 - 636.7 m	chert fragments in carbonaceous sediments and carbonated.

636.7 - 637.8 m Graphite-rhyolite. Grey, dark grey to black. Sericite and carbonate alt. First 30 cm gradually change to graphitic black in colour. Next 30 cm are graphitic sediments with thin graphite layers and py on lower contact, 5% py over 10 cm.

637.3 - 637.8 m rhy with thin fractures containing graphite. Altered to light green colour. Lower contact 70° to CA.

637.8 - 638.4 m Acid dike (qtz-feldspar dike). Similar to above. Grey green colour with fine dark dots - carb alt. Lower contact 65-70° to CA.

638.4 - 642.7 m Carbonaceous sediments, rhy, chert and graphite. 25% is carbonaceous sediments with layers of graphite - dark grey to black coloured.
Remaining core is rhyolite with some carbonaceous slips - angles are 30° to CA.
Few py and po xals and stringers, mostly at contact of rhy and graphite.

639.9 - 640.2 m acid dike - at 35-40° to CA.

Lower contact at 30° to CA.

642.7 - 648.3 m Rhyolite with few cherty bands. Grey fine-grained massive. At places glassy texture. Some mottled alt. 1 cm and 1.5 cm qtz veins at 75° to CA, surrounded by mottled alt which has sharp contacts. Carbonate alteration throughout. Lower contact gradational.

648.3 - 680.9 m Dacite tuff with graphitic bands, grey colour with dark-grey to black graphitic bands, spaced 1-1.5 m apart, at 30-40° to CA. The graphitic bands are 2 - 8 cm wide and carry a stringer or two of py or po with py. Some drag folding. Carbonate alteration at places is heavy. Some diss of py and py alteration in blobs also py xals in fine carb filled fractures.

676.1 - 678.7 m auto brecciation, folding, faulting with heavy carbonate fracturing.
672.9 - 680.9 m increasing argillite content.

680.9 - 688.8 m Graphitic Argillite with interbedded dacite tuff. Disseminated py throughout with blobs of po and py in places up to 25%. Average throughout unit is 5% sulfides.

MCL 2156-2161

681.0 - 682.3 m	graphitic argillite with 4% po, 1% py
682.3 - 683.2 m	graphitic argillite with 3% py, 1% po
683.6 - 685.1 m	graphite with 10% po, 1% py
685.1 - 686.6 m	graphite with 2% sulfides
686.6 - 687.8 m	graphite with 4% po
687.8 - 688.7 m	graphite with 3% sulfides

Lower contact distinct at 30° to CA.

688.8 - 718.8 m Dacite Tuff/Crystal Tuff. Light grey-green colour, non-calcareous, non-magnetic, less than 1% finely disseminated po, py throughout unit, infrequent patches/blobs, massive po or py.

718.8 - 721.2 m Argilliceous Sediments, graphitic in part with small altered garnets throughout but especially heavy at contacts with the frequent patches of crystal tuff within the unit. Non-calcareous. Magnetic due to patches of po.

MCL 2162

719.1 - 720.1 m garnetiferous, argillite with 5% po.

721.2 - 747.4 m Rhyolite, Dacite Tuff, Sediments, Mafic Dykes. A highly variable unit with intermixed sections of dacite, crystal tuff, mafic dykes, sediments. Rhyolite/chert is non-calcareous, grey colour; chert is often brecciated; may have 5% disseminated py and patches of po. Mafic dykes are non-calcerous, chloritic, brown and black amphibole common; distinct contacts at 70° to CA. Chill margins are evident. Dykes from

732.6 - 732.9 m, 733.2 - 733.8 m, 735.4 - 735.8 m, 738.1 - 738.7 m, 746.3 - 747.4 m.

747.4 - 759.0 m Dacite Tuff/Crystal Tuff. As above similar units. Apparent foliation 45° to CA. Several 1-2 cm wide white to pink quartz veins.

758.7 - 759.0 m some mixing with argilliceous sediments with blobs of po and garnets.

759.0 - 812.0 m Rhyo-Dacite/Rhyolite. Unit becomes more siliceous with depth and contains periodic sections that may be classed as dacite as well as sections of crystal tuff. As a whole, the unit is grey to buff-grey, non-calcareous, non-magnetic.

782.9 - 783.5 m mafic dyke with garnetiferous contacts. Contains 5% po and py at lower contact.
786.9 m apparent foliation 45° to CA.
791.2 - 810.1 m unit is highly fractured constituting blocky drilling conditions.

Below 792.7 m there is an increase in sericite alteration that is pervasive to the bottom of the unit.

MCL 2163 805.5 - 806.5 m rhydacite and sediments with some graphite containing bands of py as well as heavy dissemination of py approaching 5% total sulfide content.

MCL 2164-2167 809.5 - 810.8 m rhyolite with 3% py, 4% po, odd speck sph.
810.8 - 811.8 m brecciated rhyolite 3% py, 2% po.

812.0 - 813.0 m Altered Rhyolite. Dark green, chloritic. Non-calcareous till 812.3 m. Calcareous from 812.3 m to contact with lower unit. Disseminated and cubic py crystals throughout but heaviest concentrations at lower contact. Approximately 3% sulfides in total unit.

811.8 - 812.3 m chlorite altered rhyolite, 2% disseminated py as well as in fractures.
812.3 - 813.0 m chlorite and carbonate, altered rhyolite with 3% sulfides.

813.0 - 848.6 m Mafic Dyke. Contact with rhyolite 20° to CA. Fine to medium grained, green to green-grey colour, highly calcareous, non-magnetic, soft due to chlorite and carbonate.
831.7 m contact along core axis with rhyolite for 25 cm.
Frequent remnant feldspar phenocrysts now altered.
Lower 2.5 m of unit has many 0.5 cm wide calcite veins cutting 70° to CA.

848.6 - 851.7 m Rhyolite. Buff to tan colour, non-calcareous. Highly fractured. Dark sericite alteration halo surrounding fractures.

851.7 - 857.8 m Mafic Dyke. Sharp contact with above unit 85° to CA. Grain coarsening toward bottom of unit.

857.8 - 861.7 m Rhyodacite. Contact with mafic dyke is sharp and continuous along core axis for 1.3 m from 857.8 to 859.1 m. Contact reappears at 859.8 m for 30 cm. Unit is dark grey, calcareous in part. Fine disseminated py throughout ≈5%.

860.0 - 861.3 m rhyodacite with diss py and some py stringers ≈5%.

Bedding at 10° to CA. Lower contact indistinct at 80° to CA.

861.7 - 895.4 m Mafic Dyke. As above similar units. Coarser grained (diabasic) from 883.2 - 890.9 m. Dark alteration splotches (chloritized feldspar?) more prominant from 890.9 to 892.3m. Dyke becomes fine grained, feldspar porphyritic with some fuchsite in lowest 2 m of unit.

895.4 - 898.5 m Graphitic Argillite. Mixing with quartz carbonate beds. Rhombs of calcite 1 cm across. Slumping, folding evident. Massive and semimassive py in stringers ≈10%.

895.4 - 897.1 m graphite with 10% py.
897.1 - 898.5 m graphite with 10% py.

Contact at 15° to CA.

898.5 - 941.2 m Dacite/Dacite Tuff.
Homogeneous grey to buff grey colour, calcareous. Foliation/bedding 20° to CA. Faint sericite alteration patches found at 901.5 m, 901.7 m, 903.9 m, 924.4 m, 930.5 m, 937.5 m.

941.2 m End of Hole.

Sample No.	From (m)	To (m)	Length (m)	Zn ppm	Cu ppm	Ag ppm	Au ppb
2127	176.0	176.4	0.4	260	10	2.0	320
2128		177.6	1.2	220	90	2.5	920
2129		178.4	0.8	80	46	0.5	7
2130		179.1	0.7	44	16	>0.5	3
2131		180.1	1.0	110	99	0.5	8
2132	192.2	192.6	0.4	540	230	1.0	20
2133		192.9	0.3	80	38	<0.5	2
2134	195.4	196.1	0.7	400	710	1.5	24
2135	199.3	199.9	0.6	68	53	0.5	3
2136	218.5	220.0	1.5	17	10	1.5	1400
2137		221.6	1.6	18	25	2.0	1300
2138	226.2	227.7	1.5	22	10	1.5	980
2139		229.2	1.5	140	45	1.5	1400
2140		230.7	1.5	170	72	1.5	280
2141		232.3	1.6	190	72	1.5	190
2142		233.8	1.5	200	28	1.0	340
2143		235.5	1.7	260	54	1.0	730
2144	454.5	455.3	0.8	160	56	0.5	33
2149	595.0	596.2	1.2	140	70	0.5	73
2150		597.7	1.5	76	66	<0.5	6
2151		599.2	1.5	26	47	0.5	26
2152		599.7	0.5	560	100	2.0	810
2153		600.6	0.9	38	14	<0.5	29
2154		602.1	1.5	130	44	1.0	130
2155	620.3	621.2	0.9	67	110	0.5	85
2156	680.8	682.1	1.3	560	130	<0.5	15
2157		683.0	0.9	540	110	<0.5	11
2158	683.5	684.9	1.4	850	210	<0.5	15
2159		686.4	1.5	210	27	<0.5	<2
2160		687.6	1.2	440	70	<0.5	5
2161		688.6	1.0	570	44	<0.5	5
2162	718.9	719.9	1.0	580	110	0.5	12
2163	805.3	806.3	1.0	91	44	<0.5	19
2164	809.2	810.6	1.4	40	60	1.0	15
2165		811.7	1.1	41	56	1.0	11
2166		812.1	0.4	80	6.5	<0.5	<2
2167		812.7	0.6	100	40	<0.5	3
2168	859.8	861.1	1.3	85	110	0.5	11
2169	895.2	896.9	1.7	38	67	<0.5	43
2170		898.4	1.6	38	38	<0.5	80
Average:	809.2	812.7	3.5	55.2	49.2	0.8	10.1

Ministry of Natural Resources — Ontario

Rep of W

52F05SW0057 47 DOGPAW LAKE

900

required data on a separate form for each
l work to be recorded (see table below).
o-technical work use form no. 1362 "Report
s (Geological, Geophysical, Geochemical and
litures)".

#72-86

Name and Postal Address of Recorded Holder

Metallgesellschaft Canada Limited
Suite 3100, 2 Bloor St. E. Toronto Ontario M4W 1A8

Prospector's Licence No.

T-705

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed: 1240

for Performance of the following work. (Check one only)

- ☐ Manual Work
- ☐ Shaft Sinking Drifting or other Lateral Work.
- ☐ Compressed Air, other Power driven or mechanical equip.
- ☐ Power Stripping
- ☑ Diamond or other Core drilling
- ☐ Land Survey

Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
K	845309	100	K	845317	100	K	845414	20
	845310	20		845328	100		845415	60
	845311	20		845408	100		845416	60
	845312	20		845409	20		845417	20
	845313	100		845410	20			
	845314	100		845411	100			
	845315	100		845412	100			
	845316	60		845413	20			

All the work was performed on Mining Claim(s): K-615457, K 632320

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Diamond Drilling. B.Q. core - by Prospect Diamond Drilling Ltd.
75 Wynford Heights Crescent
Don Mills, Ontario.
M3C 3H8
owner. John Ashwenden
for work performed in the period of
July 4/85 to August 22/85.

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
RESEARCH OFFICE
JUN 6 1986

RECEIVED

KENORA
MINES DIV.
MAY 21 1986

Date of Report	Recorded Holder or Agent (Signature)
Nov. 1985	

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

J. Patel 3100, 2 Bloor St East Toronto M4W 1A8

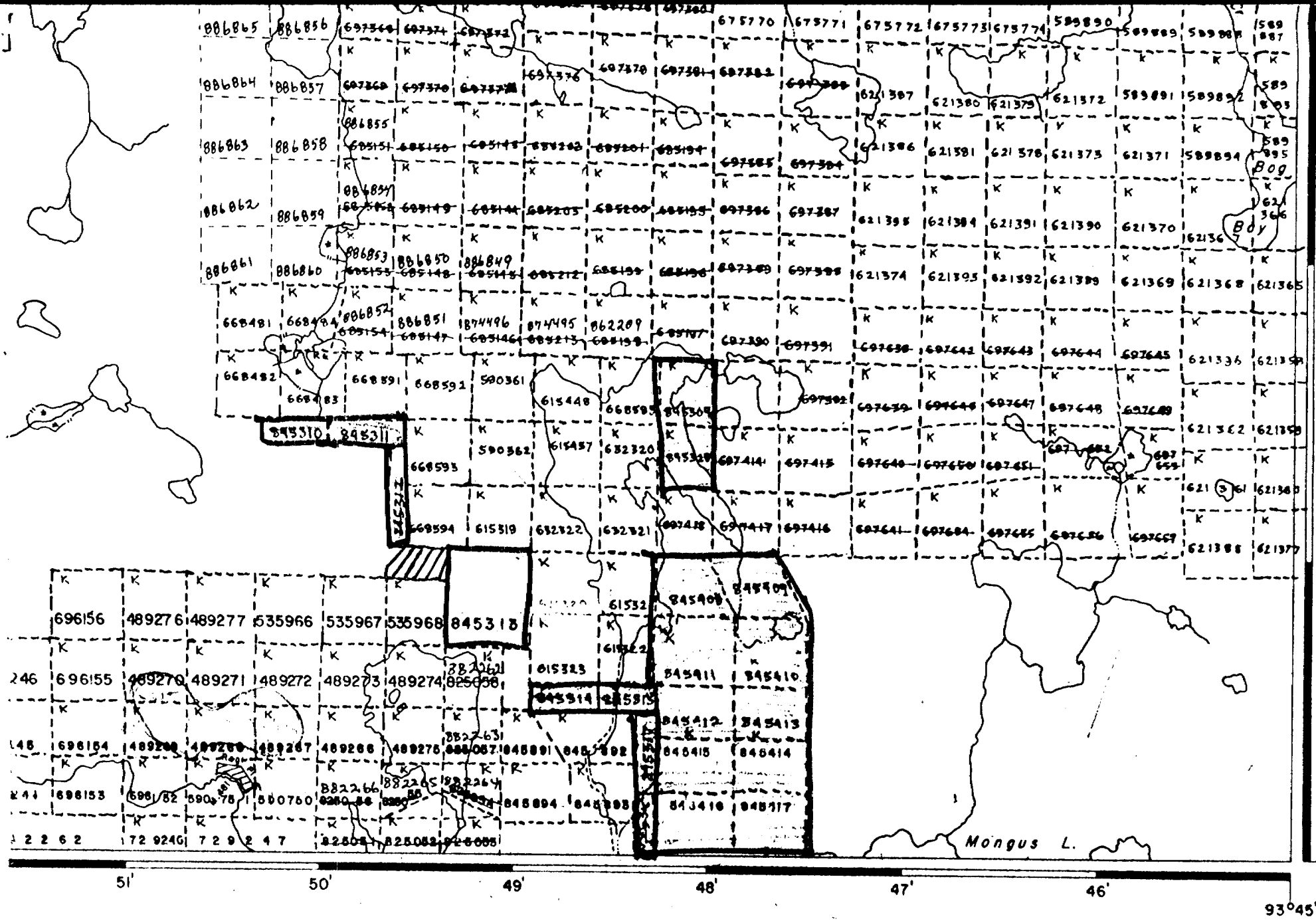
Date Certified	Certified by (Signature)
14/05/86	

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work		Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment. 845309	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyer.	Nil	Nil

KENORA MINES DIV. RECEIVED MAY 21 1986

768 (81/3)



DOGPAW LAKE

G.2613

2+00 W | 1+00 W | B L. | 1+00 E | 2+00 E | 3+00 E | 4+00 E | 5+00 E

S64°W

N64°E

59 700 gammas
59 500
59 300

MAGNETOMETER

CONDUCTOR AXIS

Out-Phase

In-Phase

POSITIVE 20% 10%

MAX MIN II (440 Hz — 150m cable)

NEGATIVE 10% 20%

W - 4
0+50S, 1+56W
Dip - 56°, el. 1m

SURFACE (approx.)

0m. (Lake elev.)

W-6
(108m. South of this Sect.)

-100 m.

-200 m.

-300 m.

-400 m.

-500 m.

-600 m.

-700 m.

-800 m.

No. 0 Depletion (0.24)

(on Section)

E.O.H. 941.2m
(140m. North of this Sect.)

Legend:

A	Andesite
R	Rhyolite
D	Dacite
T	Tuff
F.P.T.	Feldspar Porphyry Tuff
L	Lithic Tuff
C	Chert or Cherty
Gb	Gabbro
Gr	Granite Dike
Q.P.	Quartz Porphyry Dike
G.P.	Graphite
V.T.	Volcanic Tuff (old drill holes)
Md	Mafic Dike
alt	Altered
agg	Agglomerate
Bx	Breccia

SCALE 1:1000
0 10 20 30 40 60 80 100
METRES

METALLGESELLSCHAFT CANADA LIMITED

HINZER OPTION, WEISENER LAKE, ONTARIO

CROSS-SECTION

(Ddhs W-4, W-6)
PROJECTED

Work by: J. PATEL	Date: MAY 1985	Map 6	Scale: 1:1000
Drawn by: R. E. O.	Date: MAY 1985	Revised on: OCT. 1985	Drawing No.

52F05SW0057 47 DOGPAW LAKE

200

2+00W | 1+00W | BL. | 1+00E | 2+00E | 3+00E | 4+00E | 5+00E

S45°W

N45°E

Surface (approx.)

0m. (Lake elev.)

MAX MIN II
(440 Hz — 150m cable)

POSITIVE 20% 10% 0 NEGATIVE 10% 20%

CONDUCTOR AXIS

In - Phase

Out - Phase

W - 5
3+08S, 3+90E
Dip -62°, el. 3m

-100 m.

-200 m.

-300 m.

-400 m.

-500 m.

-600 m.

E.O.H. 530 m.

SULPHIDES 10 40% cpy

Na_2O Depletion (0.23)

Legend:

A	Andesite
R	Rhyolite
D	Dacite
T	Tuff
F.P.T.	Feldspar Porphyry Tuff
L	Lithic Tuff
C	Chert or Cherty
Gb	Gabbro
Gr	Granite dike
Q.P.	Quartz Porphyry Dike
G.P.	Graphite
V.T.	Volcanic Tuff (old drill holes)

alt Altered
agg Agglomerate
Bx Breccia

SCALE 1:1000
0 10 20 30 40 60 80 100
METRES

METALLGESELLSCHAFT CANADA LIMITED

HINZER OPTION, WEISENER LAKE, ONTARIO

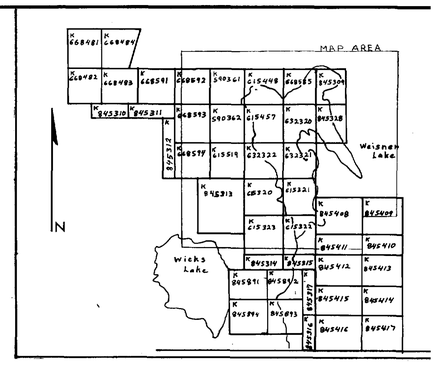
3+00S

CROSS-SECTION

(Ddh W-5)

Drawn by J. PATEL	Date MAY 1985	Map 7	Scale 1:1000
Drawn by R. E. O.	Date MAY 1985		Drawing No

52F05SW0057 47 DOGPAW LAKE



K 685146

Base Line (Old Grid) (pre-1982)

PROPERTY BOUNDARY

668592 | 590361 | 615448 | 668585 | 845309

668593 | 590362 | 615457 | 632320 | 845328

668594 | 615319 | 632322 | 632321

845313 | 615320 | 615321 | 845408

845409

615323 | 615322 | 845411

1983 GRID

Weisener Lake

MAX-MIN 444Hz, 25m Cable (secant chain)

WP

G-3 G-4 G-2 G-1 W-1 W-3 N-1 N-2 W-2 R-3 R-2 F-4 N-3 N-5 N-6 N-4 R-1 W-5 W-6 W-4 F-2 C-1 F-3 F-1

L1+00E L2+00E L3+00E L4+00E L5+00E

S Y M B O L S

- Sulphide zone
- Drill hole
- C-1 Company unknown
- F-2 Falconbridge Nickel Mines Ltd. (1975)
- G-3 Goldray Mines Ltd. (1970)
- N-4 Noranda Mines Ltd. (1962)
- R-3 Rio Algom (1983)
- W-4 Metallgesellschaft (1984)
- MAX-MIN 444Hz 150m cable
  - Out-phase
  - In-phase
- MAX-MIN conductor
- P.E.M. conductor
- V.L.F. conductor
- Magnetic high

SCALE 1:2500

0 50 100 150 200 250 METRES

METALLGESELLSCHAFT CANADA LIMITED

HINZER OPTION, WEISENER LAKE, ONTARIO

GEOPHYSICAL

COMPILATION MAP

And drill hole location plan

Work by: J. PATEL	Date: OCT 1985	Map 1	Scale: 1:2500
Drawn by: R.E.O.	Date: OCT 1985		Drawing No.