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DIAMOND DRILL REPORT, KOZELA LAKE

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DIAMOND DRILL REPORT

KOZELA LAKE

1962 PROGRAMME

BY:

H. D. LOVE

Montreal, P.Q. March 1963

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I - INTRODUCTION

General:

The area, including Kozela Lake and covered by Mineral License No. 180, lies approximately 50 miles northeast of Schefferville in the Province of Quebec. This area adjoins the eastern boundary of the Hollinger North Shore Concession and totals 70.77 square miles.

Topography:

The Kozela Lake area lies in a region of gently sloping, non-linear topography. The region, covered by the 1962 drill programme contained a maximum relief of approximately 50'.

The draining system is confused with Deborah Lake (to the northeast of Kozela Lake) and Kozela Lake draining north into the Whale River system, and Lac Isaac, located to the south of the area draining into the Riviere de Pas system. The Riviere de Pas being a possible source of power.

An aureole-like structure outlining a composite basic intrusive mass dominates the central part of the area; this structure lies south and west of Kozela Lake. Lakes, streams, hills, and valleys are situated in concentric fashion around the high ground. To the west and east of the Mineral Development License area, the north-trending linear ridge and valley topography, commonly found in the general area, is evidenced.

Glacial striae, indicating an older movement to the northwest, and a younger one to the northeast, are evident in the area.

Spruce and tamarack, plus low-lying bush alders on the larger hill-sides, are present in the area, but sizeable trees are only found along stream valleys and in the lower ground. Most of the high ground is lightly wooded, or semi-barren. Low brush and lichen or caribou moss occur over widespread areas.

Accessibility:

The prospect is accessible only by float or ski-equipped aircraft, preferably a "de Havilland" Beaver or smaller aircraft. Kozela Lake is small and shallow, and does not permit the removal of equipment in excess of 1000 pounds by float plane during the summer. Other lakes in the area suitable for Beaver aircraft are Round Lake and Deborah Lake.

Previous Exploration Work:

Early prospecting in the area by Y. Bruneau in 1957 showed the existence of ultrabasic rocks and mineralized sediments with low values in copper and nickel. At this time, Y. Bruneau mapped the main intrusive area on a reconnaissance basis, and a packsack drill hole was drilled on a gossan area near Round Lake.

During 1961, a Mineral Exploration License was obtained from the Quebec Government for Holannah Mines Ltd. (N.P.L.). Preliminary aeromagnetics were flown in the area, and a small reconnaissance electromagnetic-magnetic grid was run. As a result, extensive mapping and geophysical work were carried out during the late summer and fall of 1961.

Geological mapping was carried out by A.R. Thompson and F.J. Kozela in the summer of 1961. Over one hundred miles of ground geophysical surveying (electromagnetic and magnetic) was completed on six grids. H. Ferderber of Prospecting Geophysics Ltd. and J. Needham of J. Prendergast & Associates performed the work using Ronka Horizontal Coil electromagnetic equipment and Sharpe A-2 magnetometers. Also completed was a detailed aeromagnetic survey at 1/4 mile flight line intervals (total 320 line miles).

A gravity survey of 32,700 feet was completed on Grids No. 1 and No. 2 in the summer of 1961 under W. Brick. No large sulphide lenses were indicated to occur as a result of this survey, and although the gravity results were not totally ignored, future work was based on electromagnetic-magnetic results.

During the spring of 1962, from March 26th to April 30th, a geophysical and diamond-drill programme was carried out at Round Lake to the south of Kozela Lake.

Two three-man parties under C. Wilson and S. Grimaldi, together with a supervisor G. Grant and two Indian linecutters were supplied by Sulmac Exploration Services Ltd., contractors for the geophysical work, and five grids were completed by electromagnetometer and magnetometer. In the Kozela Lake area, extensions on 1961 summer programme (Grid No. 3 N.W. extension, Grid No. 1 S. extension, and Grid No. 3 S.E. Extension) were completed for a total of 141,700 feet Magnetometer and 148,500 feet Electromagnetometer. The instruments used were two Ronka Mark IV single frequency, horizontal loop, E.M. units and two Sharpe A2 magnetometers.

Numerous anomalies with associated electromagnetic-magnetic conductors were outlined by these surveys. The drill programme in the Kozela Lake area was set up on the basis of these associations, together with the known geology of the area.

During July 1962, airborne geophysical surveys were carried out by Canadian Aero Mineral Surveys Ltd. for Hollinger North Shore Exploration Company Limited, in six areas in New Quebec, including Mineral Exploration License No. 180. In this area, the centre of the survey lies at approximately 55°22'N., 65°43'W. in the vicinity of Deborah Lake. The flight lines were flown E-W here at generally one-quarter mile intervals, but with three fill-in lines at one-eighth mile intervals, for a total of about 285 line miles.

A magnetometer contour plan was also prepared for Mineral Exploration License No. 180 on a scale of 1" = 2640' and a contour interval of 50 gammas. As a result of this plan, several basic intrusive stocks were indicated. The largest was four miles by two miles in extent and over 3000 gammas in magnetic relief, and occurs in the southwest portion of License No. 180. This is equivalent to the large aureole-like-basic intrusive mass to the south and west of Kozela Lake. A smaller plug, about two miles by one and one-half miles lies in the centre of the same License (i.e. to the north of Kozela Lake). The bulk of the conductors were of such great lengths and continuity that formational origin was indicated (i.e. graphite or sulphide-bearing sediments and tuffs).

<u>Summary:</u>

A total of 23 diamond drill holes were put down on Grid No. 1, Grid No. 3 extension, and Grid No. 3 in the Kozela Lake area with Enfield Mark IV and Perkins 3 drill motors.

No promising results were obtained in any of the drill holes, except possibly those on Grid No. 3 where the electro-magnetic-magnetic anomaly surrounds or rims an intruded gabbroic mass. Further drilling in this region is recommended.

II-OPERATIONAL STATISTICS

General:

The construction of the Kozela Lake drill camp was begun prior to breakup (1962), with the drill and equipment having been brought overland from the Round Lake pre-breakup drill camp.

The writer, together with R. Hollingshead and A.J.(Gus) Bourassa, arrived at Kozela Lake on June 20th, 1962. The cook and drillers arrived two days later. By June 27th, drilling on KL-1 was begun. A total of 23 holes were completed by September 25th, with a total footage of 7791 feet.

Members of Party:	Drill Geologist	- H.D. Love
	Geologist's Helper	- R. Hollingshead
	4 Drillers	- A.T. Bourassa (Runner foreman)
		- M. Sieradzki (Runner)
		- R. Vandeberg (Helper)
		- R. Kasner "
	Cook	- J. Delandre

On August 2nd, R. Vandeberg and M. Sieradzi were released and replaced by L. Britt (Runner) and A. Mullins (Helper).

Numerous delays were the result of poor maintenance of machinery and lack of co-operation among the drillers. Some drilling time was lost in the replacement of an Enfield Mark IV drill motor by a P-3 motor.

During the last week of the programme, the writer was replaced by F. J. Kozela as drill geologist.

Mapping:

The geology of Grid No. 3 extension was carried out; some rechecking of geology about the drill holes on Grid No. 1 prior to the spotting of the drill holes; some general reconnaissance mapping to the east and southeast of Deborah Lake in a region of numerous aeromagnetic anomalies; and some aeromag anomalies to the south and west of Kozela Lake were checked.

OPERATIONAL STATISTICS OF KOZELA LAKE DRILLING:

DDH No.	Drilling Date Started	Drilling Date Compl'd	Time O/B Hrs.	Time Rock	Mvg. Hrs.	Delays Hrs.	O/B	Footage Rock	Footage Total
KL 1	Jun.27	Jun.29	7	47	39	6	7'	334'	341'
KL 2	" 30	Jul. 2	7	50	13	-	6'	350'	356'
KL 3	Jul. 3	" 6	2	54	12	4	8'	363'	371'
KL 4	" 7	" 9	4	54	12	-	14'	394'	408'
KL 5	" 11	" 13	3	65	12	-	12'	337'	349'
KL 6	" 14	" 18	3	71	12	10	10'	425'	435'
KL 14	" 19	" 22	3	69	12	-	8'	387'	395'
KL 7	" 24	" 27	3.5	44.5	32	-	12'	285'	297'
		- DELAY WITH DRILL MACHINE REPLACEMENT -							
KL 10	Aug. 5	Aug. 8	3	39	23	145	15'	269'	284'
KL 11	Aug. 9	Aug.12	7	52	11	3	16'	417'	433'
KL 20	Aug.13	Aug.16	3	61	7	-	12'	386'	398'
KL 21	" 17	" 19	3	47	18	1	15'	400'	415'
KL 22	" 20	" 22	2	36	10	-	12'	318'	330'
KL 23	" 23	" 25	3	42	9	-	12'	341'	353'
KL 24	" 26	" 28	4	36	14	-	6'	327'	333'
KL 25	" 30	Sept.1	2	46	18	-	10'	343'	353'
KL 26	Sept.3	Sept.6	2	48	18	24	10'	422'	432'
KL 12	Sept.7	" 9	3	46	21	-	10'	420'	430'
KL 13	" 15	" 16	3	34	120	-	8'	254'	262'
KL 13A	" 16	" 17	2	16	-	-	6'	152'	158'
KL 18	" 19	" 20	2	24	20	-	8"	193'	201'
KL 8	" 21	" 22	15	36	20.5	-	6'	247'	253'

OPERATIONAL STATISTICS(Cont'd)

DDH No.	Drilling Date Started	Drilling Date Compl'd	Time O/B Hrs.	Time Rock	Mvg. Hrs.	Delays Hrs.	Footage O/B	Footage Rock	Footage Total
KL 17	Sept.24	Sept.25	2	25	12	12	8'	196'	204'
Totals			75 hrs.	1042.5	465.5	205	231'	7560'	7791'

Bit Report:

Type of Diamond Tool	No. Used	Av. Foot per Bit
AXT Bevelwalls	70	113'
AX Rib Shells	4	59'
AX Casing Shoes	7	27'
AX Concave	2	112'

Weekly Drilling Results

Date	Drilled	Footage
June 20 - June 30	KL 1 (341');KL 2(139')	480'
July 1 - July 7	KL 2 (217');KL 3(371') KL 4 (158')	746'
July 8 - July 15	KL 4(250');KL5(349')KL6(271')	870'
July 16- July 22	KL 6(164');KL14(395')	559'
July 22- July 29	KL-7(297')	297'
July 30- Aug. 5	KL-10 (31')	31'
Aug. 6- Aug. 12	KL-10(253');KL-11(433'); KL-20(12')	698'
Aug. 13- Aug. 19	KL-20(386');KL-21(415')	801'
Aug. 20- Aug. 26	KL-22(330');KL-23(353');KL-24 (21')	704'
Aug. 27-Sept. 2	KL-24(312';KL-25(353')	665'
Sept. 3- Sept.9	KL-26(432');KL-12(430')	862'
Sept.10- Sept.16	KL-13(262');KL-13A(96')	358'
Sept.17- Sept.25	KL-13A(62');KL-18(207') KL-8(253');KL-17(204')	720'
	TOTAL:	7791 Feet

III - GENERAL GEOLOGY

Table of Formation			
ERA	FORMATION	ROCK	LITHOLOGY
Recent	-	-	Boulders, Glacial Till, Clay
		UNCONFORMITY	
	Montagnais	Intrusive	Carbonate bearing pigmatite dykes Peridotite Gabbro
		Metamorphic	Garnetiferous gneiss & schist. Mica gneiss & schist. Quartz masses & veins
		UNCONFORMITY	
Doublet	Doublet	Volcanic, Metasedimentary	Massive basaltic lavas (sometimes andesitic), laminated. Slate & Shaley beds.
	Laporte	Metasedimentary	Quartz Biotite Gneiss Quartz Amphibole Gneiss

DESCRIPTION OF FORMATIONS:

Carbonate bearing Pegmatite Dykes:

An intrusive rock intruded along preferential fractures in various rock types, composed of nearly equal percentages of feldspar and quartz, with carbonate, pyrite, and minor mafic minerals.

These occur mainly as narrow dykes intruded into gabbro and the lava, with sharp reddish contacts with host rocks. It is questionable whether the quartz-carbonate veins intersected in drill holes are intrusive.

Peridotite:

This rock type was not encountered in any of the diamond drill holes.

A small mass, roughly oval in shape, occurs in the vicinity of the drill holes to the northeast of Kozela Lake. Here the peridotite is a talc-carbonate to almost pure talc variety and is considered a border phase.

A smaller mass occurs to the west of Kozela Lake on Grid No.3, in the centre of the larger gabbroic mass.

Gabbro:

Gabbro is a very common rock type in this area, and was encountered in most of the drill holes. It probably occurs in close conjunction with the ultrabasic intrusions located in the area. Although no Gabbro Peridotite contacts were encountered in the drill holes, it was noted by F.J. Kozela in 1961 that these contacts were largely fault contacts, displaying silicified fault planes and often valley separations between the two rocks; also that intrusive contacts were observed to the west of Kozela Lake on the northern portion of Grid No. 1.

The gabbro is usually altered and gneissic, and a number of varities occur. Some of these varities occurring on the surface and drill intersections are as follows - a quartz rich variety with the quartz as minute stringers and blebs, with the augite converted into greenish fibrous hornblende; and with biotite found locally; and due to metamorphism some pyrite as minute stretched crystals is associated with Quartz - a sheared gabbro - related to amphibolite which is probably a derivative of the gabbro; occurring north of Kozela Lake in contact with a garnet gneiss to the north - an amphibolite - occurring to north of Kozela Lake as a coarse

grained highly schistose rock consisting largely of amphibole with minor feldspar and mica. - Garnetiferous gabbro occurring in close association with garnet-bearing schists and gneisses. - a tremolitized gabbro containing green metasilicates. It is coarse grained and found close to sheared gabbro on the surface just north of Kozela Lake.

Volcanics:

Lavas of basaltic composition occur throughout. These are very fine-grained to medium-grained, highly sheared, and finely laminated rocks. The mineral composition is mainly amphibole, mica and chlorite, with fine seams and stringers of quartz and calcite, which are common and parallel to the laminations. A few traces of pink feldspar occur in places. The lavas are sometimes severely folded (or crenulated) and faulted in places.

Some of the lava appears to approach an andesite, but is probably an alteration product of a basaltic lava, and is here principally of a mafelsic type, that is, there is an approximate equality between the mafic and felsic constituents of the rock. The formation of carbonates, and the fact that pyroxene has almost completely gone over to chlorite (or serpentine?) also indicates a basaltic lava.

Pillow structures were also observed by F. J. Kozela in 1961 on the surface in the southern portion of the volcanic area. The lava becomes altered near intrusive (gabbro) contacts and new minerals such as sphene, magnetite and pyrite often appear. Chloritic minerals, calcite, chalcedony (?), and quartz are formed from pyroxene and feldspar, partly disseminated and in veins. Some of the chloritic material is further converted into biotite, or, where associated with calcite, into green hornblende; any chalcedonic silica is probably transformed into crystalline quartz.

Slates and shaley beds:

These are closely associated with the volcanics as thin beds. In places are altered to graphitic and sericitic schists. These sediments are find grained, black, graphitic and usually contorted. Various degrees of mineralization occurs in the slates, usually as pyrrhotization, both primary and secondary, and is usually accompanied by minor chalcopyrite. The slates are usually the result of metamorphism of Quartz-Biotite and Quartz-Mica gneiss.

Garnetiferous Gneiss and Schist: - or Garnet-Amphibole-Biotite-Feldspar Gneiss - This is a medium to coarse grained gneiss or schist in which Magnetite is common and of fairly high concentrations. Siliceous and micaceous bands containing tourmaline and green mica (Fuchsite) are often present.

The rock was observed outcropping in the vicinity of DDH-KL-2 and was intersected in the hole from 34.5' to 39.7', and contained up to 30% garnets (altered or fringed with chlorite), and up to 35% Cpy, Py and Po, plus about 22% magnetite.

Mica Schist and Gneiss: - or Quartz-Mica-Gneiss and Schist -

Highly siliceous, fine grained and composed chiefly of quartz and mica, and is often interbedded with shaley and amphibole-rich beds. This rock is probably the metamorphic derivative of Quartz-Biotite and Quartz-Amphibole Gneiss.

Quartz & Quartz Carbonate Masses or Veins:

Numerous quartz and/or Quartz-Carbonate bodies occur throughout in rock contacts, fault zones and in highly metamorphosed zones. They are often mineralized with chalcopyrite, pyrite and pyrrhotite. They are probably, in part, emanations from the intrusive peridotite and gabbros.

Quartz-Biotite Gneiss:

Occurring to the north and east of Kozela Lake and in most cases is found quite remote from the intrusive rocks. It is fine grained, granular to gneissic, highly quartzose and contains less than 50% biotite. A few garnets are sometimes associated, plus a slight increase in biotite content, giving the rock a darker appearance. This rock is much folded and sheared and contains numerous quartz stringers.

Quartz-Carbonate (Calcite)-Mica (Biotite and Sericite) Gneiss to Schist:

This rock is quite siliceous with greater than 50% femic materials. It is quite well banded and bedded in places and sometimes contains pale, stretched garnets, tourmaline, and green mica (Fuchsite) present as flakes or slips. It is from white to pale gray in colour, and often appears somewhat cherty.

Quartz-Amphibole-Gneiss:

This is a fine grained gneissic rock, dark gray to black in colour with amphibole making up greater than 50% of the rock. In places, shaley and siliceous beds are interbedded. From the surface geology, this rock surrounds the peridotite lying between Kozela and Deborah Lake. A similar rock type was intersected in drill hole KL-4 of Grid No. 1.

IV-STRUCTURAL GEOLOGY

General:

It is seen from the surface geology and from the drilling in the Kozela Lake region that the area is structurally complex as a result of both major orogenic pressures and movements as well as intrusive action. The region is essentially the transition zone between the true Trough rock and the archaen gneissic front lying to the east, and further, it lies at a point in which a buckle or buldge occurs in the gneissic front.

All drill holes were put down in a region of volcanic rock which is the host for a number of basic and ultrabasic intrusive masses. The largest of these being an aureole-like mass of basic and ultrabasic material occupying the region to the south of Kozela Lake and north of Round Lake. North and east of this, similar, though small disconnected intrusive masses occur, the larger of which occurs to the north of Kozela Lake.

The volcanics between these masses were highly disturbed, and show northwesterly and northeasterly linear faulting, together with fracturing and shearing in an east-west direction, and also folding.

Grid No. 1:

In this zone (see Structural Drawing No. 1) of disturbed lavas, a few zones of metasediments are found, which are, in general, fine grained siliceous rocks consisting mainly of quartz and mica.

An amphibolite considered to be the metamorphic equivalent of the gabbro (Garnet-Amphibole-Biotite-Feldspar-Gneiss) also occurs which was probably formed by high temperature and pressure conditions produced by the intrusion of the peridotite and gabbros.

Quartz veinlet in the lavas and gabbro usually occur parallel to schistosity, but a few occur at right angles to the above.

Sulphides as massive veins and veinlets occur mainly in faulted or sheared and brecciated zones; these being localized almost entirely in sediments usually at gabbro contacts or in brecciated slaty zones in the sediments. Minor disseminations occur even in the lavas and gabbros at the contacts. It is therefore assumed that the folding is contemporaneous with the formation of the sulphides, and that the intrusion of the basic intrusives occurs contemporaneous with the folding. (Tiny veinlets of massive Pyrrhotite with minor chalcopyrite are found in fractures in the quartz veins, probably representing a later stage of mineralization.)

The gabbro in this region has been interpreted to occur mainly as sill-like intrusives, but dyke-like intrusives are indicated in KL-8 and KL-17. This is purely hypothetical for the gabbro may be present as sills or it may be simply a phase of the lava.

It should be noted here that in many cases the distribution between the lavas and gabbros is not always truly apparent. The main distinction being in the coarseness of grain size; the gabbro being coarse grained to very coarse grained and sometimes somewhat porphyritic, whereas the lava is from very fine grained to medium grained and quite well laminated. Also since in the majority of cases there is no distinct contact between the gabbro and the lava, it is further possible that this is a phase of the lava.

The rock in the vicinity of Grid No. 1 has been much altered and folded in places, and this alteration occurs particularly in zones of shear. The folding, faulting, shearing, etc. are probably much more severe than indicated, thus a further reason, on the average, for the lack of sulphide intersecting in the zone including KL-1 to KL-14, occurring in almost insufficient amount to give rise to the geophysical conductors present.

Further drilling on these conductors would definitely have to be done to verify the geophysical anomalies.

Grid No. 3 Extension (see Drawing No.)

Structurally this zone has been interpreted as a rather steeply dipping, folded, faulted, and sheared zone in which a few sedimentary beds have become the localizers of disseminated sulphides. These sulphides occur mostly along faulted or sheared zones, usually in regions of basic intrusions. Thus it may be inferred here that the sulphides occur as a result of different types of mineralization of hydrothermal origin. It may also be concluded that the sulphides occurred contemporaneously with the folding and basic intrusion, which are themselves contemporaneous.

The intrusives in this region are mainly of gabbroic origin and are assumed, for the most part, to be sill-like in formation.

The faults, which occur here, strike generally in a north to northeast direction, as do the lavas, the sediment and the intrusives. One fault has been interpreted to dip from 45° to 65° to the west, while another dips about 75° to 90° to the east. It is assumed that these faults converge towards the north. Shearing, brecciation, and crenulation or dragging of beds define the presence of these.

The sulphides occur mainly in brecciated, slaty zones in the sediments, with minor disseminations in the surrounding gabbros or lavas, and are usually located along fault or shear zones, or in tightly folded sediments.

Again, many of the geophysical conductors are not truly confirmed by the drilling results, thus it may be concluded that numerous sulphide pods or lenses in the steeply dipping or tightly folded sediments were not intersected, and that further drilling may intersect other zones of similar composition.

Structural Geology of Grid No. 3: (See Drawing No.)

In this region, a large gabbro mass intrudes a large zone of basaltic lavas, which is itself intruded by a small mass of peridotite.

It was shown from the results of three diamond drill holes that the lavas on the fringe of this gabbro mass are highly crenulated; the sediments steeply dipping, and the sulphides occurring in a brecciated slate, which has been drag-folded to highly sheared in a probable fault zone. The contact between the lavas and the sediments have been highly altered.

The gabbro intrusives here are closely related to the lavas in composition, but are of much coarser grain.

In general, jointing and fracturing occur throughout the region and many of these fractures are quartz filled, occurring usually parallel to the schistosity, but also about 90° to above.

V-ECONOMIC GEOLOGY

General Statement:

Numerous known sulphide occurrences appear in the Kozela Lake area. These were investigated by diamond drilling mainly on the basis of coincident electromagnetic-magnetic anomalies.

Of the sulphides deposited, pyrrhotite appears to be the first deposited. Chalcopyrite usually occurs as a partial replacement of the pyrrhotite or as a fracture filling. Pyrite and magnetite appear as minor accessories.

The sulphides occur:

(1) as massive pods, lenses, fracture fillings, or veinlets in quartz and quartz-carbonate bodies, probably related to late intrusive action and corresponding mineralizing processes;

(2) as disseminations in schists and fine grained siliceous rocks, usually in sheared, faulted, and highly folded portions of these; and

(3) as massive to disseminated pyrrhotite and minor pyrite and chalcopyrite replacement in graphitic slates.

Again, of the above types of mineralization, pyrrhotite mineralization is the main sulphide. It is sometimes nickeliferous, and chalcopyrite occurs in small quantities.

Minor dissemination of sulphides are found in the gabbros and lavas along contact zones with the sediments, and in sheared and highly crenulated portions.

Economics of Grid No. 1:

Sulphides occur here mainly as disseminations and in pods in Quartz-Carbonate zones; in Quartz-Carb-Mica-Schists; brecciated slaty to Graphitic Quartz-Biotite Schists; and in Quartz breccias as near massive sulphides (up to 90%).

Grab samples in the vicinity of KL-1 and KL-2 showed results of 0.06% Ni and 0.49% to 2.47% Cu., but the highest assay

encountered in the drilling was 0.39% Cu and trace of Nickel.

Similarly, in vicinity of KL-4 grab samples in mineralized quartz rubble showed up to 0.41% Cu and 0.05% Ni whereas drilling showed a maximum of 0.09% Cu in Quartz biotite gneiss and schist.

Nothing of economic interest was obtained in the drilling of KL-5, KL-6, KL-14 and KL-7. There is here no indication from the drilling results of any great concentration of sulphides, the anomaly probably being caused by the accumulation of numerous beds of brecciated and slaty sediments with disseminated conductive sulphides.

Diamond drill holes KL-8 and KL-17 are located in zones of brecciated quartz and slaty sediments with disseminated pyrrhotite and minor chalcopyrite. The best assay obtained here was a 4.3' zone of massive Pyrrhotite in slatey Quartz breccia averaging 0.34% Cu., 0.06% Ni, and a trace of Au.

Interpretation indicates that further sulphides may be located in the zone with further drilling.

Economics of Grid No. 3 Extension:

The drill holes put down on this grid were laid out on the basis of coincident electromagnetic-magnetic conductors, and were found to intersect a zone of interbanded lavas and sediments with minor gabbroic intrusions.

To the west in the vicinity of KL-10, only minor copper, nickel values were found in a slaty Quartz-Mica gneiss.

To the centre and east of the grid in Diamond drill holes, KL-23,24,20,21,22,11,25,26, and 12, the sulphides were present in slaty, brecciated zones, in altered lava and schists, and in fine grained siliceous rocks. Only a few assays of very narrow width proved to be of economic interest.

A surface assay on Quartz-breccia (50% Po) in the vicinity of KL-25 and 26 yielded the following result:- No. 2001 0.19% Cu, 50% Po, 0.08% Ni, Nil-Zn. A thickness of 2.9' of similar rock was encountered in KL-26 with the following results:

B-2137 - 0.18% Cu, Trace Au-1.4' and
B-2138 - 0.20% Cu, 0.04% Ni & Trace Au-1.5'

Surface assays on quartz-breccia float in the vicinity of KL-11 assayed the following:-

8373 - 0.39% Cu, 0.09% Ni, Trace-Au
B2113- 0.84% Cu, 0.10% Ni, 0.005 oz Au, 0.07 oz.Ag,0.06% Co.

The only rock of similar rock type encountered in the drilling was found in KL-24 which assayed the following:-

B-1731 - 1.19% Cu, Nil-Ni, Trace-Au, over 3.4'

Economics of Grid No. 3:

Massive to disseminated pyrrhotite and minor pyrite and chalcopyrite are found here as replacement in graphitic slates, and is located about the circumference of a large gabbro intrusive mass occurring just to the west of Kozela Lake.

In these slates, two generations of sulphide formation are apparent. The first being the replacement of the slate by pyrrhotite, and the second being the replacement of the former and fracture filling. Minor disseminations are found in Quartz-Carbonate-Mica Schists and in altered gabbroic lenses.

The results of the drilling of three diamond drill holes (KL-13, 13A, and KL-17 are as follows:-

KL-13 - 0.13% Cu, Trace-Ni, Trace Au over 3.2' (73.4'-76.4') in a highly altered gabbro with near massive sulphide veinlets including assays 1762, 1763 and 1764.

0.09% Cu, Trace-Ni, Trace Au over 14.0'(78.0'-92.0') in Quartz-Biotite to quartz-sericite interbedded with altered gabbro including assays 1765, 1766, and 1767.

0.28% Cu, 0.05% Ni, Trace Au over 47.7'(92.0'-139.7') in a brecciated slate including assays 1768, 1769, 1770, 1771 and 1772.

KL-13A- 0.36% Fu, 0.04% Ni, Trace Au, Trace Ag over 81.7'(64.0'-145.7') in slaty Quartz-breccia including assays 1777 to 1786.

0.08% Cu, Nil-Ni, Nil-Au over 7.7' in quartz-biotite gneiss with minor sulphides including assay 1787.

KL-18 - 0.42% Cu, 0.02% Ni, Trace Au over 27.7'(56.3'-84.0') in massive pyrrhotite with 10% Co_3 and brecciated slaty Quartz-carbonate-biotite rock including assays 1749 to 1753.
0.16% Cu, Trace-Ni, Trace Au over 37.9'(84.0'-121.9') in massive sulphides in Quartz and slate including assays 1754-1758.

VI-RECONNAISSANCE AND RECHECK OF GEOLOGY

1) To East of Deborah Lake (Sketch-Drawing #2)
2) To East of Kozela Lake (" " #3)
3) To South & West of Kozela Lake " #4)

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1) Reconnaissance to East of Deborah Lake:

One day in August was spent by the writer in the aeromagnetic-anomalous zone to the east of Deborah Lake. With reference to accompanying sketch, only a few outcrops were encountered. Quartz-Mica-Gneiss (Feldspar?) (72) outcrops, numbered as 5 & 7, were located along the side of a large gently sloping hill with a strike of 325° Az. and dips varying from 45° E. to essentially vertical. Boulders and rubble of Quartz-Biotite-Garnet Gneiss (slaty), containing up to 25% Pyrite and some Pyrrhotite were found in creek in vicinity of No. 1. Much rubble of slate, slaty Quartz-Biotite-Gneiss (Nos. 2, 3 & 4), and brecciated Quartz-Carbonate, were found to contain up to 25% sulphides. No outcrops were found with sulphide mineralization.

Further work in this area was carried out by R.A. Crouse (Holannah).

2) Reconnaissance to East of Kozela Lake:

Reconnaissance in an area of first rate and second rate electromagnetic (airborne) conductors running north-south, beginning about 5,500 feet east of the southern tip of Kozela Lake uncovered no outcrop and only a few zones with boulders, mainly basaltic lava (68). The widest portion traversed is located 5,000 feet south of the southern tip of Kozela Lake and runs 11,000 feet to the east (see sketch). The area traversed was about 10,000 feet in the north-south direction.

3) Recheck of Geology over Aeromagnetic Anomalies to South & West of Kozela Lake:

In the vicinity of 30+00E on line 30S on Grid No. 3, a few outcrops of lava, with no mineralization, were encountered in a zone of third rate EM and coincident magnetics. To the south of this, in the vicinity of 25+00E on line 40S, a large rubble and boulder zone was found, which consisted mainly of lava (68) and a few magnetic peridotite angular rocks, and Garnet-Mica-Gneiss with sulphides (a trace of chalcopyrite). No outcrops further to east, south, or west to account for the anomalous zones. Further checking is suggested to west on aeromagnetic anomalies along ultrabasic contact.

VII-CONCLUSIONS AND RECOMMENDATIONS

As a result of the drilling, it was shown that the mineralization in the area was concentrated in sheared, fractured, faulted and highly folded sections of the rock, particularly in the metasediments. Due to the structural complexity of the rock in the region, it was quite difficult to relate the results obtained in the drilling with the indicated surface electromagnetic-magnetic surface conductors and the surface geology, and to correlate between the drill holes.

Due to the weak concentrations and widespread sulphide disseminations intersected in the zone to the north and west of Kozela Lake, it is concluded that the drilling here was not truly successful in accounting for the widths and intensities of the surface conductors.

On Grid No. 3 Extension, which is a faulted zone of folded interbedded lavas and sediments containing minor disseminations of pyrrhotite, chalcopyrite and nickel traces, no zone of truly economic significance was intersected which could in itself account for the high electromagnetic-magnetic conductors found here.

It was shown that the mineralized sediments interbanded and interbedded in the lavas of Grid No. 1 occurred only in very narrow thicknesses, and that the electromagnetic-magnetic conductors here must be the accumulative results of numerous zones of these narrow mineralized thicknesses, which would tend to disrupt the picture of any sizeable deposit in the area. It might be suggested that further drilling, possibly of shorter vertical holes, be put down directly on conductive highs to verify these anomalies.

On Grid No. 3, a zone of massive sulphides of fair width was intersected in hydrothermally replaced slates, with minor disseminations in the surrounding rock. The zone is located about the circumference of a large gabbroic intrusive mass just to the west of Kozela Lake at the contact between this mass and the lavas.

The geophysics of the zone and the thickness intersected indicate the possibility of further extensions of this zone to the north and to the northeast (i.e. greater than 2000 feet in both directions - See Drawing No. 5.)

Thus it is recommended that the portion of the property, or Mineral Licence No. 180, about the gabbro mass and including DDH's KL-13, 13A, 18, 8, and 17 be retained for further investigation in the near future.

The airborne electromagnetic-magnetic anomalies running in a north-south direction to the east and south of Kozela Lake might be further checked by ground geophysical work.

APPENDIX "A"

KOZELA LAKE DRILL LOCATIONS

Hole No.	Location	Az.	Dip	Depth
KL-1	225'Az 210° from Tag 1035(Grid#1)	30°	50°	341'
KL-2	50'Az. 270° " " 1035 "	30°	50°	356'
KL-3	65'Az. 0° " " 1037 "	180°	50°	371'
KL-4	50'Az. 180° from 0+80W "	32°	50°	408'
KL-5	152'Az.180° from Tag 1039 "	30°	50°	349'
KL-6	50' Az. 0° " " 1039 " 100'Az. 90° "	30°	50°	435'
KL-14	10+50S on Line 12+50E " 80'Az. 270°	55°	50°	395'
KL-7	150' Az.315° from 7+00N on line 7+50W "	135°	50°	297'
KL-10	250' Az. 0° from Tag 1087(Grid #3) (Ext.)	120°	50°	284'
KL-11	130' Az. 0° from 21+00W on line 40N "	120°	50°	433'
KL-20	150'Az. 0° of 16+50W on line 40N "	120°	50°	398'
KL-21	200'Az.180° of 19+00W on line 45N "	120°	50°	415'
KL-22	270' Az.180° of 17+70W on line 45N "	120°	50°	330'
KL-23	40'Az.180° of 18+00W on line 45N "	120°	50°	353'
KL-24	130'Az.180° of 16+20W on line 45N "	120°	50°	333'
KL-25	50'Az.180° of 24+10W on line 35N "	90°	50°	353'
KL-26	22+70W on line 35N "	90°	50°	432'
KL-12	1+50W on line 25N "	90°	50°	430'
KL-13	100'Az.210° from Tag 1054(Grid #3)	30°	50°	262'
KL-13A	" " "	30°	70°	158'

Kozela Lake Drill Locations (Cont'd)

Hole No.	Location	Az.	Dip	Depth
KL-18	60'Az.180° from 5S 150'Az.90° (Grid #3)	47°	50°	201'
KL-8	20+90S on line 7+50 (Grid#1)	180°	50°	253'
KL-17	26+00S on line 7+50 "	180°	50°	196'

APPENDIX "D"

TABULATED ASSAY RESULTS

Sample #	From	To	DDH	Cu	Ni	Zn	Au	Ag	Co.Fe	Width
B-2001	Grab			0.19	0.08	Nil	Tr			
B-2002	63.3'	69.9'	KL-1	0.20	Nil	Nil	Tr			6.3'
B-2003	69.9'	73.2'	KL-1	0.07	Nil	Nil	Tr			3.3'
B-2004	73.2'	76.0'	KL-1	Tr	Nil	-	Tr			2.8'
B-2005	76.0'	81.0'	KL-1	0.04	Nil	Nil	Tr			5.0'
B-2006	124.4'	127.5'	KL-1	0.02	Nil	Nil	Tr			3.1'
B-2007	137.9'	142.8'	KL-1	0.02	Nil	-	Tr			4.9'
B-2008	169.7'	171.5'	KL-1	Tr	Nil	Nil	Tr			1.8'
B-2009	199.7'	205.8'	KL-1	Tr	Nil	Nil	Tr			4.1'
B-2010	207.0'	210.1'	KL-1	0.04	Nil	-	Tr			3.1'
B-2011	218.2'	224.4'	KL-1	0.03	Tr	Nil	Tr			6.2'
B-2012	249.1'	253.8'	KL-1	0.01	Nil	-	Tr			4.7'
B-2013	312.9'	316.9'	KL-1	0.01	Nil	Nil	Tr			4.0'
B-2014	319.7'	322.1'	KL-1	0.05	Tr	-	Tr			2.4'
B-2015	23.7'	30.5'	KL-2	0.29	Tr	-	Tr			6.8'
B-2016	30.5'	34.5'	KL-2	0.39	Nil	-	Tr			4.0'
B-2017	34.5'	39.7'	KL-2	0.17	Tr				16.32	5.2'
B-2018	39.7'	44.2'	KL-2	0.10	Tr	Nil	Tr			4.5'
B-2019	93.0'	98.8'	KL-2	0.10	Nil	-	Nil			5.8'
B-2020	118.3'	122.3'	KL-2	0.05	Nil	Nil	Nil			4.0'
B-2021	164.4'	170.1'	KL-2	0.04	Nil	Nil	Nil			6.7'
B-2022	182.4'	192.9'	KL-2	0.07	Nil	Nil	Tr			10.5'
B-2023	192.9'	197.3'	KL-2	0.09	Tr	Nil	Tr			4.4'
B-2024	262.9'	268.9'	KL-2	0.02	Nil					6.0'

Tabulated Assay Results (Cont'd)

Sample#	From	To	DDH	Cu	Ni	Zn	Au	Ag	Co	Fe	Width
B-2025	296.3'	298.9'	KL-2	0.02	Nil						2.6'
B-2026	346.8'	356.0'	KL-2	0.04	Nil	Nil	-				9.2'
B-2027	12.0'	18.0'	KL-2	0.04	Nil	Nil	-				6.0'Sludge
B-2028	32.0'	38.0'	KL-2	0.12	0.01	Nil	Tr				6.0'Sludge
B-2029	38.0'	48.0'	KL-2	0.10	Tr	Nil	Tr				10.0'Sludge
B-2030	91.0'	101.0'	KL-2	0.05	-	-	Tr				10.0'Sludge
B-2031	8.0'	11.0'	KL-3	0.03	Nil	-	-				3.0'
B-2032	105.3'	108.5'	KL-3	0.10	Tr	-	-				3.2'
B-2033	148.4'	149.0'	KL-3	0.53	0.11	Tr	Tr	0.07	0.07		0.6'
B-2034	143.7'	145.8'	KL-3	0.04	Nil	-	-				2.1'
B-2035	188.2'	198.4'	KL-3	0.04	Nil	-	-				10.2'
B-2036	241.2'	245.3'	KL-3	0.04	-	Nil	Nil				4.1'
B-2037	259.9'	262.8'	KL-3	0.05	-	Nil	Nil				2.9'
B-2038	310.4'	320.9'	KL-3	0.05	Nil	Nil	-				10.5'
B-2039	320.9'	323.4'	KL-3	0.02	Nil	Nil	-				2.5'
B-2040	198.4'	207.7'	KL-3	0.04	Tr	Nil	Nil				9.3'
B-2041	160.0'	165.0'	KL-3	0.03	Nil	Nil	Nil				5.0'
B-2042	169.5'	179.0'	KL-3	0.01	Nil	Nil	Nil				9.5'
B-2043	41.3'	44.3'	KL-4	0.09	-	Nil	Tr				3.0'
B-2044	68.4'	72.4'	KL-4	0.02	-	Nil	Tr				4.0'
B-2045	72.4'	77.7'	KL-4	0.04	-	Nil	Nil				5.3'
B-2046	167.3'	172.5'	KL-4	0.03	-	Nil	Nil				5.2'
B-2047	182.2'	186.9'	KL-4	0.03	-	Nil	Nil				4.7'
B-2048	261.6'	269.2'	KL-4	0.02	-	Nil	Nil				7.6'

TABULATED ASSAY RESULTS (Cont'd)

Sample#	From	To	DDH	Cu	Ni	Zn	Au	Ag	Co	Fe	Width
B-2049	269.2'	274.3'	KL-4	0.01	-	Nil	Nil				5.1'
B-2050	330.1'	336.4'	KL-4	0.09	-	Nil	Tr				6.3'
B-2051	362.0'	368.5'	KL-4	0.06	-	Nil	Nil				6.5'
B-2052	375.8'	385.8'	KL-4	0.04	-	Nil	Nil				10.0'
B-2053	24.6'	26.5'	KL-5	0.34	0.11	Nil	0.01	0.08	0.035		1.9'
B-2054	26.5'	33.3'	KL-5	0.07	-	Nil	Tr				6.8'
B-2055	51.0'	61.2'	KL-5	0.02	-	Nil	Tr				10.2'
B-2056	61.2'	70.9'	KL-5	0.02	-	Nil	Tr				9.9'
B-2057	70.9'	73.8'	KL-5	Tr	-	Nil	Tr				2.9'
B-2058	73.8'	78.5'	KL-5	Nil	-	Nil	Tr				4.7'
B-2059	78.5'	84.8'	KL-5	0.05	-	Nil	-				6.3'
B-2060	128.0'	134.0'	KL-5	0.02	-	Tr	Tr				6.0'
B-2061	155.3'	164.4'	KL-5	0.04	-	Nil	Nil				9.1'
B-2062	171.5'	176.3'	KL-5	0.25	-	Nil	Tr				4.8'
B-2063	219.2'	227.2'	KL-5	0.04	-	Nil	Tr				8.0'
B-2064	227.2'	234.1'	KL-5	0.05	Nil	Nil	Tr				6.9'
B-2065	251.6'	258.6'	KL-5	0.12	Nil	Nil	Tr				7.0'
B-2066	258.6'	271.5'	KL-5	0.01	-	Nil	-				12.9'
B-2067	271.5'	276.7'	KL-5	0.02	-	Nil	-				5.2'
B-2068	282.1'	287.8'	KL-5	0.03	-	Nil	Tr				5.1'
B-2069	301.2'	310.7'	KL-5	0.04	-	Nil	Tr				9.5'
B-2070	314.2'	323.8'	KL-5	0.04	-	Nil	Tr				9.6'
B-2071	323.8'	331.1'	KL-5	0.05	-	Nil	Tr				7.3'
B-2072	331.1'	337.6'	KL-5	0.02	Nil	Nil	-				6.5'
B-2073	54.1'	62.4'	KL-6	0.01	-	-	Nil				8.3'
B-2074	91.0'	94.5'	KL-6	0.09	-	-	Tr				3.5'

Tabulated Assay Results (Cont'd)

Sample#	From	To	DDH	Cu	Ni	Zn	Au	Ag	Co	Fe	Width
B-2076	100.7'	102.7'	KL-6	0.02	-	Nil	-				2.0'
B-2077	119.3'	124.5'	KL-6	0.01	-	Nil	Nil				5.2'
B-2078	192.3'	195.4'	KL-6	0.04	-	Nil	Nil				3.11
B-2079	195.4'	200.0'	KL-6	0.06	Nil	Nil	-				4.6'
B-2080	307.5'	311.0'	KL-6	0.05	-	Nil	Tr				3.5'
B-2081	324.0'	329.0'	KL-6	0.03	-	Nil	-				5.0'
B-2082	346.3	348.8'	KL-6	0.02	Nil	Nil	Nil				2.5'
B-2083	377.4'	384.3'	KL-6	0.04	-	Nil	-				6.9'
B-2084	384.3'	388.8'	KL-6	0.04	-	Nil	-				4.5'
B-2085	388.8'	397.5'	KL-6	0.05	-	Nil	-				8.7'
B-2086	24.5'	28.7'	KL-14	0.26	Tr	Nil	Tr				4.2'
B-2087	28.7'	32.4'	KL-14	0.21	-	Nil	Nil				3.7'
B-2088	51.6'	54.8'	KL-14	0.05	-	Nil	-				3.2'
B-2089	325.4'	332.4'	KL-14	0.06	-	-	Nil				7.0'
B-2090	332.4'	334.5'	KL-14	0.23	-	Nil	Nil				2.1'
B-2091	334.5'	342.7'	KL-14	0.07	-	Nil	Tr				8.2'
B-2092	46.9'	48.0'	KL-7	0.18	0.03	Nil	Tr	0.10	Tr		1.1'
B-2093	48.0'	50.7'	KL-7	0.09	Nil	Nil					2.7'
B-2094	50.7'	53.3'	KL-7	0.07	-	Nil	Nil				2.6'
B-2095	62.7'	66.5'	KL-7	0.04	-	Nil					3.8'
B-2096	129.6'	131.4'£	KL-7	0.04	-	Nil	Nil				1.8'
B-2097	224.0'	225.2'	KL-7	-	-	Nil	Tr		Tr.		1.2'
B-2098	232.9'	240.7'	KL-7	0.04	-	Nil					7.8'
B-2099	57.6'	61.6'	KL-10	0.05	Nil	Nil	Nil				4.0'
B-2100	61.6'	72.0'	KL-10	0.02	-	Nil	Tr				10.4'
B-2101	72.0'	81.5'	KL-10	0.05	Nil	Nil	Tr				9.5'

Tabulated Assay Results (Cont'd)

Sample#	From	To	DDH	Cu	Ni	Zn	Au	Ag	Co	Fe	Width
B-2102	81.5'	82.9'	KL-10	0.02	-	Nil	Nil				1.4'
B-2103	39.6'	42.4'	KL-11	0.03	-	-	Tr				2.8'
B-2104	45.0'	50.0'	KL-11	0.04	-	-	Tr				5.0'
B-2105	50.2'	60.2'	KL-11	0.01	-	-	Tr				10.0'
B-2106	60.2'	65.2'	KL-11	0.02	-	-	Tr				5.0'
B-2107	65.2'	67.2'	KL-11	0.02	-	-	Tr				2.0'
B-2108	70.5'	76.9'	KL-11	0.03	-	-	Nil				6.4'
B-2109	76.9'	81.0'	KL-11	0.15	-	Nil	Tr				4.1'
B-2110	129.6'	133.8'	KL-11	0.05	-	-	Tr				4.2'
B-2111	133.8'	137.7'	KL-11	-	-	Nil	Tr				3.9'
B-2112	162.7'	163.8'	KL-11	0.10	Tr	-	Tr				1.1'
B-2113	Grab			0.84	0.10	-	0.005	0.07	0.06		
B-2114	169.5'	170.5'	KL-11	0.08	0.04	-	Tr				0.5'
B-2115	170.5'	171.9'	KL-11	0.04	-	-	Nil				1.4'
B-2116	190.1'	192.1'	KL-11	0.25	-	-	Tr				2.0'
B-2117	15.5'	22.6'	KL-20	0.17	Nil	-	Nil				7.1'
B-2118	22.6'	32.3'	KL-20	0.11	-	-	Tr				9.7'
B-2119	32.3'	34.2'	KL-20	0.24	Tr	-	Tr				1.9'
B-2120	34.2'	39.7'	KL-20	0.16	-	-	Tr				5.5'
B-2121	43.2'	45.9'	KL-20	0.07	-	Nil	Tr				2.7'
B-2122	46.2'	49.6'	KL-20	0.21	Tr	Nil	Tr				3.4'
B-2123	57.6'	61.3'	KL-20	0.20	-	-	Tr				3.7'
B-2124	61.3'	64.1'	KL-20	0.06	-	-	Nil				2.8'
B-2125	71.4'	74.9'	KL-20	0.04	-	-	Nil				3.5'
B-2126	67.4'	74.6'	KL-21	0.04	Nil	-	Tr				7.2'

Tabulated Assay Results (Cont'd)

Sample#	From	To	DDH	Cu	Ni	Zn	Au	Ag	Co	Fe	Width
B-2127	74.6'	83.2'	KL-21	0.02	Nil	Nil	Tr				8.6'
B-2128	124.3'	133.1'	KL-21	0.13	Nil	Nil	Tr				8.8'
B-2129	61.9'	72.4'	KL-22	0.21	Nil	Nil	Tr				10.7'
B-2130	72.4'	77.0'	KL-22	0.14	Nil	Nil	Tr				3.3'
B-2131	81.0'	82.0'	KL-22	0.07	Nil	Nil	Tr				1.0'
B-2132	88.0'	89.8'	KL-22	0.11	Tr	Nil	Nil				1.8'
B-2133	92.4'	94.0'	KL-22	0.13	0.08	Nil	Tr				1.6'
B-2134	98.5'	99.0'	KL-22	0.12	0.08	Nil	Tr				0.5'
B-2135	168.0'	172.0'	KL-22	0.16	Nil	Nil	Tr				4.0'
B-2136	46.0'	48.4'	KL-26	0.07	Nil	Nil	Nil				2.4'
B-2137	50.0'	51.4'	KL-26	0.18	Nil	Nil	Tr				1.4'
B-2138	51.4'	53.8'	KL-26	0.20	0.04	Nil	Tr				2.4'
B-2139	53.8'	57.4'	KL-26	0.07	Nil	Nil	Nil				3.6'
B-2140	153.2'	155.2'	KL-26	0.04	Nil	Nil	Nil				2.0'
B-1729	38.0'	44.3'	KL-24	0.46	Nil	-	Tr				6.3'
B-1730	44.3'	47.4	KL-24	0.09	Nil	-	Tr				3.1'
B-1731	52.6'	56.0'	KL-24	1.19	Nil	-	Tr				3.6'
B-1732	104.1'	107.1'	KL-23	0.14	0.01	Nil	Tr				3.0'
B-1733	126.0'	137.6'	KL-23	0.17	Tr	-	Tr				10.6'
B-1734	140.1'	150.8'	KL-25	0.08	-	-	Tr				10.8'
B-1735	50.5'	51.5'	KL-12	0.20	0.02	Nil	Tr				1.0'
B-1736	78.5'	81.4'	KL-12	0.03	-	-	Tr				3.0'
B-1737	114.8'	120.9'	KL-12	0.20	0.01	Tr	Tr				4.1'
B-1738	123.9'	125.6'	KL-12	0.16	Tr	-	Nil				1.7'
B-1739	130.0'	133.3'	KL-12	0.14	0.02	Nil	Tr				3.3'

Tabulated Assay Results (Cont'd)

Sample#	From	To	DDH	Cu	Ni	Zn	Au	Ag	Co	Fe	Width
B-1740	45.6'	48.2'	KL-17	0.26	0.02	Nil	Tr				3.4'
B-1741	48.2'	49.4'	KL-17	0.11	Nil	Nil	Tr				1.2'
B-1742	201.4'	202.6'	KL-17	0.08	-	-	Tr				1.2'
B-1743	18.5'	26.2'	KL-8	0.20	0.01	Nil	Tr				7.7'
B-1744	26.3'	30.2'	KL-8	0.14	-	-	Tr				3.9'
B-1745	30.0'	32.5'	KL-8	0.14	Tr	Nil	Tr				2.5'
B-1746	32.5'	36.8'	KL-8	0.34	0.06	Nil	Tr				4.3'
B-1747	36.8'	39.4'	KL-8	0.14	Nil	Nil	Tr				2.6'
B-1748	49.0'	54.0'	KL-8	0.09	-	-	Nil				5.0'
B-1749	56.3'	57.2'	KL-18	0.26	0.01	Nil	Tr				1.9'
B-1750	61.0'	62.4'	KL-18	0.51	0.02	Nil	Tr				1.4'
B-1751	64.7'	68.8'	KL-18	0.80	0.01	Nil	Tr				3.1'
B-1752	68.8'	81.0'	KL-18	0.17	Tr	Nil	Tr				11.0'
B-1753	81.0'	84.0'	KL-18	0.34	0.05	Nil	Tr				3.0'
B-1754	84.0'	85.0'	KL-18	0.11	-	-	Tr				1.0'
B-1755	85.0'	95.2'	KL-18	0.16	Tr	Nil	Tr	Nil			10.0'
B-1756	95.2	105.0	KL-18	0.23	Nil	Nil	0.005	Tr			10.0'
B-1757	105.0'	116.6'	KL-18	0.11	Nil	Nil	Tr	Tr			10.0'
B-1758	116.6'	121.9'	KL-18	0.17	Nil	-	0.005	-			3.7'
B-1759	131.0'	141.5'	KL-18	Tr	Nil	Nil	Nil	-			10.5'
B-1760	68.5'	69.3'	KL-13	0.09	0.01	-	Tr	-			0.3'
B-1761	69.3'	70.3'	KL-13	0.37	0.04	Nil	0.005	Tr			1.0'
B-1762	73.4'	74.0'	KL-13	0.14	Nil	-	Tr	-			0.6'
B-1763	74.0'	74.95'	KL-13	0.14	Tr	Nil	Tr	Tr			0.95'
B-1764	74,95	76.4'	KL-13	0.11	Nil		Tr				1.55'
B-1765	76.4'	79.3'	KL-13	0.09	-		Nil				2.9'

Tabulated Assay Results (Cont'd)

Sample#	From	To	DDH	Cu	Ni	Zn	Au	Ag	Co	Fe	Width
B-1766	79.3'	87.0'	KL-13	0.09	Tr	Nil	Tr				2.4'
B-1767	87.0'	92.0'	KL-13	0.10	Nil	Nil	Tr				5.2'
B-1768	92.0'	102.0'	KL-13	0.26	0.06	Nil	Tr	Tr			10.0'
B-1769	102.0'	112.0'	KL-13	0.26	0.10	Nil	0.005				10.2'
B-1770	112.0'	122.0'	KL-13	0.25	Tr	Nil	Tr				10.0'
B-1771	122.0'	132.0'	KL-13	0.34	Tr	Nil	Tr				10.0'
B-1772	132.0'	139.7'	KL-13	0.28	0.10	Nil	Tr				6.8'
B-1773	139.7'	142.1'	KL-13	0.17	Nil	Nil	Tr				2.4'
B-1774	142.1'	153.6'	KL-13	0.06	-	-	Tr				11.0'
B-1775	153.6'	159.6'	KL-13	0.09	-	-	Tr				6.0'
B-1776	5.9'	7.9'	KL-13A	0.03	-	-	Tr				2.0'
B-1777	64.0'	68.9'	KL-13A	0.25	0.07	Nil	Tr				4.5'
B-1778	68.9'	74.9'	KL-13A	0.37	Tr	Nil	Tr				3.8'
B-1779	74.9'	77.5'	KL-13A	0.97	Nil	Nil	0.005				2.6'
B-1780	77.5'	87.5'	KL-13A	0.23	0.06	Nil	Tr				10.0'
B-1781	87.5'	96.5'	KL-13A	0.37	0.09	Nil	Tr				10.0'
B-1782	96.5'	107.3'	KL-13A	0.31	0.08	Nil	0.005	Tr			10.8'
B-1783	107.3'	118.4'	KL-13A	0.30	Tr	Nil	0.005	-			10.1'
B-1784	121.2'	131.2'	KL-13A	0.34	Tr	Nil	Tr	Tr			10.0'
B-1785	131.3'	139.2'	KL-13A	0.29	0.08	Nil	0.005				7.9'
B-1786	139.2'	145.7'	KL-13A	0.23	Tr	Nil	Nil	Tr			7.5'
B-1787	145.7'	153.4'	KL-13A	0.08	Nil	-	Nil	Nil			7.7'

APPENDIX "E"

Detailed Economics of Diamond Drill Holes:

The results of the drilling shall here be described in the order of the drilling on each of the three grids involved.

Economics of Grid No. 1:

D.D.H.'s KL-1 and KL-2 were put down to intersect a zone of heavily disseminated to massive pyrrhotite in a coarse grained quartzose rock, which is breccia-like, containing oval quartz granules and chalcopyrite as fracture fillings and replacement of amphibole. The sulphide content is up to 60%, with chalcopyrite making up 3 to 4% of the total.

Assays of grab samples averaged: 0.49% to 2.47% Cu; o.06% Ni; Trace-Zn; Trace Au; Nil-Pb, & 0.04% Co.

The zone is associated with a strong electromagnetic anomaly having a coincident magnetic high and a first rate non-coincident aeromagnetic anomaly.

In DDH-KL-1, the principle assays are:

B-2002-Quartz-Carbonate with minor mica.
- 0.20% Cu; Nil-Ni;Trace-Au; thickness-6.6'

B-2003- Quartz-Carbonate-Mica-Schist with 25%
- disseminated Sulphides
- 0.07 Cu; Nil-Ni;Trace-Au; thickness -3.3'

B-2004- as above
- Trace-Cu;Nil-Ni;Trace-Au;thickness -2.8'

B-2005-Garnet-Quartz Mica-Schist to Gneiss-up to 50% Po. & Cpy.
- 0.04% Cu; Nil-Ni;Trace-Au;Thickness -5.0'

In D.D.H.-KL-2: the principle assays are:

B-2015 - Quartz-Carb-Mica-Schist - 5% disseminated Sulphides
- 0.29% Cu, Trace-Ni; Trace Au; thickness -6.8'

B-2016 - Quartz-Carbonate vein with 25% Po, Py & Cpy.
- 0.39% Cu; Nil-Ni;Trace-Au; thickness - 4.0'

B-2017 - Garnet-Quartz-Carbonate-Magnetite-Schist to Gneiss
- 35% Cpy, Po.,Py.
- 0.17% Cu;Trace-Ni;16.32%Fe; thickness -5.2'

B-2018 - Garnet-Quartz-Mica-Gneiss to Schist
- 0.10% Cu;Trace-Ni;Trace-Au;thickness -4.5'

B-2029 - As above - sludge
- 0.10% Cu; Trace-Ni;Trace-Au;thickness-10.0'

Conclusion: No comparable assay between surface and drill hole intersection; probably due to variable sulphide content of meta-sediments.

DDH-KL-3 - located principally on the basis of a good electro-magnetic anomaly with coincident magnetics. A first-rate non-coincident aeromagnetic anomaly is also present.

Principal assay results - B-2032 - Quartz-Carbonate-Mica-Schist
- 0.10% Cu; Trace-Ni; Thickness - 3.2'

B-2033 - Near Massive Sulphides (70%) in brecciated - Quartz-Carb - 0.53% Cu; 0.11% Ni; Trace Au;0.07% Co; 0.07% Ag thickness 0.6'

Conclusion: Not sufficient quantity of sulphides (or slate) was intersected to account for surface anomalies, but it is assumed that wide zones of sedimentary beds containing disseminated sul-phides (or massive sulphides) are folded and located within 100' of the surface.

DDH-KL-4:- located in a zone of mineralized quartz rubble and irregularly coarse quartz breccia. From this zone, grab samples averaged 0.41% Cu; 0.05% Ni; Trace-Au. The zone lies on the northern edge of an electromagnetic conductive zone, with an associated co-incident magnetic anomaly.

The principal intersections assay as follows:-

B-2043 - Quartz-Biotite-Gneiss to Schist - 5% Sulphides
- 0.09% Cu; Nil-Ni;Trace-Au;Thickness - 3.0'

B-2044 - Slaty to Graphitic-Quartz-Biotite Schist up to 15% Sulphides - 0.02% Cu; Trace-Au; Thickness - 4.0'

B-2045 - as above
- 0.04% Cu; Nil-Ni; thickness - 5.3'

Conclusions: No results comparable to surface results obtained.

DDH's KL5 & KL6:

These holes were drilled on the basis of a coincident electromagnetic and magnetic anomaly, plus the fact that a quartz mass 50' in width was observed here with mineralized fracture fillings and small pods of pyrrhotite and minor chalcopyrite.

Assays of grab samples averaged 0.18% Cu; 0.21% Ni; Trace - Au; 0.02% Co.

Results of DDH-KL-5

Assay B-2053 - near massive sulphides (80-90%) in a quartz breccia 0.34% Cu; 0.11% Ni; 0.01 oz Au; 0.035%Co; 0.08 oz. Ag. - Thickness - 1.9', occurring fairly close to surface in vicinity of similar rubble on the surface.

DDH- KL-6 - Assay results:

B-2074 - sheared to brecciated quartz in gabbro
- 0.09% Cu; Trace - Au; Thickness - 3.5'

B-2076 - as above
- 0.02% Cu; thickness 2.0'

This zone, when projected to the surface, may be considered a part of the quartz zone showing on the surface.

Conclusion: The results obtained were not sufficient to cause the conductive zone here. Possibly an increase in sulphides in the folded sediments is a cause.

DDH-KL-14 - This hole was drilled on the same anomaly as was KL-5 & KL-6, near a small associated coincident magnetic anomaly.

Results:

B-2086 - Talc and Carbonate-Mica-Schist with massive sulphide veins - 0.26% Cu; Trace-Ni; Trace- Au; thickness- 4.2'

B-2087 - Quartz-Mica-Gneiss, high Quartz-Carbonate; 30-40% disseminated sulphides.
-0.21% Cu; Trace-Ni; Trace Au - thickness-3.7'

Conclusion: Nothing of economic interest shown

DDH-KL-7 - Drilled on the basis of a coincident electromagnetic and magnetic anomaly, lying near the contact between lava and gabbro.

Principal assays:

B-2092- near massive (90%) sulphides in slaty Carbonate-Mica-gneiss with up to 50% sulphides
- 0.09% Cu; Nil - Ni; thickness -2.7'

B-2094 - as above
- 0.07% Cu; Nil - Au; Thickness 2.6'

Conclusion: There is no indication here of any concentration of sulphides, the conductor probably being the accumulation of numerous beds of brecciated slaty sediments with minor disseminated sulphides rimming a gabbro intrusive.

DDH-KL-8 - located in a zone of brecciated quartz with disseminated pyrrhotite and minor chalcopyrite. Grab samples averaged 0.14% Cu; 0.09% Ni; and Trace - Au. The drill hole was spotted in a fair electromagnetic anomaly with a small associated coincident magnetic anomaly. A first rate non-coincident aeromagnetic anomaly is also located here.

The results of drilling show that in a highly siliceous slate with up to 80% sulphides, the following assays are obtained:-

B-1743 - 0.20% Cu; 0.01% Ni; Trace - Au; Thickness - 4.5'

B-1744 - 0.17% Cu; Trace - Au; Thickness - 3.9'

Other Assays:

B-1745 - in highly altered sediments with up to 15% sulphides
- 0.14% Cu; Trace - Ni; Trace - Au; Thickness - 2.0'

B-1746 - near massive Po in Quartz-Breccia - slaty
- 0.34% Cu; 0.06% Ni; Trace - Au; Thickness - 4.3'

B-1747 - as above.
- 0.14% Cu; Nil - Ni; Trace - Au; Thickness - 2.6'

B-1748 - Garnet-Biotite-Quartz-Schist with slate.
- 0.09% Cu; Nil-Au; Thickness - 5.0'

DDH-KL-17 - located in a zone similar to above; possibly a folded portion of the above.

Drilling Results:

B-1740 - Quartz-Carbonate fractures in lava with up to 30% Sulphides.
- 0.26% Cu; 0.02% Ni; Thickness - 2.6'

B-1741 - 10-20% Sulphides in Quartzitic Shale
- 0.11% Cu; Thickness - 1.2'

Conclusions: Sulphides occurring in much the same percentages in similar rock throughout. Further drilling is suggested.

Economics of Grid No. 3 Extension:

DDH-KL-10 - spotted on the basis of a northeasterly striking electromagnetic anomaly with a coincident magnetic anomaly. This is also in a zone of first rate coincident aeromagnetic conductors.

The drilling results showed only minor amounts of copper and nickel present in a slaty Quartz-Mica-Gneiss with up to 50% sulphides.

B-2099 - 0.05% Cu; Thickness - 4.0'
B-2100 - 0.02% Cu; Trace-Au; Thickness - 10.4'
B-2101 - 0.05% Cu; Trace - Au; Thickness - 9.5'
B-2102 - 0.02% Cu; Nil - Au; Thickness - 1.4'

Conclusions: The conductor is the result of mineralized slaty sediments lying between virtually non-conductive lavas.

DDH-KL-23 & KL-24 - located on a wide electromagnetic conductive zone striking to northeast, with a first rate coincident aeromagnetic conductor striking from the north to northeast.

Results of Drilling:

KL-23 - 1732 - high quartz, slaty, brecciated zone in lava
- 0.14% Cu; 0.01% Ni; Trace-Au; Thickness - 3.0'

1734 - from brecciated quartz-carbonate-amphibole - feldspar schist zone - up to 70% Po and 1-3% Cpy to massive sulphide zone in Quartz-breccia
- 0.08% Cu; Trace-Au; Thickness - 10.6'
- smaller zones of mineralized slates in altered lava and sediments.

KL-24 - assay results:

1729 - Quartz-Carbonate zone with up to 50% Sulphides - slaty and brecciated
- 0.46% Cu; Nil-Ni; Trace-Au; Thickness 3.4'

1730 - as above
- 0.09% Cu; Trace-Au; Thickness - 3.1'

1731 - massive Cpy (70%) in a quartz breccia to Quartz-Carbonate-Amphibole gneiss with 20% sulphides.
- 1.19% Cu; Nil-Ni;Trace-Au; Thickness - 3.4'

KL-20,21 and 22

Sulphides are disseminated here throughout the Quartz-Mica (Sericite & Biotite) Gneisses and/or

schists up to 30%; in brecciated Quartz-Carbonate zones containing minor Amphibole, and Mica up to 75%; and in Slaty Quartz-Mica Gneisses up to 80%. Only a few, narrow, massive sulphide veinlets throughout, which are usually associated with fault or shear zones.

Assay Results:

KL-20: B-2123 - Slaty Quartz Mica Gneiss
- 0.20% Cu; Trace-Au; Thickness - 3.7'

B-2124 - Qtz-Mica-Schist
- 0.06% Cu; Nil - Au; Thickness - 2.8'

B-2125 - Slaty Qtz Mica Gneiss
- 0.04% Cu; Nil - Au; Thickness - 3.5'

KL-21: B-2126 - Quartz-Mica-Gneiss
- 0.04% Cu; Ni-Nil; Tr-Au; Thickness - 7.2'

B-2127 - (as above)
- 0.02% Cu; Nil - Ni; Tr - Au; Thickness - 8.6'

B-2128 - Slaty Qtz Mica Gneiss, brecciated; non massive sulphide zones
- 0.13% Cu, Nil-Ni; Au-Trace; Thickness -8.8'

KL-22: B-2129 - up to 60% Sulphides in brecciated zone in lava.
- 0.21% Cu; Nil-Ni; Trace-Au; Thickness - 10.7'

B-2130 - as above
- 0.14% Cu; Nil-Ni;Trace-Au; Thickness - 3.3'

B-2131 - altered lava with quartz and sulphide up to 50%
- 0.07% Cu; Nil-Ni;Trace-Au;Thickness - 1.0'

B-2132 - as above
- 0.11% Cu; Ni - Trace; Au-Nil; Thickness - 1.8'

B-2133 - Slaty sediment; up to 90% Sulphides
- 0.13% Cu; 0.08% Ni; Tr - Au; Thickness - 1.6'

B-2134 - Massive Sulphides in Slaty sediments
- 0.12% Cu; 0.08% Ni; Tr - Au; Thickness - 0.5'

B-2135 - Sheared, brecciated lava; up to 25% sulphides
- 0.16% Cu; Ni-Nil;Au-Trace; Thickness - 4.0'

KL-11 -Located on basis of a coincident electromagnetic magnetic anomaly. Aeromagnetic anomaly of first order associated. Essentially the same in make up as KL 23 & 24; 20, 21 & 22.

Assay Results

B-2103 - Quartz-Biotite-Amphibole-Schist & Gneiss with sulphides along quartz veins
- 0.03% Cu; Trace - Au; Thickness - 2.8'

B-2104 - Altered Gabbro - 10-15% disseminated Sulphides
- 0.04% Cu; Trace - Au; Thickness - 5.0'

B-2105 - altered lava
- 0.01% Cu; Trace - Au; Thickness 10.0'

B-2106 - altered lava
- 0.02% Cu; Trace-Au; Thickness - 5.0'

B-2107 - Slaty Quartz-Biotite-Amphibole Gneiss
- 0.02% Cu; Trace - Au; Thickness - 2.0'

B-2108 - Slaty-Quartz-Mica-Schist - up to 30% Po.
- 0.03% Cu; Nil - Au; Thickness - 6.4'

B-2109 - as above with up to 50% Po & Trace Cpy
- 0.15% Cu; Trace - Au; Thickness 4.1'

B-2112 - Slaty-Qtz-Mica-Gneiss - near massive Po
- 0.10% Cu; Trace - Ni; Trace-Au; Thickness 1.1'

B-2114 - Brecciated and Slaty Qtz Carb; up to 90% Sulphides
- 0.08% Cu; 0.04% Ni; Au-Trace; Thickness 0.5'

B-2115 - Qtz-Biotite-Talc-Schist - 20% Sulphides
- 0.04% Cu; Au-Nil - Thickness 1.1'

B-2116 - up to 80% Sulphides in a Quartz-Carb-veinlet
- 0.25% Cu; Trace-Au; Thickness - 2.0'

Conclusion - Greater amount of sulphides found in the tightly folded sediments and along fault or shear zones, usually as quartz filled fractures.

KL 25 & 26:

Located by geophysics and spotted in the widest portion of a coincident electromagnetic and magnetic anomaly. A surface assay in quartz-breccia, near massive Po., i.e. 50% is - 0.19% Cu; 0.08% Ni; Zn-Nil; 300' east of baseline at 34 North.

Assay Results:

KL 25:

B-1734 - Slaty Qtz-Mica-Gneiss with up to 80% Po.
- 0.08% Cu; Trace-Au; Thickness - 10.8'

KL-26:

B-2136 - Quartz-Amphibole-Gneiss - up to 25% Po.
- 0.07% Cu; Nil-Au; Thickness - 2.4'

B-2137 - Quartz Amphibole-Gneiss - stringers of sulphides
- 0.18% Cu; Trace-Au; Thickness - 1.4'

B-2138 - massive Po. in Quartz pebble breccia
- 0.20% Cu; 0.04% Ni; Trace-Au; Thickness-1.5'

B-2139 - Quartz-Amphibole-Gneiss - 5.10% Po.
- 0.07% Cu; Ni-Nil; Thickness - 3.6'

B-2140 - Quartz vein in lava with up to 10% sulphides
- 0.04% Cu; Nil-Au; Thickness - 2.0'

KL-12:

Located on an electromagnetic and coincident magnetic high on southern end of EM Conductor.

Assay Results:

1735 - near massive sulphides in veinlet in lava
- 0.20% Cu; 0.02% Ni; Trace-Au; Thickness-1.0'

1736 - Quartzitic zone with 20% Po; 4% Cpy; Disseminated
- 0.03% Cu; Trace-Au; Thickness - 3.0'

1737 - Heavily disseminated sulphides in a quartz breccia
- 0.20% Cu; 0.01% Ni; Trace-Au; Thickness - 6.1'

1738 - Quartz vein, minor sulphides
- 0.16% Cu; Trace-Ni; Nil-Au; Thickness - 1.7'

1739 - Massive(80%)Sulphides in Quartz Breccia
- 0.14% Cu; 0.02% Ni; Tr-Au; Thickness - 3.3'

Grab Samples:

Located on strike with DDH-KL-11 is a zone of sulphide float (sulphides in quartz-breccia) with assays as follows:

8373 - 0.39% Cu; 0.09% Ni; Zn-Nil; Trace-Au

B- 2113 - 0.84% Cu; 0.10% Ni; 0.005 oz Au; 0.07 oz Ag; 0.06% Co.

The only assay and rock type that closely resembled these float assays was B-1731 - 1.19% Cu; Ni-Nil; Au-trace; Thickness 3.4' - found in DDH-KL-24; located in an interpreted fault zone.

Conclusions: - Minor disseminations of Po, Py and Cpy are found in faulted, sheared, brecciated, or highly folded zones in the sediments, with traces in the contacting lavas and gabbros. Overall the sulphide percentage intersected was not sufficient to produce the conductors indicated, thus it must be concluded that either the rock is more highly folded, sheared, or faulted than is indicated, or that the zones intersected are not the zones of maximum sulphide concentration in a highly folded zone. It is hardly likely that a large zone of high sulphide concentration will be located.

Economics of Grid No.3:

DDH's KL-13, 13A and KL-18 were spotted on the basis of an electromagnetic conductor (in coincident with a magnetic conductor) fringing a gabbro mass.

Massive to disseminated pyrrhotite and minor pyrite and chalcopyrite occur here as replacement in graphitic slates. In these slates, two generations of sulphide formation are apparent. The first is the replacement of slate by pyrrhotite, and the second being the replacement of the former and fracture filling. Minor disseminations are found in Quartz-Carbonate-Mica-Schists and in altered gabbroic lenses.

The drilling results are as follows:

KL-13: - 1760 - 10 to 15% sulphides in sediments and in altered gabbro.
- 0.09% Cu; 0.01% Ni; Trace-Au; Thickness - 1.0'

1761 - near massive sulphides in brecciated slates
- 0.37% Cu; 0.04% Ni; 0.005 oz Au; Trace Ag;Thickness-1

In highly altered gabbro with near massive sulphide veinlets, the average results are (1762, 1763, 1764)

- 0.13% Cu; Trace-Nil; Trace-Au over 4.6' from 73.4' to 78.0'

or 1762 - 0.14% Cu; Nil-Ni; Trace-Au; Thickness-1.0'

1763 - near massive sulphides - gabbroic
- 0.14% Cu; Trace-Ni; Trace-Au; Trace Ag; Thickness-2.

1764 - white quartz with Po and Cpy
-0.11% Cu; Ni-Nil; Au-Trace; Thickness - 1.5'

In Quartz-Biotite to Quartz-Sericite schist interbedded with altered gabbro, the average results (1765,1766,1767) are 0.09% Cu; Trace-Ni; Trace-Au; over 14.0' from 78.0' to 92.0'

or 1765 - Quartz-Biotite to Quartz-Sericite Schist
- 0.09% Cu; Nil-Au; Thickness - 1.4'

1766 - Altered Gabbro and Quartz-Carbonate-Mica-Gneiss
- 0.09% Cu; Ni - Trace; Au-Trace; Thickness -2.4'

1767 - Quartz-Biotite-Gneiss with up to 25% Sulphides
- 0.10% Cu; Ni-Nil; Au-Trace; Thickness - 5.0'

and in brecciated slate the average results of 1768, 1769, 1770, 1771, 1772 are
- 0.28% Cu; 0.05% Ni; Trace-Au; over 47.7' from 92.0' to 139.7'

or 1768 - 0.26% Cu; 0.06% Ni; Trace-Au; Trace-Ag; Thickness - 10.0'

1769 - 0.26% Cu; 0.10% Ni; 0.005 oz.Au; Thickness 10.0'

1770 - 0.25% Cu; Trace-Ni; Trace-Au; Thickness - 10.0'

1771 - 0.34% Cu; Trace Ni; Trace-Au; Thickness - 10.0'

1772 - 0.28% Cu; 0.10% Ni; Trace- Au; Thickness - 6.8'

Other Assays are

1773 - Quartz biotite gneiss with slaty stringers and sulphides
- 0.17% Cu; Nil-Ni; Trace-Au; Thickness - 2.1'

1774 - Quartz-biotite gneiss with 20% Po and Trace Cpy
- 0.06% Cu; Trace-Au; Thickness - 11.0'

1775 - Sulphides in interbanded Quartz and slaty sediments, and gabbroic to amphibolitic rock
- 0.09% Cu; Trace-Au; Thickness - 8.0'

KL-13A: - Similar composition to KL-13

Assay Results:

B- 1776 - Vuggy, carbonitized lava - 1-2% Po.
- 0.03% Cu; Trace Au; Thickness 2.0' from 59.4' to 61.4'

1777 - 10-15% sulphides in brecciated Quartz Carbonate
- 0.25% Cu; 0.07% Ni; Trace-Au; Thickness -4.5'

1778 - Interbanded Qtz Feldspar and massive sulphides
- 0.37% Cu; Trace-Ni; Trace-Au; Thickness 3.8'

1779 - as above
- 0.97% Cu; Nil-Ni; 0.005 oz Au; Thickness 2.6'

1780 - as above
- 0.23% Cu; 0.06% Ni; Trace Au - Thickness 10.0'

1781 - Interbanded Qtz feldspar and massive sulphides
- 0.37% Cu; 0.09% Ni; Trace Au; Thickness 10.0'

1782 - as above
- 0.31% Cu; 0.08% Ni; 0.005 oz Au; trace Ag; thickness 10.0'

1783 - as above
- 0.30% Cu; Trace Ni; 0.005 oz Au; Thickness 10.1'

1784 - as above

- 0.34% Cu; Trace Ni; Trace Au; Trace Ag; Thickness 10.0'

1785 - as above
- 0.29% Cu; 0.08% Ni; 0.005 oz.Au; Thickness 6.4'

1786 - as above
- 0.23% Cu; Trace Ni; Nil-Au; Trace Ag; Thickness 7.5'
- Avg. 0.36% Cu; 0.04% Ni; Trace Au; Trace Ag over 81.7' from 64.0' to 145.7' including assays - 1777 to 1786.

B-1787 - Qtz-Biotite-Gneiss with minor Sulphides
- 0.08% Cu; Nil-Ni; Nil-Au; Thickness 7.7'

KL-18: Similar to KL 13 and KL 13A in composition - Assay Results are as follows:

1749 - Massive Po. with 10% CO_3
- 0.26% Cu; 0.01% Ni; Trace-Au; Thickness - 1.9'

1750 - massive sulphides
- 0.51% Cu; 0.02% Ni; Trace Au; Thickness - 1.4'

1751 - massive sulphides in Quartz-Carbonate-Biotite Schist, brecciated
- 0.80% Cu; 0.01% Ni; Trace-Au; Thickness - 3.1'

1752 - Slaty rock with disseminated sulphides
- 0.17% Cu; Trace Ni; Trace-Au; Thickness - 11.0'

1753 - banded quartz-feldspar with Po and Slate
- 0.34% Cu; 0.05% Ni; Trace-Au; Thickness - 3.0'

Average - 0.42% Cu; 0.02% Ni; over 27.7' from 56.3' to 84.0' including the above assays

1754 - Quartz with minor Po & Cpy
- 0.11% Cu; Trace-Au; Thickness -1.0'

1755 - massive to 15% quartz-carbonate-biotite rock
- 0.16% Cu; Trace-Ni; Trace-Au; Thickness - 10.0'

1756 - Quartzite and Slate
- 0.23% Cu; Nil-Ni; 0.005 oz Au; Thickness - 10.0'

1757 - as above

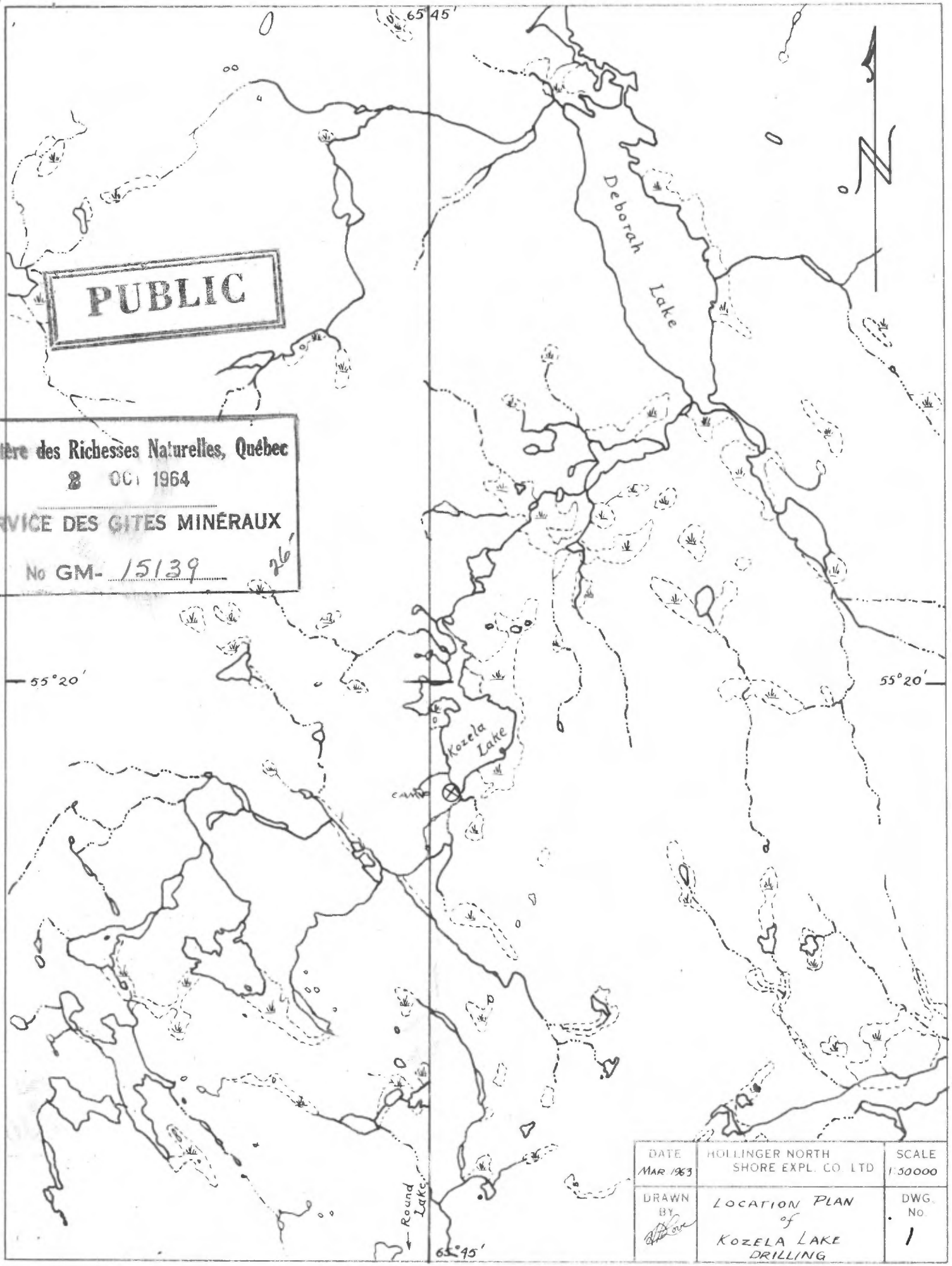
- 0.11% Cu; Nil-Ni; Trace-Au; Thickness - 10.0'

1758 - as above

- 0.17% Cu; Nil-Ni; 0.005 oz.Au; Thickness - 5.7'

Average - 0.16% Cu; Nil-Ni; Trace-Au over 37.9' from 84.0' to 121.9'; including the above assays

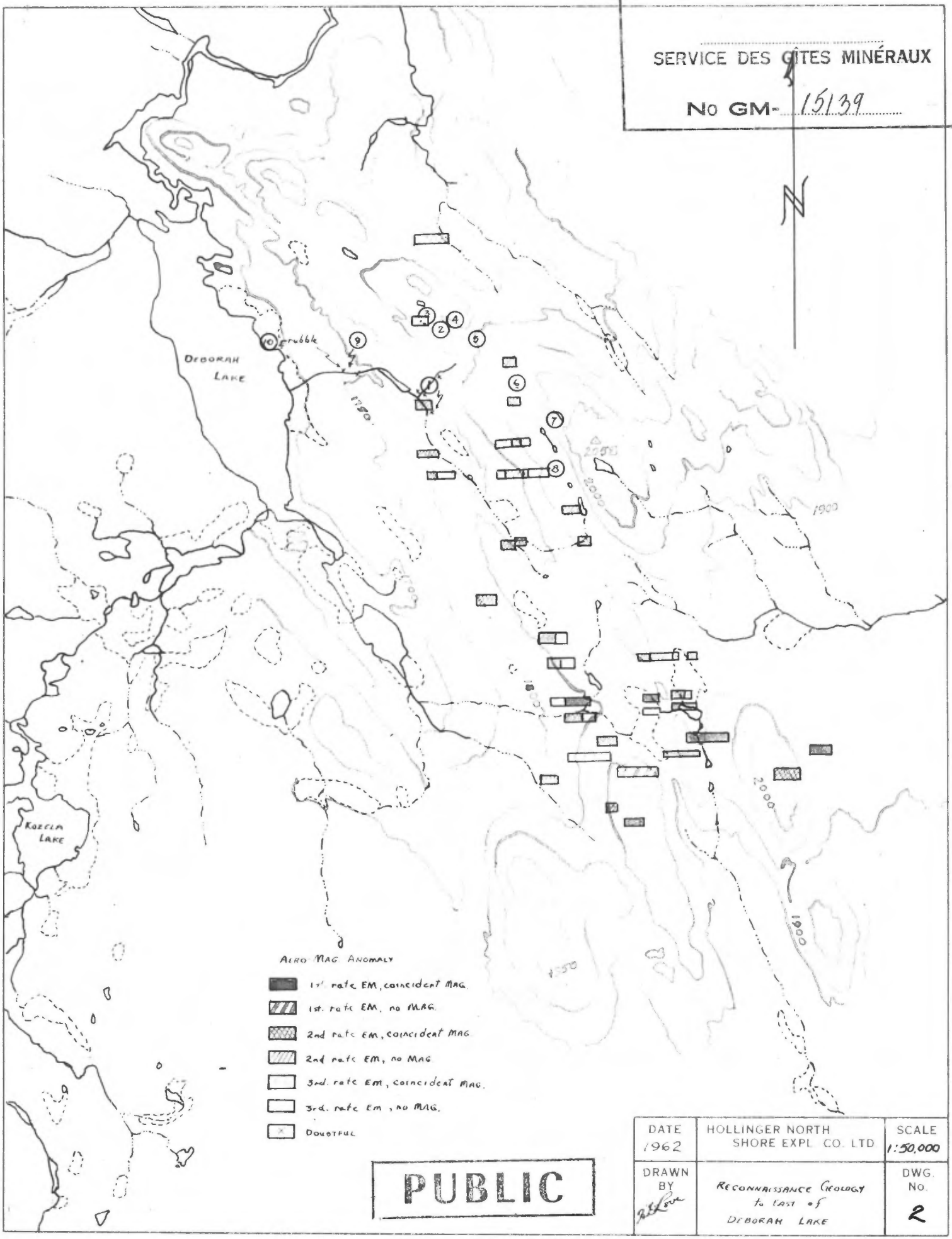
Others 1759 - Garnet-Quartz-Biotite Gneiss with Sulphides
- Trace - Cu; Nil-Ni; Nil-Au; Thickness 10.5'



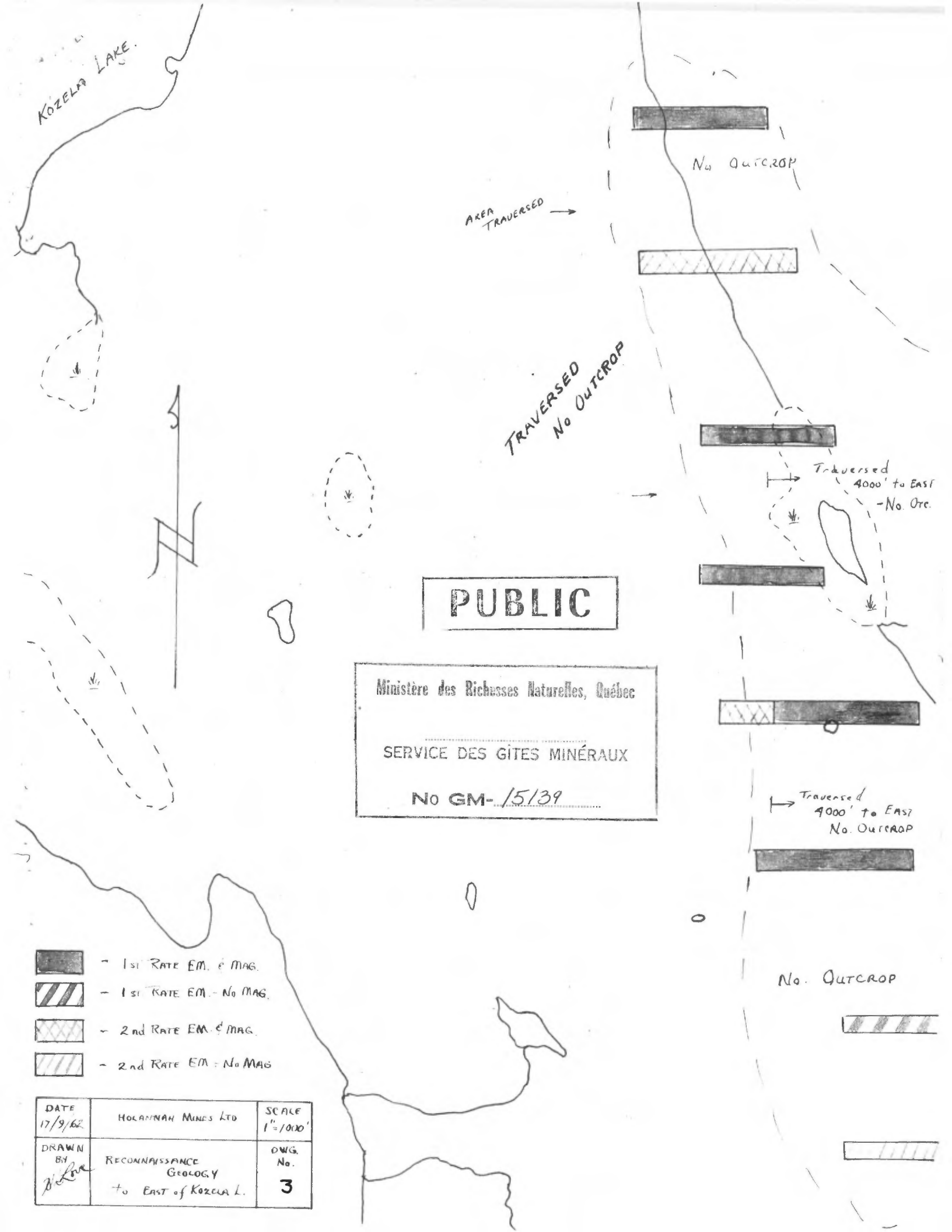
PUBLIC

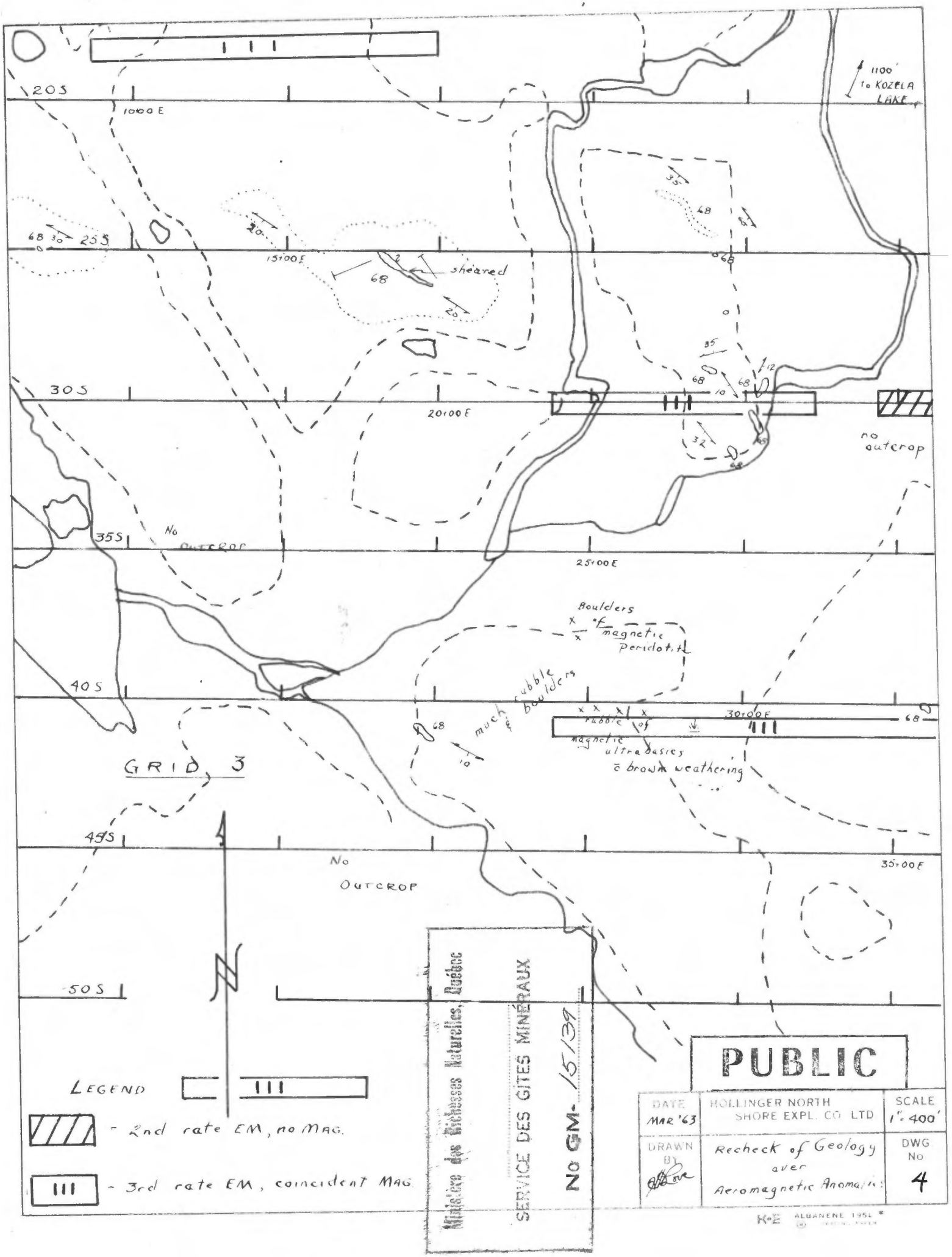
Ministère des Richesses Naturelles, Québec
2 OCT 1964
SERVICE DES GITES MINÉRAUX
No GM- 15139

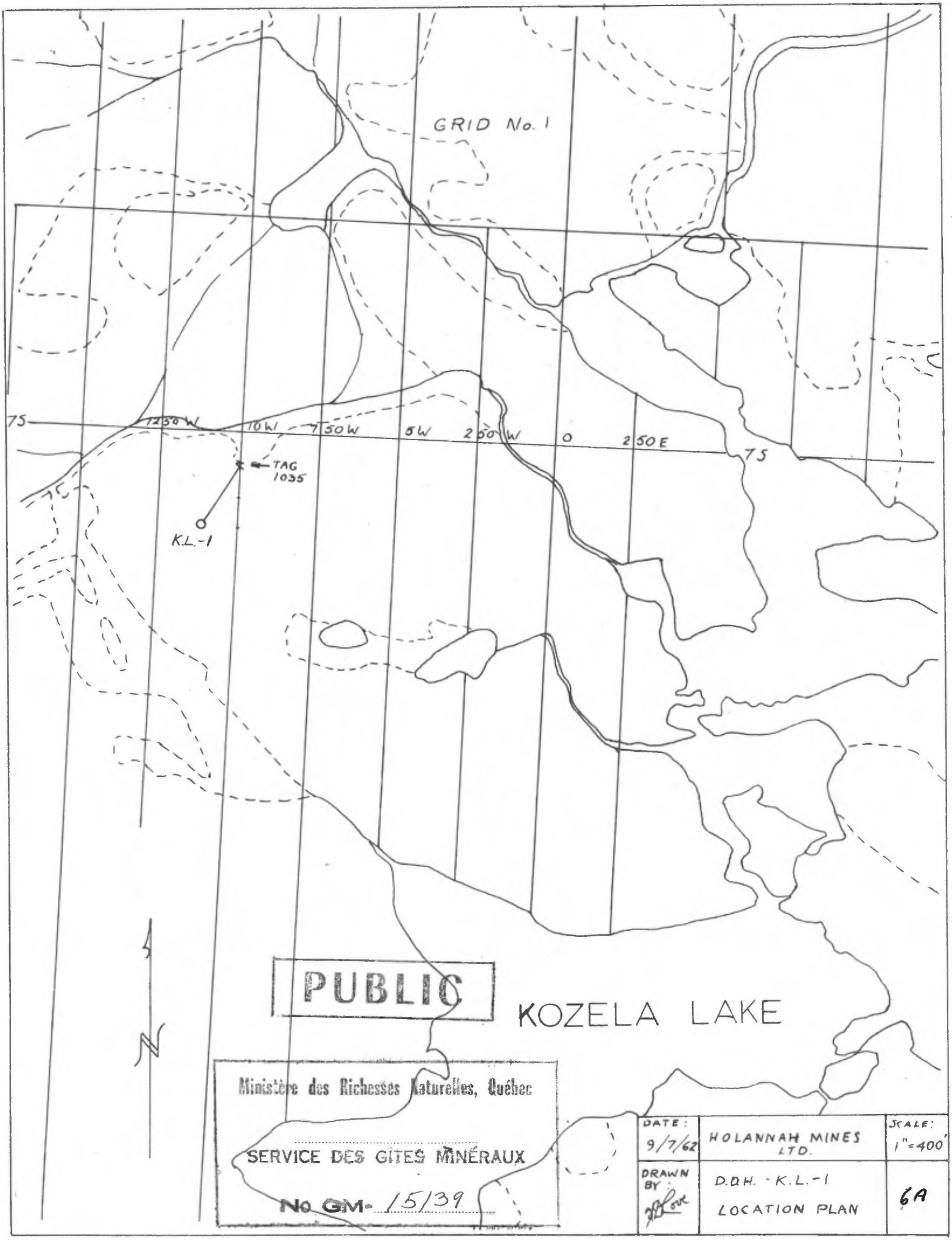
DATE MAR 1963	HOLLINGER NORTH SHORE EXPL. CO. LTD	SCALE 1:50000
DRAWN BY	LOCATION PLAN of KOZELA LAKE DRILLING	DWG. No. 1

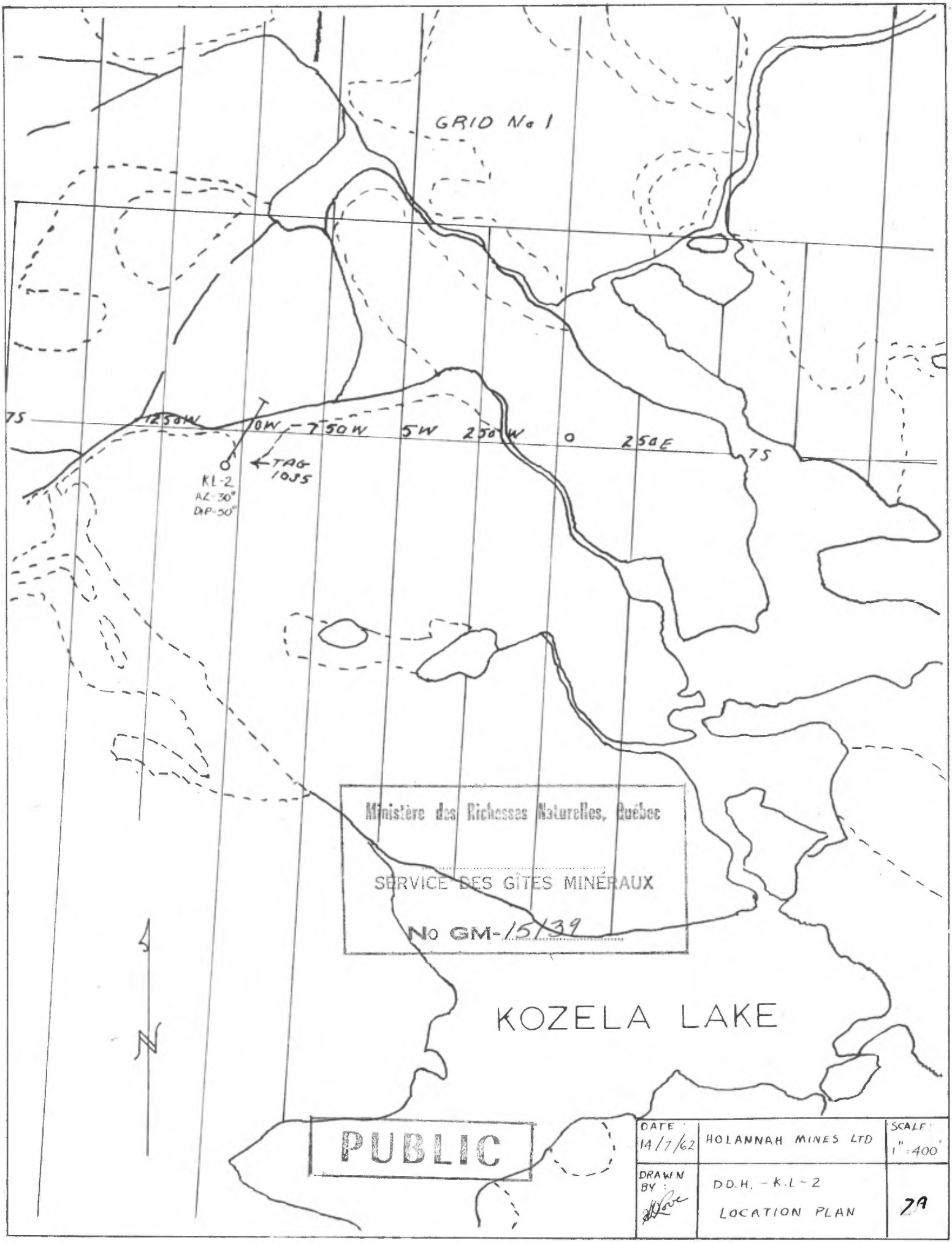


DATE	HOLLINGER NORTH SHORE EXPL. CO. LTD	SCALE
1962		1:50,000
DRAWN BY	RECONNAISSANCE GEOLOGY to East of DEBORAH LAKE	DWG. No.
		2

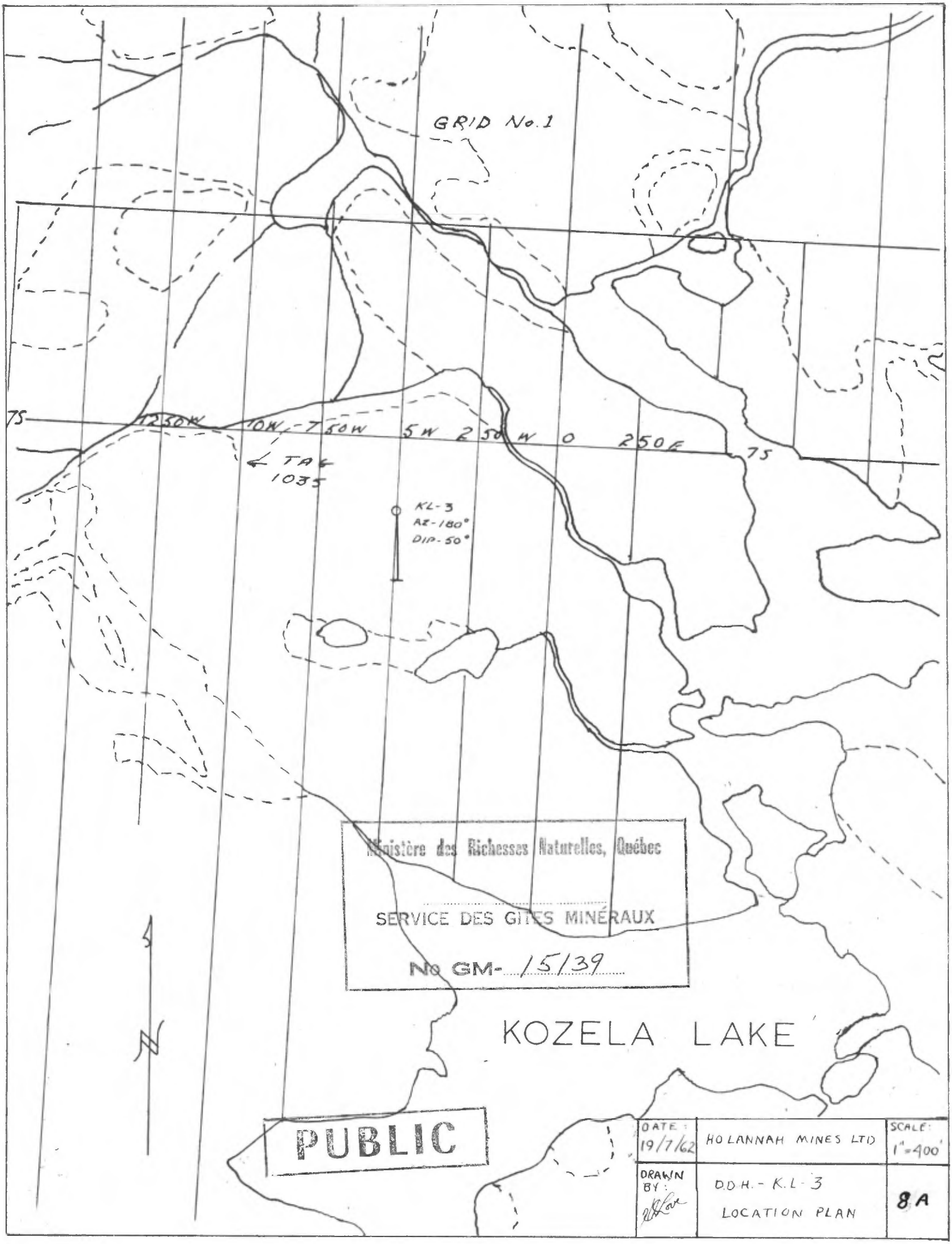

KOZELA LAKE.
No Outcrop
AREA TRAVERSED
TRAVERSED No OUTCROP
Traversed 4000' to East - No. Otc.
Traversed 4000' to East No. Outcrop
No. Outcrop
PUBLIC
Ministère des Richesses Naturelles, Québec
SERVICE DES GÎTES MINÉRAUX
No GM- 15139
- 1st Rate EM. & MAG.
- 1st Rate EM. - No MAG.
- 2nd Rate EM. & MAG.
- 2nd Rate EM - No MAG
DATE 17/9/62
HOLANNAH MINES LTD
SCALE 1"=1000'
DRAWN BY
RECONNAISSANCE GEOLOGY to EAST of KOZELA L.
DWG. No. 3


20S
10+00E
1100' to KOZELA LAKE
68
30
25S
20
15+00E
68
sheared
20
35
48
68
30S
20+00E
35
68
10
68
12
32
45
68
no outcrop
35S
No OUTCROP
25+00E
Boulders of magnetic Peridotite
40S
much rubble & boulders
68
10
rubble of magnetic ultrabasics & brown weathering
30+00E
68
GRID 3
45S
No OUTCROP
35+00E
50S
LEGEND
- 2nd rate EM, no MAG.
- 3rd rate EM, coincident MAG
PUBLIC
DATE MAR '63
HOLLINGER NORTH SHORE EXPL. CO. LTD
SCALE 1" = 400'
DRAWN BY
Recheck of Geology over Aeromagnetic Anomalies
DWG No 4
Ministère des Richesses Naturelles, Québec
SERVICE DES GITES MINÉRAUX
No GM- 15139

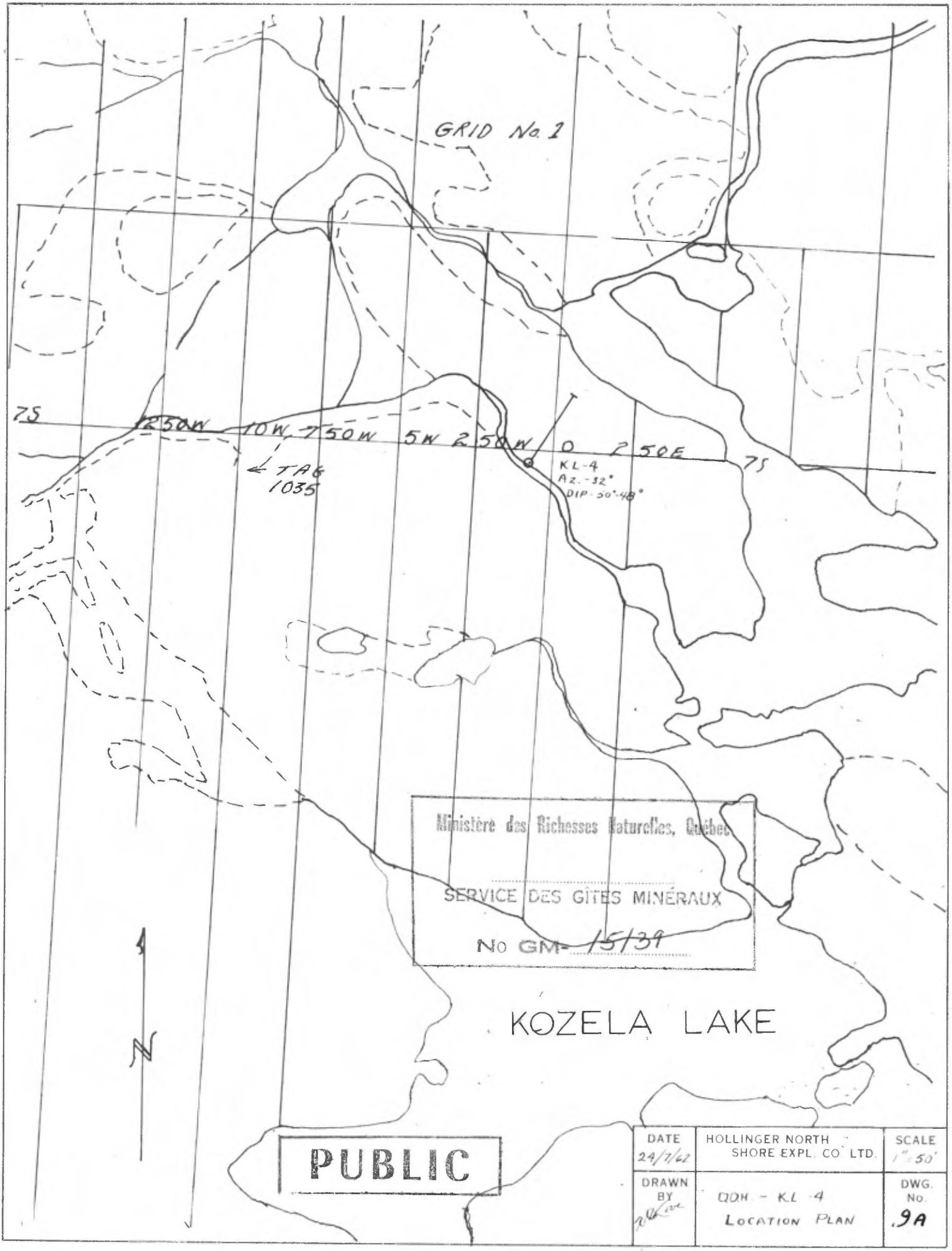

GRID No. 1
75
12 50 W
10 W
7 50 W
5 W
2 50 W
0
2 50 E
75
TAG 1035
K.L.-1
N
PUBLIC
KOZELA LAKE
Ministère des Richesses Naturelles, Québec
SERVICE DES GITES MINÉRAUX
No GM- 15139
DATE: 9/7/62
HOLANNAH MINES LTD.
SCALE: 1"=400'
DRAWN BY
D.D.H. - K.L.-1
LOCATION PLAN
6A

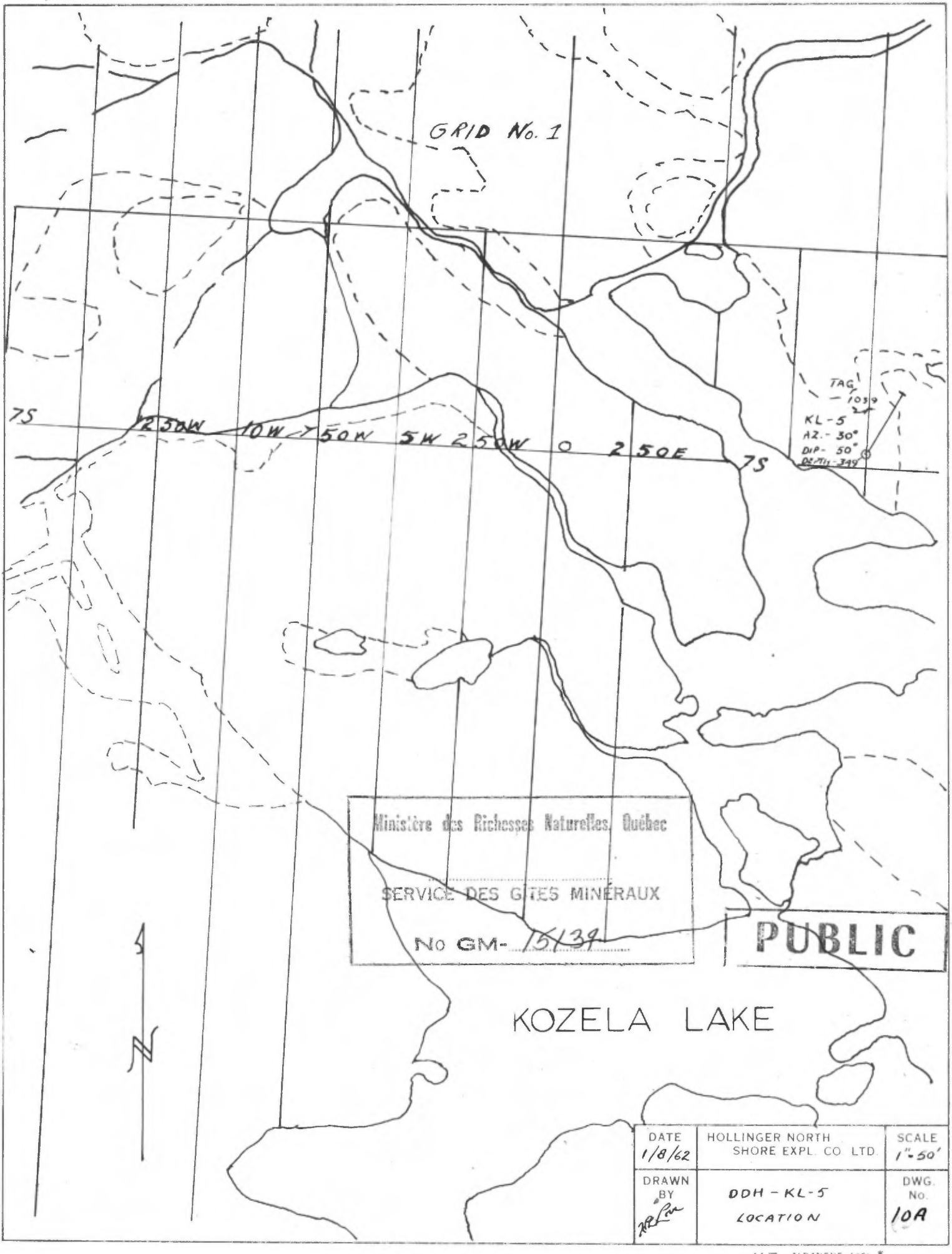


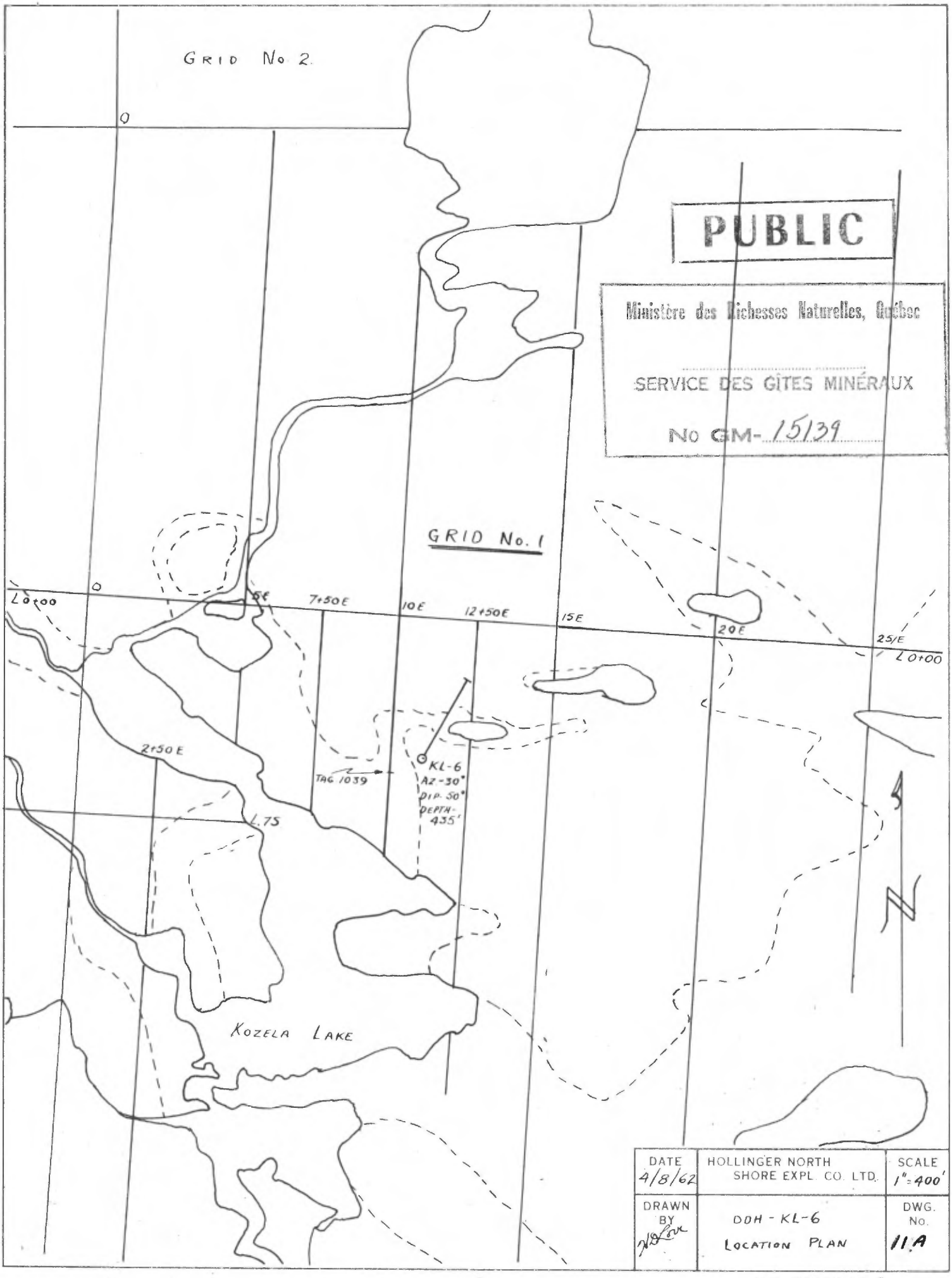
DATE: 14/7/62	HOLANNAH MINES LTD	SCALE: 1" = 400'
DRAWN BY:	D.D.H. - K.L - 2 LOCATION PLAN	79

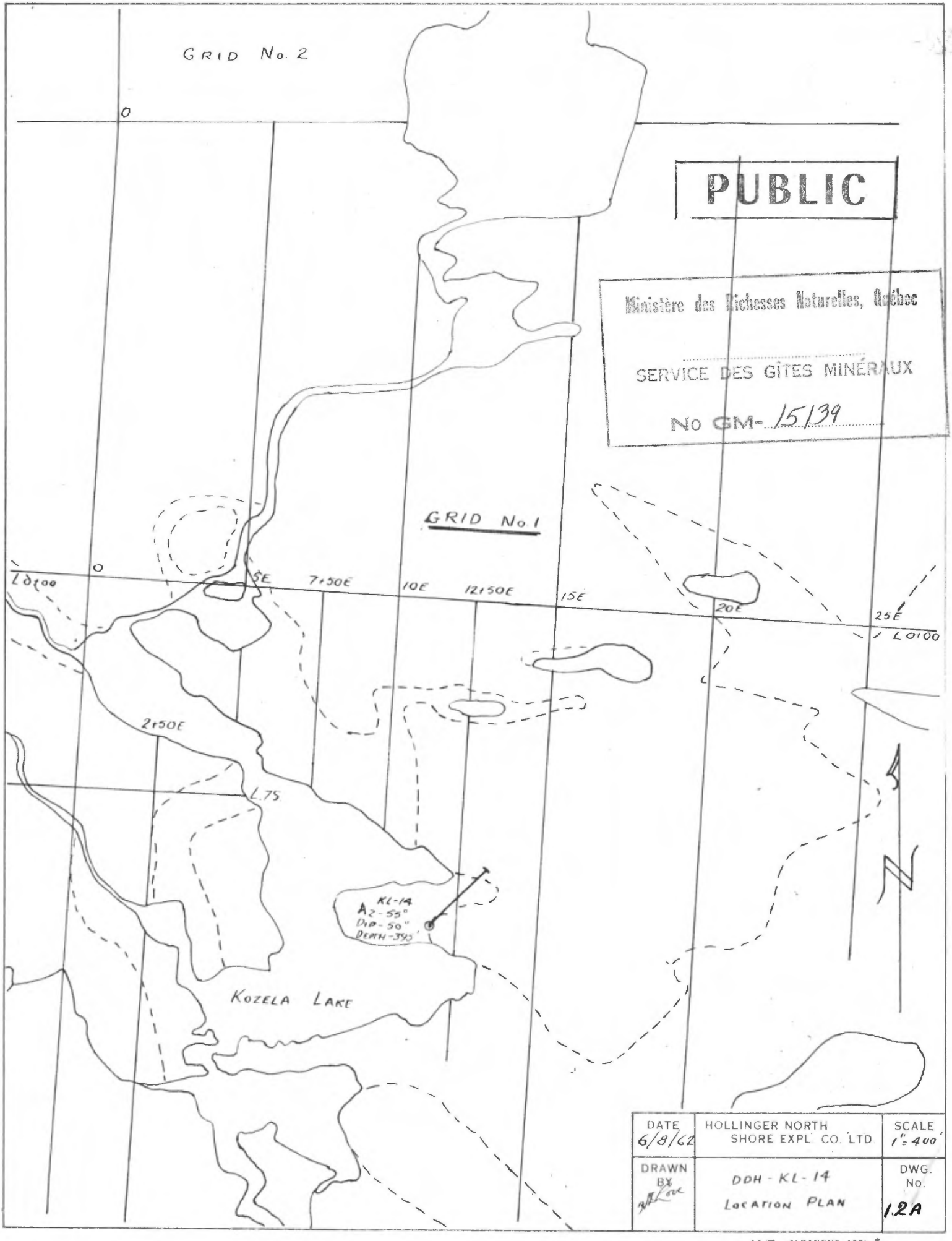


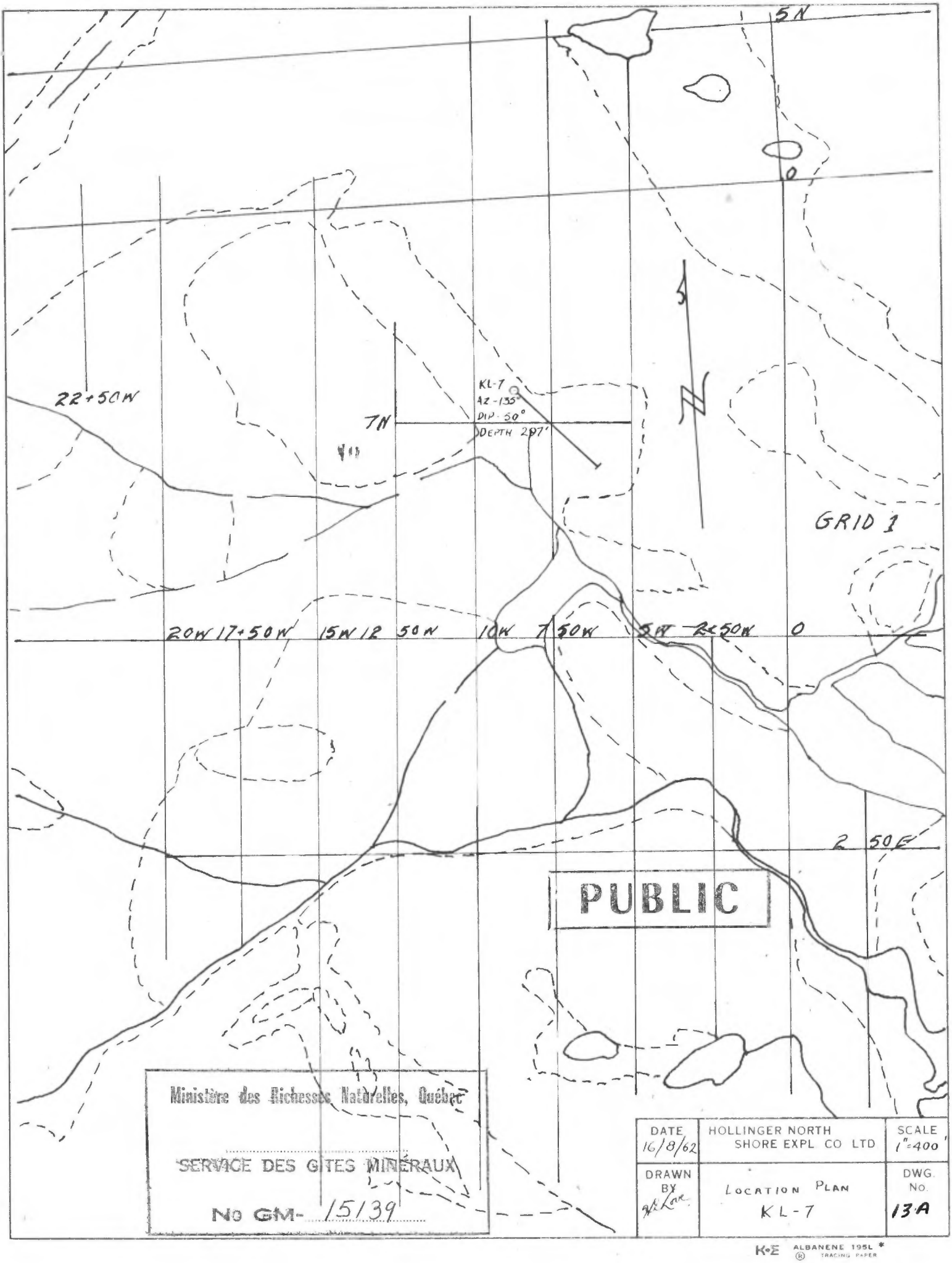
DATE: 19/7/62	HOLANNAH MINES LTD	SCALE: 1"=400'
DRAWN BY:	D.D.H. - K.L-3 LOCATION PLAN	8A

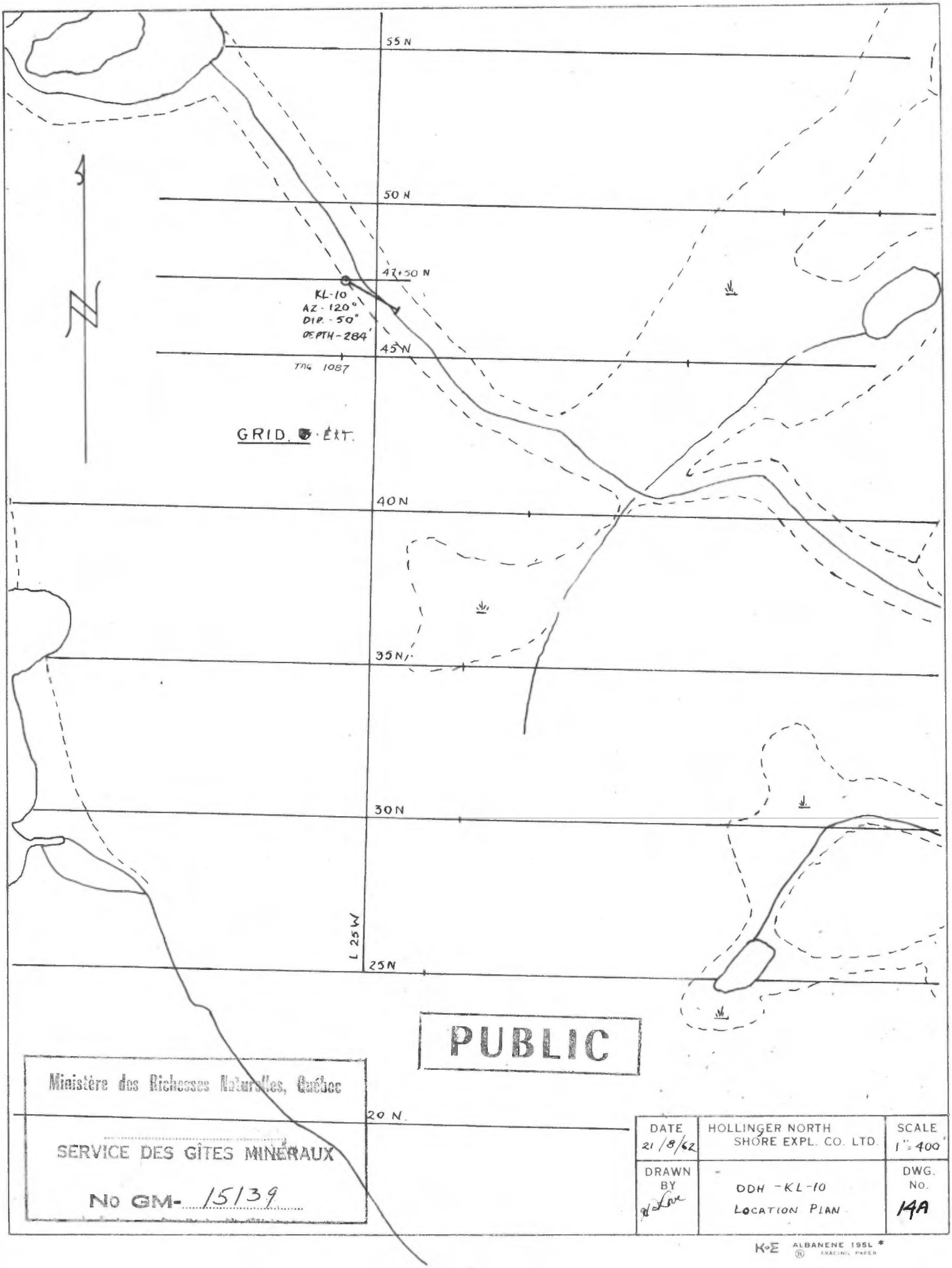



GRID No. 1
7S
2 50W
10W
7 50W
5W
2 50W
0
2 50E
7S
TAG
105°
KL-5
AZ.- 30°
DIP- 50°
DEPTH- 349'
Ministère des Richesses Naturelles, Québec
SERVICE DES GÎTES MINÉRAUX
No GM- 15139
PUBLIC
KOZELA LAKE
N
DATE 1/8/62
HOLLINGER NORTH SHORE EXPL. CO. LTD.
SCALE 1"-50'
DRAWN BY
DDH - KL-5
LOCATION
DWG. No. 10A

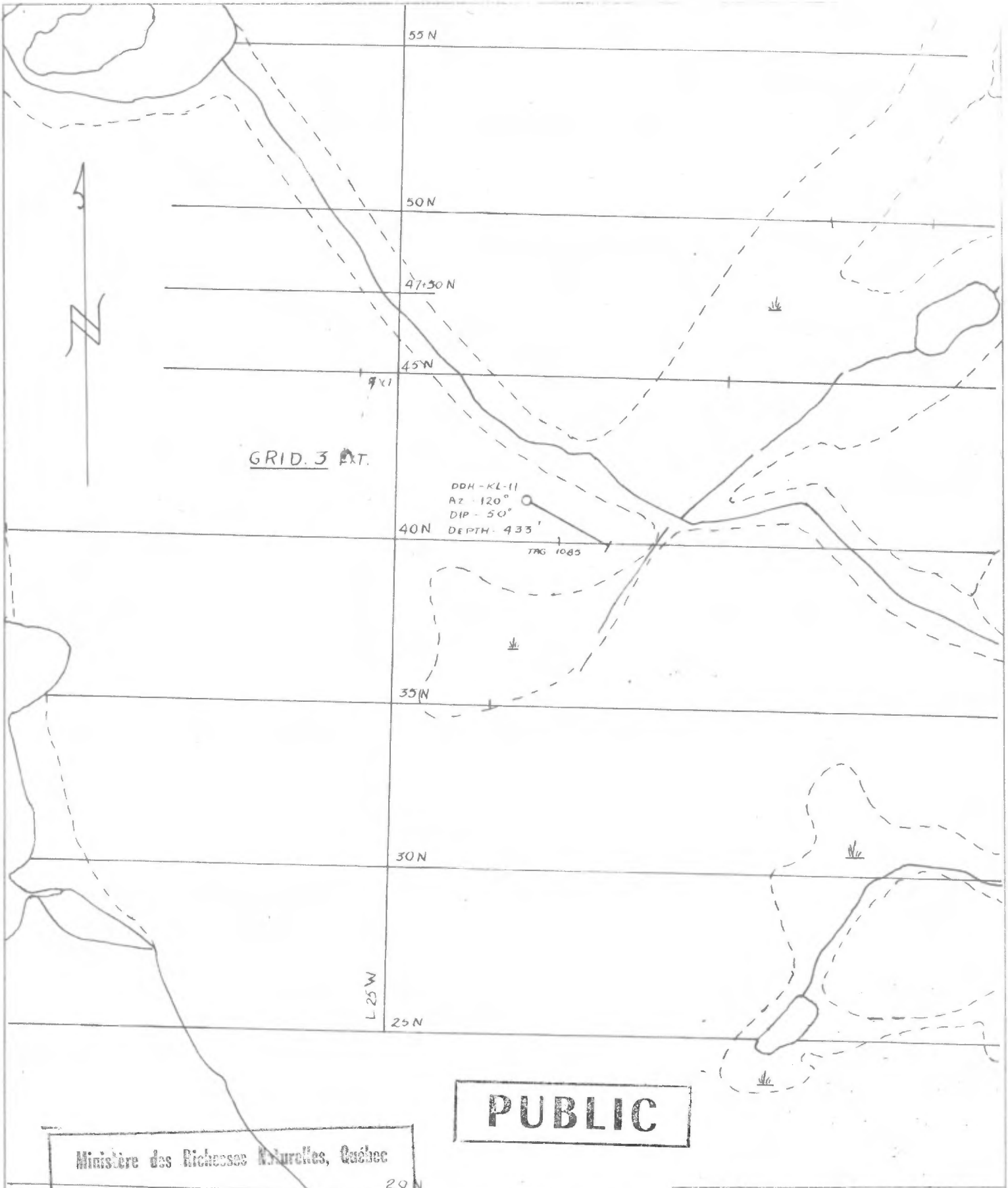

GRID No 2.
0
PUBLIC
Ministère des Richesses Naturelles, Québec
SERVICE DES GÎTES MINÉRAUX
No GM- 15139
GRID No. 1
L 0+00
0
5E
7+50E
10E
12+50E
15E
20E
25/E
L 0+00
2+50E
L.75
TAG 1039
KL-6
AZ-30°
DIP-50°
DEPTH-
435'
KOZELA LAKE
N
DATE 4/8/62
HOLLINGER NORTH SHORE EXPL. CO. LTD.
SCALE 1"=400'
DRAWN BY
DDH - KL-6
LOCATION PLAN
DWG. No. 11.A
K•E ALBANENE 1951 * ® TRACING PAPER


GRID No. 2
0
PUBLIC
Ministère des Richesses Naturelles, Québec
SERVICE DES GÎTES MINÉRAUX
No GM- 15139
GRID No. 1
0
L 0+00
5E
7+50E
10E
12+50E
15E
20E
25E
L 0+00
2+50E
L 7S
KL-14
A 2-55°
Dip-50°
Depth-395'
KOZELA LAKE
N
DATE 6/8/62
HOLLINGER NORTH SHORE EXPL. CO. LTD.
SCALE 1" = 400'
DRAWN BY
DDH - KL - 14
LOCATION PLAN
DWG. No. 12A
K+E ALBANENE 1961 *
TRACING PAPER



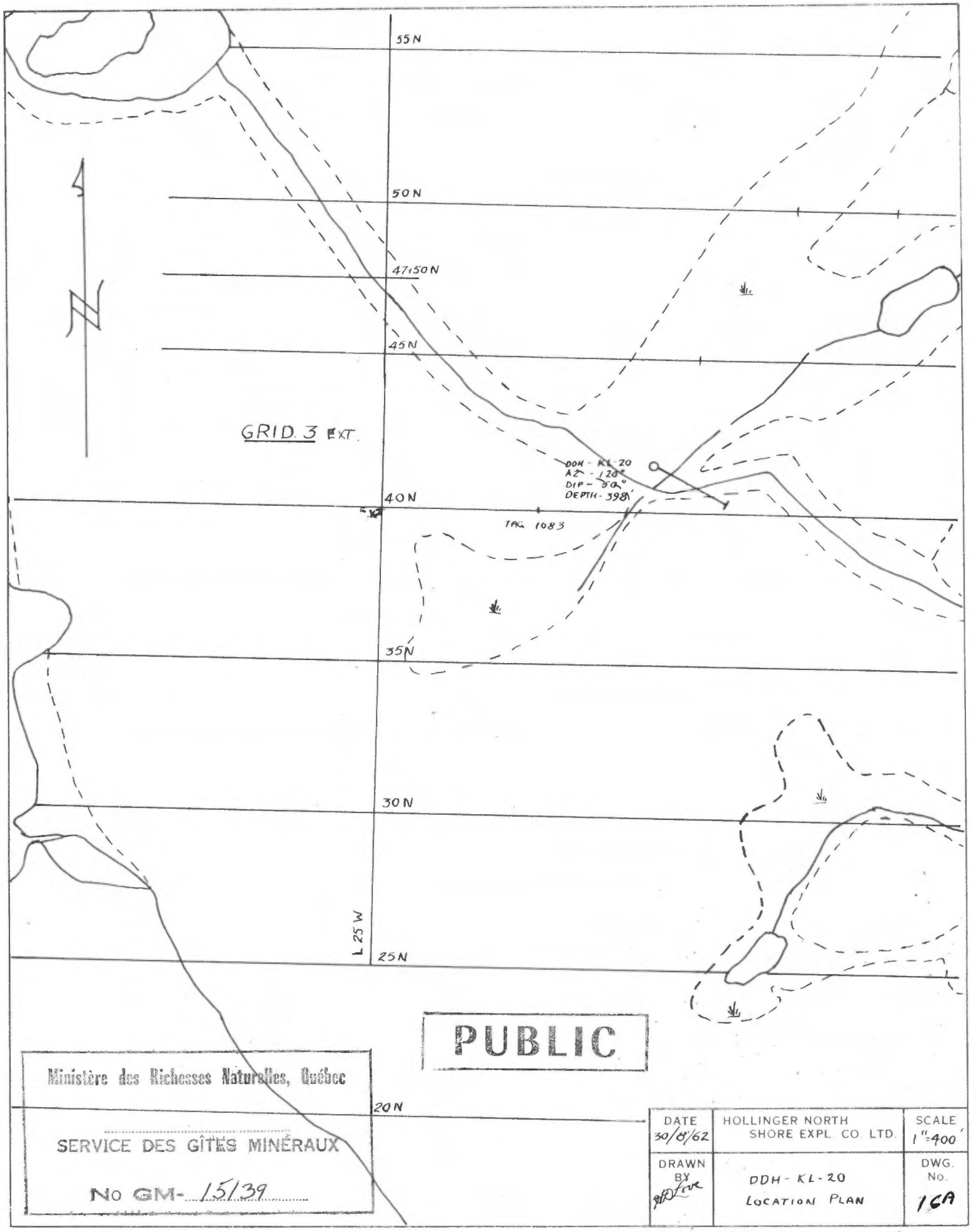


DATE	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE
21/8/62		1" = 400'
DRAWN BY	DDH - KL-10 LOCATION PLAN	DWG. No.
		14A



PUBLIC

DATE 27/8/62	HOLLINGER NORTH SHORE EXPL. CO. LTD	SCALE 1"=400'
DRAWN BY	DDH - KL-11 LOCATION PLAN	DWG. No. 13A

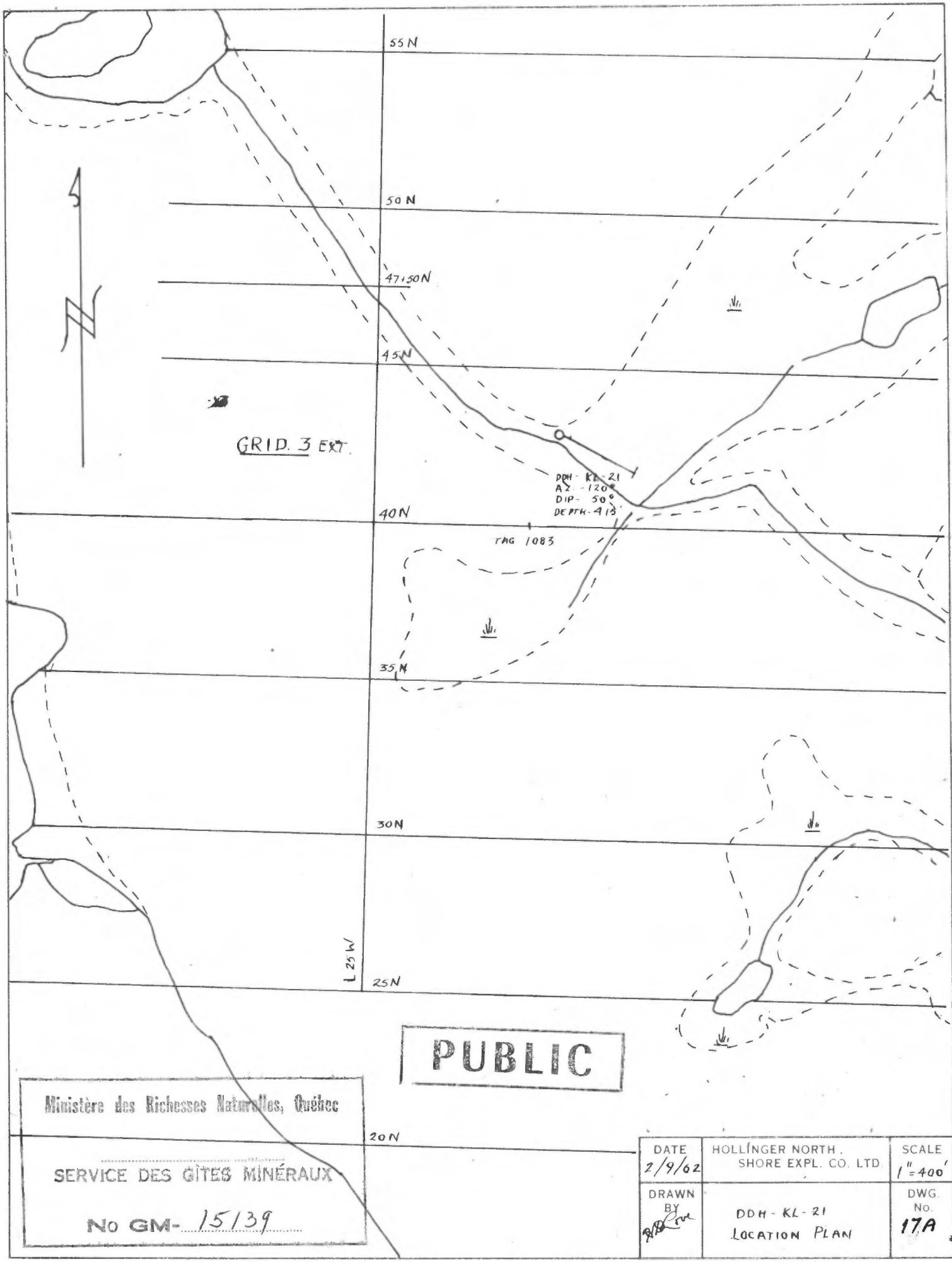


Ministère des Richesses Naturelles, Québec

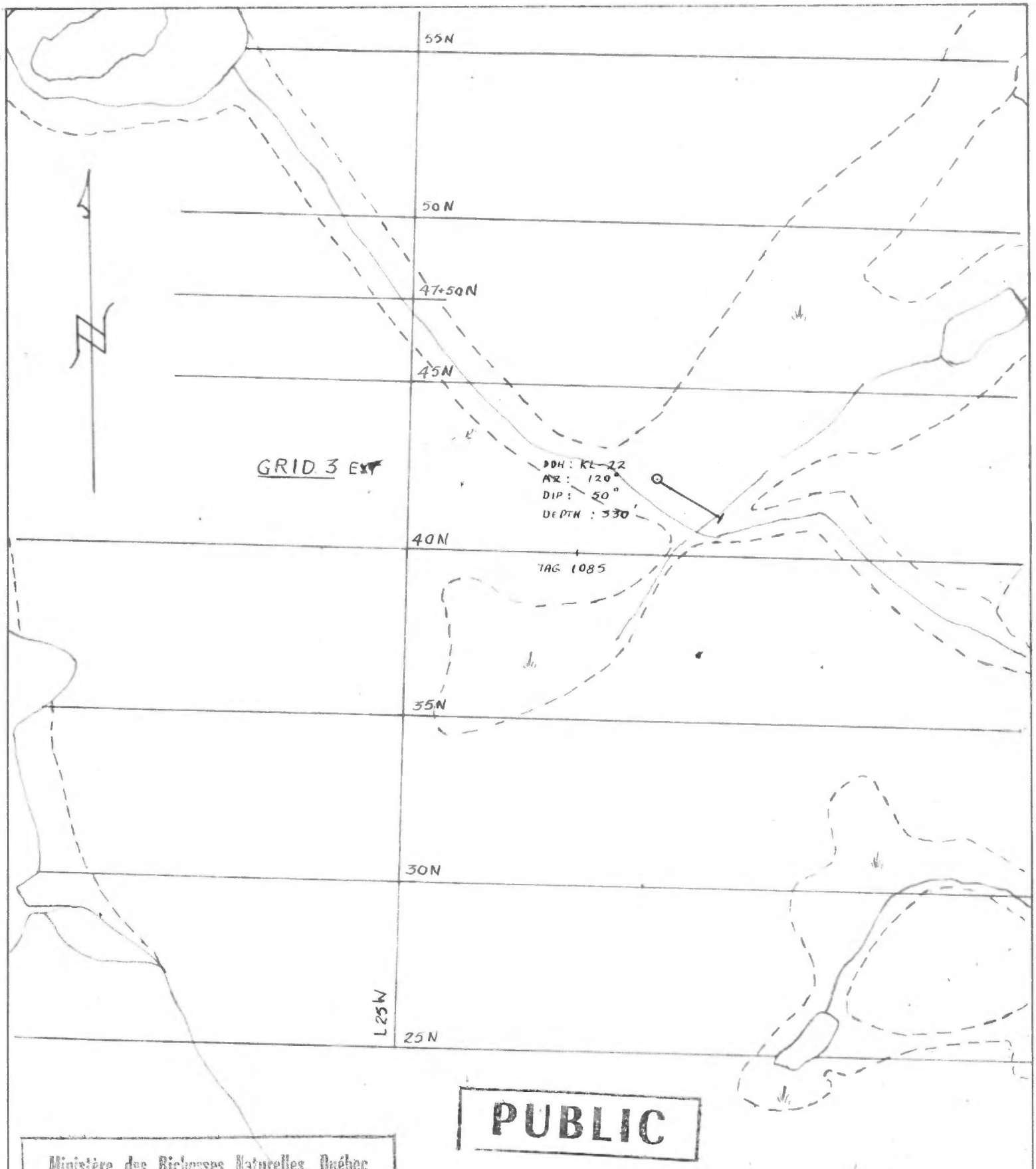
SERVICE DES GÎTES MINÉRAUX

No GM- 15139

DATE 30/8/62	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE 1"=400'
DRAWN BY	DDH - KL-20 LOCATION PLAN	DWG. No. 1CA



DATE 2/9/62	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE 1" = 400'
DRAWN BY	DDH - KL - 21 LOCATION PLAN	DWG. No. 17A



PUBLIC

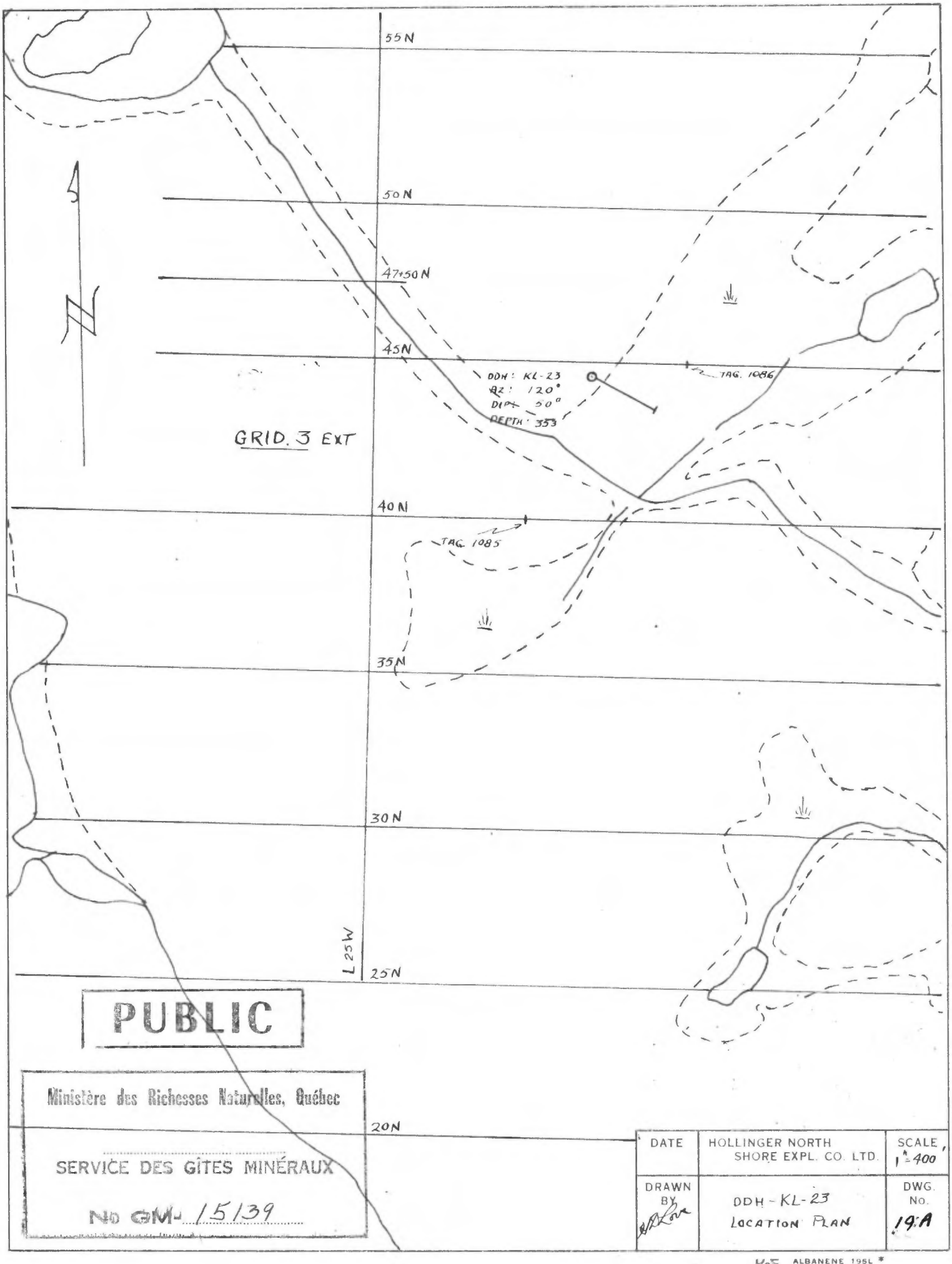
Ministère des Richesses Naturelles, Québec

SERVICE DES GÎTES MINÉRAUX

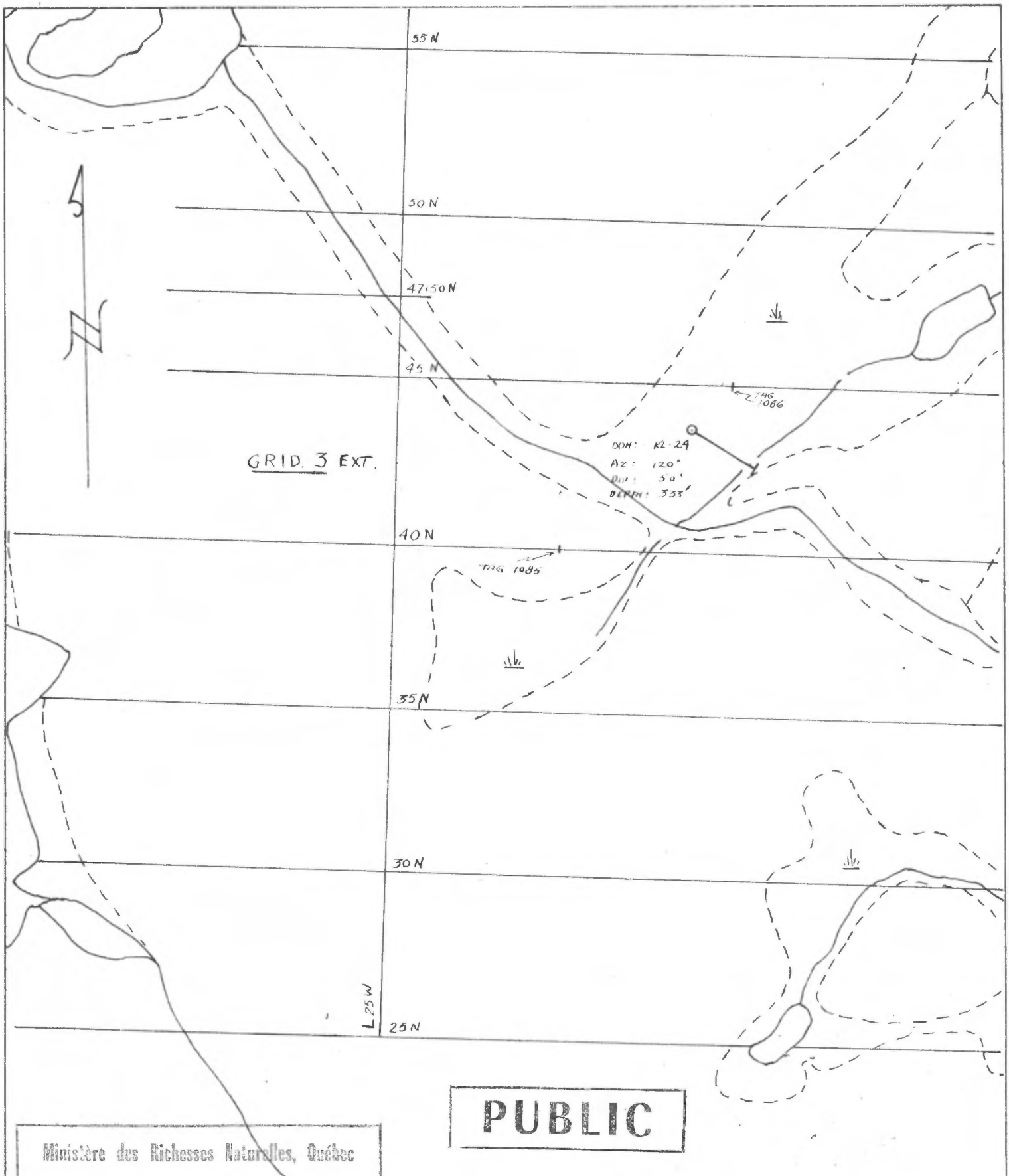
No GM- 15139

DATE	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE 1"=400'
DRAWN BY	DDH-KL-22 LOCATION PLAN	DWG. No. 18A

K&E ALBANENE 195L * TRACING PAPER



DATE	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE 1"=400'
DRAWN BY	DDH - KL-23 LOCATION PLAN	DWG. No. 19A



PUBLIC

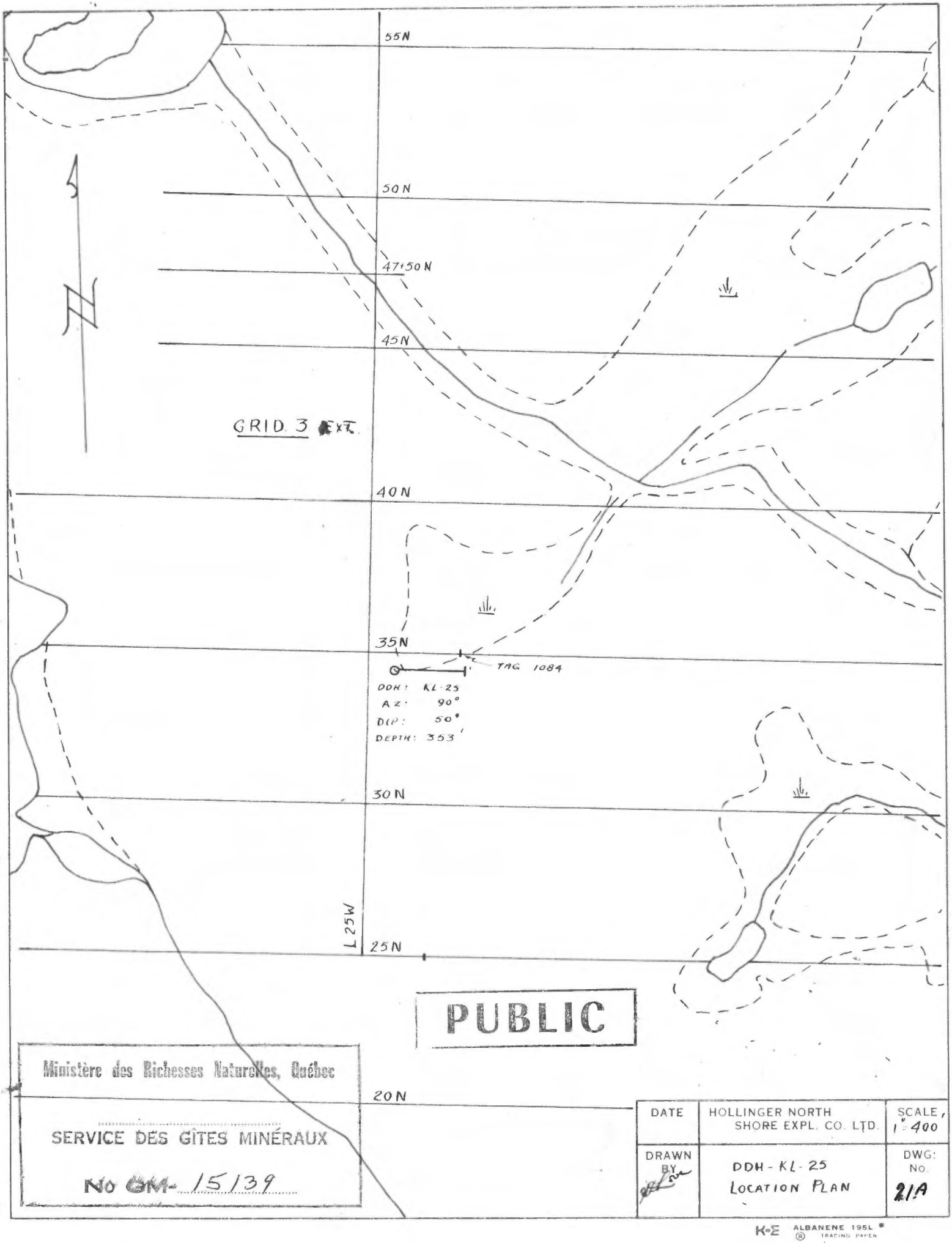
Ministère des Richesses Naturelles, Québec

SERVICE DES GÎTES MINÉRAUX

NO GM- 15139

DATE	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE 1" = 400'
DRAWN BY	DDH - KL-24 LOCATION PLAN	DWG No. 20A

K-E ALBANENE 195L * TRACING PAPER



PUBLIC

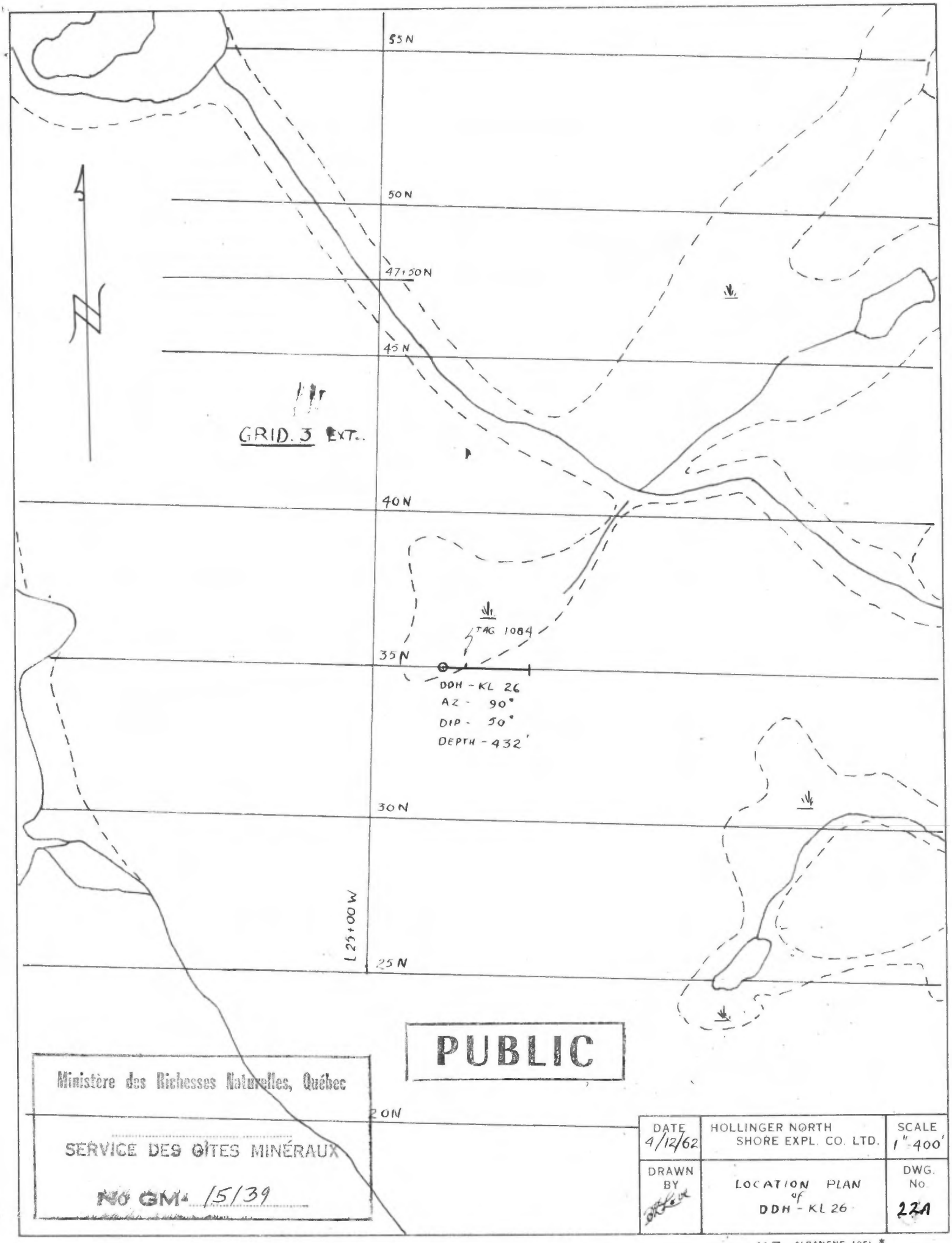
Ministère des Richesses Naturelles, Québec

SERVICE DES GÎTES MINÉRAUX

No GM- 15139

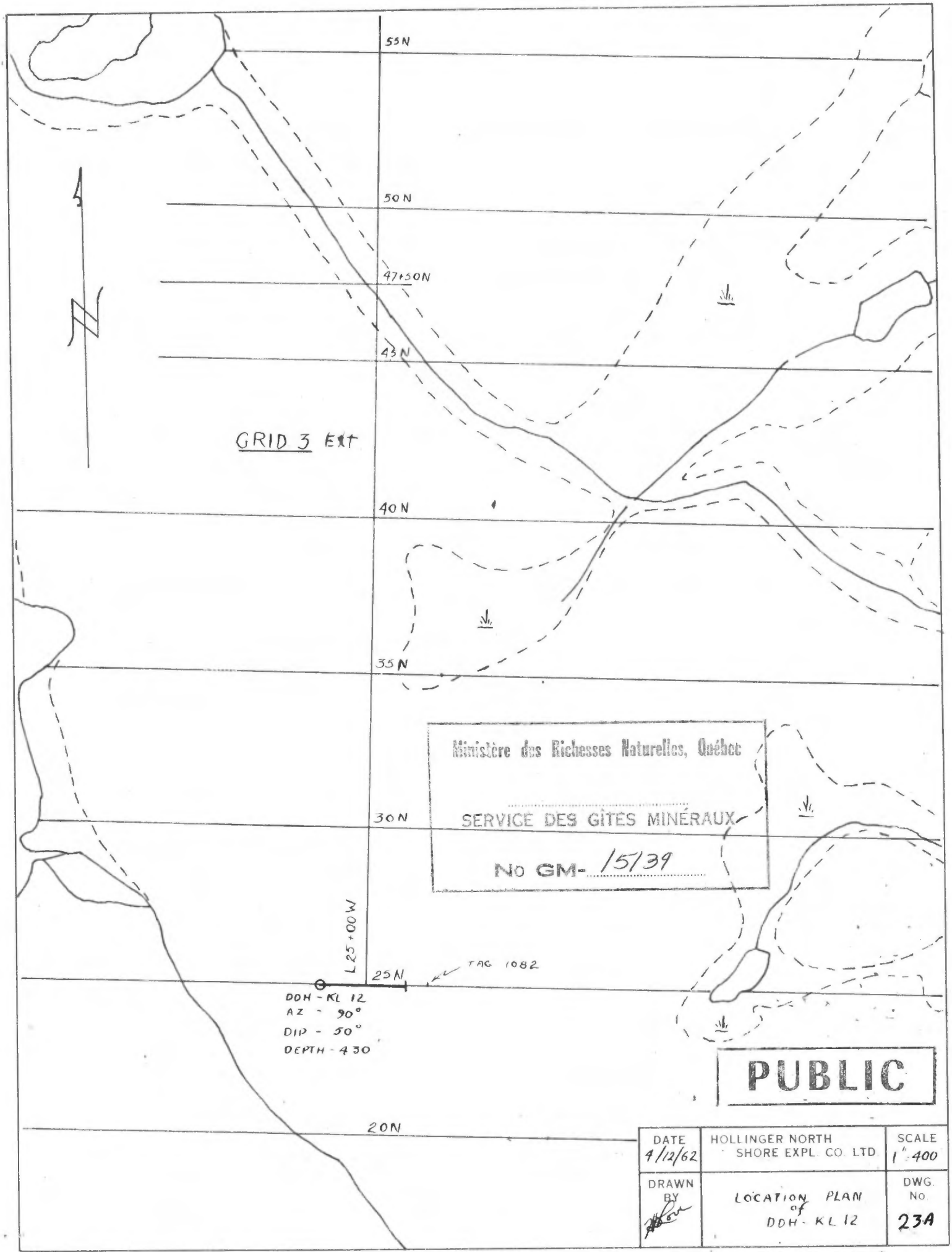
DATE	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE, 1" = 400
DRAWN BY	DDH - KL - 25 LOCATION PLAN	DWG: No. 21A

K&E ALBANENE 195L ® TRACING PAPER

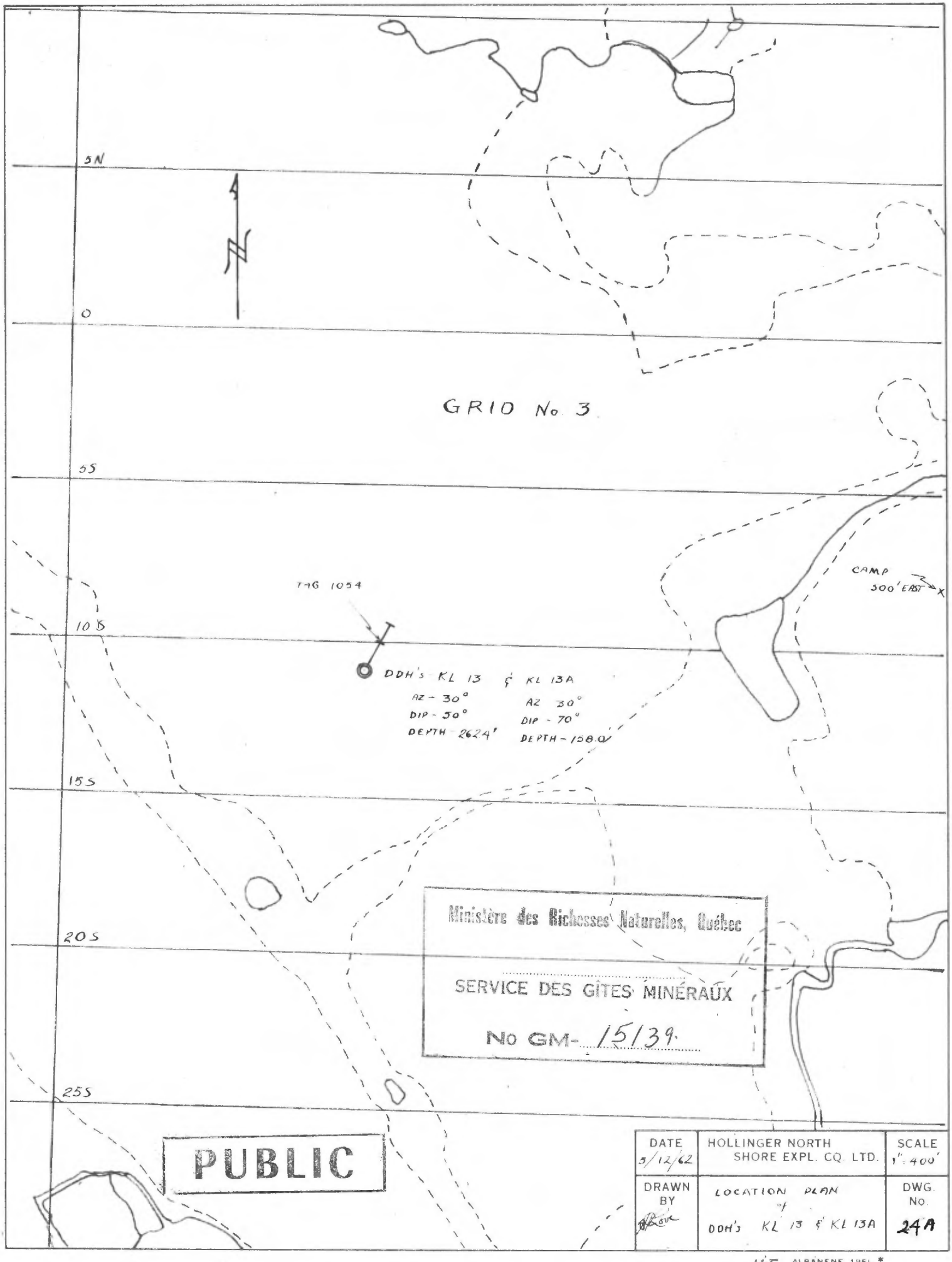


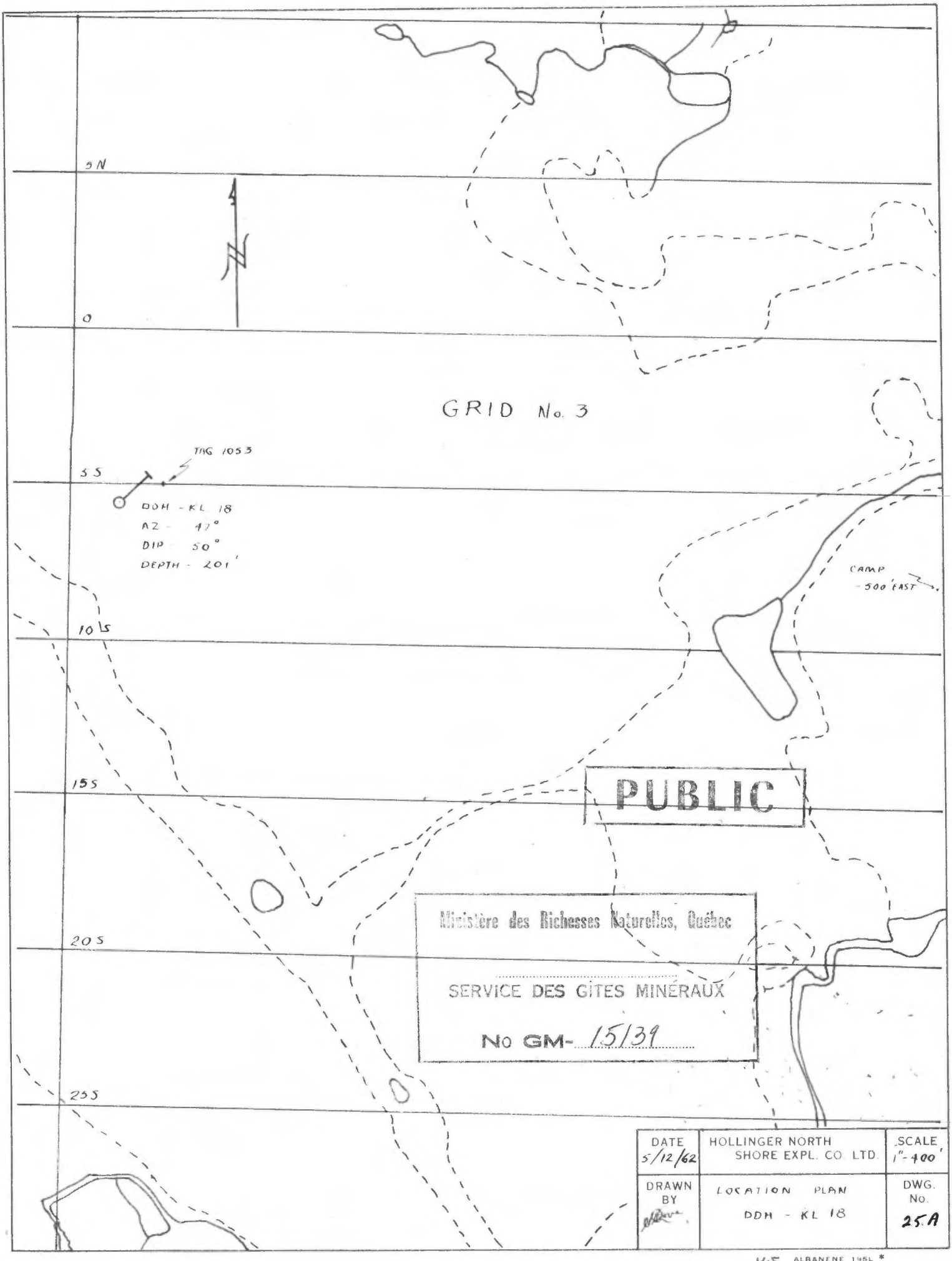
PUBLIC

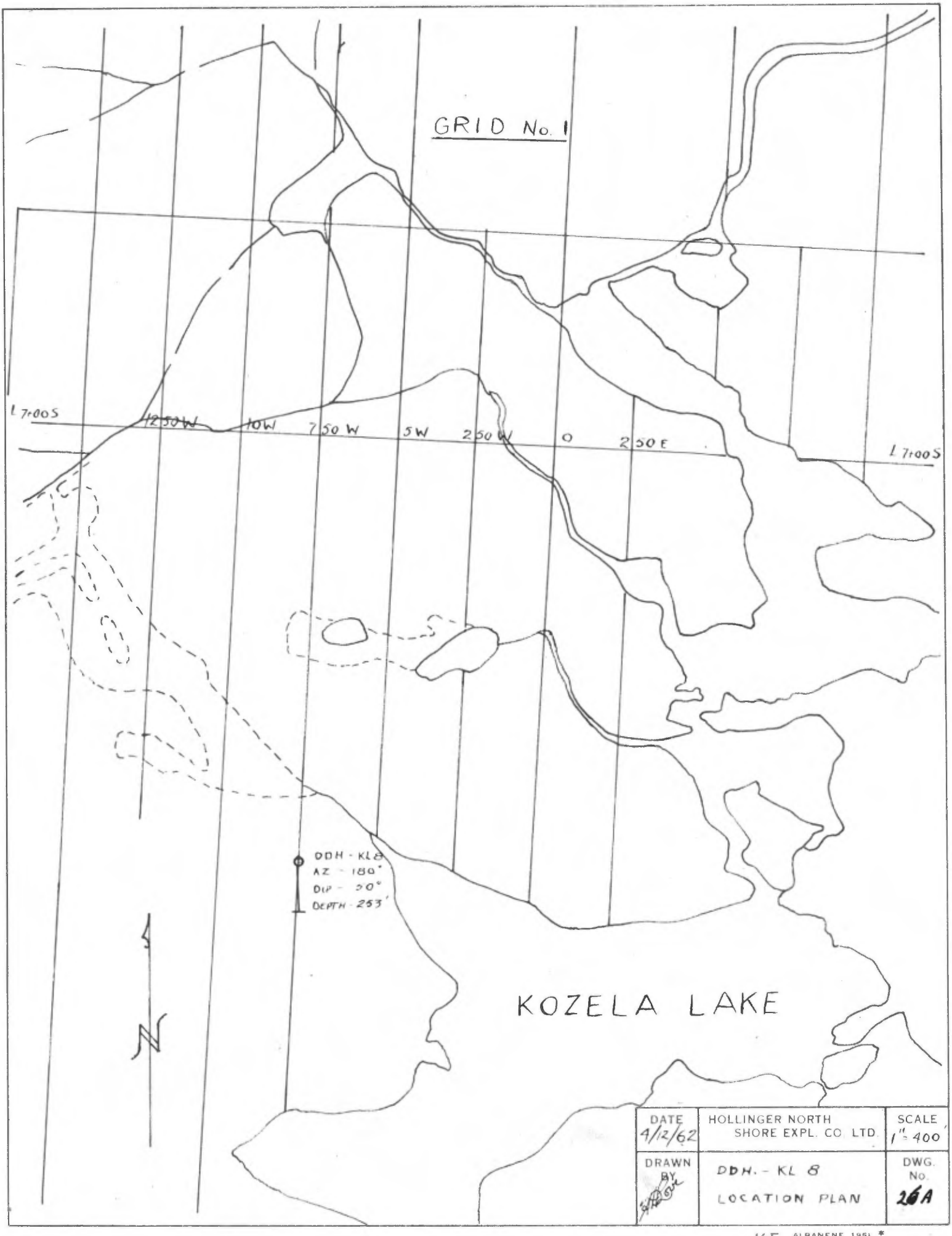
DATE 4/12/62	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE 1" = 400'
DRAWN BY	LOCATION PLAN of DDH - KL 26	DWG. No. 221



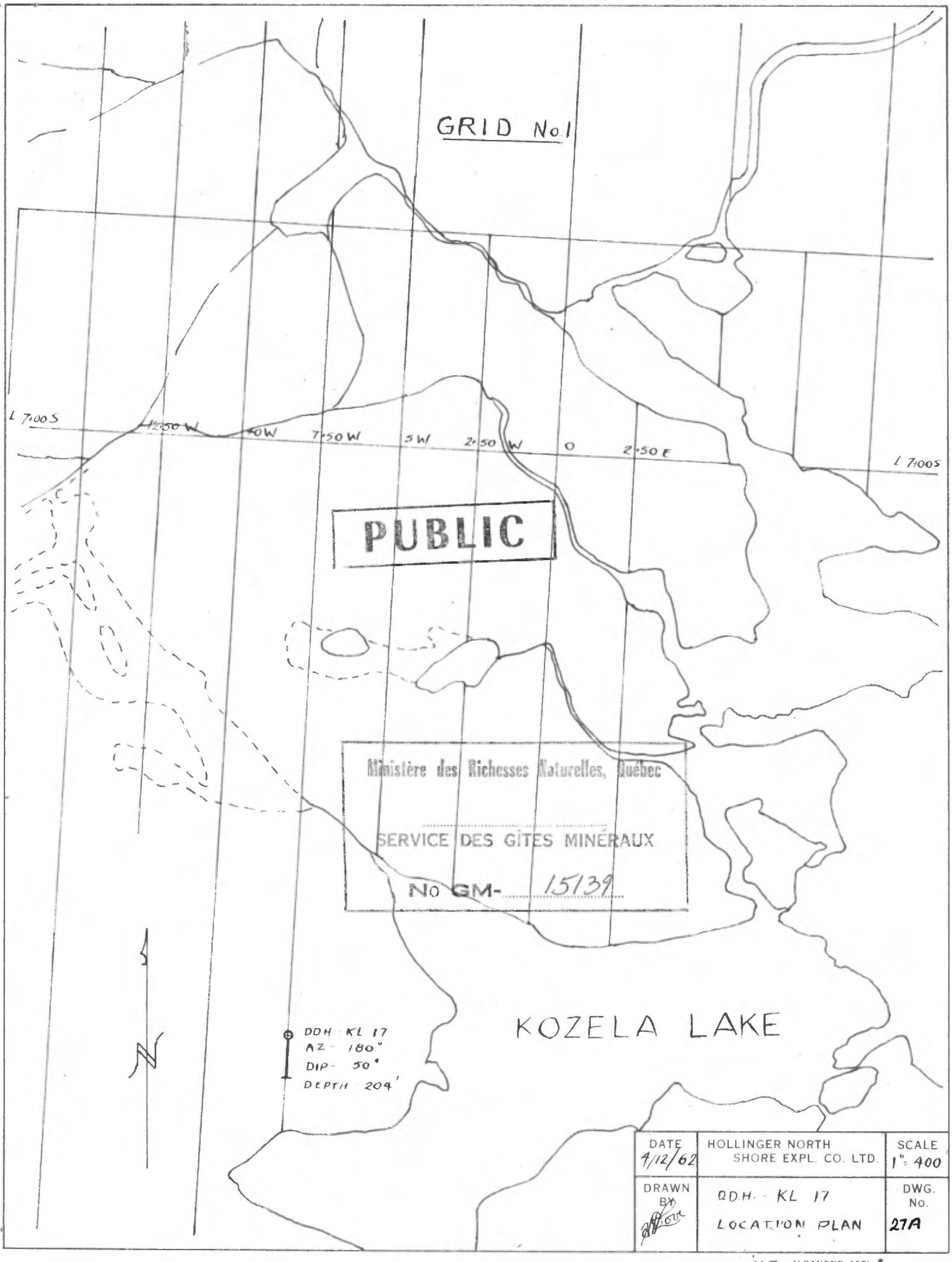
DATE 4/12/62	HOLLINGER NORTH SHORE EXPL. CO. LTD	SCALE 1" = 400
DRAWN BY	LOCATION PLAN of DDH - KL 12	DWG. No. 23A




5N
0
GRID No. 3
TAG 1053
5S
DDH - KL 18
AZ - 47°
DIP - 50°
DEPTH - 201'
CAMP
- 500' EAST
10S
15S
20S
25S
PUBLIC
Ministère des Richesses Naturelles, Québec
SERVICE DES GÎTES MINÉRAUX
No GM- 15139
DATE 5/12/62
HOLLINGER NORTH SHORE EXPL. CO. LTD.
SCALE 1"-400'
DRAWN BY
LOCATION PLAN
DDH - KL 18
DWG. No. 25A



DATE 4/12/62	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE 1" = 400'
DRAWN BY	DDH. - KL 8 LOCATION PLAN	DWG. No. 26A


GRID No 1
L 7+00S
1+50 W
0W
7+50 W
5 W
2+50 W
0
2+50 E
L 7+00S
PUBLIC
Ministère des Richesses Naturelles, Québec
SERVICE DES GÎTES MINÉRAUX
No GM- 15139
KOZELA LAKE
DDH KL 17
AZ - 180°
DIP - 50°
DEPTH 204'
N
DATE 4/12/62
HOLLINGER NORTH SHORE EXPL. CO. LTD.
SCALE 1" = 400
DRAWN BY
DDH - KL 17
LOCATION PLAN
DWG. No. 27A
K+E ALBANENE 1951 * TRACING PAPER

225' Az 210° from
TAG 1035
-
30°
50°

KOZELA LAKE
Grid No. 1

Hole Number: KL-1
Commenced: June 27, 1962
Finished: June 29, 1962
Depth: 341'
Logged By: H. D. Love

From	To	Description	Sample No.	From	To	Assay Results Cu	Ni	Zn	oz./ton	oz./ton Au	Width	Remarks
0'	7'	OVERBURDEN										96.5% Core recovery
7'	63'	QTZ-AMPHIBOLE-SCHIST-LAVA- Andesitic,-numerous stringers of Quartz & Calcite - f.g. - medium green in colour - traces of Cpy in places - banding or schistosity from 75°-80° to 55°-60° to core axis.										7'-12' -1.1' core lost 12'-15' -0.3' core lost
63.0'	64.5'	Sheared & altered contact between above amphibole schist and underlying rock.										
64.5'	69.9'	QTZ-Carbonate (50-50) with minor Mica rock - c.g. - only minor amts of white mica (Sericite) & some green mica (Fuchsite)-sugary Qtz in places shows green with green mica flakes or slips - dip to 10% in places - Cpy is evident throughout as Trace	B-2002	63.5'	69.9'	0.20	Nil	Nil	Tr.		6.3'	60-67.5'-0.5' core lost
69.9'	76.0'	Qtz-Mica-Schist- with minor carbonate -schistosity is @ 65° to core axis - spotted appearance in places with rhombic xtals of calcite-recrystallized? -Sulphides,disseminated-up to 25% in places,particularly along cleavage or fracture faces.	B-2003	69.9'	73.2'	0.07	Nil	Nil	Tr.		3.3'	
			B-2004	73.2'	76.0'	Tr	Nil	-	Tr		2.8'	

225' AZ 210°
from TAG 1035
-
30°
50°

KOZELA LAKE
Grid No. 1

Hole Number: KL-1
Commenced: 27/6/62
Finished: 29/6/62
Depth: min. 341'
Logged By: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu	Ni	Zn	oz./ton	oz./ton		Width	Remarks
76.0'	83.0'	Garnetiferous-Qtz-Mica-Schist to Gneiss-Schistosity or Gneissosity is @ 50° to core axis - a few quartz & carbonate (calcite)veins & stringers throughout- Sulphides-Po & Cpy disseminated up to 50% in places.	B-2005	76.0'	81.0'	0.04	Nil	Nil	Tr			5.0'	
83.0'	85.5'	Qtz-Carbonate (Calcite)-vein-only traces of Po.disseminated											
85.5'	86.0'	QTZ-Mica(Biotite) Schist with some Chlorite.											
86.0'	87.5'	Qtz-Calcite-with Mica appearing in last ½ foot. - only traces of sulphides.											
87.5'	93.0'	Qtz-Amp-Schist with Chlorite-minor amounts of mica(biotite) disseminated - numerous thin Qtz-Carb stringers - only traces of sulphides											
93.0'	96.0'	Qtz-Mica(Biotite)-Schist-v.f.g. Schistosity is @ 70° to core axis - 95.3'-95.7'-Qtz-Amp.-Schist with minor amts of biotite-Sulphides-Nil.											
96.0'	124.0'	Qtz-Amp-Schist-lava? - f.g., faintly laminated with Qtz &											

225'Az. 210°
from TAG 1035
-
30°
50°

KOZELA LAKE
Grid No. 1

Hole Number: KL-1
Commenced: 27/6/62
Finished: 29/6/62
Depths: 341'
Logged By: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu	Ni	Zn	oz./Au	oz./Ag		Width	Remarks
		calcite stringers parallel to Schistosity - Schistosity up to 80° to core axis -98.2'-98.4' and from 98.6'-99.0'-Qtz-Mica (Biotite) Schist to Gneiss with a few garnets. -112'-Calcite veinlet cutting core @ 20° to core axis - i.e. @ 90°-120° to Schistosity-traces of sulphides along fractures or cleavage planes											
124.0'	133.0'	Qtz-Carbonate(Calcite)-massive (50-50)- 125.5-127.5'-Spotted Qtz-Amp-Gneiss with Chlorite with traces (<5%) of sulphides (Po. Py) - 128.5'-129.0'-Qtz-Amp-Schist with banding @ 82° to core axis, and dissem. sulphides - 129.0'-129.3'-Qtz-Carb-Amp-Schist - 129.3'-131.0' Qtz-Amp-Schist with minor Qtz-Carbonate stringers.	B-2006	124.4'	127.5'	0.02	Nil	Nil	Tr		3.1'	
133.0'	144.0'	-133.0-136.0'-Qtz Carb with Amphibole Schist contains <5% -136.0'-144.0'-Almost massive Qtz-Carb with only minor amts of white and green mica	B-2007	137.9'	142.8'	0.02	Nil	-	Tr.		4.9'	
144.0'	149	Qtz-Carbonate with an increased amount of impurities-i.e.amph. mica. Schistose in places with										

225'Az. 210°
from TAG 1035
-
30°
50°

KOZELA LAKE
Grid No. 1

Hole Number KL-1
Commenced: 27/6/62
Finished: 29/6/62
Depth 341'
Logged By H.D. Love

Description	From	To	Assay Results					Width	Remarks
schistosity @ 65° to core axis									
149.0"171.5' QTZ-Amphibole-Schist with minor mica - Feldspar? -f.g.-med.g.,green in colour -banding or schistosity @ 60° to core axis - fractures occurring at angles usually a little greater than 90° to schistosity. Schistosity varies in places to about 20° to core axis, particularly after 168.0' -169.0'-169.4'-Qtz-Carb veinlet with minor Talc and pink felds-par? - a trace of pyrite. -169.7'-171.5'-Qtz-Carb-veinlet with Biotite Mica at contact & some Talc, dissem., plus a few long slender fibres of silver-grey metallic molybdenite.	B-2008	169.7'	171.5'	Tr	Nil	Nil	Tr.		1.8'	
171.5' 186.0'- 171.5'-174.0'-Qtz-Carb-Amph Schist (60° to core axis) with mica and talc-fractures @ 70° to schistosity - m.g. to c.g.- transitional zone - trace of sulphides -174.0'-186.0'-Qtz-Mica-Schist with Garnets in places - Schistosity @ 50-55° to core axis - traces of sulphides along fracture faces.									

Latitude: 225' Az.210°from
Departure: TAG 1035
Elevation: -
Azimuth: 30°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE
Grid No. 1

Hole Number: KL-1 (5)
Commenced: 27/6/62
Finished: 29/6/62
Depth: 341'
Logged By: H.D. Love

From	To	Formation	Sample No.	From	To	Core Samples % Cu	%Ni	%Zn	%Pb	oz Au	oz.Ag	Width	Remarks
186.0'	187.5'	Qtz-Amp-Schist-intrusive (gabbroic)? - m.g. to c.g. - Schistosity @ 50°-55° to core axis.											
187.5'	187.8'	QTZ-Mica (Biotite)-Schist or Gneiss with stretched Garnets- v.f.g.											
187.8'	190.0'	Garnetiferous-Qtz-Amp-Biotite (50-50) Schist											
190.0'	192.0'	QTZ-AMP-BIOTITE-SCHIST (70-30) - med. to dk green;Schistosity @55° to core axis - minor sulphides assoc with a Qtz-Carb veinlet.											
192.0'	194.0'	Qtz-Amp-Schist-intrusive - med. green in colour - numerous Qtz-Carb. stringers - Sulphides - Nil											
194.0'	207.0'	Qtz-Amp-Chlorite-Gneiss (Gabbroic) - almost massive in appearance - trace of Po, Py & Cpy throughout	B-2009	199.7'	205.8'	Tr	Nil	Nil	Tr			4.1'	

Latitude: 225' Az. 210°
Departure: from TAG 1035
Elevation: -
Azimuth: 30°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE
GRID No. 1

Hole Number: KL-1
Commenced: 27/6/62
Finished: 29/6/62
Depth: 341'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Core Samples % Cu	%Ni	%Zn	%Pb	oz.Au	oz.Ag	Width	Remarks
207.0'	210.1'	QTZ-Carb (Calcite) Mica (Sericite?) Schist- white to grey in colour - appearing grey cherty in places- up to 5% Py.,Po.& trace of Cpy in places	B-2010	207.0'	210.1'	0.04	Nil	-	Tr			3.1'	
210.1'	217.5'	Spotted Qtz-Amp-Chlorite-Gneiss-(Gabbroic)- faintly schistose @ 216.0' with appearance of biotite - schistosity is @ 60° to core axis											
217.5'	225.0'	QTZ-Carb(Calcite)-Mica(Sericite) Schist - up to 5% dissem. Sulphides in places	B-2011	218.2'	224.4'	0.03	Tr	Nil	Tr			6.2'	
225.0'	245.0'	Qtz-Amp(Hb)-Schist-lava? - very faintly banded @ 60°to core axis - appears massive from 231.0'-245.0'- only a few Qtz-Carb-veinlets in latter portion - Sulphides-Nil											
245.0'	248.5'	Qtz-Amp-Chlorite-Gneiss (Gabbroic)-faintly banded - Sulphides - Nil											
248.5'	253.8'	Qtz-Mica(Sericite?)-Talc-Schist- with a few garnets-banding @ 65°	B2012	249.1'	253.8'	0.01	Nil	-	Tr			4.7'	

Latitude: 225' Az. 210°
Departure: from TAG 1035
Elevation: -
Azimuth: 30°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE
Grid No. 1

Hole Number: KL-1
Commenced: 27/6/62
Finished: 29/6/62
Depth: 341'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Core Samples % Cu	%Ni	%Zn	%Pb	oz.Au	oz.Ag	Width	Remarks
248.5' (cont'd)	253.8'	to core axis. - trace of Py., Po.	B-2012	249.1'	253.8'	0.01	Nil	-	Tr			4.7'	
253.8'	261.0'	QTZ-AMP-Chlorite-Schist to Gneiss - banding @ 65° to core axis - from 50-60% mafic minerals											
261.0'	263.0'	Qtz-Carbonate(Calcite)veinlet with Py, Po along fractures.											
263.0'	274.5'	Similar to above (253.8'-266.0') faintly banded with biotite - a few Qtz-Carb stringers - sulphides dissem. along fractures.											
274.5'	283.0'	Similar to above-increase in banding to 65°-70° to core axis with an increase number of calcite stringers.											
283.0'	294.0'	Qtz-Amp-Chlorite Gneiss - faintly banded - bluish staining along some fracture faces - Sulphides - Nil											
294.0'	298.0'	Massive Qtz-Carb (Calcite) zone with minor Mica(Sericite) trace of sulphides - <5%											

Latitude: 225' Az. 210°
Departure: from TAG 1035
Elevation: -
Azimuth: 30°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE
Grid No. 1

Hole Number: KL-1
Commenced: 27/6/62
Finished: 29/6/62
Depth: 341'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Core Samples % Cu	%Ni	%Zn	%Pb	oz.Au	oz.Ag	Width	Remarks
298.5'	304.5'	Qtz-Amph-Schist - lava? Biotite present @ contacts Sulphides - Nil.											
304.5'	308.0'	Qtz-Mica(Sericite)- with minor Amphibole and Carbonate											
308.0'	341.0'	Qtz-Amp-Chlorite-Gneiss - (Gabbroic) - faintly banded 312.5'-316.9'-Qtz-Carb-Mica (Sericite) Schist with minor Amphiboles - up to 5% Sulphides 319.7'-322.1'-Qtz-Carb-Zone with Sericite and some Biotite - Cpy mineralization along small fractures - < 5% 330.0'-332.5' - Qtz-Carb-Mica-Schist - only trace of sulphides.	B-2013	312.9'	316.9'	Tr	Nil	Nil	-	Tr		4.0'	
			B-2014	319.7'	322.1'	Tr	Tr	-	-	-		2.4'	
	341.0'	END OF HOLE											

Latitude: 50' Az. 270°
Departure: from TAG 1035
Elevation: -
Azimuth: 30°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE
Grid No. 1

Hole Number: KL-2
Commenced: 30/6/62
Finished: 2/7/62
Depth: 356'
Logged By: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu	Ni	Zn	oz.Au	oz.Ag	Fe	Width	Remarks
0'	6'	OVERBURDEN											94.4% core recovery
6'	23.7'	QTZ-AMP-SCHIST TO GNEISS-with Chlorite - f.g.-m.g., green in colour- banding is @ 30°-40° to core axis- Fe staining (leaching & oxidation) on fracture faces (essentially parallel to schistosity) - traces of Py, Po along fracture and accompanying carbonate veinlets and stringers.-lava	B-2027	12.0'	18.0'	0.04'	Nil	Nil	Nil			Sludge 6.0'	- 6'-10' - 2.2' core lost 12.5'-18.5-1.0' " " 18.5'-23.5'-2.5'" " 23.5'-28.5'-4.0'core lost
23.7'	30.5'	QTZ-CARB-MICA-SCHIST-calcite xtals;green mica & biotite -schistosity @45°to core axis -calcite xtals appearing as secondary rhombs in biotite zones. - Up to 5% sulphides disseminated.	B-2015	23.7'	30.5'	0.29	Tr	-	Tr			6.8'	32.5'-38.0'-2.0'core lost
30.5'	34.5'	Qtz-Carb-vein-up to 33.0'-75% Qtz; after 33.0'- %Calcite >% Qtz - minor inclusions of mica (Biotite & green mica) - up to 25% sulphides(Po,Py & Cpy) in placex.	B-2016	30.5'	34.5'	0.39	Nil	-	Tr			4.0'	
			B-2028	32.0'	38.0'	0.12	0.01	Nil	Tr			Sludge 6.0'	
34.5'	39.7'	QTZ-CARB-SCHIST to GNEISS - with Garnets - tourmaline xtals, green mica, & magnetite(30%) i.e. very magnetic up to 38.5' Garnets fringed by a green	B-2017	34.5'	39.7'	0.17	Tr				16.32	5.2'	

50' Az. 270°
from TAG 1035
-
30°
50°

KOZELA LAKE
Grid No. 1

KL-2
30/6/62
2/7/62
356'
H.D. Love

	chloritic mineral - Sulphides disseminated up to 35% (Cpy.Po,Py) in places.										
39.7'	44.2'	Garnetiferous,Qtz-Mica-Gneiss to Schist - garnets very small- from almost white to pale pink in colour - very grey in places (grey chert?)- mica,mainly white mica (Sericite?) plus biotite - from 40.0' to 40.2' & from 42.0' to 47.3' quite cherty to slaty - >50% Sulph. in slaty portions - 20-30% Po, Py & Cpy in others.	B-2018	39.7'	44.2'	0.10	Tr	Nil	Tr		4.5'
			B-2029	38.0'	48.0'	0.10	Tr	Nil	Tr	Sludge	10.0'
44.2'	49.0'	Similar to above with garnets being fringed or zoned with (or contained in) quartz xtals, but further surrounded by a pale green brittle mineral. - gneissosity is @ 50° to C.A.									
49.0'	59.5'	QTZ-BIOTITE-SCHIST to GNEISS - Qtz veinlets from 54.0'to54.4' & from 54.6' to 55.0' - only traces of sulphides									
59.5'	63.0'	Well banded QTZ-CARB-MICA(mainly biotite, and some green mica) - banding is @ 40° to core axis									
63.0'	80.3'	QTZ-AMP-SCHIST - lava? v.f.g.,									

48.3' - 60.0' - 1.7'core lost

50' Az. 270°
from TAG 1035
-
30°
50°

KOZELA LAKE
Grid No. 1

Hole Number: KL-2
Commenced: 30/6/62
Finished: 2/7/62
Depth: 356'
Logged By: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu	Ni	Zn	oz. Au	oz. Ag		Width	Remarks
		thinly laminated with a few quartz or carbonate veinlets - Schistosity up to 60° to core axis.											
80.3'	83.8'	Qtz-Mica-Schist with Calcite plus minute Garnets(stretched) - sulphides along fractures & some cleavage planes - greyish to cherty?											
83.8'	85.1'	Qtz-Amp-Schist-lava? or ~~in-~~ SED IMENTARY trusive? - m.g., with long slender Amphibole (Hb) xtals in a haphazard arrangement along places of schistosity.											
85.1'	91.0'	Qtz-Mica-Schist with Carb - grey to cherty.											
91.0'	92.0'	Qtz-Amp-Mica-Schist - med. to dark green-brown (with Biotite) - contact zones - Sulphides- Nil.											
92.0'	98.8'	Qtz-Carb-Schist-Zone-with bands of amphibole and some biotite. - a few dissem. sulphides - < 5%	B-2019	93.0'	98.8'	0.10	Nil	-	Nil			5.8'	
98.8'	118.3'	Qtz-Amp-Schist with white mica (sericite?) - banded with Qtz-Carb veinlets @ 60° to 80° to core axis.-f.g.-Sulphides-Nil	B-2030	91.0'	101.0'	0.05	-	-	Tr			Sludge 10.0'	Loss of water @ 97' - rods sticking at this point - caving of a fracture zone?

50'Az. 270°
from TAG 1035
-
30°
50°

KOZELA LAKE
Grid No. 1

Hole Number: KL-2
Commenced: 30/6/62
Finished: 2/7/62
Depth: 356'
Logged By: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu	Ni	Zn	oz./Au	oz./Ag		Width	Remarks
118.3'	122.3'	Banded Qtz-Mica-Schist to Gneiss - with Biotite and Talc, plus a few garnets- banded @ 75° to 80° to core axis - traces of sulphides along cleavage planes - mainly Po, Py.	B-2020	118.3'	122.3'	0.05	Nil	Nil	Nil			4.0'	
122.3'	132.5'	Qtz-Amp-Schist to Gneiss - minor biotite - Schistosity @ 60° to core axis -126.0' to 130.5'-Qtz-Amp-Chlorite-Gneiss (gabbroic?) - Sulphides - Nil											
132.5'	134.0'	Qtz-Carb with pink Feldspar? Veinlet-pegmatite-cutting core @ 30° to core axis or at an angle > 90° to schistosity of host rock.- up to 5% sulphides in places.											
134.0'	180.5'	Qtz-Amp-Chlorite-Schist with flakes of Biotite disseminated Lava? or altered Intrusives? - Schistosity is @ 50°-60° to core axis 140.0'-140.8'-Qtz vein, traces of Cpy & Po at contact. 144.0'-145.0'-gneissic(Gabbro) Qtz-Amp-Chlorite with Biotite on extremities - 146.0'-148.0' Qtz-veinlet with minor inclusions amphibole & sulphides.											

50' Az. 270°
from TAG 1035
-
30°
50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE
Grid No. 1

Hole Number: KL-2
Commenced: 30/6/62
Finished: 2/7/62
Depth: 356'
Logged By: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu	Ni	Zn	oz./Au	oz./Ag		Width	Remarks
		158.8'-159.3'-Qtz-Hb-Schist with traces of sulphides along cleavage planes - 160.5'-162.0' altered Garnetiferous Qtz-Biotite-Schist, interbanded with f.g. Qtz-Amphibole-Schist 164.0'-170.5'-lava? Qtz-Amp-Biotite- Gneiss to Schist with a few garnets - grey on dry surface - greenish on wet. Sulphides dissem. - <5% 173.0'-178.0'-Gneissic Qtz-Chlorite-Amph with carbonate veinlets - 178.0'180.0'- Gneissic to Schistose Qtz-Chlorite-Amphibole(Hb) Zone.	B-2021	164.4'	170.1'	0.04'	Nil	Nil	Nil		6.7'	
180.5'	182.5'	Qtz-Biotite-Garnet-Gneiss - minor carbonate-gneissosity @ 65° to 70° to core axis - traces of sulphides.											
182.5'	197.0'	Qtz-Carb-Mica (Sericite) - with minor Biotite - Gneiss to Schist - up to 5% sulph. (Py,Po & Cpy)	B-2022	182.4'	192.9'	0.07	Nil	Nil	Tr		10.5'	
			B-2023	192.9'	197.3'	0.09	Tr	Nil	Tr		4.4'	
197.0'	201.5'	Qtz-Amphibole-Schist - lava? -disseminated flakes or slips of biotite - up to 5% sulph. throughout.											
201.5'	205.0'	QtzCarb-zone with minor amph. & biotite - traces of sulphides throughout.											

50' Az. 270°
from TAG 1035
-
30°
50°

KOZELA LAKE
Grid No. 1

Hole Number: KL-2
Commenced: 30/6/62
Finished: 2/7/62
Depth: 356'
Logged By: H.D. Love

From	To	Formation	Sample No	From	To	Assay Results Cu	Ni	Zn	oz/ton	oz/Ag	Width	Remarks
205.0'	215.0'	Qtz-Amp-Schist- lava? - f.g.; grey-green in colour-banding @ 50°-55° to core axis - traces of sulphides throughout										
215.0'	216.4'	Qtz-Carb-Mica(Sericite)-Schist Sulphides - Nil										
216.4'	218.0'	Qtz-Chlorite-Amp-Gneiss to Schist (Gabbroic) with minor Biotite										
218.0'	219.0'	Qtz-Carb-veinlet-with Biotite, Amph, Talc-plus long slender needles of silver grey metallic molybdenite.										
219.0'	263.5'	Qtz-Chlorite-Amp-Gneiss(Schistose in places)(gabbroic origin) - gneissosity is @ 60°to 65° - biotite @ contacts - traces of sulphides throughout										
263.5'	270.5'	Well banded-Qtz-Mica-Garnet-Gneiss to Schist - Sulphides disseminated from 5-10%	B-202	4262.9'	268.9'	0.02	Nil				6.0'	
270.5'	288.0'	above gradational into a f.g. thinly - lava- laminated (with carbonate stringers) - Qtz-Amp-Schist-Chlorite? - traces of sulphides throughout.										

50' Az. 270°
from TAG 1035
-
30°
50°

KOZELA LAKE
Grid No. 1

Hole Number: KL-2
Commenced: 30/6/62
Finished: 2/7/62
Depth: 356'
Logged By: H. D. Love

From	To	Formation	Sample No.	Assays Cu	Assays Ni	Assays Zn	Assays oz. Ag	Assays	Width	Remarks
288.0'	290.0'	Qtz-Mica-Schist-banding @ 60° to core axis.-Sulphides-Nil								
290.0'	296.2'	QTZ-Chlorite-Amp-Gneiss to Schist (gabbroic)-Garnets present ;in lower contact.								
296.2'	299.0'	Qtz-Mica-Schist-well banded - with Amp - f.g.;-grey on dry surface, green on wet. - banding @ 50° to core axis -Sulphides dissem. - <5%	B-2025	296.3'	298.9'	0.02	Nil		2.6'	
299.0'	307.5	Qtz-Chlorite-Amp-Gneiss to Schist (gabbroic?) - Schistosity @ 75° to core axis - only traces of sulphides								
307.5'	310.5'	Qtz-Mica-Schist with minor Amphibole at contacts								
310.5'	338.0'	Qtz-Amp-Schist with minor Chlorite-a few garnets (intrusive?) - traces of sulphides.								
338.0'	356.0'	Qtz-Mica-Schist- well banded, grey to almost white in colour 340.0'-341.5-Qtz-Chlorite-Amp-Schist to Gneiss (centre) with Biotite on contact - traces of sulphides throughout.	B-2026	346.8'	356.0'	0.04	Nil	Nil	9.2'	
	356.0'	END OF HOLE								

DIAMOND DRILL RECORD

Latitude: 65° Az 0°
Departure: from TAG 1037
Elevation: -
Azimuth: 180°
Dip: 50°

Property: KOZELA LAKE
Grid No. 1

Hole Number: KL 3
Commenced: July 3/62
Finished: " 5/62
Depths: 371'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz./ton	Width	Remarks
0'	8'	OVERBURDEN									98.1% Core Recovery
8'	11.0'	QTZ-BIOTITE-GNEISS to SCHIST - rust staining on fractures - schistosity @ 60° to core axis - pyrite dissem. in minor amts - i.e. < 5%	B-2031	8.0'	11.0'	0.03	Nil			3.0'	
11.0'	39.5'	Qtz-Amp-Schist - with Chlorite? -lava? - v.f.g.-m.g.;faintly gneissic in places.- very few Qtz-Carb-stringers - a few Biotite bands at beginning with high Qtz-Carb.content, traces of feldspar (pink)- banding is at 55°-60° to core axis -23.5'-35.5'- similar to above but dip becoming essentially parallel to core axis; minor mica (biotite),calcite stringers; becoming gneissic in places; only a trace of sulphides -35.5' -39.5'- dip @ 65° to core axis increase in sulphides from 38.0'to 39.5'									Spec @ 15.0' Spec. @ 31.5' Spec. @ 39.5'
39.5'	41.0'	Qtz-Carb-Zone with minor inclusions of mica - Sedimentary? - banding varying from 60°-75° to essentially parallel to core axis - pale grey in colour - traces of Py,Po throughout.									
41.0'	53.5'	Qtz-Amp-Schist to Gneiss with chlorite - f.g. to m.g.-lava? or intrusive. - Qtz & Calcite stringers or pods throughout - banding essentially parallel to core axis									Spec. @ 41.0' Spec. @ 46.0'

65° Az. 0°
from TAG 1037
-
180°
50°

KOZELA LAKE - GRID No. 1

KL-3
July 3/62
July 5/62
371'
H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu	Ni	Zn	oz Ag	Width	Remarks
41.0' (cont'd)	53.5'	Mica slips throughout - Only a trace of Sulphides									
53.5'	55.0'	Qtz-Carb-Veinlet-faintly banded with impurities - Sulphides along fractures Cpy & Po - <1% - Sharp contact with underlying rock.									Loss of water @ 53.6' limonite stain along fractures.
55.0'	56.5'	Qtz-Biotite-Schist-High Qtz-Carb-content - banding @ 50° to core axis - only a trace of sulphides.									
56.5'	58.0'	Qtz-Biotite (50-50) Amp Gneiss to Schist with minor chlorite-Sulphides-Nil.									
58.0'	63.5'	Quartz-Carb-with Biotite Schistose to bedded - appears grey & cherty - Sedimentary?									Spec @ 59.5'
63.5'	64.5'	Massive Qtz-vein									
64.5'	86.0'	Qtz-Amp-Mica-Schist to Qtz-Chlorite-Amp-Schist with minor Mica Gneiss (Gabbroic) - a few bands of Qtz-Carb Mica-Schist - from 66.8' to 67.1'; 71.3' to 72.3'; 74.8' to 75.0' - dip @ 50° to core axis. Only traces of sulphides in sedimentary ~~(?)~~ bands.									Spec @ 82.0'
86.0'	105.0'	Qtz-Amp-Schist, similar to above, but f.g. & laminated with Qtz-Carb-stringers - banding on schistosity from 35° to 60° to core axis. Traces of sulphides only along fracture or									

65° Az. 0°
from TAG 1037
—
180°
50°

KOZELA LAKE - GRID NO. 1

KL-3
July 3/62
July 5/62
371'
H.D. Love

From	To	Formation	Sample No.	From	To	Core	Width	Zn	Pb	Co	Ag	Width	Remarks
		cleavage planes.											
105.0'	108.5'	Qtz-Carb-Mica (Sericite plus Biotite) Schist - banding @ 50° to core axis - pale grey in colour, almost massive Qtz-Carb in places.- disseminated Sulphides - <5%	B-2032	105.3'	108.5'	0.10	Tr					3.2'	Spec @ 106.0'
108.5'	148.5'	Qtz-Amp-Schist with Chlorite to Gneissic in places - laminated with Qtz-Carb stringers - banding @ 50° to core axis - lava? or intrusive?- 145.0'-146.5'- Qtz-Carb vein.	B-2034	143.7'	145.8'	0.04	Nil					2.1'	Spec @ 134.0'
148.5'	149.0'	More or less massive sulphides - in a Qtz-Carb zone. - 70% Po & Cpy (65% - 05%)- Cpy enclosing or fringing on Quartz crystals- secondary.	B-2033	148.4'	149.0'	0.53	Oil	Tr	Tr	0.07	0.07	0.6'	Spec @ 148.5'
149.0'	156.0'	Qtz-Amp-Chlorite(Pyroxene?)-Gneiss - Gabbroic, with a few carb.stringers											
156.0'	160.0'	Qtz-Amp-Mica (Biotite & White Mica)- Gneiss to Schist - traces of sulphides in Qtz-Carb-Zone.											Spec @ 153.0'
			B-2041	160.0'	165.0'	0.03	Nil	Nil	Nil			5.0'	
160.0'	207.0'	Qtz-Mica-Schist-Sericitized-Sed.? - lt. grey in colour - minor biotite -Sulphides dissem. up to 5% in places - high Qtz-Carb content towards end	B-2042	169.5'	179.0'	0.01	Nil	Nil	Nil			9.5'	6.0' core lost from 169.5' to 179.0'
			B-2040	198.4'	207.7'	0.04	Tr	Nil	Nil			9.3'	Spec @ 162.5'
													Spec @ 185.0'
													Spec @ 204.0'
207.0'	240.0'	Qtz-Amp-Schist to Gneiss-with Chlorite -banding @ 45° to core axis - only traces of sulphides along fracture planes - lava? or intrusive?											Spec @ 206.0'
													Spec. @ 226.0'
240.0'	244.0'	Qtz-Mica(Sericite-minor Biotite)Schist- a few garnets-pale pink to white -	B-2036	241.2'	245.3'	0.04	-	Nil	Nil			4.1'	

65'Az. 0°
from TAG 1037
-
180°
50°

KOZELA LAKE
Grid No. 1

KL-3
July 3/62
" 5/62
371'
H.D. Love

stretched - 5% Sulphides

244.0'244.4' Qtz-Carb-Veinlet

244.0' 260.0'Qtz-Amp-Chlorite-Schist with Sericite in places - lava-schistosity or banding @ 55° to core axis

Spec @ 245.0'
Spec @ 248.5'

260.0' 262.5'Massive Qtz-Carb vein - 75% dissem. sulphides B-2037 259.9'262.8'0.05 - Nil Nil 2.9'

262.5' 310.0'Qtz-Amp-Chlorite-Schist-lava - med. to dark green - a few Quartz veinlets (285.0'-285.5') cutting schistosity (45° to core axis)@ 90°apprx

Spec @ 286.0'
Spec @ 303.0'

310.0'323.4' Qtz-Mica(Biotite-Sericite)-Gneiss with Garnets-Sulphides up to 25% B-2038 310.4'320.9'0.05 Nil Nil - 10.5'
B-2039 320.9'323.4'0.02 Nil Nil - 2.5'

323.4'332.0' Qtz-Hb(Amp)-Schist-minor Biotite - a few narrow bands of Qtz-Biotite with Garnets - lt. to med green in colour - lava? - Sulphides - Nil

332.0' 335.0'Qtz-Carbonate (Calcite) Zone with Mica - faintly banded - minor sulphides

335.0' 355.0'Qtz-Amp-Schist-Chlorite in places - faintly banded @ 50° to core axis.- Sulphides-Nil - lava? or intrusive?

355.0' 357.0'Qtz-Mica(Sericite with minor Biotite) Schist - Schistosity @ 50° to core axis - 5% Sulphides. Sedimentary?

65°Az 0°
from TAG 1037
-
180°
50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE - Grid No. 1

Hole Number: KL-3
Commenced: 3/7/62
Finished: 5/7/62
Depths: 371'
Logged By: H.D. Love

Footage	Formation	Sample No.	From	To	Assay Results Cu%	Ni%	Zn%	oz. Au	Width	Remarks
357.0'371.0'	Qtz-Amp-Schist to Qtz-Chlorite - AMP-Gneiss with a few micaceous zones - Gabbroic									Spec @ 363.5'
371.0'	END OF HOLE									

50'Az 180° from Line 7S
@ 0.80W on Grid No. 1

-
32°
50°-48°

DIAMOND DRILL RECORD

KOZELA LAKE

Grid No. 1

(1)
KL-4
July 7/62
" 9/62
408'
H.D. Love

From	To	Formation	Remarks
0'	12'	OVERBURDEN	Core recovery very good - approx 98%
12'	14'	QTZ-MICA (Biotite & Sericite)-Gneiss with a few Garnets - light grey in colour, f.g.-m.g. - Gneissosity @ 35° to core axis - a narrow Qtz(50-50) Carb.veinlet- trace of Py,Cpy & Po.	4' lost in total hole Spec @ 12.5'
14.0'	17.7'	Gabbroic Gneiss-Qtz-Amp(Hb)-Chlorite (Pyroxene?)-Gneiss-little or no sulphides.	
17.7'	20.9'	Qtz-Mica-Schist-mainly Sericite & minor Biotite - trace of Talc-Qtz-Carb stringers or veinlets-Schistosity @ 35°-40° to core axis - Sedimentary?	Spec @ 18.0'
20.9'	25.0'	Qtz-Amp-Schist with Chlorite-lava? -v.f.g., thinly laminated with Qtz-Carbonate stringers - schistosity @ 45° to core axis - Sulphides - Nil.	Spec @ 23.5'
25.0'	28.5'	Qtz-Biotite-Schist-well banded - Sedimentary? - pale grey in colour - f.g. - Schistosity or banding @ 50° to core axis - Qtz-veinlets throughout - Sulphides - Nil.	
28.5'	37.0'	Qtz-Amp (Hb)Schist-lava? or intrusive f.g.-m.g., green in colour;36'-37' appears gneissic - Gabbroic? Schistosity @ 50° - 30° to core axis - Sulphides - Nil.	Spec @ 33.5'
37.0'	39.0'	Quartz vein with traces of amphibole.	

50'Az.180° from Line 7S
@ 0+80W on Grid No. 1
-
32°
50° - 48°

KOZELA LAKE - Grid No. 1

Hole Number: KL-4
Commenced: 7/7/62
Finished: 9/7/62
Depth: 408'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
39.0'	41.0'	Qtz-Hb-Schist with minor Biotite - lava - f.g.; green to brownish in colour - Sulphides - Nil									
41.0'	44.3'	Qtz-Biotite-Gneiss to Schist- well banded in places - grey in colour, almost slaty - a green mineral in long tabular xtals - meta-silicates? throughout, particularly at contacts. -Schistosity @ 35° to core axis. -5% Sulphides, mainly Po. - Sed?	B-2043	41.3'	44.3'	0.09	-	Nil	Tr	3.0'	
44.3'	68.0'	Gneissic Gabbro to Schistose Qtz-Amp -Chlorite rock - a few Qtz veins throughout - from m.g. to c.g. to almost f.g. in places. -49.0'-50.8'- Mica-Schist-high Qtz. Sedimentary? - only trace of Sulphides .									Spec @ 57.5'
			B-2044	68.4'	72.4'	0.02	-	Nil	Tr	4.0'	
68.0'	77.0'	Slaty contact with above - Slaty to Graphitic-Qtz-Biotite-Schist or Gneiss-Sulphides-10-15% in places, mainly Po, Py.	B-2045	72.4'	77.7'	0.04	-	Nil	Nil	5.3'	Spec @ 71.0'
77.0'	80.0'	Qtz-Mica-Schist to Gneiss-some Amph bands - schistosity @ 50°-55° to core axis - sulphides - < 5%									
80.0'	118.0'	Qtz-Amp- with minor Chlorite-Schist- lava? - v.f.g.; faintly banded - minor talc associated with a few									Spec. @ 82.5'

50'Az.180° from Line 7S
@ 0+80W on Grid No. 1

-
32°
50° - 48°

KOZELA LAKE - GRID NO. 1

(3)
KL-4

7/7/62
9/7/62
408'
H. D. Love

From	To	Formation	Sample No	From	To	Assay Results Cu	Ni	Zn	oz Au	Width	Remarks
80.0' (cont'd)	118.0	Biotite zones (veinlets) up to 1½"- some pink feldspar along fractures - after 98.0'- appears somewhat Gabbroic - sulphides dissem.along fractured Py. - Schistosity @ 45° to core axis.									
118.0'	120.0'	Qtz-Mica-Schist with Talc? enclosing garnets - tourmaline xtals along contacts - trace of sulphides-Po & Cpy.									Specimen @ 119.0'
120.0'	127.0'	Qtz-Amp-Schist- intrusive ? - f.g. - very few Qtz-Carb. stringers - almost gneissic Gabbro from 123.0'-126.0'- Sulphides only along fractures (Py)									
127.0'	128.0'	Qtz-Biotite-Schist-well banded- Sulphides - Nil									
128.0'	153.6'	Qtz-Amp-Chlorite-Schist-Gabbroic? - f.g.; calcite & qtz.stringers throughout - Schistosity @ 45° to 50° - light to medium green on dry surface - minor Biotite - few Qtz-Biotite - Sedimentary? zones,e.g. 144.5' to 146.0';130.0'-131.0'; 153.0'-153.6'-Qtz vein with Biotite at contatts.									

50'Az. 180° from Line 7S
@0+80W on Grid No. 1
Elevation: -
Azimuth: 32°
Dip: 50°-48°

KOZELA LAKE - GRID NO. 1

(4)
KL-4
Commenced: 7/7/62
Finished: 9/7/62
Depth: 408'
Logged: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
153.6'	165.5'	Qtz-Amp-Biotite-Schist becoming (gneissic) Gabbroic after 154.0' - to Schistose after 157.0' - after 162.0' an increase in biotite & carbonate stringers - quite well banded - Sulphides - Nil - altered contact zone.									Spec. @ 159.0'
165.5'	174.5'	Qtz-Mica (Sericite-Biotite)-Schist to Gneiss - well banded - 65° to core axis. - white to light grey in colour - high Qtz- Sulphides - 10-15%, mainly Py, Po. Sed.	B-2046	167.3'	172.5'	0.03	-	Nil	Nil	5.2'	Spec. @ 170.0'
174.5'	182.5'	Gneissic Gabbro - a few Qtz-Carb- veinlets & a few Biotite zones throughout - wide contact zone. - Sulphides - Nil.									Spec. @ 181.0'
182.5'	187.0'	Qtz-Mica (Sericite-Biotite)-Schist - well banded, almost slaty in places - Schistosity from 65°-70° to core axis - up to 20% Sulphides- Po, Py.	B-2047	182.2'	186.9'	0.03	-	Nil	Nil	4.7'	Spec. @ 186.0'
187.0'	197.5'	Qtz-Amp-Schist-minor Chlorite-lava?									
197.5'	197.7'	Qtz-Veinlet									
197.7'	217.5'	Gneissic Gabbro-Qtz-Amp-Chlorite- Gneiss- only a few Qtz or Carb stringers.									Spec. @ 202.0'

DIAMOND DRILL RECORD

Latitude: 50'Az.180° from Line 7S
Departure: @ 0+80W on Grid No. 1
Elevation: -
Azimuth: 32°
Dip: 50°-48°

Property: KOZELA LAKE
Grid No. 1

Hole Number: KL-4
Commenced: July 7/62
Finished: " 9/62
Depth: 408'
Logged By: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
217.5'	221.0'	Qtz-Biotite-Sericite-Gneiss with a few Garnets - well banded in places - Sed?-65°-75° to C.A. - <5% Sulphides									
21.0'	261.6'	Qtz-Amp-Schist with Chlorite & Qtz-Carbonate-plus some Feldspar veinlets and stringers - faintly Gabbroic in appearance from 227.0'-230.0' - f.v.g. to m.g. in places. - Schistosity @ 65° to core axis - Sulphides-Nil									
261.6'	274.5'	Qtz-Mica (Biotite-minor Sericite) Schist - well banded - banding @ 65° to core axis - trace of sulph.	B-2048	261.6'	269.2'	0.02	-	Nil	Nil	7.6'	
			B-2049	269.2'	274.3'	0.01	-	Nil	Nil	5.1'	
274.5'	360.0	Qtz-Amp-Schist to Gneiss - intrusive? - f.g., banded with Qtz-Carb stringers - green in colour. - banding or schistosity is @ 60° to core axis - a few Qtz-Mica (Biotite) veinlets (up to 1") - e.g. - 280.0-280.3;287.5-288.2' from 304.5-310.0'-Qtz-Mica(Sericite with minor Biotite) Schist - well banded @ 60° to core axis - trace of sulphides disseminated throughout, Sedimentary? -315.0' to 319.0' - appears faintly gabbroic; 329.0' to 336.4' - Qtz-Carbonate-Sericite zone -	B-2050	330.1'	336.4'	0.09	-	Nil	Tr	6.3'	Spec @ 333.0'

DIAMOND DRILL RECORD

Latitude: 50'Az 180° from Line 7S
Departure: @0+80W on Grid No. 1
Elevation: -
Azimuth: 32°
Dip: 50°-48°

Property: KOZELA LAKE
Grid No. 1

Hole Number: KL-4
Commenced: July 7/62
Finished: " 9/62
Depth: 408'
Logged By: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
		-faintly schistose - almost massive									
		in places - sulphides dissem.-<5%									
360.0'	385.8'	Qtz-Mica (Biotite-Sericite)-Schist									
		to Gneiss - high Qtz-Carbonate	B-2051	362.0'	368.5'	0.06	-	Nil	Nil	6.5'	
		content - from almost white to									Spec. @ 364.5'
		medium grey in colour. - upper &	B-2052	375.8'	385.8'	0.04	-	Nil	Nil	10.0'	
		lower contacts - consist mainly of									
		Qtz-Biotite - 368.5'-375.8' -									
		Sulphides - Nil - up to 25%									
		Sulphides elsewhere throughout -									
		Pyrite xtal in higher Qtz zones.									Specimen @ 371.0'
385.8'	408.0'	Qtz-Amp-Chlorite(Pyroxene?) Gneiss									
		- Gabbroic - Sulphides - Nil									
		-397.9'-398.0'-Qtz-Carbonate -									
		vein with Biotite plus Sulphides-									
		<5%.									
	408.0'	END OF HOLE									

DIAMOND DRILL RECORD

Latitude: 152'Az 180° from
Departure: TAG 1039
Elevation: -
Azimuth: 30°
Dip: 50°

Property: KOZELA LAKE

Grid No. 1

Hole Number: KL-5
Commenced: July 11/62
Finished: July 13/62
Depth: 349'
Logged By: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Co	Oz Ag.	Width	Remarks
0"	12"	OVERBURDEN											-93.1% (approx) core recovery
12'	24.6'	Lava? - Qtz-Hb-Chlorite-Schist - m.g., almost granular in places, pale to medium green in colour, with Biotite flakes throughout. - in places almost massive, i.e. only faintly banded. - a few Qtz veins with feldspar - carbonate pods throughout. - 17.5'-20.0'- finer grained, faintly laminated, and darker green. - 20.0'-24.0'- similar to that from 12.0' to17.5' -schistosity @ 55° to core axis. Sulphides appearing @ end.											Specimen @ 14.0' Specimen @ 18.0'
24.6'	26.5'	Almost massive sulphides - up to 80 or 90% Po.(trace of Cpy) in a much fractured or brecciated rock consisting mainly of Qtz - very magnetic	B-2053	24.6'	26.5'	0.34	0.11	Nil	0.01	0.035	0.08	1.9'	Specimen @ £5.0'
26.5'	33.3'	Altered Qtz-Amphibole (Hb)-Biotite Schist - Sulphides - < 5% after 300' - mainly Biotite-Calcite rock - colour-brown with scattered rhombs of calcite - a few stringers of Qtz and Calcite	B-2054	26.5'	33.3'	0.07	-	Nil	Tr	-	-	6.8'	Specimen @ 29.0' Specimen @ 31.5'
33.3'	61.0'	Qtz-Amphibole-Schist with minor Biotite - numerous Qtz-Carb. stringers and veinlets (up to 1½")											

DIAMOND DRILL RECORD

Latitude: 152' Az. 180° from
Departure: TAG 1039
Elevation: -
Azimuth: 30°
Dip: 50°

Property: KOZELA LAKE

Grid No. 1

Hole Number: (2) KL-5
Commenced: July 11/62
Finished: " 13/62
Depth: . 349'
Logged By: H. D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au			Width	Remarks
33.3'	61.0'	Qtz-Amphibole-Schist with minor Biotite - numerous Qtz-Carb. Stringers and veinlets (up to 1½") -Schistosity @ 30° to core axis - trace of Po or Py associated with Qtz. veins - after 49.0' - appearing massive to gneissic (Gabbroic) with Chlorite - 51.0'-61.0'-trace of Sulphides in Qtz-Amp(Hb)-Schist with Biotite & Chlorite.	B-2055	51.0'	61.2'	0.02	-	Nil	Tr			10.2'	40.0'-49.0' - 1.0' core lost. Spec. @ 60.0'
61.0'	94.5'	Qtz-Carb-Amp(Hb) with minor Biotite - some talc and pink feldspar - sulphides dissem. <5% - Po, Py - a few high Quartz zones - e.g. 71.0'-73.0'; 76.5'-78.0'-Amphibole Talc zone, minor Quartz, f.g. to m.g.; pale green in colour; minor Biotite; Sulphides <5% to Nil; Schistosity @ 45° to core axis.	B-2056	61.2'	70.9'	0.02	-	Nil	Tr			9.7'	Specimen @ 70.0'
			B-2057	70.9'	73.8'	Tr.	-	Nil	Tr			2.9'	Spec. @ 74.5'
													Spec. @ 81.5'
			B-2058	73.8'	78.5'	Nil	-	Nil	Tr			4.7'	Spec. @ 83.0'
													Spec. @ 93.0'
			B-2059	78.5'	84.8'	0.05	-	Nil	-			6.3'	
94.5'	128.0'	High Quartz-Carbonate vein with minor Amp. - much fractured & sheared with numerous Qtz-Calcite stringers cutting haphazardly - pale grey-green on wet surface -99.9 to 100.7 - Massive Quartz -104.8-105.0'-altered and stained Quartz zone - containing tourmaline? xtals and Sphalerite-reddish to brown -- resinous-streak brown - pyrite along fractures.	B-2060	128.0'	134.0	0.02	-	Tr	Tr			6.0'	113.8'-118.0'-3.2'core lost

DIAMOND DRILL RECORD

Latitude: 152'Az 180° from
Departure: TAG 1039
Elevation: -
Azimuth: 30°
Dip: 50°

Property: KOZELA LAKE

Grid No. 1

Hole Number: (3) KL-5
Commenced: July 11/62
Finished: " 13/62
Depth: 349'
Logged By: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au		Width	Remarks
128.0'	130.5'	Qtz-Amp-Schist- high Quartz-Carb. content. - ≤ 5% Sulphides										
130.5'	132.0'	Massive Quartzite with minor impurities - ≤ 5% Sulphides										
132.0'	155.3'	Qtz-Amp-Chlorite-Schist to Gneiss-Gabbroic - minor Biotite - a few Qtz-Carb. stringers, pink feldspar associated. - Schistosity @ 60° to 75° to core axis - Sulphides - Cpy, Po, Py. along fractures. - 148.0'-148.5' - Qtz-Mica (Biotite) Schist - Sulphides - Nil										
155.3'	164.4'	Qtz-Biotite-Amp (Hb)-Schist with Garnets - well banded with numerous Quartz stringers, and zones. - Schistosity @ 55° to core axis - Sericite associated with a few high Quartz zones.	B-2061	155.3'	164.4'	0.04	-	Nil	Nil		9.1'	
164.0'	166.5'	Qtz-Amp(Hb) Schist with minor Chlorite and Biotite - lava - Schistosity @ 45° to core axis - Sulphides - Nil.										
166.5'	167.4'	Quartz-Carbonate zone - some mica (Sericite?) - faintly banded @ 50° to core axis										

DIAMOND DRILL RECORD

Latitude: 152'Az 180° from
Departure: TAG 1039
Elevation: -30°
Azimuth: 50°
Dip:

Property: KOZELA LAKE

Grid No. 1

Hole Number: KL-5
Commenced: July 11/62
Finished: " 13/62
Depth: 349'
Logged By: H. D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au			Width	Remarks
167.4'	171.5	Qtz-Amp-Chlorite (Pyroxene?) Gneiss to Schist - appearing Gabbroic in places with a few haphazard Quartz stringers in slips - Sulphides - Nil											
171.5'	176.5'	Quartz-Carbonate zone with minor Amphibole - at beginning xtalline Calcite - almost massive. Quartzite at end with little or no sulphides. - up to 10% dissem. Py, Po in places - trace of Cpy.- much biotite in lower contact.	B-2062	171.5'	176.3'	0.25	-	Nil	Tr.			4.8'	Spec @ 173.5' Spec @ 174.0'
176.5'	219.2'	Intrusive? - biotite along fractures of Qtz-Amp (Hb)-Schist-appearing faintly gneissic (Gabbro) in places- numerous Quartz stringers - high Quartz and Carbonate in places - blue (oxidization) stain along fractures - traces of Sulphide with Quartz-Carb - 185.1' to 185.3' - Quartz-veinlet with pink feldspar - pegmatite? - faint banding @ 85° to 70° to core axis											
219.2'	233.0'	Qtz-Carbonate-Mica(Sericite & Biotite) with Amp (Hb) in a few places - Schist - almost slaty in places - Schistosity @ 70° to core axis. - Sulphides @ £5% to 50% (Po,Cpy,Py) - disseminated. - Zones	B-2063	219.2'	227.2'	0.04	-	Nil	Tr.			8.0'	221.0'-227.0'-1.5' core lost Spec. @ 232.0'
			B-2064	227.2'	234.1'	0.05	Nil	Nil	Tr.			6.9'	

DIAMOND DRILL RECORD

(5)

Latitude: 152' Az 180° from
Departure: TAG 1039
Elevation: -
Azimuth: 30°
Dip: 50°

Property: KOZELA LAKE

Grid No. 1

Hole Number: KL-5
Commenced: July 11/62
Finished: July 13/62
Depth: 349'
Logged By: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
		of Gabbroic rock appearing in last two feet.									
233.0'	251.1'	Gneissic Gabbro - only faintly gneissic in places - some biotite lenses disseminated - Sulphides - Po & Cpy along fractures.									
251.1'	258.6'	Qtz-Mica (Biotite & Sericite)- Schist to almost slaty in places - Schistosity or gneissosity @ 55° to core axis - Sulphides - dissem. throughout up to 25%, mainly Po, Py.	B-2065	251.6'	258.6'	0.12	Nil	Nil	Tr	7.0'	Spec @ 253.0'
258.6'	276.0'	Qtz-Amp (Hb) Schist - f.g. to m.g.; medium to dark green - faintly banded in places - interbanded with narrow zones of Qtz-Mica-Sericite & Biotite-Schist - Sulphides up to 5% in places.	B-2066	258.6'	271.5'	0.01	-	Nil	-	12.9'	Spec @ 267.0'
			B-2067	271.5'	276.1'	0.02	-	Nil	-	5.2'	
276.0'	282.5'	Similar to above, but with zones of Biotite-Amp (Hb)-Schistosity @ 55° to core axis - Sulphides - Nil.									Spec. @ 282.0'
282.2	287.5'	Quartzite & Quartz Carb Zone with minor Amphibole - up to 15% Sulphides ; in places. - mainly Py.	B-2068	282.1'	287.2'	0.03	-	Nil	Tr.	5.1'	Spec. @ 287.0'

DIAMOND DRILL RECORD

Latitude: 152' Az 180° from
Departure: TAG 1039
Elevation: -
Azimuth: 30°
Dip: 50°

Property: KOZELA LAKE

Grid No. 1

Hole Number: KL-5
Commenced: July 11/62
Finished: " 13/62
Depth: 349'
Logged By: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
287.2'	307.5'	Qtz-Amp-Schist with Chlorite - appearing Gabbroic in places - minor Biotite along Qtz & Carb. veinlets - 291.5'- 291.8' Qtz & Carb veinlet with Zn(Sphalerite) - ≤5% - other zones of Qtz-Carb. less Sulphides	B-2069	301.2'	310.7'	0.04	-	Nil	Tr.	9.5'	
307.5'	311.0'	Quartz & Qtz Carbonate - Zone - Zones of Hb & Biotite; with much green staining and green mica (Fuchsite) - zones of gabbro & Sulphides - Pyrite xtals dissem.									
311.0'	314.5'	Gabbro Gneiss - with Biotite from 313.8'-314.2'	B-2070	314.2'	323.8'	0.04	-	Nil	Tr.	9.6'	Spec. @ 322.0'
			B-2072	331.1'	337.6'	0.02	Nil	Nil	-	6.5'	
			B-2071	323.8'	331.1'	0.05	-	Nil	Tr	7.3'	Spec @ 338.0'
314.5'	331.0'	Quartz-Carb (Calcite) zone - sulphides - Pyrite xtals.									
331.0'	349.0'	Gabbro Gneiss - (Qtz-Amp)Hb)- Chlorite Gneiss - a few qtz & Carbonate zones - Sulphides - 331.0' - 336.0' - trace of ≤5% Cpy. & Py disseminated									
	349.0'	END OF HOLE									

DIAMOND DRILL RECORD

Latitude: 50' Az. 0° from TAG 1039
Departure: 100'Az 90° from above
Elevation: --°
Azimuth: 30°
Dip: 50°

Property: KOZELA LAKE
Grid No. 1

Hole Number: KL-6
Commenced: July 14,1962
Finished: July 17,1962
Depth: 435'
Logged By: H. D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
0'	11'	OVERBURDEN									Core Recovery - 98.7% very good
11.0'	15.0'	Quartz-Biotite-Sericite-Gneiss to Schist - f.g., almost Cherty in places - Sulphides - Nil.									Spec. @ 13.5'
15.0'	28.5'	Quartz-Amp (Hb) Schist - minor Chlorite and Biotite - lava - f.g. to m.g.;med.green in colour -biotite slips or lenses -Quartz-Carbonate stringers - finely laminated - Sulphides - Nil - 21.5'-23.5' - Quartzite zone with Biotite @ Contacts; trace of Po, Py. - Schistosity @ 40° to core axis									15.0'-21.0'-1.0' core lost. Spec. @ 26.5'
28.5'	32.0'	Quartzite - banded with impurities @ 45° to core axis - at 31.5' - rust staining - loss of water (oxidization & leaching)									Spec @ 29.0' 27.0'-34.5'-0.8' core lost.
32.0'	54.0'	Quartz-Amp (Hb) Schist - high Quartz with Carbonate - minor Chlorite - traces of Cpy, in places- 44.0'-45.5' = Qtz-Carb Zone - massive to banded. - minor Amphibole & trace of Sulphides; some green staining; Feldspar?; Biotite @ contacts? -46.4'-50.4' - Qtz-Mica (Biotite & White Mica) Gneiss to Schist - m.g. fairly well banded - Sulphides - Nil.									Spec. @ 33.0' Spec. @ 51.0'

DIAMOND DRILL RECORD

Latitude: 50'Az.0° from TAG 1039
Departure: 100'Az.90° from above
Elevation: -
Azimuth: 30°
Dip: 50°

Property: KOZELA LAKE

Grid No. 1

Hole Number: KL-6 (2)
Commenced: 14/7/62
Finished: 17/7/62
Depth: 435'
Logged By: H.D.Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
54.0'	62.5'	Quartz-Biotite-Schist- withminute pale pink Garnets-to Gneiss - schistosity & Gneissosity @ 15°-35° to core axis - Sulphides - traces along carbonate veinlets	B-2073	54.1	62.4'	0.01	-	-	Nil	8.3	Spec @ 60.5'
62.5'	69.6'	Qtz-Amp(Hb) Schist with Chlorite - lava? - numerous Qtz-veinlets with pink Feldspar cutting @ 90° or greater to Schistosity @ 30°-40° to core axis.- Sulphides - Nil. 62.5'-64.0' - Biotite contact zone									
69.6'	79.0'	Qtz-Biotite-Talc Gneiss to Schist-well banded @ 30° to core axis. - pale green, very soft.-27.0'-78.5' - Qtz-Mica(Biotite) Schist with Carb Stringers - 55° to core axis									Spec @ 70.5'
79.0'	80.6'	Qtz-Mica (Biotite)-Schist-high Qtz-Carbonate; also veinlets of Qtz Carb. - up to 5% Sulphides - Po,Py.									
80.6'	90.5'	Gabbro Gneiss - interbanded with Quartz veinlets & veins of Qtz-Biotite Schist-84.0'-85.0' brecc-iated zone with sulphides - <5% - Po,Py & Cpy, plus Talc & chlorite-high Quartz - talc @ lower contact									Spec. @ 87.0'
90.5'	94.5'	Similar to above but with numerous Qtz veinlets & sulphides - mainly Po - associated- almost breccia.	B-2074	91.0'	94.5'	0.09	-	-	Tr.	3.5'	

DIAMOND DRILL RECORD

Latitude: 50'Az.0° from TAG 1039
Departure: 100'Az 90° from above
Elevation: --
Azimuth: 30°
Dip: 50°

Property: KOZELA LAKE

Grid No. 1

Hole Number: KL-6
Commenced: July 14/62
Finished: July 17/62
Depth: 435'
Logged By: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
24.5'	119.0'	Gabbro Gneiss-Schistose in places with calcite & quartz stringers - traces of feldspar & sulphides - some biotite in places.	B-2076	100.7'	102.7'	0.02	-	Nil	-	2.0'	Spec @ 101.5' Spec @ 106.0'
119.0'	124.5'	Garnetiferous - Qtz-Mica-Schist - Biotite, white mica, and Talc? - almost Slaty (or grey cherty) in places. - Gneissosity @ 70°-55° to core axis.-Sulphides-up to 10% in places, Py,Po,Cpy.Biotite @ contact	B-2077	119.3'	124.5'	0.01	-	Nil,	Nil	5.2'	Spec. @ 122.0'
124.5'	127.0'	Gabbro,Gneissic - altered, with Quartz veinlets and Biotite,much fractured.-Pyrite xtals & calcite rhombs along fractures.									
127.0'	131.0'	Qtz-Mica-Gneiss to Schist - high Qtz - grey cherty in places - banding @ 65°-70° to core axis - up to 10% Po,Py.									Spec @ 131.0'
131.0'	192.0'	Lava? - Quartz-Amp (Hb) Schist with pink to red feldspar assoc. with Qtz-Carbonate stringers - f.g. to m.g.;medium to dark green in colour;schistosity @ 35° -40° to core axis - from 190.0'-dip of Schistosity - 15° and carbonate veinlets cutting schistosity @70° Sulphides - Nil									Spec @ 149.0'

DIAMOND DRILL RECORD

Latitude: 50'Az.0° from TAG 1039
Departure: 100'Az 90° from above
Elevation: --
Azimuth: 30°
Dip: 50°

Property: KOZELA LAKE
Grid No. 1

Hole Number: KL-6
Commenced: July 14/62
Finished: July 17/62
Depth: 435'
Logged By: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
192.0'	195.0'	Garnetiferous Qtz-Biotite-Gneiss to Schist - Sulphides - Nil to trace	B-2078	192.3'	195.4'	0.04	-	Nil	Nil	3.1'	Spec. @ 194.2'
195.0'	306.0'	-195.0'-206.0'-highly altered Gabbro gneiss-195.0'-197.0'-contains numerous Qtz veinlets arranged haphazardly - m.g. to v.c.g. (almost porphyritic)- trace of Po, Py &Cpy assoc-206.0'-300.0'- a few pink to red Qtz-Carbonate veinlets - 300.0'-306.0'-Gneissic to almost Schistose-finer grained Gabbro. Biotite @ lower contact.	B-2079	195.4'	200.0'	0.06	Nil	Nil	-	4.6'	Spec. @ 198.0' 232.0'-242.0'-1.5'core lost.
306.0'	314.5'	Quartz-Mica(Biotite & Sericite) Schist - high Qtz-Carb in places - much Biotite and Talc at contact-almost slaty in places. Sulphides-up to 50% from 307.0'-310.0'- Cpy, Po, Py- 310.0'-314.5'- finer grained higher Qtz-Carb; Sulphides-Nil - Schistosity @ 50° to core axis.	B-2080	307.5'	311.0'	0.05	-	Nil	Tr.	3.5'	Spec. @ 309.5'
314.5'	320.0'	Interbanded Qtz-Biotite-Schist & f.g. Qtz-Amph(Hb)-Chlorite-Schist with Talc - Gabbroic - Schistosity @ 70° to core axis									
320.0'	324.0'	Gneissic to Schistose-Gabbro-faintly banded (Biotite) @ 25° to core axis - Sulphides - Nil									

DIAMOND DRILL RECORD

Latitude: 50'Az.0° from TAG 1039
Departure: 100'Az 90° from above
Elevation: -
Azimuth: 30°
Dip: 50°

Property: KOZELA LAKE

Grid No. 1

Hole Number: KL-6 (5)
Commenced: July 14/62
Finished: " 17/62
Depth: 435'
Logged By: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
324.0'	329.0'	Quartz-Mica(Sericite)(white mica) & Biotite) - Schist - Schistosity @ 45° to 50° to core axis - Pyrite lenses along cleavage places.	B-2081	324.0'	329.0'	0.03	-	Nil	-	5.0'	Spec @ 325.0'
329.0'	345.5'	Altered Gabbro-Gneissic to Schistose- well banded with Qtz-Carb stringers and veinlets -Sulphides - Nil to trace - a few Biotite lenses and some pink feldspar - Schistosity @ 45° to core axis									Spec. @ 337.0'
345.5'	349.0'	Quartz-Mica (Sericite) - Gneiss -sulphides up to 30%	B-2082	346.3'	348.8'	0.02	Nil	Nil	Nil	2.5'	
349.0'	376.0'	Qtz-Amp(Hb)-Chlorite-(Pyroxene?) -Schist - intrusive? - a few Biotite lenses and bands-a few Qtz-Carbonate zones - with some Pink to red feldspar associated. -Schistosity @ 45°-50° to core axis.									Spec. @ 373.0'
376.0'	397.5'	Quartz-Mica-Gneiss to Schist - mainly Sericite Mica, but Biotite and Amphibole from 376.0'-378.0'- high Quartz & Carbonate becoming quite Sericitic towards end.-	B-2083	377.4'	384.3'	0.04	-	Nil	-	6.9'	Spec @ 388.2'
		pale grey in colour - a few Biotite lenses - Sulphides ~5% - mainly Po & Py with traces of Cpy	B-2084	384.3'	388.8'	0.04	-	Nil	-	4.5'	
		- dark green and glassy along fractures -Schistosity @ 50° to C.A.	B-2085	388.8'	397.5'	0.05	-	Nil	-	8.7'	

DIAMOND DRILL RECORD

Latitude: 50'Az 0° from TAG 1039
Departure 100'Az 90° from above
Elevation: -
Azimuth: 30°
Dip: 50°

Property: KOZELA LAKE

Grid No. 1

Hole Number: KL-6 (6)
Commenced: July 14/62
Finished: " 17/62
Depth: 435'
Logged By: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au			Width	Remarks
397.5'	435.0'	Gabbro Gneiss - m.g.-carbonate lenses in places giving a banded or bedded appearanceto rock - 45° to 50° to core axis - Sulphides - Nil -416.0' to 417.0' - Carbonate zones with feldspar											Spec @ 430.0'
	435.0	END OF HOLE											

Latitude: 90'Az 270° from point
Departure: 8+20N on L.7+50W
Elevation: -
Azimuth: 135°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 1

Hole Number: K-7
Commenced: 25/7/62
Finished: 27/7/62
Depth: 297'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
0'	12'	OVERBURDEN									92.9% core recovery
12'	46'	Qtz-Hb-Schist, much folded at beginning - f.g., lava - numerous Qtz-Carb & Feldspar stringers - schistosity or lamination @ 65° (Avg) to core axis - traces of sulphides in highly altered portions only; leaching & oxidization occurring.									37.0'-43.0'-1.0'core lost Spec @ 20.0'
46.0'	47.0'	Altered - f.g. - micaceous contact zone - appearance of chrome mica with pale green - Talc?									Spec @ 46.5'
47.0'	48.0'	Near Massive Sulphides - in a slaty, carbonaceous, altered Mica Gneiss - a few Qtz fragments - up to 90% sulphides, mainly Po, but some Cpy.	B-2092	46.9'	48.0'	0.18	0.03	Nil	Tr	1.1'	Spec @ 47.5'
48.0'	50.5'	Altered, Talcose, with some slaty fragments, Qtz-Biotite Garnet Gneiss - high Quartz & Carbonate - about 50% Sulphides(PO)	B-2093	48.0'	50.7'	0.09'	Nil	Nil	-	2.7'	Spec @ 48.5'
50.5'	51.0'	Similar to above, but slaty with up to 30 or 40% Sulphides									
51.0'	52.0'	Garnet-Mica-Gneiss - finer grained than above - up to 25% sulphides, trace Cpy. - slaty stringers	B-2094	50.7'	53.3'	0.07	-	Nil	Nil	2.6'	Spec. @ 51.5'

Latitude: 90'Az. 270° from point
Departure: 8+20N on L.7+50W
Elevation: —
Azimuth: 135°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 1

Hole Number: K-7
Commenced: 25/7/62
Finished: 27/7/62
Depth: 297'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
52.0'	53.0'	Garnet-Mica-Gneiss-coarse grained - large (to 1/6") garnets with slaty fragments flowing about (or around) the garnets - up to 50% Sulphides mainly Po.									
53.0'	54.7'	Altered - f.g.-gneiss-Qtz-Mica - Gneiss with stretched garnets - folded quartz-carbonate stringers - numerous, minute, pale pink garnets, some Talc; about 5% Sulphides, Py & Po									
54.7'	62.5'	Qtz-Hb-Gneiss-Altered Gabbro 60.0'-62.5' - highly altered (almost schistose) with Talc & Biotite.									Spec @ 60.0'
62.5'	66.5'	GARNETIFEROUS-QTZ-BIOTITE-GNEISS - c.g.; becoming slaty in places; a few Qtz-Carbonate stringers and veinlets. Sulphides - Po, Py - up to 5-10% - Garnets - up to ¼", green alteration about garnets.	B-2095	62.7'	66.5'	0.04	-	Nil	-	3.8'	Spec @ 65.0'
66.5'	71.0'	High Qtz-Carbonate with sericite zones - quite well banded in places @ 65° to core axis - sulphides - Nil to Trace - Biotite @ contacts.									

Latitude: 90'Az.270° from point
Departure: 8+20 N on L.7+50W
Elevation: -
Azimuth: 135°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE
Grid No. 1

Hole Number: K-7
Commenced: 25/7/62
Finished: 27/7/62
Depth: 297'
Logged by: H.D.Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
71.0'	73.5'	Qtz-Hb-Gneiss-Porphyritic - c.g. to very coarse grained - almost schistose with TALC @ 74.5' m.g.									
73.5	78.0'	Qtz-Carb-Mica-Schist with a few stretched garnets - schistosity @ 60°; Sulphides - Nil									Spec. @ 77.0'
78.0'	81.5'	Banded - Qtz-Amp.(Hb)-Schist - f.g., with some slips of biotite -Quartz-Carb stringers - banding @ 70° to core axis - lava?									
81.5'	83.0'	Banded - high Qtz-Carb-Mica-Schist-becoming sericitic - 78.2'-78.4' - spotted Qtz-Hb- Gneiss-Gabbro? 82.2'-83.4' - Gabbroic Gneiss with a few Garnets (minute)									
83.0'	119.2'	Banded Qtz-Hb-Schist to Gneiss - Porphyritic in places (Gabbroic) - - numerous Qtz.Carb.veinlets becoming very fine in schistose portions. - Qtz-Biotite-veinlets @ 83.2'-83.8' and 103.0'-103.6' and 105.0' - 106.0'									93.5-103.0-0.3' core lost Spec @ 109.0' 114.0'-124.5'-0.2' core lost
119.2'	126.0'	Qtz-Mica (Biotite & Sericite)-Schist-traces of Cpy, and some Py, Po along fractures. - some Hb & increase in Biotite at lower contact; a few Qtz-Carb veinlets. -									

Latitude: 90'Az.270° from point
Departure: 8+20N on L.7+50W
Elevation: -
Azimuth: 135°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 1

Hole Number: K-7
Commenced: 25/7/62
Finished: 27/7/62
Depth: 297'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
		-schistosity @ 80° to core axis									
126.0'	129.5'	Qtz-Hb-Schist with carbonate stringers to m.g. Hb-gneiss Gabbroic									
129.5'	131.4'	Qtz-Biotite-Gneiss - a few pink garnets - slaty with Sulphides, up to 30%. Po, Py in places.	B-2096	129.6	131.4	0.04	-	Nil	Nil	1.8'	
131.4'	133.3'	Qtz-Hb-Schist- only faintly laminated with a few Quartz stringers 131.9'-132.6' - Qtz-Biotite-Schist									
133.3'	139.0'	Qtz-Sericite-Biotite-Gneiss - some Talc and some Sulphides (Tr to <5%)									Spec @ 135.0'
139.0'	186.0'	Qtz-Hb-Gneiss-f.g. to v.f.g. with a few zones of m.g. spotted or porphyritic - Hb-gneiss-Gabbro - numerous Qtz-Carb-stringers & slips -veinlets of Qtz-Biotite-Sericite-Gneiss with garnets and talc(?) alteration @ 166.9' - 167.4' and 175.2'-175.5' -Qtz-Feldspar veinlet from 156.2' to 156.8' - others - banding @ 75°-80° to core axis									Spec @ 174.0'

Latitude: 90°Az 270° from point
Departure: 8+20 N on L.7+5W
Elevation: -
Azimuth: 135°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 1

Hole Number: K-7
Commenced: 25/7/62
Finished: 27/7/62
Depth: 297'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	oz Ag	Width	Remarks
186.0'	189.9'	High Qtz-Mica (Sericite-Biotite) Gneiss - Sulphides Nil										183.6'-189.0'- 0.3' lost core
189.9'	217.0'	f.g. to m.g. Gabbro - Faintly gneissic and banded @ 65°-75° to core axis; a few Qtz-stringers.										Spec @ 189.0'
217.0'	218.5'	Qtz Biotite-Sericite-Garnet-Gneiss- well banded in high Quartz zones - sulphides (<5% Py) within Biotite bands.										
218.5'	228.0'	m.g. to c.g. Qtz-Hb-Porphyry or Gabbro altered - 223.5-224.5' - Qtz Carb veinlet with Biotite & Traces of Sulphides & long slender needles (tabular) - black metallic- some Talc.Molybdenite	B-2097	224.0'	225.2'	-	-	Nil	-	Tr	1.2'	Spec @ 223.0'
228.0"	241.0'	Qtz-Sericite-Biotite-Gneiss to Schist - high Quartz-pale grey in colour - a few amphibole zones - schistosity @ 65° to core axis - trace of pyrite along	B-2098	232.9'	240.7'	0.04	-	Nil	-		7.8'	Spec @ 237.5'-232.0'to 257.0':lost core 1.8'
241.0'	266.0'	m.g.-c.g. Qtz-Hb-Gneiss to f.g. schist, well banded (Gabbroic) - a few Qtz-Carb stringers - schistosity @ 80° to core axis										Spec @ 247.0' Spec @ 262.0'

Latitude: 90'Az 270° from point
Departure: 8+20N on L.7+50W
Elevation:
Azimuth: 135°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 1

Hole Number: K-7
Commenced: 25/7/62
Finished: 27/7/62
Depth: 297'
Logged by: H.D. Love

From	To	Formation	Sample No.	Assay Results From	To	Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
266.0'	266.5'	Quartz veinlet with pink feldspar									Specimen @ 276.0'
266.5'	277.0'	Qtz-Amp-Schist-v.f.g. - a few Qtz veinlets, much folded(wavy) in places - schistosity @ 70°-75° to core axis - lava? or intrusive									
277.0'	284.5'	Qtz-Biotite-Sericite-Garnet-Gneiss - banding @ 70°-75° to core axis Pyrite along fractures and traces disseminated elsewhere									Specimen @ 281.5'
284.5'	286.5'	Qtz-Hb-Schist-lava or intrusive? m.g. dark green in colour,qtz-carb-stringers & Slips									
286.5'	287.5'	Qtz-Biotite-Sericite-Schist (sedimentary?)									
287.5'	297.0'	Qtz-Hb-Schist with minor chlorite - folded to gneissic - sulphides - Nil - lava or intrusive									Specimen @ 290.5'
-	297.0'	End of hole									

DIAMOND DRILL RECORD

Latitude: 21+00S on Line 7+50W
Departure: -
Elevation: -
Azimuth: 180°
Dip: 50°

Property: KOZELA LAKE

Grid No. 1

Hole Number: KL-8
Commenced: 21/9/62
Finished: 22/9/62
Depth: 253'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
0'	8.0'	OVERBURDEN									Note. Overburden probably closer to 7'
8.0'	9.0'	Basalt slightly coarser grained than usual, gabbro-like - highly Chloritic - minor qtz vein alteration, largely amphibole.									core length 8.0'-9.0'- 2.0' Gneissosity 30° from normal plane of core axis.
9.0'	11.5'	As above.									Core lost 9.0-11.5'-0.6' Gneissosity 30° from
11.5'	15.0'	Chloritic, slightly coarser grained, amphibole rich, rather massive-like, Po - stringers, minor cross stringers.									normal plane of core axi Spec @ 9.2' Core lost11.5-15.0',0.
15.0	17.0	As above - rather massive, gneissic with spots of brown biotite.									Spec. @ 18.6.
17.0'	18.6'	Very highly chloritic, totally altered.									Core lost 18.7-26.0,3.7'
18.6	19.0	As above. Chlorite Schist - brown mica, carb, alteration. Brown colour med. grained - trace of sulphides.									Specimen @ 18.9'
19.0'	19.2'	Thin veins of sulphides, po, cpy, 5:5 in the above rock									
19.2'	19.6'	Brown biotite and carb. alteration									
19.6'	20.1'	Largely calcite with minor cp & po. 10-15% Ratio Po:Cpy=5:1. Ground core - pieces of 80% po in carb. qtz, rather crystalline rock cpy <1% - above probably qtz-carb-vein									

DIAMOND DRILL RECORD

Latitude: 21+00S on Line 7+50W
Departure: -
Elevation: -
Azimuth: 180°
Dip: 50°

Property: KOZELA LAKE

Grid No. 1

Hole Number: KL-8 (2)
Commenced: 21/9/62
Finished: 22/9/62
Depth: 253'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au		Width	Remarks
		some oxidation and leaching.										Spec @ 20.6'
20.1'	20.4'	Broken fragments - porous carb. rock.										
20.4'	20.6'	Calcite - qtz vein - minor sulphides, po & cpy with alteration-fuchsite brilliant green 1-3%. Generally leanly disseminated 5-10% po, <1% cpy, some rather massive but narrow veins.										
20.6'	20.9'	Amphibole and coarse grained carb.										
20.9'	21.1'	Qtz minor cpy & po. - 5%										
21.1	21.5'	Heavily dissem.sulph. in fractures and aroundgrains of qtz. 50% po, cpy 1-2%. quartzitic (sed)										
21.5'	25.2'	Highly brecciated siliceous slate, very hard - 80% sulphides - largely Po. Cpy 2-5% - Groundmass carb-qtz grains - black, somewhat graphetic in places, slate also seliceous. Sulphides chiefly as stringers and vein network with some diss.	1743	18.5'	26.3'	0.20	0.01	Nil	Tr		4.5'	Spec @ 25.7' Gneissosity 40° from normal plane of core axis.
26.0'	31.0?	Note: missing footage marker	1744	26.3'	30.2'	0.14	-	-	Tr		3.9'	

DIAMOND DRILL RECORD

Latitude: 21+00S on Line 7+50W
Departure: -
Elevation: -
Azimuth: 180°
Dip: 50°

Property: KOZELA LAKE

Grid No. 1

Hole Number: KL-8 (3)
Commenced: 21/9/62
Finished: 22/9/62
Depth: 253'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
25.2'	25.7'	Heavily diss sulph in fractures of sheared siliceous slate - very hard. 70% Po; 2-5% Cpy.									
25.7'	26.3'	Heavily diss. sulph. in a quartzitic rock - 50-60% Po, ± 1% cpy.									
26.3'	30.2'	Qtz vein with minor sulph.po & cpy <1%									
30.2'	30.4'	Diss to 60% po in qtzite.									Spec @ 30.0'
30.4'	31.3'	Highly altered sed. green fuchsite with qtz gneissic - largely siliceous & carb schistose - diss. sulph. to 10-15%	1745	30.2'	32.5'	0.14	Tr	Nil	Tr	2.0'	Spec 33.0'
31.3	31.5	Becomes massive grained - 5-6% Po.									Ground core
31.5	31.9	Rather massive - but sheared and altered - light colour quartzite. Some spotted or speckled green (fuchsite?) - (banded).									
31.9	32.2	Largely quartzite with green (fuchsite). stringers, Three, 30% minor sulphides 1-5%.	1746	32.5'	36.8'	0.34	0.06	Nil	Tr	4.3'	Spec. @ 36.8'
32.2	34.2	Near massive Po, 80% breccia - Qtz fragments and some slate - largely replaced cpy 1-3% qtz. in small frag. ¼ - 1 mm.	1747	36.8	39.4	0.14	Nil	Nil	Tr	2.6'	

DIAMOND DRILL RECORD

Latitude: 21+00S on Line 7+50W
Departure: -
Elevation: -
Azimuth: 180°
Dip: 50°

Property: KOZELA LAKE

Grid No. 1

Hole Number: KL-8 (4)
Commenced: 21/9/62
Finished: 22/9/62
Depth: 253'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
34.2	40.0	as above (32.2-34.2') to 90% Po - 1-5% Cpy 32.5-36.8' 40-50% Po.- 1-3% Cpy 36.8-39.4' Sulphide usually as stringers or vein network and asdissem. - Stringers of cpy 38.5.Garnetiferous schist (±2) with green(fuchsite?)									Spec. @ 39.5' Spec. @ 40.2' Gneissosity 60° from normal plane of core axis.
40.0	44.2'	Garnet schist, spotty - large xtals ¼" in biotite qtz sericite schist, minor sulphides, parallel to gneissosity.									Core lost 40.0-49.0 - 0.6. Gneissosity 50° from normal plane of core axis.
44.2	45.1'	Becomes fine grained with garnet evenly distributed.									
45.1	49.0'	Becomes schistose. Garnet biotite Quartz schist.	1748	49.0	54.0	0.09	-	-	Nil	5.0'	Gneissosity 50° from normal plane of core axis.
49.0	54.0'	Silty sed. finely laminated schistose - with qtz and shaly stringers - Biotite - secondary minor sulph. 5% po. Cpy trace. Rock Qtz Biotite Schist with shaly stringers. At 53.0-53.1 altered lava - now chloritic with brown-biotite.									Gneissosity 20° from normal plane of core axis contact.
54.0	54.5	Contact with gneiss & lava (basalt) chloritic.									
54.5	54.7	Garnet Qtz Biotite Gneiss									

DIAMOND DRILL RECORD

Latitude: 21+00S on Line 7+50W
Departure: -
Elevation: -
Azimuth: 180°
Dip: 50°

Property: KOZELA LAKE
Grid No. 1

Hole Number: KL-8 (5)
Commenced 21/9/62
Finished: 22/9/62
Depth: 253'
Logged By F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
54.7'	56.0'	Altered lavas - Chloritic minor qtz. stringers									Gneissosity 10° from normal plane of core axis.
56.0'	61.0'	Lava - basalt - no stringers - chlorite and amphibole.									Core gain 56.0'-61.0'0.7 Gneissosity 20° from normal plane of core axi
61.0'	64.0'	Lava - as above									Core gain 61-70, -0.2'
64.0'	64.8'	Siliceous sed-schist quartzitic - minor qtz veins at 67-68'									
64.0'	70.0'	- Lava - as before									No core lost 70-80' Gneissosity 20-30° fro normal plane of core axis at 70.0'
70.0'	80.0'	Largely chloritic with frequent qtzite & stringers. - Lava At 72.5'-73.0' Qtzitic with minor biotite - chl.- f.g. - becomes coarse grained 73.6'-73.8' At 75.0-75,6' - qtzite - gneissic with several qtz-carb cross cutting stringers - 90° to normal. Note, lava, chloritic basalt - except for above.									Spec. @ 70'
80.0'	84.0'	Highly altered basalt with interbedded qtzite - little or no sulphides.									Core lost 80-84.0' - 0.8 Gneissosity 40° from normal plane to core axis. Spec. @ 83.7'
84.0'	86.3'	Altered lava, very gneissic - highly altered to 86.3 - with little or no banding, chloritic. Note error in footage.									No core lost-84-86.3' Gneissosity 80° from normal plane of core axi

DIAMOND DRILL RECORD

Latitude: 21+00S on Line 7+50W
Departure: -
Elevation: -
Azimuth: 180°
Dip: 50°

Property: KOZELA LAKE
Grid No. 1

Hole Number: KL-8 (6)
Commenced: 21/9/62
Finished: 22/9/62
Depth: 253'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au		Width	Remarks
87.5'	87.0'	As above (84.0-86.3') - talc alteration.										No core lost 87.5-87.0' Gneissosity 30° from normal plane of core axis.
87.0'	89.0'	As above - cross fracture 90° to schistosity										Core lost 87.0-89.0.0.2' Gneissosity 30° from normal plane of core axis.
89.0	91.0'	As above. Highly chloritic talcose Basalt, siliceous banding - minor sed.										Core lost 89.0-91.0,0.5' Gneissosity 40° from normal plane of core axis.
91.0'	92.2'	Qtzite sed - with stringers biotite parallel to gneissosity in contact										
92.2	93.7'	Contact. Moderately altered with minor cross cutting stringers.										
93.7'	96.9'	Lavas altered										
96.9'	97.4'	Qtzitic sediments.										
.4'	97.7'	Lavas										Core lost 93.7'-102.3'
97.7'	101.0	Largely a quartzitic banded sed, with minor thin bands of chloritic lavas. Gneissic										Gneissosity 30° from normal plane of core axis.
101.0'	102.3	Chloritic gneissic lavas.										
102.3'	110.3'	Sedimentary-Qtz carb. gneiss.										Core lost 102.3-110.3-1.3'
110.3'	111.3'	Sed. as above. Contact with lava 111.3										

DIAMOND DRILL RECORD

Latitude: 21+00S on Line 7+50W
Departure: -
Elevation: -
Azimuth: 180°
Dip: 50°

Property: KOZELA LAKE

Grid No. 1

Hole Number: KL-8 (7)
Commenced: 21/9/62
Finished: 22/9/62
Depth: 253'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu	Ni	Zn	oz.Au	Width	Remarks
111.3'	112.0	Lava as before - Slightly coarse grained no stringers - occasional cross cutting - at steep angle to gneissosity. Gneissic and normal chloritization - minor stringers of qtz. with po and cpy. at 114.3-116.3' irregular interbedding of altered sediments - now quartzitic with minor brown sec. biotite along contacts.									Gneissosity 30° from normal plane of core axis. Core lost 111.3'-118.0',0.2' Gneissosity 30° from normal plane of core axis.Core gain 118.0'-128.0'; 0.2'
118.0'	128.0	Altered lava (balsaltic) gneissic and chloritic									
128.2'	128.4'	Qtz with one stringer of po & cpy-narrow									Core lost 128.0'-135.5; 0.7'
128.0'	131.6'	Altered lava (basaltic) as above									
31.6'	132.0'	Highly altered sediment largely quartzitic with minor stringers of brown biotite.									
132.0'	133.2'	Highly altered, chloritic with slightly spotted nature - massive-like - altered lava.									No core lost 135.5'-145.6'. Gneissosity 30° from normal plane of core axis.
133.2'	135.7'	As above.									
135.7'	136.1'	Sediment - quartzitic, as before									
136.1	138.0'	Highly altered lava - chloritic									

DIAMOND DRILL RECORD

Latitude: 21+00S on Line 7+50W
Departure: -
Elevation: -
Azimuth: 180°
Dip: 50°

Property: KOZELA LAKE
Grid No. 1

Hole Number: KL-8 (8)
Commenced: 21/9/62
Finished: 22/9/62
Depth: 253'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
138.0'	138.5'	Sediment - quartzitic									
138.5'	145.6'	Chloritic lava - frequent quartz stringers.									Core lost 145.3'-152.3'- 0.6' Gneissosity 10-20 from normal plane of core axis.
145.6'	152.3'	As above - qtz cutting gneissosity and fine qtz stringers parallel to the gneissosity.									Core lost 145.3-152.3'- 0.6' Gneissosity 10-20° from normal plane of C.A.
152.3'	158.0'	Altered lava									No core lost 152.3-158.0'
158.0	161.9	Altered chloritic lava minor stringers.									Core gain 158.0-162.5-
161.9'	162.5'	Sediment siliceous qtzitic -qtz sericite schist.									Contact 40° from normal plane of core axis.
162.5'	164.6'	Quartzitic with minor biotite stringers.									
164.6'	165.6'	Lavas highly altered chloritic, talcose, carb, brown mica - rather massive(recrystallized)									
165.6'	166.6'	Sediment, as above.									
166.6'	167.5'	Lavas, highly altered recrystallized massive									Gneissosity 50° from normal plane of core axis.
167.5'	172.2'	Near quartzite-quartzite with occasional .5' stringers of alteration-lava - chl.biotite-carb.									No core lost 162.5-172.5

DIAMOND DRILL RECORD

Latitude: 21+00S on Line 7+50W
Departure: -
Elevation: -
Azimuth: 180°
Dip: 50°

Property: KOZELA LAKE

Grid No. 1

Hole Number: KL-8 (9)
Commenced: 21/9/62
Finished: 22/9/62
Depth: 253'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
172.2'	175.5'	Lavas altered									
172.5'	182.5'	Largely massive (gneissic) gabbro-like (basalt) - finely to med. grained - amphibole - rich chloritic with faint stringers. (Qtz stringer.3') 182' (Qtz stringer.1') 181'									No core lost 172.5'-182.5'.Gneissosity 30° from normal plane of core axis.
182.5'	187.0'	Much the same as above. Qtz stringers with brick red and leaf green alterations along contact at 185.0' & 187.0'									Core lost 182.5'-187.0.7' Gneissosity 40° from normal plane of core axis.
187.0'	195.0'	As above. Minor garnetiferous sed gneiss (.2') at 194.5'									Core gain 187.0'-195.0 0.2'
195.0'	204.0'	Lavas - gneissic - med.grained rather massive gabbroic-like chlorite pyrite stringers 197-197.7'.									Spec @ 204.0' No core lost 195.0'-202.0' Gneissosity 50° from normal plane of C.A.
204.0	210.7'	As above. Qtz stringers cutting gneissosity at 80° at 208.0°									Gneissosity 30° from normal plane of core axis at 204.0'.
210.7'	211.5'	Gabbroic - lava, med.grd.gneissic									Core lost 204.0-210.7' 0.9'.Gneiss.30° from
211.5	219.0'	Contact - sed.quartzitic with minor narrow bands of altered lavas.Chlenitic lava 213.8-214.1'									normal plane of C.A. Core lost 210.7-219.7. 0.2' Gneissosity 50° from
219.0	219.5	Qtz. barren - injected.									normal plane of C.A.at 210.7'.
219.5.	220.0	Quartz									Core lost 219.0-223.8. 1.3'

DIAMOND DRILL RECORD

Latitude: 21+00S on Line 7+50W
Departure: -
Elevation: -
Azimuth: 180°
Dip: 50°

Property: KOZELA LAKE

Grid No.1

Hole Number: KL-8 (10)
Commenced: 21/9/62
Finished: 22/9/62
Depth: 253'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
220.0	222.0	Gabbro - coarse grained									Spec. 223.7'
222.0	223.7	Quartz									Gneissosity 20° from normal plane of C.A.
223.7	233.2	Gabbro, med. grained, gneissic, chloritic									Core lost 223.7-233.2, 1.9'. Core lost 233.2-242.4, 0.5'.
233.2	236.6	Becomes very schistose gabbro - trace of sulphides									Spec. @ 237.5'
236.6	237.6'	Siliceous gabbro "bleached" green, and brown biotite spotted. minor Py, <1%									Gneissosity 30° from normal plane of core axis.
237.6	242.3'	Altered siliceous zone - gneissosity distroyed - granular-qtz with sharp contact. Gradually increases to siliceous knotty texture from 233.0°									Spec. @ 253.0'
242.3	255'	Knotty gneissic gabbro to 244 - decreases in grain size with faint and small knots									Note all angles measured in a counter clockwise direction except where indicated as reverse, clockwise.
-	255'	END OF HOLE									Core recovery 94.6%

Latitude: 250'Az. 0°
Departure: from TAG 1087
Elevation: -
Azimuth: 120°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 3 Ext

Hole Number: KL-10
Commenced: 5/8/62(1Shift
Finished: 8/8/62
Depth: 284'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
0'	15'	OVERBURDEN									Approx.98.0% core recovery.
15.0'	55.0'	LAVA-Qtz-Hb-Schist-laminated with Qtz. & Qtz-Carbonate stringers; much broken at beginning with limonite along fracture or cleavage faces; i.e. oxidized & leached; dark green-black in colour.									Spec @ 3.90'
55.0'	58.0'	LAVA-becoming micaceous - to slaty Qtz-Biotite-Gneiss - up to 40 or 50% Sulphides. Mainly Pyrrhotite -55.0-56.0'-high Qtz-Biotite-Sericite with minor amphibole(HB) Schistosity or Gneissosity is at 70° to core axis; i.e. dip of bedding 60° westerly.	B-2099	57.6'	61.6'	0.05	Nil	Nil	Nil	4.0'	
58.0'	62.0'	Qtz-Mica (Biotite & Minor Sericite) Schist up to 20% sulphides, mainly Po, only a trace of Cpy.	B-2100	61.6'	72.0'	0.02'	-	Nil	Tr.	10.4'	Spec @ 64.0'
62.0'	81.3'	Qtz.Biotite-Gneiss-Slaty-up to 60% Sulphides, mainly pyrrhotite - with some Pyrite & chalcopyrite (<1%)	B-2101	72.0'	81.5'	0.05	Nil	Nil	Tr.	9.5'	Spec. @ 65.2'
			B-2102	81.5'	82.9'	0.02	-	Nil	Nil	1.4'	Spec. @ 81.2'
81.3'	83.0'	High Qtz-Mica-Gneiss to Schist - <5% Sulphides - Po									
83.0'	284.0'	Lava - Andesitic? Qtz-Hb-Schist -									Spec @ 100.5'

Latitude: 250'Az 0°
Departure: from TAG 1087
Elevation: -
Azimuth: 120°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 3 Ext.

Hole Number: KL-10
Commenced 5/8/62(lshift)
Finished: 8/8/62
Depth: 284'
Logged by H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
		-numerous, Quartz Carb.veinlets, giving lamination to lava - sulphides - Nil.									
		-86.0'-87.0' - Quartz-Calcite vein- with a trace of Py & Po									
		-banding in lava varies from 75° to 85 or 90° to core axis.									
—	284'	End of hole.									

Latitude: 21+00W on L.40 N
Departure: 130'N.
Elevation: -
Azimuth: 120°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 3 Ext.

Hole Number: KL-11
Commenced: 9/8/62
Finished: 12/8/62
Depth: 433'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
0'	15'	OVERBURDEN									95.0% core recovery
15'	31.5'	LAVA - or Qtz-Hb-Schist with Qtz. & Carb.Stringers; f.g.crenulated in places, but average dip is 65° to core axis - 25.1'-25.2' - massive sulphide veinlet - Po & Py									SPEC @ 20.0
31.5'	35.0'	LAVA - with increase in Quartz-Carbonate; green amphibole xtals dissem. through Qtz-Carb. zones;- in places appearing gabbroic - traces of Po & Py									SPEC @ 36.0'
35.0'	36.5'	Quartz-Sericite-Schist - banded at 65° to core axis - sulphides - Nil									
36.5'	40.0'	Qtz-Mica-Biotite-Amphibole-Schist to Gneiss: Schistosity @ 60° to core axis - Sulphides, trace, with Qtz-veins + traces of Po, Py disseminated	B-2103	39.6'	42.4'	0.03	-	-	Tr	2.8'	SPEC @ 37.5'
40.0'	42.5'	Qtz Carbonate-Zone-fractured - 20-30% Po, Trace of Cpy dissem. 40.0' - 40.2' - massive Po.									
42.5'	53.5'	Altered Gabbro - up to 10 or 15% sulphides disseminated, mainly Po and a trace Cpy. -faintly gneissic @ 45-50° to core	B-2104	45.0'	50.0'	0.04	-	-	Tr	5.0'	

Latitude: 21+00W on L.40N
Departure: 130'N
Elevation: -
Azimuth: 120°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 3 Ext

Hole Number: KL-11
Commenced: 9/8/62
Finished: 12/8/62
Depth: 433'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
		axis in places.	B-2105	50.2'	60.2'	0.01	-	-	Tr.	10.0'	
53.5'	65.0'	LAVA - numerous Qtz-Carbonate stringers; banding @ 70° to core axis	B-2106	60.2'	65.2'	0.02	-	-	Tr.	5.0'	
65.0'	67.0'	Qtz-Carb-Biotite with some Amphibolite. 65.5'-65.6'- slaty zone - 90%. Po, Py - only a trace of Cpy -smaller slaty zone elsewhere - up to 50% sulphides- Avg.overall	B-2107	65.2'	67.2'	0.02	-	-	Tr.	2.0'	
67.0'	70.0'	LAVA - finely laminated - 69.5' - 69.6' - slaty zone - up to 70% Po. - only traces of sulphides elsewhere									
70.0"	81.0"	Qtz-Mica-Schist to Gneiss - a few slaty zones up to 77.0' with 20-30% Po.	B-2108	70.5'	76.9'	0.03	-	-	Nil	6.4'	SPEC @ 79.0'
		-77.0' - 81.0' - gneissic, crenulated increase in slaty material and up to 50% Po, with a trace of Cpy throughout.	B-2109	76.9'	81.0'	0.15'	-	Nil	Tr	4.1'	SPEC @ 81.0'
81.0'	129.6'	LAVA - laminated @ 65° to core axis, crenulated from 95'-115'									SPEC @ 91.0'
129.6'	133.8'	Highly altered - Lava - much Biotite 129.6'-127.0' - up to 50% Po, trace Cpy only minor amounts (<5%) elsewhere	B-2110	129.6'	133.8'	0.05	-	-	Tr	4.2'	SPEC @ 132.5'

Latitude: 21+00W on L.40N
Departure: 130'N
Elevation: -
Azimuth: 120°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 3 Ext

Hole Number: KL-11
Commenced: 9/8/62
Finished: 12/8/62
Depth: 433'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
133.8'	138.0'	QUARTZ-CARBONATE- ZONE Traces of sulphides - Zinc? throughout	B-2111	133.8'	137.7'	-	-	Nil	Tr.	3.9'	Spec. @ 135.4'
138.0'	162.7'	Lava - laminated @ 75-80° to core axis									
162.7'	163.8'	Slaty-Qtz-Mica-Gneiss - up to 90% sulphides - Po. & Py.	B-2112	162.7'	163.8'	0.10	Tr	-	Tr.	1.1'	
163.8'	167.0'	Qtz-Mica (Biotite)-Talc-Schist - Sulphides - Nil									
167.0'	169.5'	LAVA - Laminated, as above									
169.5'	170.5'	BRECCIATED, SLATY-QTZ-CARB Zone - up to 90% Po, Py, with only a trace of Cpy.	B-2114	169.5'	170.5'	0.08	0.04	-	Tr.	0.5'	
170.5'	190.1'	QTZ-BIOTITE-TALC-SCHIST- up to 20% Sulphides from 170.5'-173.0' 173.0'-190.1' - Sulphides - Nil	B-2115	170.5'	171.9'	0.04	-	-	Nil	1.1'	Spec @ 188.0'
190.1'	192.1'	QUARTZ-CARB-VEINLET - 191.0'-192.0' - up to 80% Po., Py, & trace Cpy. -190.1-191.0' up to 20% sulphides	B-2116	190.1'	192.1'	0.25	-	-	Tr	2.0'	Spec. @ 191.0'
192.1'	379.0'	LAVA - avg.dip - 65°-70°- to core axis - 232.6'-233.5' - gabbroic, gradational contact - crenulated from 266.0'-269.0';365.0'-368.0'; 304.0'-312.0'; 315.0'-322.0'									Spec. @ 300.0' Spec. @ 3.68.0'

Latitude: 21+00W on L.40N
Departure: 130'N.
Elevation: -
Azimuth: 120°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 3 Ext

Hole Number: KL-11
Commenced: 9/8/62
Finished: 12/8/62
Depth: 433'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
		Traces of Po. & Cpy. along some stringers - 70° to core axis									
379.0	391.1'	Gabbro - almost massive to gneissic - biotite stringers throughout - Traces of Po along Qtz veins.									Spec. @ 380.0'
391.1'	433.0'	LAVA - 406.0' - 412.0' - crenulated 412.0'-412.2' - massive sulphide veinlet, mainly Po and Trace Cpy									
	433.0'	End of Hole									

DIAMOND DRILL RECORD

Location: 350'Az 270° from TAG 1082
or
Grid: 1.25N - 1+50 W
Elevation: -
Azimuth: 90°
Dip: 50°

Property: KOZELA LAKE

GRID NO. 3 EXT.

Hole Number: KL-12
Commenced: 7/9/62
Finished: 9/9/52
Depth: 430.0'
Logged By: P.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
0'	10.0'	OVERBURDEN									
10.0'	13.5'	Qtz-Amphibole Gneiss-Chloritic, fine grained - dark grey green - faintly bedded (gneissosity). Cleavage parallel to above. May be lava.									Gneissosity 70° from normal plane of core axis. Core lost 10-13.5', 0.9' Spec. @ 13.6'
13.5'	18.0'	Becomes coarser grained gabbroic-like.									No core lost Gneissosity 70° from normal plane of core.
18.0'	22.0'	Becomes slightly spotted - rich in amph., chloritic									Core lost 18.0-22.0', 0.6'.
22.0'	27.0'	As above									Gneissosity 50° from normal plane of core
27.0'	31.0'	Very fine grained - chloritic - basaltic.									axis.Core lost 22.0-27.0; 0.5'.Spec @ 26.0' Core lost 27.0-31.0' - 0.8'.
31.0'	37.0'	As above - slightly coarser grd. and gneissic. Amph. not heavily altered. Basaltic. Qtz vein 36.0-36.5' " " 36.5-37.0' with minor Sulphides.									Core lost 31.0-37.0-0.7 Gneissosity 50° from normal plane of C.A.
37.0	40.5	as above									No core lost. Gneissosity 30° from normal plane of C.A.
40.5	48.0	As above - occasional qtz stringer-gneissic but no bedding apparent. Minor sulphides - spotty.									Gneissosity 60° from normal plane of core axis. No core lost.

350'Az. 270° from TAG 1082
or L.25N - 1+50 W

Azimuth: 90°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE - Grid No. 3 Ext.

Hole No.: KL-12 (2)
Commenced: 7/9/62
Finished: 9/9/52
Depth: 430.0'
Logged by: F.J.Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au		Width	Remarks
48.0'	50.5'	Very fine grained, hard, dark green qtz amphibole slightly altered - minor thin stringers of Po & Py										
50.5'	51.5'	Near massive sulphides. 80% Po, 1% Cpy. Cpy as fine stringers and diss. specks in po.	1735	50.5'	51.5'	0.20	0.02	Nil	Tr		1.0'	Gneissosity 20° from normal plane of core axis.
51.5	58.4	Qtz amphibole - f.g. with thin qtz stringers, mostly amphibole, little qtz. evident, similar to a basalt.										No core lost 48-58.4'
58.4'	68.5'	as above										No core lost 58.4-68.6
68.5'	76.4'	Similar to above to 70.0'. Drag folded & crenulated qtz.stringers. At banding disappears and becomes lighter qtzitic. 76.4-78.4'										
78.4'	81.4'	Diss. Po. 5% Cpy 4% in highly altered and sheared. Quartzitic - brown biotite. Becomes quartzitic 20% Po, 4% Cpy 78.4'-79.7' Diss. to 81.4'	1736	78.4'	81.4'	0.03	-	-	Tr		3.0'	Core lost 78.9'-88.0'. 0.7. Gneissosity 20° from normal plane of core axis.
81.0'	83.0'	As before. sulphides.										
83.0'	98.4'	As before - qtz stringers abundant 91.0'-92.0' Qtz. Parallel to core 94.0-95.0'										No core lost 88.0'-98.4' Gneissosity 30°from normal to plane of c.a.

350'Az. 270° from TAG 1082
or L.25 N - 1+50 W

Azimuth: 90°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE - Grid No. 3 AxT

Hole No: KL-12 (3)
Commenced: 7/9/62
Finished: 9/9/62
Depth: 430'
Logged by: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
98.4'	109.0'	Becomes quartzitic - no stringers- minor thin sulphide stringers. 108-110' - 2-5% Po - trace Cpy									
109.0'	114.8'	As above.									
14.8'	120.9'	Heavily diss.sulphides in a qtz knotty gneiss to a qtz breccia - pieces of qtz & gneiss,minor carb at 119.0' - 60° Po, 1% Cpy (usually in fractures).	1737	114.8'	120.9'	0.20	0.01'	Tr.	Tr.	4.1'	Spec @ 117.5' Spec @ 120.9' No core lost 119.5'- 130'
120.9'	123.9'	Highly altered - brown biotite, qtz, chlorite.									
123.9'	125.6'	Patchy diss. of sulphides, Po- 15-20% - calcite veining frequent (sed.)	1738	123.9'	125.6'	0.16	Tr	-	Nil	1.7'	Gneissosity 40° from normal plane of core axis.
125.6'	126.6'	Qtz-minor sulphides									
26.6'	130.0'	Qtzitic altered sed. with minor sulphides.									Gneissosity 20° from normal plane of core
130.0'	130.8'	Massive 80% sulphides, minor cpy. in breccia.	1739	130.0'	133.3'	0.14	0.02	Nil	Tr.	3.3'	axis No core lost 130-140.5'
130.8'	133.3	As above massive zone.									Spec. @ 134.8
133.3'	142.0'	Med. grained gabbro - gneissic but becomes fine grained-amphibole rich faintly banded - lighter colour chloritic to 142.0'									No core lost - 140.5'- 149.7'

350'Az. 270° from TAG 1082
or L.25 N - 1+50 W

Azimuth: 90°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE - Grid No. 3 Ext.

Hole No: KL-12
Commenced: 7/9/62 (4)
Finished 9/9/62
Depth 430'
Logged by: F.J. Kozela

From	To	Formation	Sample No.	From	To	% Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
142.0'	149.7'	Highly banded with carb, brown biotite and chlorite. Minor sulphides. Qtz Amphibole Gneiss (Basalt)									Gneissosity 30° from normal plane of core axis.
											Spec. @ 145.0
149.7	155.3	as above									No core lost 149.7-160.0'
155.3	166.0	Amphibole rich with slight banding to 160.0' few qtz stringers.									Core lost 160-171 -0.7
											Gneissosity 20° from normal plane of core axis
166.0'	167.0'	Spotted & altered with minor 2-3% thin stringers Po. Minor Cpy									
		Slightly coarser grained, but similar to qtz amphibole gneiss. (basalt)									No core lost 171-176.5'
167.0	174.5'	as above									
174.5'	175.5'	Altered with minor sulphides - brown biotite.									
75.5'	176.5'	Carb & quartz biotite stringers.									
176.5	177.5	Altered, loose, gneissic generally equigranular qtz biotite (carb) with minor po stringers.									Gneissosity 10° from normal plane of core axis.
177.5'	186.5'	Much the same as before - minor stringers qtz amphibole gneiss (basalt) hard unaltered minor cross stringers qtz-carb and parallel to gneissosity - becomes rather massive-like f.g. with little gneissosity.									Core gain 176.5'-106.5' 0.4'
											Gneissosity 20° from normal plane of core axis

350' Az. 270° from TAG 1082
or L.25 N - 1+50 W

Azimuth: 90°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE - Grid No. 3 (10)

Hole No: KL-12 (5)
Commenced: 7/9/62
Finished: 9/9/62
Depth: 430'
Logged by: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
186.5'	195.0'	As above									Core lost 186.5'-195.0'
		Stringers common - every ½ inch									0.5'
		(Qtz-amp)									Gneissosity 20° from
											normal of core axis
195.0	205.0	As above. Stringers common parallel									fold 197.5-198.5'
		to and 90° to gneissosity									Gneissosity 0 to 70 from
											normal plane of core axis
205.0'	215.0'	As above - (qtz) amphibole gneiss									Core gain 195.0-205.0' -
		(basalt)									0.2'
											Spec. @ 215°
215.0'	225.0'	As above									Gneissosity 20° from nor-
											mal plane of core axis.
225.0'	235.0'	As above. Stringers less abundant									Gneissosity 40° from
											normal plane of core axis
235.0'	237.5'	Highly altered - brown biotite,									No core lost.
		carb, talc.									Folding @ 235.0'-237.5'
237.5'	345.4'	Rather massive - like little stringers									Core ? not lost
245.4'	253.5'	Minor biotite, carb. alteration -									Core lost 245.4-253.5'
		becoming slightly coarser grained									0.3'
		Low cross-cutting fractures.									
253.5'	265.0'	As above. Becoming slightly									Gneissosity 20° from
		spotted gneiss at 257.6' with									normal plane of core
		faint qtz stringers - chloritic									axis at 255'
		becoming coarser to 264.0'									Spec. 263.2'
		more like fine to medium grained									
		Gabbro.									
265.0'	274.5'	Becoming fine grained with fre-									Gneissosity 30° from nor-
		quent occurrence of qtz stringers									malplane of core axis

350'Az. 270° from TAG 1082
or L.25N - 1+50 W

Azimuth: 90°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE - Grid No. 3 Ext.

Hole No. KL-12 (6)
Commenced: 7/9/62
Finished: 9/9/62
Depth: 430'
Logged by: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
		(qtz,amphibole) basalt									Core lost 274.5'-285.0' 0.6'
274.5'	285.0'	As above - minor alteration (chloritic qtz stringers)									Gneissosity 40° from normal plane of core axis
285.0'	295.5'	As above - minor qtz to 286.0' - few to 295.0' - (stringers)									Core lost 285.0'-285.5' 0.2'
295.5'	305.5'	As above - numerous qtz stringers, harder - altered - chloritic minor sulphides - qtz-secondary									Gneissosity 30° from normal plane of core axis.
305.5'	316.0'	Rock as above - minor sulph.with sec. qtz stringers - also primary stringers syngenetic (shearing)									Gneissosity 20° from normal plane of core axis. No core lost.
316.0'	318.0'	Quartz									No core lost 316-326.1
318.0'	326.5'	As above - qtz common throughout									
326.5'	326.6'	Qtz with lava									
326.6'	326.9'	Carb (calcite)									
326.9	527.1'	Quartz - Traces of Po and Cpy <10% in above									
											Gneissosity 50° from
327.1	337'	Same rock - stringers not so common.									normal plane of core axis
											Gneissosity 20° from nor-
337.0'	345.0'	Same rock - altered brown biotite f.g. chloritic (344.5-345.0')									mal plane of c.a. at 336; No core lost 337-345.0'

L 350'Az. 270° from TAG 1082
D or L.25N - 1+50W
E -
Azimuth: 90°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE - Grid No. 3 Ext.

Hole No. KL-12 (7)
Commenced: 7/9/92
Finished: 9/9/62
Depth: 430'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
345.0'	354.0'	As above - minor alteration and stringers.									No core lost 345-354' Gneissosity 10-15° from normal plane of c.a.
354.0'	360.0'	Frequent stringers - minor sulphides. Minor grinding 354.0'-355'									No core lost 354-360'
360.0'	368.0'	As above. Qtz parallel to core (carb) minor sulphides 374-375'									Core lost 360.0'-368.0'-0.7' Gneissosity 10°from normal plane of core axis.Core lost 368-375.5
368.0'	375.0'	As above. Carb. 376.0'376.2' alteration: chl.bio. etc. 376.2-376.6'									
375.0'	385.5	As above. Crenulated with cross-fractures (qtz veins) at 380.0' Narrow stringer ¼-½" alteration biotite,chl, qtz. with minor py, cpy, qtz. and alteration with minor sulph. 384.8'-385.0'									Core lost 375.0-385.5' .5' Gneissosity 10° from normal planes of core axis at 380'.
385.5'	394.0	As above - few qtz stringers @ 388' and 393'- 394.0'									No core lost 385.5-394.0'
394.0'	404.4'	As above - frequent qtz stringers									No core lost 394.0'-404.4'. Gneissosity 0°-5° from normal plane of core axis.
404.4'	410.0'	As above. Slight gold at 404.0' crenulated stringers at 407.5' & steep dip.									Gneissosity 30° from normal plane of c.a.
410.0'	418.0'	As above. Thread-like stringers, at Po,Py (¼") Qtz 411.3-411.5' 412.3'-412.5'									Core lost 404.4-410.0' 0.5' Spec. @ 418.0'

350'Az, 270° from TAG 1082
or L.25 N = 1+ 50 W
E -
Azimuth: 90°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE - Grid No. 3 EXT-

Hole No. KL-12 (8)
Commenced: 7/9/92
Finished: 9/9/92
Depth: 430'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	Assay Results From	To	Cu.	Ni.	Zn.	oz.Au	Width	Remarks
410.0'	418.0	three ½" stringers, po, py.									Gneissosity 20° from normal plane of core axis.
(cont'd)											
											Core lost 410.0-418.0' 0.9'
18.0'	426.0'	As above									No core lost 418.0-426.0'
		Py stringers 1% 425.0 to 426.0'									Gneissosity 50° from normal plane of c.a.
											Spec. @ 428.0'
426.0'	430.0	As above - Qtz - 426'-426.3' becomes rather granular massive-like - gabbroic - highly altered (folds).									No core lost 426.0-430.0'
											Gneissosity 50° from normal plane of core axis.
											Note angle measured from normal plane in a counter clockwise direction - except as indicated as reverse, in a clockwise direction.
	430.0'	END OF HOLE									
		Core Recovery 98.0%									

DIAMOND DRILL RECORD

Latitude: Line 10S, 9+50E (TAG 1054)
Departure: 100' 210°
Elevation: -
Azimuth: 30°
Dip: 50°

Property: KOZELA LAKE, Grid No. 3

Hole Number: KL 13
Commenced: Sept.15/62
Finished: Sept.16/62
Depth: 262.4'
Logged By: F. J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu	Ni	Zn	oz.Au	Width	Remarks
0'	8.0'	OVERBURDEN									
8.0'	14.0'	Dark green, fine grained, highly sheared, gneissic, laminated with thin qtz stringers - chloritic Lava - Basalt									Gneissosity 10° from normal plane of core axis. Core lost 8-14, 3.4'
14.0'	15.0'	As above									Gneissosity 30° from normal plane of core, axis. Core lost 14-15, 0.2
15.0'	18.0'	Qtz carb. stringers developed parallel to gneissosity - OK as above.									Gneissosity 20° from normal plane of core axis Core lost 15-18' - 1.8'
18.0'	20.0'	As above.									Gneissosity 35° from normal plane of core axis. Core lost 18-20', 1.0'
20.0'	21.0'	As above, carb. stringers become progressively pronounced, (wider), chloritization heavier.									Gneissosity 30° from normal plane of core axis Core lost 20-21', 0.3'
21.0'	23.0'	As above At 22.3' qtz vein with minor sulphides (0.1' wide)									Gneissosity 25° from normal plane of core axis Core lost 21-23, 0.4'
23.0'	26.0'	As above. Qtz-Carb stringers more numerous e.g. 5 stringees 1 mm. wide per .1'									Gneissosity 25° from normal plane of core axis. Core lost 21-23', 0.4' Core lost 23-26-0.1' Crenulations begin at 25.5'
26.0'	30.0'	Qtz carb vein, .1' wide, with minor spect of po, cpy rock as above.									Gneissosity 25° from normal plane of core axis Core lost 26-30', 0.5'

DIAMOND DRILL RECORD

Latitude: Line 10S, 9+50E (Tag 1054)
Departure: 100'-210°
Elevation: -
Azimuth: 30°
Dip: 50°

Property: KOZELA LAKE, Grid No.3

Hole Number: KL 13 (2)
Commenced: 15/9/62
Finished: 16/9/62
Depth: 262.4'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
30.0'	33.0'	Qtz-Carb stringer network to 50% of rock. As above.									Core picked up 30-33,0.3 Gneissosity 40° from nor mal plane of core axis.
33.0'	35.0'	As above - less qtz carb veins & stringers.									Gneissosity 40° from nor plane of core axis. Core lost 33-35°,1.0'
35.0'	39.9'	As above - less qtz carb stringers									Gneissosity 25° from nor mal plane of c.a. @ 36.0 Core lost 35-39', 1.6'
39.9'	43.0'	As above. Crenulations from 41.0'-42.0'									Gneissosity 0° from nor- mal plane of c.a.41.0-42 Core lost 39.9'-43',0
43.0'	48.5'	Carb 1 to 2' @ 43.2'. Same rock as above.									Gneissosity 30° from n mal plane ofcore axis. Core lost 43.0-48.5,1.7'
48.5'	53.0'	As above. Carb-stringers absent chloritization increases.Crenu- lated @ 51.3'. Carb stringers .1 @ 51.8' minor sulphides.									Gneissosity 10° from nor mal plane of c.a.@ 48.5' Gneissosity 0° from nor- mal plane of c.a. @ 48.8 (crenulated)
53.0'	57.0'	As above - decrease in carb. stringers.									Gneissosity 40° from nor mal plane of c.a.@51.8' Gneissosity 40° from nor mal plane of core axis.
53.											Core lost 53.0-57.0,1.5' Spec. 57.0'
61.0'	63.9'	As above.									Gneissosity 35° from nor mal plane of c.a. Core lost 57.0'-61.0',0.2'
63.9'	69.0'	As above.									Gneissosity 50° from nor mal plane of c.a.@61.0' Core lost 61-63.9,1.8' Core lost 63.9-69.0,3.1'

DIAMOND DRILL RECORD

Latitude: Line 10S, 9+50E (Tag 1054)
Departure: 100'-210°
Elevation: -
Azimuth: 30°
Dip: 50°

Property: KOZELA LAKE, Grid No. 3

Hole Number: KL-13 (3)
Commenced: 15/9/62
Finished: 16/9/62
Depth: 262.4'
Logged By: F. J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	oz.Ag.	Width	Remarks
69.0'	69.2'	Approaching contact area - carbonitized lava - vuggy - solution cavities minor sulphides py, po. oxidizated - crumbly - amorphous dark grey										Structure 40° from normal plane of core axis. Core lost 69.0-73.4,2.5' grinding @ 69.0'
69.2'	69.8'	Coarsely granular amorph.-carb-sericite (Feldspar) Schist - finely dissem. sulph.po,cpy,py(10-15%) vuggy at both ends.	1760	69.3'	70.3'	0.09	0.01	-	-	Tr	1.0'	Probably much lost & ground core.
69.8'	70.6'	Crs grained - light green grey - carbonitized gabbro sericite schist minor sulphides dissem.	1761	70.3'	71.5'	0.37	0.04	Nil	0.005	Tr	1.2	Structure 60° from normal plane of core axis.
70.6'	71.6'	Near massive sulphides 80-95% po, cpy 1-2% in highly brecciated slate - 2 generations of po, 1st replacing po - 2nd fracture filling & replacing former - only small black frags ½"-¼" of slate. Remain - secondary qtz carb - grinding above and below section.										Structure 40° from normal plane of core axis
71.6'	71.8'	Med-grd-gneissic gabbro highly altered carb - chl-ser.geo.with finely diss.sulph., po, py (cpy ?)5-7%										Gneissosity 40° from normal of core axis. Note core missing.
71.8'	73.4'	Lost core in section from 69-73.4'										Lost core 73.4-78,1.2'
73.4'	74.4'	Highly altered - m.g. gabbro - carbonitized vuggy - solution cavities light grey - 50% mafics	1762	73.4	74.0	0.14	Nil	-	Tr		1.0'	Gneissosity 30° from normal plane of core ax

DIAMOND DRILL RECORD

Latitude: Line 10S, 9+50E (Tag 1054)
Departure: 100'-210°
Elevation: -
Azimuth: 30°
Dip: 50°

Property: KOZELA LAKE - Grid No. 3

Hole Number: KL-13 (4)
Commenced: 15/9/62
Finished: 16/9/62
Depth: 262.4'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	ozAg.	Width	Remarks
73.4' (cont'd)	74.4'	Gneissic - minor sulphides, po, py, cpy 5-10%.										
74.4'	74.8'	Near massive sulphides 80-90% 60-70% py; 10-20% po (Cpy?) Gabbroic texture - qtz mafics - carb blebs	1763	74.0	76.5'	0.14	Tr	Nil	Tr.	Tr.	2.5'	
74.8	75.4'	Massive pyritic with minor euhedral py cubes at top - decreasing tp massive po, cpy as diss. & around qtz & Hb grains 1-5% cpy of massive po particularly last .1'	1764	76.5'	78.0	0.11	Nil	-	Tr		1.5'	
75.4'	76.9'	Predominately white qtz with po & cpy filling fracture & vugs. Replacing qtz ? (sed?) 10-20% - grinding										Note missing core.
76.9	78.0	Lost core										
78.0	79.1'	Qtz-biotite gneiss to chl.sericite schist light green to white, crenulated 1.5% po, cpy, trace.	1765	78.0	79.4	0.09	-	-	Nil		1.3'	Gneissosity 60° from normal plane of c.a. Core lost 78-87-5.0'
79.1	79.3	Similar to above - sheared quartzitic slate - grinding										
79.3	79.5	Gabbro - highly altered m.g. with some sed. at top - gneissic qtz biotite below - carbonitization - vuggy										Gneissosity 60° from normal plane of c.a.

Latitude: Line 10S, 9+50E (Tag 1054)
Departure: 100'-210°
Elevation: -
Azimuth: 30°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE - Grid No.3

Hole Number: KL-13 (5)
Commenced: 15/9/62
Finished: 16/9/62
Depth: 262.4'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
79.3 (cont'd)	79.5	5-15% po - cpy trace - spotted (Qtz) carb. 20%									
79.5'	80'	Qtz fractured with po, chiefly minor py (cpy?) to 15-20%. Grinding at each end.									
80.0	80.4'	Qtz. carb - fine grained hard altered, quartzitic - some parts 10-15% po, minor cpy 1-1%; some parts seams of cpy through a quartzitic carb rock - grinding @ 80.4'. The above is probably a quartz rock sed.									Gneissosity 50° from normal plane of core axis. Note: Grinding in the area of rather good cpy mineralization.
80.4	81.7'	Fine grained, light gray qtz. biotite, sericite gneiss - largely quartzitic 60-70% contains thin band of shale minor mineralization 10% po, crenulated? folded grinding.	1766	79.4	87.0	0.09	Trace	Nil	Trace	2.4'	Note core lost Gneissosity 50° from normal plane of core axis.
81.7	87.0'	Lost core?									
87.0	91.0'	Qtz biotite gneiss - folded, crenulated. 20-25% po, 1-4% cpy. Sulphides along folds & concentration in noses, po; cpy:: 5$ 0.5 to 1	1767	87.0'	92'	0.10	Nil	Nil	Tr	5.0'	Gneissosity 50° from normal plane of core axis. Some parallel to c.a.
91.0	92.0'	Qtz-biotite gneiss - highly carbonitized and quartzitic po 20-30% Cpy 1-5%. Note 5% over only.1 or so.									Spec. 92.0'

DIAMOND DRILL RECORD

Latitude: Line 10S, 9+50E (Tag 1054)
Departure: 100'-210°
Elevation: -
Azimuth: 30°
Dip: 50°

Property: KOZELA LAKE - Grid No. 3

Hole Number: KL-13 (6)
Commenced: 15/9/62
Finished: 16/9/62
Depth: 262.4'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	oz.Ag.	Width	Remarks
92.0'	97.0'	Brecciated slate 50-60% Po. minor Cpy <1%. Po: Cpy:: 50: .01. Two phases po: 1st replacing slate fragment leaving ghosts: 2nd filling fractures & replacing it.	1768	92.0'	102.0'	0.26	0.06	Nil	Tr.	Tr.	10.0'	Gneissosity 50° from normal plane of c.a. Fracture ± 90° to gneissosity Spec. @ 92.0'
97.0'	107.0	Same as above 60% Po: 1st & 2nd usually 1% or less cpy as thin stringers around: 2nd Po with Carb	1769	102.0'	112.0'	0.26	0.10	Nil	0.005		10.0'	No core lost Gneissosity 0° from normal plane of core axis
		same narrow widths 5% Cpy.	1770	112.0'	122.0'	0.25	Tr	Nil	Tr.		10.0'	@ 106.0'
107.0'	117.4'	As above	1771	122.0	132.0	0.34	Tr	Nil	Tr.		10.0'	No core lost. Gneisso 0° from normal plane
117.4'	127.8'	As above	1772 (6-8)	132.0'	139.7'	0.28	0.10	Nil	Tr.		6.8	of core axis. No core lost
127.8'	138.0'	As above										Gneissosity o° from normal plane of core axis Spec 127.3 Core lost 127.8-138.0' 0.6. Gneissosity o° from normal plane of c.a.
138.0'	139.7'	As above										Note picked 0.6 core from 138.0'-148.6'
139.7'	141.7'	Qtz biotite gneiss - quartzitic Intercalated with carb. and shaly stringers - shale often replaced by carb. Po & Cpy Po 25-30% Cpy <1%. Po:Cpy: 5:0.5. Sulphides as stringers & segregations along limbs and at noses of folds.	1773	139.7	142.1	0.17	Nil	Nil	Tr.		2.1'	Gneissosity 5° from normal of core axis. Spec. 139.7 Gneissosity 60° from normal plane of c.a. & reverse about 30° fold @ 142.2'

DIAMOND DRILL RECORD

Latitude: Line 10S, 9+50E (Tag 1054)
Departure: 100'-210°
Elevation: -
Azimuth: 30°
Dip: 50°

Property: KOZELA LAKE - GRID No. 3

Hole Number: KL-13 (7)
Commenced: 15/9/62
Finished: 16/9/62
Depth: 262.4'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
141.7	142.2	Rather heavily diss. sulph.80-90%-pyrite (euhedral) 25-30%, Po.40-50% probably replaced slate - Cpy minor Cpy increases between 142.2 and 139.7									Gneissosity90°from normal plane of core axis & reverse 20°-fold @ 143.7'
142.2'	143.7	Light grey- fine grained - qtz. biotite gneiss crenulated parallel to bedding 20% Po, <1% Cpy.Po-20% Cpy <1%									
143.7	148.0	As above									
			1774	142.1	153.6	0.06	-	-	Tr	11.0'	Core lost 148-158.9-0.8' Spec @ 152.0'
148.0	158.1	As above - 10-15% Po<1% Cpy-more shaly starting 158.1'									Gneissosity 25°from normal plane of c.a.@148.0'
158.1	159.6	Interbanded quartzitic & slaty sedimentary gneisses - sulphides to 15% minor cpy.-grinding									Gneissosity 0° from normal plane of core axis at 150.0' Core lost 158.1-170-8.7' Lost pull but recovered small portion.
159.6'	161.0'	Minor sheared (Gabbro?) with some garnetiferous gabbro - Qtz biotite gneiss - minor sulphides.									
160.6	161.0	Minor sheared (gabbro?) with some Garnetiferous gabbro - Qtz.biotite gneiss - minor sulphides.									Gneissosity 0 to 10° from normal plane of core axis
161.0'	170.0'	Core lost in section 159.6'-170.0'									Gneissosity 40° from normal plane of c.a.

Line 10S, 9+50E (Tag 1054)

Latitude: 100'-210°
Departure: -
Elevation: 30°
Azimuth: 50°
Dip:

DIAMOND DRILL RECORD

Property: KOZELA LAKE - GRID No. 3

Hole Number: KL-13(8)
Commenced: 15/9/62
Finished: 16/9/62
Depth: 262.4'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
170.0'	180.5'	Garnet,qtz, biotite gneiss 10% garnets. Fine pin head - size evenly distributed - Gabbro starts @ 180.4' 70% mafics									Core lost 170-185-1.5' Spec @ 176.0' Spec.@ 188.0'
180.5'	190.9'	Gabbro - m.g.gneissic 50-70% mafics									Core lost 180.6-190.9-0.3 Gneissosity 20° from normal plane of core axis
190.9'	191.6	Gabbro									Spec @ 200' Gneissosity 0°from normal plane of core axis
191.6	191.9'	Quartz									Gneissosity 20° from normal plane of core axis @ 196.0'
191.9	196.6'	Rather fine grained chloritic lava-like									Gneissosity 0° from normal plane of c.a.
196.6'	201.4'	Garnetiferous qtz biotite gneiss-chloritic 70-80% garnets crenulations and banding starts @199.0'									
201.4	211.8'	Much the same as above Qtz @ 206.0' & 210.0'-crenulations with the latter.									Core lost 201.4-211.8,0.4 Gneissity 30° from normal plane of core axis
211.8	222.0	Finely banded-garnetiferous qtz. biotite gneiss. Garnets in concentrations decrease.									Core lost 211.0'-222.0, 0.4'
222.0'	229.9'	Garnet qtz, biotite gneiss interbanded with quartzite & qtz biotite gneiss -Garnets stop at 226.3' increasing in qtz. fractures parallel to core axis (qtz)									Gneissosity to 228.7' Spec 218.0'

DIAMOND DRILL RECORD

Latitude: Line 10S, 9+50E (Tag 1054)
Departure: 100'-210°
Elevation: -
Azimuth: 30°
Dip: 50°

Property: KOZELA LAKE - GRID No. 3

Hole Number: KL-13(9)
Commenced: 15/9/62
Finished: 16/9/62
Depth: 262.4'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
229.9'	232.2'	Fine grained, gneissic, dark green minor diss. sulp. Py - Cpy? basalt.									Gneissosity & contact 30° from normal plane of core axis Spec. @ 232.2
232.2	234.2	as above									
234.2	235.4	Qtz biotite gneiss minor garnets									Contact & gneissosity 50° from normal plane of core axis
235.4'	242.0'	Qtz-barren. Basalt? @ 237.3'									
242.0'	252.0'	Fine grained, dark green, basalt - chloritic with frequent stringers of qtz. and qtz carb. e.g. @ 243.5', 246.0' 257.3'. Ground core									Gneissosity 35° from normal plane of core axis. Core lost 242.0'-252.0, 0.7'
252.0'	262.4'	As above - becoming slightly gneissic									Gneissosity 30° from normal plane of core
											Note angles measured in a counter-clockwise direction except where indicates as reverse - then measured in the clockwise direction
	264.4'	END OF HOLE									
				Core Recovery 83.0%							

DIAMOND DRILL RECORD

Latitude: 10S, 9+50E (Tag 1054)
Departure: 100' - 210°
~~Elevation~~ Az. 30°
~~Azimuth~~ Dip 70°
Dip:

Property: KOZELA LAKE

GRID NO. 3

Hole Number: KL 13A
Commenced: 16/9/62
Finished: 17/9/62
Depth: 158'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
0'	6'	OVERBURDEN									
6'	12'	Rather massive fine to med. ground gabbro-gneissic - oxidization on fractures. - fractures parallel to core axis.									Core lost 6-12', 4.6'
12'	14.5'	Very fine grained, dark green basalt with thin qtz stringers parallel to gneissosity & lamina. Minor po with qtz stringers.									Gneissosity +30° from normal plane of c.a. Core lost 12-14.5, 2'0
14.6	19	As above									Gneissosity +45° from normal plane of c.a. @ 16.5' becomes parallel to core axis. core
19.0	24.5	As above - Qtz-carb stringers parallel to gneissosity-same 1"wide									ground 16.5-19.0' Core lost 14.5-19.1.5' Gneissosity 0° from nor-
24.5'	28'	Qtz-carb stringer parallel to gneissosity and lamina to 2°									mal plane of core axis. Gneissosity 20° from nor- mal plane of core axis Gneissosity 0° from nor- mal plane of core axis
28'	31'	Sand.-mills chloritic qtz-carb. stringers parallel to gneissosity minor cpy, Po.									@ 28'. Core lost 19-24.5 0.5'. Gneissosity 20° from normal plane of c.a Core lost 24.5-28.01'
31'	35.9'	Same as above									Core lost 28.0-31',0.2' Gneissosity 10° to 0° from normal plane of c.a

DIAMOND DRILL RECORD

Latitude: 10S, 9+50E (Tag 1054)
Departure: 100'-210°
Elevation: -
Azimuth: 30°
Dip: 70°

Property: KOZELA LAKE - GRID No. 3

Hole Number: KL-13A
Commenced: 16/9/62
Finished: 17/9/62
Depth: 158'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	Assay Results From	To	Cu.	Ni.	Zn.	oz. Au	Width	Remarks
35.9'	38'	Same as above Qtz vein 1.2" wide @ 36'									Gneissosity 20° from normal plane of core axis. Core lost 31-35.9' 0.7'
38'	49.5'	Same as above & Chloritic									Gneissosity 20° from normal plane of c.a. Spec. @ 53.5
49.5'	53.5'	Same as above									Gneissosity 20° from normal plane of c.a. Core lost 35.9-38,0.0' Core lost 38.0-49.6, 1.5'
53.5'	57.6'	Same as above - numerous stringers of qtz.,Qtz carb, qtz feldspar carb with cpy, po, minor sulphides 57.0-57.3 5% Po, 1% cpy.									Gneissosity 20° from normal plane of c.a. Core lost 53.5'-64.5' 2.0'
57.6'	57.8'	Dark green xtalline feldspar rock with fracture filling of Po.3-5% Carb as well									
57.8'	59,4'	Altered basalt, fine grained rather massive, but laminated, finely dissem. Po 1-2%									
57.7'	60.2'	Highly carbonitized lava (basalt) vuggy. 50% carbonated - brown biotite - minor sulphides Po 1-2%	1776	59.4'	61.4'	0.03	-	-	Tr.	2.0'	Grinding @ 59.4' Core lost 64.6'-72', 1.5'
60.2'	61.4'	Highly carbonitized lavas with 10-20% Po.									Spec @ 61.2'
61.6'	62.1'	Near massive Po. 90% minor cpy < 1% secondary									Grinding @ 61.6' Note 2.0' core missing from 53.5-64.5'
64.5'	66.0'	Near massive sulphides in siliceous shaly breccia 80-90% Po, 1% Cpy.									

DIAMOND DRILL RECORD

Latitude: 10S, 9+50E (Tag 1054)
Departure: 100'-210°
Elevation: -
Azimuth: 30°
Dip: 70°

Property: KOZELA LAKE -GRID No. 3

Hole Number: KL-13A (3)
Commenced: 16/9/62
Finished: 17/9/62
Depth: 158'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
65.5' (cont'd)	66.0'	Two generations Po: 1st replacing slate; 2nd replacing former & filling fractures about 1:1 ratio.									Specimen @ 65.5'
66.0'	66.2'	Carb. area - with black m.g. biotite. Qtz fragments & shale ghosts 10-15% Sulph. Po - Cpy?	1777	64.0'	68.9'	0.25	0.07	Nil	Tr	4.5'	Gneissosity 20° from normal plane of c.a.- probably some core los
66.2'	66.8'	As above									
66.8'	67.0'	Sulphides to 30% Cpy - 2.5%									
67.0'	68.8'	Massive Po. - broken core fracture with Fe. oxides on faces - minor Cpy.									
68.8'	70.3'	Massive Po but ground, probably some missing									Specimen @ 69.0'
70.3'	70.4'	Qtz-feldspar 50:50									
70.4'	70.9'	Near massive Po blebs with Carb. & Qtz in a "gabbro-like" rock - Po 50% Cpy 1-2%.									
72.0'	72.3'	Feldspar 50:50 with 10% Po.									Core lost 71-72 & other footages as recorded.
72.3'	72.9'	Massive Po.									
72.9'	73.9'	Qtz feldspar - fine grained - 50% Po, 10-15% Cpy replacing Po.	1778	68.9	74.9'	0.37	Tr	Nil	Tr	3.8'	

DIAMOND DRILL RECORD

Latitude: 10S, 9+50E (Tag 1054)
Departure: 100' - 210°
Elevation: -
Azimuth: 30°
Dip: 70°

Property: KOZELA LAKE - GRID NO. 3

Hole Number: KL-13A (4)
Commenced: 16/9/62
Finished: 17/9/62
Depth: 158'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
73.9'	74.2.	Green - coarse to medium grained xtalline euhedral, interlocking mesh of plagioclase. trace of sulphides.									Specimen @ 74.0' Core lost 76.5' - 85.5' - .2-.3' picke up next run
74.2'	74.6'	Qtz-Carb.									
74.6'	74.7'	Massive Po., Trace Cpy.									
74.7'	75.1'	Broken core - loose - aggregate of fine grained green replacing vuggy texture xtalline - carb & Talc? (soft waxy) filling vuggy inter-stitial spaces									Core lost 70° from normal plane of c.a. Spec. @ 75.0'
75.1'	76.4'	Green qtz with minor sulphide patches. 5%. <1% Cpy? minor felds. and carb.									,, Minor grinding @ 76.
76.5'	76.7'	Green crystalline euhedral plagio-clase - interstitial space with po. 5% interstitial spaces 30% of rock.									
76.7'	77.0'	Same rock - interstitial spaces filled with sulphides, 40% Po, 1-2% cpy.									Structure 0° from normal plane of c.a.
77.0'	77.5'	Same rock - interstitial spaces filled with 20% Cpy - but some are vacant									

DIAMOND DRILL RECORD

Latitude: 10S, 9+50E (Tag 1054)
Departure: 100'-210°
Elevation: -
Azimuth: 30°
Dip: 70°

Property: KOZELA LAKE - GRID NO. 3

Hole Number: KL-13A(5)
Commenced: 16/9/62
Finished: 17/9/62
Depths 158'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	oz.Ag.	Width	Remarks
77.5'	77.7'	Massive Po.	1779	74.9	77.5'	0.97'	Nil	Nil	0.005		2.6'	Structure 0° from normal plane of core axis
77.7'	78.0'	near massive sulphides 50% Py 25% Po Minor cpy 25% feldspar large crystals - like masses of Py										Structure 0° from normal plane of core axis
78.0'	80.4'	Near massive sulph in sill slate to slate breccia: 1st phase - po replaces slate - 2nd phase Po replaces former and fracture filling 20-30% of former, minor later cpy 1%. Cpy as stringers around slate & 2nd po with carb qtz tourmaline & feldspar.										
80.4'	85.5'	As above										Structure 40° from normal plane of core axis
85.5'	87.5'	As above										
89.5'	92.7'	Slightly more massive - 2nd Po - 40-50% minor cpy <1% with minor Qtz felds carb stringers .5' massive.	1788	77.5'	87.5'	0.23	0.06	Nil	Tr		10.0'	
92.7'	92.8'	Qtz fold with 1-2% cpy										
92.8'	96'	as before. Massive po in silc. slate to slate - cpy 1%	1781	87.5'	96.5'	0.37	0.09	Nil	Tr		10.0'	Spec. @ 93.2'
96.0'	106'	As above - massive po in slate with .5 to 1% cpy as stringers (Two phases of Po)	1782	96.5'	107.3'	0.31	0.08	Nil	0.005	Tr	10.0'	Structure 0° from normal plane of core axis Core lost 96-106,1.4'

10S, 9+50E (Tag 1054)
100' - 210°
-
30°
70°

DIAMOND DRILL RECORD

KOZELA LAKE - GRID No. 3

KL-13A (6)
16/9/62
17/9/62
158'
F.J. Kozela

From	To	Formation	Sample No.	From	To	Cu.	Ni.	Zn.	oz Ag	Width	Remarks
106'	116'	As above - Massive Po or shale 1st phase Po 70-90%: 2nd phase Po 20-30%, Cpy .5-1%	1783	107.3'	118.4'	0.30	Tr	Nil	0.005	10.1'	Specimen @ 106' Core lost 106-116,.8'
116'	122'	as above									Core lost 116-122 - 2.4'
122'	132'	as above	1784	121.2	131.2	0.34	Tr	Nil	Tr	Tr	Core lost 122-132 - 1.2'
132'	137.5'	as above - ground folds									Lost core 132.0+137.5,0.8
137.5'	146.7'	as above. 2nd phase Po to 80% spotted with patches of carb-qtz	1785	131.2'	139.2'	0.29	0.08	Nil	0.005		No lost core(137.5-148')
		with cpy to 1% cpy 1-2% over .3'	1786	139.2	145.7	0.23	Tr	Nil	Nil	Tr	7.5' Note .3 picked up next run.Structure 0° to normal plane of C.A. Spec. 146.7
146.7'	148.0'	Qtz biotite gneiss fine grained 5% Po: 1-.5% Cpy- carb with minor sulph. in rim-like stringers - interbedded with qtzitic slate - Sulphide 2nd phase with po:cpy:.50:1.0	1787	145.7'	153.4'	0.08	Nil	Nil	Nil	7.7'	Structure 0° to normal plane of coreaxis Structure gneissosity became parallel to core axis fold (148.2')
148.0'	153.4'	Becomes coarser grained interbanded with quartz & qtzite slate - sulph. 5-10% - cpy 1-2% carb. Qtz stringers									
153.4'	158'	Garnetiferous Qtz biotite gneiss - f.g. with minor sulphides									Spec. 156.2' Gneissosity 10° from normal plane of core axis
	158.0'	END OF HOLE			Core recovery 86.0%						Note all angles are measured in a counter clockwise direction,except where indicated.

Latitude: 10+50 S on L.12+50E
Departure: 80' Az 270°
Elevation: -
Azimuth: 55°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 1

Hole Number: KL-14
Commenced: 19/7/62
Finished: 21/7/62
Depth: 395'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
0"	8.0'	Overburden									94.9% core recovery
8.0'	23.5'	Qtz-Amph (Hb)-Schist - with minor chlorite - f.g. to m.g. banded with Qtz-Carb Zones - @ 40°-45° to core axis - increase in Qtz-Carb, downward - appearing somewhat gabbroic around 17.0' - Sulphides - Nil									9.5'-18.0'-2.0' core lost Spec @ 8.2'
23.5'	27.0'	- contact zone - altered mica Schist with talc, friable - Talc and Carbonate-Mica-Schist - pale green in colour to dirty grey some pink (red) feldspar and garnets(?) from 26.0'-26.3' & 26.6-27.0' - 25.0-26.5' - massive sulphides -3" & 2" veinlets, plus other sulphides - Po, Py & Cpy - dissem. along fractures.	B-2086	24.5'	28.7'	0.26'	Tr	Nil	Tr	4.2'	Spec. @ 25.0'
			B-2087	28.7'	32.4'	0.21'	-	Nil	Nil	3.7'	Spec. @ 31.0'
27.0'	48.5'	Qtz-Mica-Gneiss-high Qtz-Carb - Sulphides dissem; 30-40% Po, Cpy (trace) from 28.2'-29.0' -34.0'-36.0' - much Biotite with Barnets -36.0'+ -highly sericitized; garnets (pale) stretched -42.0'-42.1' veinlets of Po, Py - well banded & schistose after 46.0' @ 55°-60° core axis									Spec. @ 34.0'

Latitude: 10+50 S on L 12+50E
Departure: 80' Az. 270°
Elevation: -
Azimuth: 55°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 1

Hole Number: KL-14
Commenced: 19/7/62
Finished: 21/7/62
Depth: 395'
Logged by: H.D. Love

From	To	Formation	Sample No.	Assay Results From	To	Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
48.5'	51.5'	Gabbro Gneiss-altered with Biotite on contact, plus Quartz - Carbonate veinlets (shears) - Sulphides - Nil									Spec. @ 51.0'
51.5'	55.0'	Qtz-Mica (Sericite)-Schist - well banded @ 40° to core axis - garnets and trace of sulphides at contacts.	B-2088	51.6'	54.8'	0.05	-	Nil	-	3.2'	Spec @ 53.0' Spec @ 52.0'
55.0'	65.4'	Qtz-Amp-(Hb)-Schist - with minor Chlorite; green in colour; faintly banded with Qtz-Carb stringers - blue-green stain along fractures - f.g. to m.g. - Sulphides - Nil - lava or intrusive??									Spec @ 55.0'
65.4'	66.4'	Qtz-Biotite-Schist- with high Quartz and Carbonate									
66.4'	67.4'	Qtz-Carb-Amp (Hb) Schist - Sulphides - Nil									
67.4'	79.0'	Qtz-Amp-Schist to Qtz-Amp-Biotite Schist or Qtz-Biotite-Talc-Schist -70.2'-74.2'-bands or veins of Qtz-Biotite Schist - 68.4-68.7 - Quartzite veinlet with pale green amphibole - Sulphides - Nil - lava?									Spec @ 71.0'

(3)

Latitude: 10+50 S on L.12+50E
Departure: 80' Az 270°
Elevation: -
Azimuth: 55°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 1

Hole Number: KL-14
Commenced: 19/7/62
Finished: 21/7/62
Depth: 395'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
79.0'	83.5'	Qtz-Amp(Hb)-Schist- with Chlorite Schist - a few Biotite Zones - Qtz-Carb-Stringers -81.5-82.0-Quartzite veinlets with Carb. - pale green with impurities contact @ 90° to Schistosity - Schistosity @ 50° to core axis - somewhat spotted with chlorite in places; some Po. & Cpy.									Spec @ 80.0'
83.5'	86.2'	Qtz.Biotite Schist - a few zones with amphibole - schistosity @ 50° to core axis - Sulphides - Nil									Spec @ 84.5'
86.2'	91.0'	Qtz-Amp-Chlorite-Schist to Gneiss Gabbroic - trace of Cpy @ 88.0' -89.0'-89.3'-Qtz-Biotite-Schist high Quartz-Carbonate -Schistosity @ 50°-55° to core axis									Spec. @ 90.5'
91.0'	94.0'	Qtz-Biotite-Schist-high Quartz - Carbonate - well banded - some garnets - stretched - some Amp & Chlorite in places - some Po. with a Quartz vein - 15%.									
94.0'	130.0'	Qtz-Amp-Schist-f.g. - faintly banded to gneissic - Gabbro - a few Quartz-Carb veinlets - 98.0'-98.6' - Quartz-Biotite-Schist -after 120.0' f.g. appearing almost andesitic - 60° to core axis.									115.0'-122.0'-1.5'core lost - Spec @ 128.0'

Latitude: 10+50 S on L.12+50E
Departure: 80'Az 270°
Elevation:
Azimuth: 55°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 1

Hole Number: KL-14
Commenced: 19/7/62
Finished: 21/7/62
Depth: 395'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
130.0'	135.0'	QUARTZITE ZONE - with impurities-Biotite; banded @ 55° to core axis -132.1'-132.7' - Gabbro Gneiss									
135.0'	174.0'	Gabbro Gneiss - to Schist - a few bands of Qtz-Mica-Schist & Qtz.-Carb - veinlets some pink to red feldspar along fractures - only traces of sulphides with the Qtz.-carb-veinlets. - faintly banded @ 55° to core axis.									Spec. @ 138.0' 172.7'- 178.7' - 0.5' core lost
174.0'	180.0'	Qtz-Mica (Biotite & Sericite) Schist - a few zones of amphibole (Hb) - only traces of sulphides									
180.0'	192.0'	Gabbroic-Qtz-Amp-Chlorite Gneiss to Schist - a few Qtz Carbonate stringers									Spec @ 184.0'
192.0'	203.5'	Quartzite to Qtz with minor Mica (sericite) - Schist -198.0'-199.5' - Gabbro (Qtz-Amp-Gneiss) - Sulphides - Nil									Spec. @ 199.0' Spec. @ 201.5'
203.5'	230.0'	Gabbro Gneiss - almost a schist in places - a few Qtz Zones accompanied by pink fledspar - Sulphides - Nil									Spec. @ 209.0'

Latitude: 10+50S on L.12+50E
Departure: 80' Az 270°
Elevation: -
Azimuth: 55°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 1

Hole Number: KL-14
Commenced: 19/7/62
Finished: 21/7/62
Depth: 395'
Logged by: H.D. Love

From	To	Formation	Sample No.	Assay Results From	To	Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
230.0'	233.5'	Massive Qtz-Carbonate-Zinc-only minor amphibole and some pyrite crystals									
233.5'	260.0'	Qtz-Amp (Hb) Schist with Chlorite? Appears faintly gabbroic in places- lava? or intrusive? - a few bands of biotite - Quartz veinlets at various angles to Schistosity (60° to core axis)-Sulphides-Nil									Spec @ 240.0' Spec @ 259.0'
260.0'	264.5'	Quartz with minor Sericite - faintly schistose - some green amphibole towards end - Some pyrite in high Qtz-Carb-Zones									
264.5'	294.0'	Gabbro gneissic - medium grained to coarse grained_very c.g. - almost porphyritic - a few Quartz veinlets with feldspar, fringed by biotite and some talc. 266.0'-266.2'-Quartz veinlet with biotite @ contacts and a massive Po., Py (1/4") Sulphide zone									Spec. @ 268.0'
294.0'	297.0'	Qtz-Mica (Sericite & Biotite)-Garnet-Gneiss-medium gray in colour - becoming slaty, with up to 50% sulphides (Po, Py) in places - after 295.0'-Nil, high Quartz									Spec @ 294.0'

Latitude: 10+50 S on L.12+50E
Departure: 80' Az. 270°
Elevation: -
Azimuth: 55°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 1

Hole Number: KL-14
Commenced: 19/7/62
Finished: 21/7/62
Depth: 395'
Logged by: H.D. Love

From:	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
207.0'	319.5'	Qtz-Amp-(HB) - Chlorite? Schist - faintly banded with only a few Quartz stringers - lava? or intrusive?? - a few Qtz-Biotite-Sericite-Schist bands - 304.0'-305.0'; 305.4'-306.4' - only a trace of Po or Py									Spec. @ 314.0'
319.5'	325.0'	contact zone - similar to above - much Biotite and Qtz-Carb and Feldspar veinlets - sulphides - Py dissem. along Carb.zones	B-2089	325.4'	332.4'	0.06	-	-	Nil	7.0'	
326.5'	344.5'	Quartz-Sericite-Gneiss - pale gray in colour - banded @ 60°-65° to core axis - Sulphides - disseminated up to 5 or 10% mainly pyrite around 333.0'-334.0' - up to 10% Cpy.	B-2090	332.4'	334.5'	0.23	-	Nil	Nil	2.1'	Spec @ 333.5'
											335.2-344.0'-3.0 core lost
			B-2091	334.5'	342.7'	0.07	-	Nil	Tr.	8.2'	
344.5'	383.0'	Gabbro-Gneiss - m.g. to c.g. - only faintly banded - a few Quartz-Carb veinlets - Some Po. @ 382.5' -Biotite at contact to underlying Quartz zone.									Spec @ 357.0'
383.0'	388.5'	Quartzite and Quartz-Mica (Sericite) Gneiss to Schist - high Quartz after 388.5' - some Biotite									Spec. @ 386.5'
388.5'	395.0'	Gabbro Gneiss - with Biotite in places - 394.0'-394.2' - Quartz-Mica-Gneiss-Sulphides Nil									Spec @ 393.0'
	395.0'	END OF HOLE									

DIAMOND DRILL RECORD

Latitude: Line 7+50W Grid I
Departure: at 26+00S
Elevation: -
Azimuth: 180°
Dip: 50°

Property: KOZELA LAKE - GRID NO. 1

Hole Number: KL-17
Commenced: 23/9/62
Finished: 25/9/62
Depth: 204'
Logged By: F. J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
0'	8'	OVERBURDEN									
8'	16.3'	Very vuggy and fractured - leached Qtz fragments									Core lost 8-16.3,8.3' Specimen @ 16.0' Structure o° from normal plane of core axis
16.3'	18.7'	Heavily fractured and weathered - chloritic lava - small pieces									Core lost 16.3-18.7,1.4' Gneissosity 0° from normal plane of core axis
18.7'	23.3'	Basaltic, fine grained as stringers - altered gneissic. Qtz injected red alteration at contact mottled with steep dip 80° from 22.7' to 23.3'									Core lost 18.7-23.3, 0.6'
23.3'	33.5'	Ground core for 0.6' foot- carb - vuggy - becoming slightly coarser grained - Gabbroic-like-gneissic-chloritic - similar to amphibolite									Core lost 23.3-33.5,1.3' Gneissosity 40° from normal plane of core axis Specimen @ 33.0'
33.6'	38.5'	As above									Gneissosity 50° from normal plane of core axis
38.5'	45.0'	Becoming very siliceous spotty, large known blotches of biotite & Carb & Qtz. Trace sulphides									Core lost 33.5'-45.0', 3.2' Specimen @ 45.0'
45.0'	46.0'	As above becoming fine grained siliceous green alteration veins Po 0.1' with 1-2% cpy becoming disseminated	1740	45.6'	48.2'	0.26	0.02	Nil			Core lost 45.0-51.75,1.0' Specimen @ 46.5'
46.0'	46.2'	Heavily diss. sulphides in fractures of qtz, carb & green alteration 30% po, 10-15% cpy									

DIAMOND DRILL RECORD

Latitude: Line 7+50W Grid I
Departure: @ 26+00S
Elevation: -
Azimuth: 180°
Dip: 50°

Property: KOZELA LAKE - GRID NO. 1

Hole Number: KL-17 (2)
Commenced: 23/9/62
Finished: 25/9/62
Depth: 204'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
46.2'	46.5'	Sedimentary breccia largely Qtz - 50%. 20% Po, 15% Cpy. Seams of graphite through ¼" Thick (46.5) minor cpy with graphite.									Structure 50-90° from normal plane of core axis.
											Spec. 48.7
47.0'	47.3'	Probable ground core 46.5-47.0 Massive 90% Po. with minor cpy 1-2%									
48.0'	49.3'	Moderately diss sulphides 10-20% Po, 1-2% Cpy in quartzitic shale fractured, (stringers of sulphides) fine grained.	1741	48.2'	49.4'	0.11	Nil			1.2'	
49.3'	51.75'	Garnet qtz biotite gneiss to schist									
51.75'	58.3'	Qtz biotite schist with slaty & Qtz bands interbedded. Minor Po in fracture - calcites 5% Po, 1% Cpy. 52.75-56.3' folding @ above footage									Gneissosity 45° from normal plane of core axis
58.3'	59.0'	Altered Lava ~ brown biotite minor interbedded stringers of highly chloritic lava 57.3-58.3'									Gneissosity 70° from normal plane of core axis.
											Core lost 59.0-64.0, 1.1'
59.0'	59.5'	Lava fine grained massive-like									Gneissosity 70° from normal plane of c.a.
59.5'	60.3'	Qtz rich siliceous biotite schist									
60.3'	60.5'	Quartz									

DIAMOND DRILL RECORD

Latitude: Line 7+50 W Grid I
Departure: @ 26+00S
Elevation: -
Azimuth: 180°
Dip: 50°

Property: KOZELA LAKE - GRID NO. 1

Hole Number: KL-17 (3)
Commenced: 23/9/62
Finished: 25/9/62
Depth: 204'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
60.5'	61.0'	Garnetiferous gneiss									
61.0'	64.0'	Lava - chloritic-gneissic slightly coarser grained									
4.0'	67.0'	Highly altered lava - brown biotite carb talc - banded nature									
67.0'	70.0'	Very siliceous qtz biotite gneiss (impure) trace of sulphides									Core lost 70.0-79.0; 0.40'
70.0'	70.1'	Quartz									Spec. @ 74.0'
70.1'	77.6'	Lava fine grained, minor stringers parallel to gneissosity, few cross stringers									
77.6'	78.6'	Gabbroic-like									
8.6'	78.9'	Fine grained. lava (transitional)									Core lost 79.0'-84.0', 0.3'
78.9'	79.0'	Gabbroic-like									Spec. @ 79.0'
79.0'	84.0'	Gabbroic gneissic fine grained, minor qtz stringers parallel to gneissosity and 90° to gneissosity.									
84.0'	84.8'	Lava - gabbroic slightly chloritic									Contact 70° from normal plane of c.a. 84.8'
84.8'	86.2'	Sed. - qtz biotite gneiss									
86.2'	87.4'	Gabbroic - lava - contact									Gneissosity & structure 60-70° from normal plane of core axis.

DIAMOND DRILL RECORD

Latitude: Line 7+50W Grid I
Departure: @ 26+00S
Elevation: -
Azimuth: 180°
Dip: 50°

Property: KOZELA LAKE - GRID NO. 1

Hole Number: KL-17 (4)
Commenced: 23/9/62
Depth:--: 204'
Logged by: F.J. Kozela
Finished: 25/9/62

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
87.4'	90'4	Sediment qtz biotite gneiss									Core lost 92.8-95.3,1.8'
90.4'	92.8'	Gabbroic - lava. Minor sulphides= Quartz stringers 60° to gneissosity									
92.8'	93.1'	Lava - f.g. chloritic									Core gain 95.3-101.7', 1.3'
93.1'	95.3'	Sed. Qtz biotite gneiss									
95.3'	95.5'	Sed. Qtzitic with cpy 15% over 2"									
95.5'	95.7'	Qzitic with minor cpy < 2%									
95.7'	98.6'	Gabbroic - lava (basalt) f.g.gneissic, chloritic, numerous qtz veins - brown biotite (alteration) common.									Gneissosity 80° from normal plane of core axis.
98.6'	100.4'	Qtz barren. Very steep structure to core axis									Gneissosity 60° from normal plane of core axis (98.6)
100.4'	101.8'	Very coarse grained amphibolite - recrystallized lava - hornblende laths.									Core lost 101.8-106.3, 0.5'
101.8'	106.3'	As above. Qtz with black needles of rutile (.4) @ 106.0'									
106.3'	110.3'	Lavas, fine grained									Gneissosity 50° from normal plane of core axis.
110.3'	110.5'	Highly folded sediment minor Po & Cpy in folds									Core lost 106.3-114.7;1.8

DIAMOND DRILL RECORD

Latitude: Line 7+50W Grid I
Departure: @ 26+00S
Elevation: -
Azimuth: 180°
Dip: ,50°

Property: KOZELA LAKE - GRID NO. 1

Hole Number: KL-17 (5)
Commenced: 23/9/62
Finished: 25/9/62
Depth: 204'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
110.5'	114.7'	Lava, fine grained									
114.7'	115.3'	Sediment.									Gneissosity 20° from normal plane of c.a.
115.3'	119.7	Gabbroic (basalt) highly altered									
119.7'	124.2'	Sediment, siliceous altered, green, chloritic, coarse grained, minor Po 1%, Cpy <1% becomes finer grained ~~&~~ to lava, basalt-like									
124.2'	124.4'	Lava - basalt-like									
124.4'	125.0'	Amphibolite									
125.0'	126.0'	Lavas, minor alteration									Core lost 125-135, 2.2' Gneissosity 40° from normal plane of c.a.
126.0'	127.2'	Sediment, qtz biotite, gneiss very fine grained.									
[illegible].2'	135.0'	Lava - with minor qtz stringers parallel to gneissosity									Gneissosity 30° from normal plane of c.a. Note grinding 130-135.0'
135.0'	142.0'	As above									No core lost 135-142.5' Gneissosity 30° from normal plane of c.a.
142.0'	142.2'	Qtz - minor Po and Cpy along contact edge									
142.2'	142.5'	Lava, as before									
142.5'	153.0'	Massive-like, Po stringers, becomes slightly coarse grained with very									Core lost 142.5'-153', 0.7

DIAMOND DRILL RECORD

Latitude: Line 7+50W - Grid No.1
Departure: @ 26+00S
Elevation: -
Azimuth: 180°
Dip: 50°

Property: KOZELA LAKE - GRID NO. 1

Hole Number: KL-17(6)
Commenced: 23/9/62
Finished: 25/9/62
Depth: 204'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
142.5'	153.0'	faint qtz stringers - chloritic, brown biotite and carb (lava) (cont'd)									No core lost 153-163.0' Gneissosity 60° from normal plane of core axis
153.0'	156.1'	Lava altered = same as before									
156.1'	163.0'	Contact - sharp. Qtz biotite gneiss brown biotite with narrow bands of shaly rock - quartzitic - fine grd.									
164.2'	168.0'	Contact. Coarse grained, altered lava gabbroic gneissic									Gneissosity 30° from normal plane of core axis. No core lost 163-173.1'
168.0'	169.4'	Contact - Sediment.									
169.4'	169.8'	Lava - altered chloritic									
169.8'	171.8'	Sediment with some interbedding with altered lava									
171.8'	176.7	As above - lava									Core gain 173.1-183.5-0.5'
176.7'	177.2'	Coarse grained - gabbroic-like altered lava-chloritic transitional Grades to fine grained, basaltic-like with qtz stringers.-Same as lava described previously.									
177.2'	183.5'	Lava - unaltered with Qtz injected stringers.									Gneissosity 30° from normal plane of c.a.
183.5'	190.0'	Lava fine grained with faint stringers, chloritic									Core gained 183.5-190'-0.3'

DIAMOND DRILL RECORD

Latitude: Line 7+50W - Grid No. 1
Departure: @ 26+00S
Elevation: -
Azimuth: 180°
Dip: 50°

Property: KOZELA LAKE - GRID NO. 1

Hole Number: KL-17(7)
Commenced: 23/9/62
Finished: 25/9/62
Depth: 204'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
190.0'	194.0'	Lava - coarser grained. Feldspar cross fracture (190.2') minor thin bands of sediments.									Core lost 190-194.0', 0.8'
194.0'	204.0'	Gabbroic with slightly coarser grained - occasional faint stringer and thin red qtz biotite band - each hard.									No core lost 194-204.0'
201.4'	202.6'	Minor sediment with 50% sulphides	174.2'	201.4'	202.6'	0.08'				1.2'	Note all angle measured in a counter clockwise direction except where otherwise indicated.
202.6'	204.0'	Lava - fine grd, becoming coarser-gneissic									
	204.0'	END OF HOLE				Core recovery 29.03%					

DIAMOND DRILL RECORD

Latitude: 56; 150'; Az.90°
Departure: 60'; Az.180°
Elevation: -
Azimuth: 47°
Dip: 50°

Property: KOZELA LAKE

GRID NO. 3

Hole Number: KL-18
Commenced: 19/9/62
Finished: 20/9/62
Depth: 201'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
0'	6.0'	Overburden									Gneissosity 20° from normal plane of c.a.
6.0'	15.0'	Dark green, highly weathered & fractured zone - finely laminated basalt, chloritic. Qtz carb stringers parallel to gneissosity- leaching & oxidation on fracture faces.									Core lost 6.0-15.0'6.2' Note: Poor recovery due in part highly fractured in water-logged zone - creek 100' north of hole & approx 15' lower.
15.0'	18.0'	As above									Core lost 15-18;2.3'
18.0'	19.7'	As above. Minor qtz @ 19.0' leached and oxidized									Core lost 18-19.7';0.4' Gneissosity 35° from normal plane of core axis
19.7'	21.5'	As above - oxidized and leached crumbly in places.									Core lost 19.7-21.5;0.2' Gneissosity 30° from normal plane of c.a. Spec @ 21.5'
21.5'	25.5'	As above. Qtz 25.2-25.3'									Gneissosity 30° from normal plane of c.a. Core lost 21.5-25.6;1.0'
25.5'	29.7'	As above. Weathered and leached oxidation on fractured faces.									Core lost 25.5-29.7;3.0'
29.7'	32.5'	Solution cavities - carb leached- sulph. @ 30.2' - Rock - same - f.g., grey green banded with qtz carb. stringers parallel to gneissosity.									Core lost 29.7-32.5;0.7' Gneissosity 30° from normal plane of core axis.
32.5'	34.0'	As above. Ground pieces of core.									Core lost 32.5-34.0;+0.5'
34.0'	36.0'	As above. Ground pieces of core.									Core lost 34-36;+0.6'

DIAMOND DRILL RECORD

Latitude: 5S, 150', Az. 90°
Departure: 60', Az.180°
Elevation: —
Azimuth: 47°
Dip: 50°

Property: KOZELA LAKE -
GRID NO. 3

Hole Number: KL-18 (2)
Commenced: 19/9/62
Finished: 20/9/62
Depth: 201'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
36.0'	38.0'	As above - highly fractured rock with oxidized faces-cavities									Core lost 36-38;+0.5'
38.0'	41.0'	At 38.2' becomes rather siliceous, minor diss., Po. 1% rather broken core - loose - At 40.8- Po 2-5% - siliceous feldspar-carb, f.g., 1-2% Po. (Sedimentary)									Gneissosity 50° from normal plane of c.a. Gneissosity 60° from normal plane of c.a. at 37.2' Core lost 38-41, 2.2' Gneissosity 60° from normal plane of c.a. Gneissosity 20° from normal plane of c.a. at 38.4' Spec. 41.3' Core lost 41-43;0.2' Gneissosity 30° from normal plane of core axis. Gneissosity 90° from normal plane of core axis. at 42.7' Core lost 43-45;0.2' Gneissosity 20° from normal plane of c.a. Spec. 44.4'
41.0'	43.0'	Altered-somewhat - banded - red brown biotite largely qtz - felds. carb stringers with Po - 1-2%, vuggy in places - oxidation on fracture faces. Core lost here.									
43.0'	44.4'	Altered - somewhat - as above - qtz carb feld, light grey-minor diss. Po 1-3% oxidized planes									
44.4'	44.6'	Vuggy rock-carb-rather massive - recrystallized - black-brown colour, - brown biotite - faint fold.									
44.6'	44.9'	As before - altered.									
44.9'	45.0'	Qtz greenish - f.g. minor sulph. in fractures - folded									
45.0'	45.3'	Qtz fractures & vuggy - weathering- minor sulphides									No core lost 45-46.0'

DIAMOND DRILL RECORD

Latitude: 5S, 150', Az 90°
Departure: 60', Az.180°
Elevation: -
Azimuth: 47°
Dip: 50°

Property: KOZELA LAKE - GRID NO. 3

Hole Number: KL-18 (3)
Commenced: 19/9/62
Finished: 20/9/62
Depth: 201'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
45.3'	46.0'	Qtz-felds-with red brown biotite, f.g., light grey green-minor sulphides.									Spec. @ 41.3'
46.0'	48.0'	Weathered oxidized -same rock as above. Note core lost here.									Core lost 46.0-54;4.0'? Gneissosity 60-50° from normal plane of c.a.
48.0'	54?	Not so heavily altered lava - some qtz-carb - red mica - minor Po, quartzitic & feldspathic.									
54.0'	56.0'	As above. Altered lava gneissic with minor sulph. diss. parallel to gneissosity.									Core lost 54-56;0.5' Gneissosity 50° from normal plane of c.a. Spec. @ 54.2'
56.0'	56.1'	Carb. red brown biotite with thin bands of deep brick red (plag?) vuggy. stringers of dark grey green plag. (intermesh of crystals)-Cpy 5-7% tourmaline with the above. Some grinding.									No core lost 56-57.0' Gneissosity 40° from normal plane of core axis Spec. @ 56.3;
56.1'	56.2'	Black-friable feldspar red crystals 5-7% Cpy tourmaline- start of rather massive po.									
56.2'	57.2'	Massive po - 2nd phase - with 10% CO_3 Cpy 1%.	1749	56.3'	57.2'	0.26	0.01	Nil	Tr	1.9'	No core lost 57-58.0' Spec. @ 57.2 Gneissosity 0° from normal plane of c.a. Gneissosity 60° from normal plane of core axis Spec. @ 56.9'
57.2'	62.8'	Green talc - carb rock - largely talc - minor carb. red-brown biotite diss. Po 2-3% - laminar or schistose.									

DIAMOND DRILL RECORD

Latitude: 58, 150', Az. 90°
Departure: 60', Az. 180°
Elevation: -
Azimuth: 47°
Dip: 50°

Property: KOZELA LAKE - GRID NO. 3

Hole Number: KL-18 (4)
Commenced: 19/9/62
Finished: 20/9/62
Depth: 201'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
62.8'	64.0'	Minor diss. po, gradually increases - narrow carb to near massive po in slate breccia. Across 2' lava narrows 2 mm veins of cpy. Po largely 1st phase, i.e. replacing slate frag. 2nd phase - 10-20% traces of cpy < 1%	1750	61.0'	62.4'	0.51	0.02	Nil	Tr	1.4'	Gneissosity 50° from normal plane of c.a.
											Spec. @ 63.1'
64.0'	65.3'	Spotted dark red brown biotite zone - with minor sulph. 1-2% Po. < 1% Cpy - 75% carb. 20% biotite, m.g.									
65.3'	68.8'	Largely 2nd phase Po with < 1% Cpy in a quartz carb mica (red)biotite rock - 70-80% somewhat banded and laminated. Some 68-68.8' narrow bands of massive 2nd Po. @ 67.0' (narrow) mm. vein cpy.	1751	64.7'	68.8'	0.80	0.01	Nil	Tr.	3.1'	Contact 50° from normal plane of core axis
											No core lost 68-76.0'
											Gneissosity 30° from normal plane of c.a.
68.8'	76.0'	Largely slaty rock with diss.sulph stringersparallel to lamina.Qtz-carb stringer. 10-20% Po.	1752	68.8'	81.0'	0.17	Tr	Nil	Tr.	11.0'	Spec 72.2' Gneissosity 30° from normal plane of c.a.
76.0'	80.0'	Much the same as above - banded - contorted siliceous slate - 20% Po (second) 5 to 1% Cpy stringer-like Cpy with Po in centre some minor blebs of Cpy within Po. Ratio Po:Cpt 5.0:5-10. Note rock banded Qtz biotite and slate. Cpy is better here than in other zones.									Core lost 76-80',0.9' Gneissosity 30° from normal plane of c.a.

DIAMOND DRILL RECORD

Latitude: 5S,150', Az. 90°
Departure: 60°, Az. 180°
Elevation: -
Azimuth: 47°
Dip: 50°

Property: KOZELA LAKE - GRID NO. 3

Hole Number: KL-18 (5)
Commenced: 19/9/62
Finished: 20/9/62
Depth: 201'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au	Width	Remarks
80.0'	81.0'	As above - banded qtz- felds.-with Po and slate. Po = 15%, Cpy =.5-1% Qtz 10-15%	1753	81.0'	84.0'	0.34	0.05	Nil	Tr	3.0'	Gneissosity 40° from normal plane of C.A. Core gain 80-86,0.3'
81.0'	84.0'	Massive Po (qtz)vein .1' @ 82.0'& some solution cavaties @ 84.0'	1754	84.0'	85.0'	0.11	-	-	Tr.	1.0'	Spec. @ 82.0'
84.0'	85.0'	Qtz with minor po & cpy < 1%									
85.0'	86.0'	Frozen massive to 15% in f.g.qtz-carb. with minor red brown biotite 70%.									
86.0'	88.5'	Becomes more slaty with crenulat-ions - carb. stringers parallel with bedding. 2nd Po 20-25% Cpy 1%									Gneissosity 40° from normal plane of C.A. Core gain 86-88.5;0.4' Core gain 86.5-96.5,0.2'
88.5'	96.5'	Some rock qtzitic & slate stringers of carb, po, cpy,graphite, diss of sulph throughout-carbonitization stringers about 1-2% Po to 20%. Cpy .5-1% with the stringers.	1755	85.0'	95.2'	0.16	Tr.	Nil	Tr.		Gneissosity 20° from normal plane of C.A.
96.5'	103.5'	Starting .2' qtz vein with 50% Po minor cpy 1-2%. some graphite stringers. Rock largely the same as before to veined with 1-2" Po. Carb.Cpy eg. in minor drag-folds cpy 1-2% of vein matter,i.e. carb & Po. Minor sulph. lightly diss. in siliceous slaty rock (chloritic) cross fractures filled with thread-like stringers of Po.	1756	95.2'	105.0'	0.23	Nil	Nil	0.005	10.0'	Core gain 96.5-103.5' 0.3'. Gneissosity 40° from normal plane of CA

DIAMOND DRILL RECORD

Latitude: 5S, 150', Az. 90°
Departure: 60'Az. 180°
Elevation: —
Azimuth: 47°
Dip: 50°

Property: KOZELA LAKE - GRID NO. 3

Hole Number: KL-18 (6)
Commenced: 19/9/62
Finished: 20/9/62
Depth: 201'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz. Au	Width	Remarks
103.5'	110.0'	Much the same as above. Veins of 20% Po. with qtz and carb - on outer margins with cpy < 1% - Sections highly carb - give higher cpy value. Ratiopo:cpy:5:0.5-1.0%									Core lost 103.5-110.0, 1.4'.Gneissosity 20°from normal plane of c.a.
											Spec @ 119.6'
110.0'	120.5'	Slightly higher alteration - stringers - carb-graphite- with po - cpy. Qtz-carb stringers 60-70% po 20-40% cpy 1%. Ratio po:cpy:5:0.5-1.0 quite consistent- very stringy line interlacing of	1757	105.0'	116.6'	0.11	Nil	Nil	Tr	10.0'	Core lost 110.0-120.5' 0.6' Gneissosity 0°from normal plane of c.a.
		po with slate (folded)	1758	116.6'	121.9'	0.17	Nil	-	0.005	5.7'	Core lost 131.0-120.5' 1.3'.Gneissosity 0°from normal plane of c.a.
120.5'	131.0'	Qtz biotite (garnet) gneiss quite rich in qtz, minor po. 10-20% garnet traces 10% biotite @ 122.9' 1.2' stringer of po,now becoming strongly garnetiferous. Shale 122.5-143.6'- returns to good qtz garnet biotite gneiss, minor po 1-5% silty-like crenulated. Horiz. interbanded with qtz-biotite & biotite stringers. Occasional po stringers with cpy every 1' aver po & cpy 1-3% trans.									Spec. @ 122.0'
											Spec. @ 130.5'
131.0'	141.5'	Contact. Good garnetiferous qtz biotite gneiss, minor folds and shearing in the rock, minor sulph. (pin-head size) same as garnets.5% Mostly po, minor cpy in the centre of the grains 50% garnets.	1759	131.0'	141.5'	Tr	Nil	Nil	Nil	10.5'	Core lost 131.0-141.5' 0.4' Gneissosity 30° from normal plane of c.a.
											Spec @ 141.6'

DIAMOND DRILL RECORD

Latitude: 5S, 150', Az. 90°
Departure: 60'Az. 180°
Elevation: —
Azimuth: 47°
Dip: 50°

Property: KOZELA LAKE - GRID No. 3

Hole Number: KL-18 (7)
Commenced: 19/9/62
Finished: 20/9/62
Depth: 201'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Ag.	Width	Remarks
141.5'	148.0'	As above (131.0-141.5') Green gabbro - 146.3-146.5' Qtz vein barren 146.5'-147.0'.Grinding 149.									Gneissosity 50° from normal plane of c.a. Spec. @ 146.5'(qtz) contact 50° from normal plane of c.a. No core lost 141.5-149.0'
148.0'	152.6'	Gabbro									
152.6'	159.0'	Minor po & cpy at contact: and 159-160' sulphides in fractures 15-20% Po < 1% Cpy with qtz biotite gneiss, minor diss. of cpy & Po near contact and decreases away to 10% - finely bedded minor grinding.									Spec. 152.2 Contact 80° from normal plane of core axis Core lost 149-159;0.5' Core gain 159-170;0.8'
159.0'	170.0'	Qtz garnet biotite gneiss ¼" large garnet.Knotty interlaced with qtz vein every few inches.Folding - minor sulphides.									Gneissosity 10° from normal plane of c.a.
170.0'	180.8'	As above. Qtz (.5) vein 179.5'-with minor dissem sulph. 1-2% Cpy. Garnet not common.									Core gain 170-180.8;1.0' Gneissosity 20° from normal plane of c.a. Core lost 180.8-191;0.9' Spec. @ 178.0' Gneissosity 0° from (180-8)normal plane of CA Core lost 191-201;1.6' Contact 25° from normal plane of core axis at 194.2'
180.8'	183.7'	Qtz biotite gneiss & contact between gabbro.									
183.7'	191.0'	Gabbro - f.g. basaltic-dark green-first with minor Qtz stringers - becomes fine grained to hard - carb - red biotite (po) near end of section.									
191.0	194.2'	Gabbro-contact withqtz biotite gneiss.									

DIAMOND DRILL RECORD

Latitude: 5S, 150', Az 90°
Departure: 60'Az 180°
Elevation: -
Azimuth: 47°
Dip: 50°

Property: KOZELA LAKE - GRID NO. 3

Hole Number: KL-18(8)
Commenced: 19/9/62
Finished: 20/9/62
Depth: 201'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	Assay Results From	To	Cu.	Ni.	Zn.	oz./Ton Au	Width	Remarks
194.2'	197.6'	Qtz biotite gneiss - narrow alteration of red brown biotite - minor cpy, po. Contact with gabbro-basalt 197.6' Narrow sed.qtz biotite gneiss 196.6-197.8									Spec. @ 197.6' Note - Angles are measured in a counter-clockwise direction from the normal plane except where indicated as reverse and thus in the clockwise direction.
197.8'	201.0'	Basalt-seamed with qtz-alteration biotite narrow thread-like stringers of cpy & po									
	201.0'	END OF HOLE			CORE RECOVERY 86.0%						

Latitude: 16+50W on L.40N
Departure: 150'N
Elevation: -
Azimuth: 120°
Dip: 50°

DIAMOND DRILL RECORD

Property KOZELA LAKE

Grid No. 3 Ext

Hole Number: KL-20
Commenced: 13/8/62
Finished: 16/8/62
Depth: 398'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
0'	12'	OVERBURDEN									Approx. 96.7% core recovery.
12'	15.5'	From Casing - Hole began in Lava but changed to Qtz-Mica-Gneiss to Schist - no definite contact.									18.0'-22.0'-0.5'core lost
15.5'	16.2'	Quartz-Mica-Schist-high Quartz and some carbonate, Calcite; Biotite & White Mica (Sericite?) with some Amphibole + up to 20% or 30% Sulphides, mainly Po, trace (<5%) Cpy, plus trace of Ni with dimethylglyoxime	B-2117	15.5'	22.6'	0.17	Nil	-	Nil	7.1'	Spec @ 15.8'
16.2'	22.5'	Brecciated-Quartz-Carbonate with Amphibole, Biotite and White Mica - up to 30% Sulphides, mainlyPO plus up to 3%(?) Cpy in places - a few flakes of Molybdenite									22.0'-33.5'-1.0' core Spec. @ 19.1' lost
22.5'	32.3'	Quartz-Carbonate with minor Mica Schist - 22.8'-23.1' - Amphibole (Hb) Schist to Gneiss (Lava)									Spec @ 28.5'
32.3'	34.2'	Slaty,Brecciated, Quartz-Carb-Zone - hear massive sulphides-70% Po. - about 1% Cpy.	B-2119s	32.3'	34.2'	0.24	Tr	-	Tr	1.9'	Spec @ 32.3'
34.2'	39.6'	Quartz-Carb-Zone - with minor Biotite, Amphibole and Talc in places - <5% Avg.Sulphides-only	B-2120	34.2'	39.7'	0.16	-	-	Tr	5.5'	36.0'-39.0'-0.6' core lost

(2)

Latitude: 16+50W on L.40N
Departure: 150'N
Elevation: -
Azimuth: 120°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 3 Ext

Hole Number: KL-20
Commenced: 13/8/62
Finished: 16/8/62
Depth: 398'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
		Trace Cpy @ 38.5 - Banding @60° to core axis									Spec @ 35.5'
39.6'	43.2'	Lava-Qtz-Hb-Schist-with Qtz-Carbonate pods and stringers, crenulated - sulphides - Nil									
43.2'	46.0'	Quartz-Mica (Biotite & White Mica) with minor Amphibole-Schist to Gneiss - up to 30% Sulphides, mainly Po; trace Cpy	B-2121	43.2'	45.9'	0.07	-	Nil	Tr	2.7'	Spec @ 44.5'
46.0'	47.0'	Slaty-Quartz-Mica-Gneiss, crenulated with up to 60% Sulphides - Po %Cpy	B-2122	46.2'	49.6'	0.21	Tr	Nil	Tr	3.4'	Spec @ 46.5'
47.0'	48.0'	Quartz-Biotite-Schist-20-30% Sulphides; mainly Po, Trace Cpy									
48.0'	48.9'	Slaty-Quartz-Mica-Gneiss- up to 80% Po with a trace of Cpy									Spec @ 48.0'
48.9'	49.8'	Qtz-Mica-Schist - 10-15% Po, Py - banding @ 65° to core axis									
49.8'	57.5'	LAVA - only a few Quartz-Carbonate stringers; a few bands of biotite after 55.0'-laminated at 55°-60° to core axis									53.5'-61.0'-1.5'core lost
57.5'	59.6'	Quartz-Mica-Schist-with minor Amphibole - up to 10% Po, only trace of Cpy	B-2123	57.6'	61.3'	0.20	-	-	Tr	3.7'	Spec @ 58.5'

Latitude: 16+50W on L.40N
Departure: 150'N
Elevation: -
Azimuth: 120°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE
Grid No. 3 Ext

Hole Number: KL-20
Commenced: 13/8/62
Finished: 16/8/62
Depth: 398'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
59.6'	61.2'	Quartz-Mica-Schist with Slaty bands -up to 70% sulphides in Slaty bands -about 30% Cpy from 59.7'to 60.2'- average about 40% Po overall.									Spec @ 60.0'
61.2'	64.0'	Quartz-Mica-Schist to Gneiss - with some Amphibole (Hb) - up to 20% Sulphides - Po,Py Tr. - banded (Schistosity) @ 55° to core axis, average	B-2124	61.3'	64.1'	0.06	-	-	Nil	2.8'	
64.0'	71.4'	LAVA - finely laminated @ 55° to core axis - Sulphides - Nil									
71.4'	75.0'	QUARTZ-MICA (BIOTITE) SCHIST to Gneiss - a few Slaty portions up to 20% Sulphides - Po - only traces of Cpy in Slaty portions.	B02125	71.4'	74.9'	0.04	-	-	Nil	3.5'	Spec @ 74.0'
75.0'	78.0'	Quartz-Amphibole-Biotite-Schist - a few garnets at lower contact - Sulphides - Nil.									
78.0'	154.0'	Lava-Qtz-Hb-Schist-only traces of Sulphides along fractures - laminated @ 40°-50° to core axis 93.5'-104.0' much crenulated -113.0'-114.0' - crenulated.									
154.0'	160.0'	Gabbro - sheared with Qtz-Carb stringers and veinlets - mainly Po. assoc. with stringers only trace Cpy.									

(4)

Latitude: 16+50W on L.40N
Departure: 150'N
Elevation: -
Azimuth: 120£
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 3 Ext

Hole Number: KL-20
Commenced: 13/8/62
Finished: 16/8/62
Depth: 398'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
160.0'	252.0'	Lava - laminated @ 60-65° to core axis									Spec @ 173.5'
252.0'	265.5'	Gabbro - gneissic to massive - a few quartz stringers, feldspar associated.									Spec @ 258.0'
265.5'	267.5'	Lava - as above									
267.5'	272.0'	Gabbro - as above									
270.0'	272.2'	Near massive Po @ contact									
272.2'	398.0'	Lava - dark green, laminated 278.0'-312' - much crenulated 312.0'-398.0'variable dip 60-75° minor crenulations - trace of sulphides - Po & Cpy along some Qtz-Carb & Stringers									Spec @ 288.0'
	398.0'	END OF HOLE									

Latitude: 19+00W on L.45N
Departure: 200'S
Elevation: -
Azimuth: 120°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 3 EXT.

Hole Number: KL-21
Commenced: 17/8/62
Finished: 415'
Depth: H.D. Love
Logged by:

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
0'	10'	OVERBURDEN									approx 96.1% core recovery
10'	12'	LAVA - Qtz-Hb-Schist, laminated with Quartz-Carbonate, stringers @ 60° to core axis.									
12'	14.5'	Qtz-Biotite-Talc-Schist - <5% Sulphides									Spec @ 13.5'
											13.0-24.0' - 4.5' core lost
14.5'	24.0'	Gabbro-altered - m.g., faintly gneissic - traces of Po, Py & Cpy									
24.0'	25.0'	Qtz-Biotite-Talc-Schist-schisted @ 55°-60°									
25.0'	28.0'	Lava - laminated @ 70° to core axis									
28.0'	46.0'	Gabbro-Gneissoid with Garnets, some Talc - Chlorite associated with garnets in places - banded @ 70° to core axis									Spec @ 33.0'
46.0'	67.4'	LAVA - laminated @ 70°-75° to core axis									Spec @ 61.0'
67.4'	83.2'	QUARTZ-MICA (Biotite & Sericite) Gneiss to Schist - Sedimentary -	B-2126	67.4'	74.6'	0.04	Nil	-	Tr	7.2'	
		Sulphides - Avg 20-30% Po	B-2127	74.6'	83.2'	0.02	Nil	Nil	Tr	8.6'	
		with trace of Py & Cpy (mainly along fractures and cleavage faces) - crenulated									

Latitude: 19+00W on L.45N
Departure: 200'S
Elevation: -
Azimuth: 120°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 3 EXT.

Hole Number: KL-21
Commenced: 17/8/62
Finished: 19/8/62
Depth: 415'
Logged by: H.D. Love

From	To	Formation	Sample No.	Assay Results From	To	Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
67.4' (cont'd)	83.2'	79.5'-79.7' - Slaty, brecciated - Qtz-Carb-Zone with up to 80% Sulphides, Po, Py, and only a trace of Cpy									Spec. @ 82.0'
83.2'	124.0'	Lava - laminated with Qtz-Carb - stringers; crenulated from 104.0'-110'									Spec @ 114.5'
124.0'	133.6'	QUARTZ-MICA-SCHIST to GNEISS, high Qtz-Carbonate (Calcite)-Sedimentary -Po & trace Cpy - along fractures - some slaty zones with calcite rhombs disseminated (1/16"-1/8") - 129.0'-129.5' - massive sulphides, mainly Po in contact with a massive Qtz-Carb-Zone from 129.5'-129.75' -132.0'-132.5' - brecciated zone with up to 40 or 50% sulphides - mainly Po, trace Cpy, high Quartz-Calcite.	B-2128	124.3'	133.1'	0.13	Nil	Nil	Tr	8.8'	125.0'-134.0'-1,2' core lost Spec. @ 127.5' Spec. @ 129.0' Spec @ 132.5'
133.6'	358.0'	LAVA - banding Avg 75° - 80° - 160.0'-173.0' - crenulated to parallel to core axis. -156.0'-159.0' - appearing gabbroic with traces of Po, Py & Cpy -208.0'-Sulphides-Po in a fracture (0.1") - 208.0 - 211.0' - Altered Qtz-Hb-Gneiss with Garnets									Spec. @ 211.0' Spec. @ 251.0'

Latitude: 19+00W on L.45N
Departure: 200's
Elevation: -
Azimuth: 120°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 3 E.T.

Hole Number: KL-21
Commenced: 17/8/62
Finished: 19/8/62
Depth: 415'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
133.6'	358.0'	LAVA - Avg.Dip-65°-70° to core axis									
		-211.0'-212.0'- Massive Po.-80% in a Qtz-Carb brecciated zone - some Talc in places - trace Cpy.,secondary									
		-184.0'-192.0'- crenulated, but mainly banded parallel to core axis									
		-196.0'-200.0'-Gabbro Gneiss banded @ 60° to core axis									
		- 198.0'-200.0'- high Biotite content									
		-220.0'-222.0'-crenulated									
		-236.0'-238.5'-crenulated, with Talc along fractures.									
		-238.5'-239.5'-Quartz talc - sulphides-Nil									
		-239.5'-259.0'-crenulated									
		-259.0'-268.0'-well laminated @ 60° to core axis									
		-268.0'-305.0'-crenulated									
		-305.0'-321.5'-35°-40° to core axis									
		-321.5'-358.0'-70° to core axis									
358.0'	374.0'	Gabbro - massive, spotted to gneissic - m.g. to c.g.									Spec @ 365.0'
374.0'	415.0'	LAVA - Avg. Dip 65° to core axis, some crenulation, only a trace of sulphides along fractures									Spec @ 400.0'
-	415.0'	END OF HOLE									

@ 17+70W on L.45N
270'S
-
120°
50°

KOZELA LAKE, GRID NO. 3 Exr

KL-22
20/8/62
22/8/62
330'
H.D. Love

FROM	TO	Formation	Sample No.	From	To	Width	Au oz/ton	Ag oz/ton	Cu %	Remarks
0'	10'	Overburden								
10'	13'	In casing - 0.5' lost								
10'	25'	Quartz-Mica (Biotite & Sericite) Schist to Gneiss - almost Slaty in places. - much fractured with oxidization (limonite) and leaching - Sulphides - Po., Py, dissem. up to 10% throughout; small massive zones of Po., Py., & Cpy? - up to 2" e.g. 19.5'-19.7'; 20.2'-20.3"								Spec. @ 17.0'
25.0'	62.0'	Lava - Quartz-Hornblende - Schist, laminated with Quartz and Carbonate stringers at 70° to core axis - pink feldspar, associated with fractures. - traces of sulphides, mainly Po. along Qtz-Carb. veinlets.								Spec. @ 48.5'
62.0'	73.5'	Lava - Altered - much sheared and fractured; with the addition of much Quartz - Sulphides, Po., Py., & Cpy (1±%) in places. -64.0'-64.2' - about 60% Po. in brecciated zone - underlain by a brecciated zone containing feldspar, dark brown Hb and a green amphibole (?), with up to 30% Po., some Py (<5%), and a trace of Cpy; increase in Cpy (to 3%) after 71.0'	2129	61.9'	72.4'	0.21	Nil	Nil	Tr	10.7' Spec @ 64.5' Spec @ 69.2' Spec. @ 72.0'
73.5'	75.0'	Quartz-Biotite-Schist- minor Amphibole - some Po & a trace of Cpy - < 5%								Spec. @ 75.0'

@ 17+70W on L.45N
270'S
-
120°
50°

KOZELA LAKE, GRID NO. 3 Ext.

KL-22
20/8/62
22/8/62
330'
H.D. Love

From	To	Formation	Sample No.	From	To	Au	Ag	Cu	Pb	Zn	Width	Remarks
75.0'	76.0'	Quartz-Carbonate (Calcite)-zone - much sheared with 30% Po. and up to 3% Cpy.										
76.0'	79.0'	Lava - crenulated, with dip almost parallel to core axis - Hb, dark brown to black xtalline along apex of folds accompanied by Po. and trace of Cpy.										Spec @ 79.0'
79.0'	92.0'	LAVA - crenulated, with Chlorite alteration and Biotite; laminated at 65° (average) to core axis.	2131	81.0'	82.0'	0.07	Nil	Nil	-	Tr	1.0'	Spec @ 82.0' " @ 83.0'
		88.5'-89.5' - increase in Qtz and Sulphides- up to 30-50%, mainly Po, trace Cpy and Pyrite	2132	88.0'	89.8'	0.11	Tr	Nil	-	Nil	1.8'	" @ 89.0'
92.0'	94.0'	Massive sulphides up to 90%, mainly Po., up to 3% Cpy, some slaty fragments throughout.	2133	92.4	94.0'	0.13	0.08	Nil	-	Tr	1.6'	Spec @ 92.0'
94.0'	98.0'	Lava - altered in places, with up to 5% Po.	2134	98.5'	99.0'	0.12	0.08	Nil	-	Tr	0.5'	Spec. @ 99.0'
98.0'	99.0'	Massive Sulphides in a Slaty, sheared zone, with Tabular and stretched xtals of amphibole, plus chlorite - about 70.75% Po and Trace Cpy.										
99.0'	168.0'	Lava - crenulated, with only very narrow sheared zones containing traces of sulphides - laminated at 60° Average to 35° to core axis. - 161.0-161.2' - sheared zone - up to 20% Po. & Cpy. 161.5-161.7' - Stringers, Pyrite sulphides along cleavage planes.										

@ 17+70W on L.45N
270'S
-
120°
50°

KOZELA LAKE
Grid No. 3

Ext.

KL-22
20/8/62
22/8/62
330'
H.D. Love

FROM	TO	Formation									Remarks
		161.0'-168.0' - sulphides along apex of folds in crenulated zone - Po & Cpy(50-50) in places - 166.0'-166.2' - massive Po vein									
168.0'	175.5'	Lava - sheared, brecciated, altered(chlorite) in crenulated zone - up to 20% sulphides	2135	168.0'	172.0'	0.16	Nil	Nil	-	Tr	Spec. @ 169.5'
175.5'	303.0'	Lava - crenulated-Average dip being 60° to core axis - creunlated - 187.0'-196.0' cren. 206.0'-231.0'- about 80° to core axis 231.0'-241.0'-crenulated-241.0'-249.5' - 70°-80° to core axis - 249.9'-303.0'									Spec @ 229.0'
303.0'	315.0'	Gabbro Gneiss-spotted & faintly laminated with Qtz-stringers - some Talc alterations along fractures.									Spec @ 312.0'
315.0'	330.0'	Lava - laminated @ 60°-70° to core axis with Qtz-Carb stringers - 321.5'-322.0'-crenulated with Po & Cpy (up to 10%) and chlorite-Po along some cleavage planes - 322.0'-330.0'- lense of Pyrite (<5%)along cleavage to end									Spec. @ 325.0'
	330.0'	END OF HOLE									

Latitude: 18+00W on L.45N
Departure: 40's
Elevation: -
Azimuth: 120°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE EkT

Grid No. 3

Hole Number: KL-23
Commenced: 23/8/62
Finished: 25/8/62
Depth: 353'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
0'	10'	OVERBURDEN									
10.0'	40.0'	LAVA - Qtz-Hb-Schist - dark green to almost black in colour. - laminated with Qtz-Carb-stringers @ 65°-70° to core axis - traces of Py and Po along cleavage.									
40.0'	41.3'	Quartz-Mica (Sericite)-Talc-Schist with a few flakes of Biotite - very soft - traces of sulphides									
41.3'	41.4'	Massive Po vein - 75%-80% in lava									
41.4'	44.0'	Lava - traces of Po, Py along cleavage									
44.0'	45.2'	Qtz-Talc-Biotite-Hb-Schist i.e. altered lava - Sulphides - Nil									Spec @ 45.2'
45.2'	58.0'	Lava - only faintly laminated at 65° to core axis; some pink feldspar along fracture - traces of Po, Py & Cpy. throughout - highly altered									Specimen @ 52.5'
											Specimen @ 56.0'
58.0'	70.0'	High Quartz-Carb-Chlorite-Hb-Schist to Gneiss, highly altered, appearing faintly gabbroic in places. - trace of Po. and Py.									Spec. @ 62.0'
											Spec. @ 67.0'
70.0'	74.0'	LAVA - Quartz-Hb-Schist - dark green to Black in colour - Sulphides-Nil									Spec. @ 72.0'

Latitude: 18+00W on L.45N
Departure: 40's
Az. Dip Station: 120°
Assumed: 50°
Dip:

DIAMOND DRILL RECORD

Property: KOZELA LAKE ~~EXT~~

Grid No. 3 EXT.

Hole Number: KL-23
Commenced: 23/8/62
Finished: 25/8/62
Depth: 353'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	oz Ag.	Width	Remarks
58.0'	70.0'	High Quartz-Carb-Chlorite -HB- Schist to Gneiss, highly altered, appearing faintly gabbroic in places - trace of Po and Py.										Spec. @ 62.0'
												Spec @ 67.0'
70.0'	74.0'	Lava - Quartz-Hb-Schist - dark green to black in colour - Sulphides - Nil										Spec. @ 72.0'
74.0'	74.5'	Qtz-Hb-Schist with Garnets up to 1/8" in contact zone - granular texture										
74.5'	86.0'	Gabbroic Gneiss - spotted, inter-lensed with lava, a few garnets in places										
86.0'	103.0'	Lava - laminated with Qtz-Carb stringers at 70° to core axis - pink feldspar along a few fractures - traces of sulphides disseminated										Spec @ 96.0'
103.0'	107.0'	High Quartz-Amphibole (Hb) - zone; Slaty and Gneissic to brecciated -104.5'-104.8'-brecciated-with slaty lenses, and up to 80% Po; trace Cpy - 105.2'-106.5'-slaty to brecciated - up to 75-80% po.	1732	104.0'	107.1'	0.14	0.01	Nil	Tr		3.0'	Spec @ 106.0'

Latitude: 18+00W on L.45N
Departure: 40'S
Elevation: -
Azimuth: 120°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 3 Ext.

Hole Number: KL-23
Commenced: 23/8/62
Finished: 25/8/62
Depth: 353'
Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz./Ton Au.	Width	Remarks
107.0'	126'0	LAVA - laminated with Quartz stringers @ 65°-70° to core axis; some Quartz along fractures									Spec @ 114.0'
126.0'	135.5'	Quartz-Carb-Amphibole (Hb) Feldspar Zone - Brecciated 126.0'-128.5' - Quartz-Feldspar?-Amphibole-Schist with up to 30% Po & a trace of Cpy; in places up to 3% 128.5'-131.0' - brecciated, with Quartz and Slaty fragments and lenses; minor biotite; up to 70% Po, and 1-3% Cpy in places - Avg. Cpy < 1% - 131.0'-135.0' - Quartz-Amp (Hb) Chlorite-Biotite Gneiss, plus some pink feldspar, sheared, with up to 15% Po < 1% Cpy	1734	126.0'	137.6'	0.08	-	-	Tr	10.6'	
											Spec @ 132.0'
126.0' (cont'd)	135.5'	135.0'-135.5'-massive brecciated Sulphide Zone with Quartz fragments; grading into a Quartz-Hb-Biotite-Schist, up to 80% Po.									Spec @ 136.5'
135.5'	148.5'	Quartz-Amp (Hb) Chlorite-Biotite-Schist - a few lenses (0.1") of brecciated, Slaty sulphides, mainly Po.									Spec @ 143.5'
											Spec.@ 163.0'
148.5'	299.0'	Lava - a few Quartz veins with white to pink feldspar(?) 173.0'-178.0'- appearing as Gneissic									Spec @ 178.5'
											Spec @ 192.0'
											Spec @ 195.0'

18+00W on L.45N

Latitude: 40'S
Departure: -
Elevation: 120°
Azimuth: 50°
Dip:

DIAMOND DRILL RECORD

Property: KOZELA LAKE

Grid No. 3 EXT.

Hole Number: KL-23
Commenced: 23/8/62
Finished: 25/8/62
Depth: 353'
Logged by: H.D.Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
148.5'	299.0'	gabbro(?)									Spec @ 224.0'
(cont'd)		-193.0'-198.0'-gneissic gabbro - laminated @ 65° to core axis									
299.0'	329.0'	Gneissic Gabbro - spotted with high Quartz, m.g. to c.g. and a few Quartz-Carb veinlet & slips									Spec. @ 309.5'
329.0'	353.0'	Lava - crenulated, with numerous Quartz veinlets (and some feldspar) - traces of sulphides in more highly crenulated zones									Spec. @ 342.0'
—	—	292.3'-326.3' - c.g. to m.g. Gabbro, gradational contact, sulphide lenses throughout									
	353.0'	END OF HOLE									

Latitudes @ 16+20W on L.45N
Departures 130'S
Elevations -
Azimuths 120°
Dips 50°

Property KOZELA LAKE

Grid No. 3 Ext.

Hole Number: KL-24
Commenced: 26/8/62
Finished: 28/8/62
Depths: 333'
Logged By: H.D. Love

From	To	Formation	Sample No.	From	To	Length	Assay Results: Au	Ag	Zn	Cu	Width	Remarks
0'	15'	OVERBURDEN										approx. 90.4% core recovery
15.0'	35.0'	LAVA-QUARTZ-HORNBLENDE-SCHIST -only faintly laminated with Qtz-Carbonate stringers & slips @ 70° to core axis - a few Qtz-Feldspar veinlets, & traces of Biotite in narrow bands. Only a trace of sulphides along sheared fractures.										Spec. @ 24.0' 15.0'-21.5'-2.2'core lost 21.0'-26.0'-0.2'core lost
35.0'	36.0'	Quartz-Biotite-Amp-Schist, well banded @ 70° to core axis, with Quartz-Calcite stringers & calcite rhombs scattered										
36.0'	37.0'	LAVA - laminated @ 70° to core axis										
37.0'	37.5'	Quartz-Biotite-Amp-Schist- similar to that above - Sulphides-Nil										
37.5'	44.0'	Quartz-Carbonate Zone with minor Amp (Hb), in places gneissic - Sulphides - Avg 50%, mainly Po & some (1-3%) Cpy throughout, brecciated & sheared in places.-38.5'-39.0' - Slaty, gneissic, Qtz zone with up to 80% Po & a trace of Cpy - 40.0'-40.3'- Slaty brecciated - massive zone 80% Po. - also slaty lenses elsewhere.	1729	38.0'	44.3'	0.46	Nil	-	-	Tr	3.4'	Spec @ 39.0' Spec @ 45.0'
44.0'	47.5'	Quartz-Carb-Zone with pink feldspar, much sheared - lt grey in colour only minor Po & a trace of Cpy.	1730	44.3'	47.4'	0.09	-	-	-	Tr		
47.5'	47.6'	- Massive Po, trace of Cpy at contact										

Latitude: @ 16+20W on L.45N
Departure: 130'S
Elevation: -
Azimuth: 120°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE
Grid No. 3 Ext

Hole Number: KL-24
Commenced: 26/8/62
Finished: 28/8/62
Depth: 333'
Logged by: H. D. Love

From	To	Formation	Sample No.	From	To	Core Samples % Cu	%Ni	%Zn	%Pb	oz.Au	oz.Ag	Width	Remarks
47.6'	54.0'	Quartz-Amp-Biotite-Schist to Quartz-Amp (Hb)-Schist, ie LAVA - Sulphides - Nil											~~49.0'-56.0'-0.5' core lost~~
.0'	54.3'	Massive Cpy (70%)-15% Po in a brecciated Quartz material.											Spec @ 54.0'
54.3'	56.0'	Quartz-Carbonate with minor Amphibole-Gneiss - up to 15 or 20% Po and a trace of Cpy	1731	52.6	56.0	1.19	Nil	-	-	Tr		3.6'	
56.0'	60.0'	LAVA - only a trace of sulphides											
60.0'	62.0'	Quartz-Biotite-Amp to Quartz-Biotite-Carb-Gneiss-up to 10%Po											Spec. @ 61.5'
62.0'	240.0'	LAVA - laminated, averaging 70° to core axis - 118.0'crenulated, altered with chlorite; a trace of Po. -121.5'-124.0'-Quartz-Feldspar - veinlet - brecciated with a trace of Po, some green amphibole or silicate, & some green mica (Fuchsite); up to 5% sulphides at lower contact -124.0'-125.0'- appears here somewhat spotted & gabbroic - 132.5'-133.5' - Quartz in a crenulated zone containing Molybdenite (MoS_2) xtals parallel to gneissosity, with a trace of Po and Cpy.											62.0'-70.6'-0.4' core lost 70.6'-81.0'-0.4' core lost Spec @ 106.0' 85.0'-95,5'0.2' core lost Spec @ 152.5' 95.5'-105.7'-0.1' core lost Spec @ 201.0' 105'7-114.0'-0.5' core lost 114.0/-124.5'-0.3' core lost

@ 16+20W on L.45N

130'S
-
120°
50°

KOZELA LAKE - Grid No. 3 Ext

KL-24
26/8/62
28/8/62
333'
H.D. Love

132.0'-137.0' - crenulated -
165.0'-186.0' - crenulated -
177.0'-179.0' - Quartz along crenulations with Sulphide-Po traces.
- traces of Cpy, Po and py along laminations throughout. - some qtz. veinlets up to 0.4".

240.0'252.0' Gneissic Gabbro - having a spotted appearance due to Quartz lenses & stringers - med.grained to porphyritic.

252.0'333.0' Lava - highly crenulated from 259.0'-317.0' - containing numerous Quartz & Quartz-Carbonate stringers- only a trace of sulphides
- some chlorite alteration.

333.0' END OF HOLE

152.0'-160'5-0.3' core lost
165.0'-166.0'-0.5' core lost
201.0'-211.0'-1.0' "
211.0'-223.0'-2.7' "
223.0'-243.9'-1.0' "
Spec @ 241.5'
264.0'-275.0'-0.7' "
Spec. @ 294.0'

Latitude: 24+10W on L 35N, 50's

Departure:

Elevations: -

Azimuth: 90°

Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE - GRID NO. 3 EXT.

Hole Number: KL-25

Commenced: 29/8/62

Finished: 1/9/62

Depth: 353'

Logged by: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Au	Ag	Cu	Zn	Pb	Width	Remarks
0'	10'	OVERBURDEN										approx. 98.1% core recovery.
10.0'	102.0'	LAVA-QUARTZ-Hb-SCHIST- with Chlorite, numerous fine (to 1/8") quartz stringers & veinlets up to 2" - a few breaks or fractures (seams) with limonite stain, up to 40'(oxidation) -Some pyrite along cleavage 61.5'-61.7'-near massive Po in Quartz 65.0'-68.0'-altered, chloritic, lava (softer) - 66.0'-66.3'-massive Po. with some Py, and Cpy? -78.0'-89.0'-much crenulated - 98.0'-99.0'-dissem. sulphides-5%; 98.0'-98.1' massive Po (80%) trace Cpy, with remnants of lava as stretched lenses - in remainder, sulphides disseminated as stringers - laminated at 65°-80° to core axis, a few minor crenulations elsewhere.										10.0'-15.5'-1.0'core lost 15.5'-24.0'-0.3' " 43.0'-48.7'-0.2' " 89.3-99.3-0.3'core lost Spec. @ 90.0'
102.0'	111.5'	Altered Lava-Quartz-Sericite-Chlorite-Talc-Biotite-Schist-pale green in colour, very soft, appearing almost massive- minor (<5%) sulphide (Po) disseminated.										109.5'-120.0'-0.4'core lost Spec. @ 125.0'
111.5'	111.8'	Stringers of Po @ contact to less altered lava										Spec. @ 138.0'
111.8'	132.0'	Lava - laminated @ 65°-75° to core axis. - traces of Po, Py & Cpy(<5%)										
132.0'	166.0'	Altered Lava & Quartz-Mica-Schist to Gneiss ; a few Slaty zones. -140.0'-141.0' - Sulphide stringers										

24+10W on L 35N, 50's

KL-25

Latitude: -
Departure: -
Elevations: -
Azimuths: 90°
Dips: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE - GRID NO. 3 EXT

Hole Number: KL-25
Commenced: 29/8/62
Finished: 1/9/62
Depths: 353'
Logged By: H.D. Love

From	To	Formation	Sample No.	Assay Results: From	To	Width	Oz.	Mo.	Cu.	Au.	Width	Remarks
		up to 30% - mainly Po and a trace of Cpy, particularly along fractures or seams - 141.0'-141.4'-brecciated - Slaty-Massive Po - 80%, up to 3% Cpy in places - 145.0'-145.2'-Slaty, brecciated shear zone with up to 60% Po, minor Cpy as trace - 148.5'-148.8' - up to 80% Po in a Slaty (almost graphitic) gneiss; only a trace of Cpy- 149.5'-150.6'-near massive Po in a Slaty-Gneiss, with up to 75% Po, only a trace of Cpy in sheared and brecciated zone - 155.0'-156.0'- Sulphides disseminated up to 25 or 30% in Qtz-Mica Schist -156.0'-160.0'-Quartz-Biotite-Gneiss- altered with some Talc - 160.0-162.0' Quartz-Carb with much Biotite- Sulphides - Nil - 162.0'-163.0'-Quartz-Carb-vein with minor impurities, 163.0'-164.0'- altered, sheared, gneissic Qtz-Hb-Talc-Biotite-up to 30% Sulphides, mainly Po and minor Cpy in places. - 164.0'-166.0'-altered Lava - trace of sulphides.	1734	140.1	150.8'	0.08	-	-	-	Tr	10.8'	Spec @ 142.0' Spec. @ 148.0' Spec. @ 150.0' 150.7'-162.0'-1.3'core lost Spec @ 157.5' 162.0'-172.5'-0.3' core lost Spec. @ 163.5' Spec. @ 165.0'
166.0'	169.0'	Lava(Basalt)-end of alteration zone proper.										
169.0'	170.0'	Altered Lava										
170.0'	172.5'	Lava - fresh, faintly laminated, occasional quartz stringers, from 80° to 30° to core axis.										

Latitudes: 24+10W on L.35N
Departures: 50'S
Elevation: -
Azimuth: 90°
Dip: 50°

DIAMOND DRILL RECORD

Property: KOZELA LAKE - GRID No. 3 Ext.

KL-25
29/8/62
1/9/62
353'
H.D. Love

From	To	Formation	Sample No.	Assay Results: From	To	Au	Ni	Zn	oz./ton	Width	Remarks
172.5'	177.7'	Lava - fresh, faintly gneissic & laminated (parallel to core axis)									Spec @ 172.6'
177.7'	188.7'	Similar to above but laminated @60° to core axis, occasional quartz stringers.									177.7'-188.7'-0.7' core lost Spec @ 185.0'
188.7'	207.5'	Lava - altered - occasional quartz vein; Po & Py disseminated up to 5%; some chlorite alteration @ 207.4' 190.0'-191.5'-cherty or Siliceous Quartz zone with up to 30% Po and trace Cpy underlain by Quartz-Hb-Biotite-schist with some Chlorite ("--Lava) up to 206.0' - 206.0'-207.5' - Qtz-Carb zone with minor Biotite; trace of Po or Cpy.									
207.5'	237.5'	Lava - numerous Quartz-Carb stringers; laminated @ 65° to 85° to core axis.									Spec @ 228.0'
237.5'	245.0'	Lava - crenulated with numerous seams of Quartz-Feldspar in a much sheared zone - some brecciation.-Po and some Cpy plus MoS_2 are present up to 5% - traces of Sulphides throughout									Spec @ 242.5' Spec @ 243.5'
245.0'	258.5'	Lava - laminated faintly @ 80°-90° to core axis; with traces of sulphides along quartz veinlets & stringers.									
258.5'	264.0'	Gabbro?-altered; gneissic but appearing almost massive in places									Spec @ 261.0' 269.0'-278.0'-0.7' core lost

DIAMOND DRILL RECORD

Latitude: 24+10W on L.35N
Departures: 50'S
Elevation: -
Azimuth: 90°
Dip: 50°

Property: KOZELA LAKE - GRID No. 3 EXT

Hole Number: KL-25
Commenced: 29/8/62
Finished: 1/9/62
Depths: 353'
Logged By: H.D. Love

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz./ton Au.	Width	Remarks
264.0'	353.0'	Lava - laminated @ 65°-85° to core axis; occasional Quartz veinlets @ 300.5'-300.8'-feldspar plus Po,& trace Cpy. - 277.5'-278.0'-Quartz veinlet with Feldspar & Po & trace Cpy - altered at contact. 278.0'-279.0'- Sulphides - up to 5% disseminated in lava 311.5'-312.0'-Quartz vein; 318.0'-319.0'-Quartz & Feldspar vein with minor Hb and Chlorite - remainder - containing traces of sulphides along Quartz stringers - occasional biotite associated - finely laminated.									Spec @ 310.0' 278.0'-288.7'-0.6 core lost 311.5'-322.0'-0.2'core lost 322.0'-333.0'-0.8'core lost Spec @ 365.9'
	353.0'	END OF HOLE									

DIAMOND DRILL RECORD

Latitude: Line 35N
Departure: 22+70 W
Elevation: -
Azimuth: 90°
Dip: 50°

Property: KOZELA LAKE - Grid 3 Extension

Hole Number: KL 26
Commenced: 3/9/62
Finished: 5/9/62
Depth: 432'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu, Ni, Zn, oz.Au	Width	Remarks
0	11.0'	OVERBURDEN						
								No core lost 11.0-12.5'
11.0'	14.0'	Lava - basalt, gneissic with minor stringers of qtz.						Gneissosity 40° from normal plane of c.a.
14.0	15.0'	Altered - sericite, biotite						No core lost 12.5'-19.5'
15.0'	15.7'	Massive po in qtz breccia & schist (sedimentary) - trace cpy						
15.7'	19.5'	Lava - basalt						Spec @ 19.7'
19.5'	23.5'	Lava - basalt						Gneissosity 30-40° normal plane of c.a
23.5'	24.5'	Minor Po stringers with qtz - 10-20% - trace cpy - Sedimentary (Quartzitic)						Core gain 19.5-27.6' 1.4'?
24.5'	27.5'	Numerous qtz stringers (1 mm) f.g. sed. Becomes chloritic & altered 26-27.5'						Gneissosity 30° from normal plane of c.a.
27.5'	33.0'	Lava - basalt - grinding -oxidized surface - vuggy & leached.						Core lost 27.5-33.0'; 1.7'
33.0'	33.5'	Minor Po stringers 10-20% over(.5) in altered basalt - some sediments minor slaty beds - core lost here.						Gneissosity 30-40° from normal plane of c.a. Core lost 33.0-43.0'; 1.2'
33.5'	34.0'	Qtz amphibole gneiss - not as gneissic and richer in qtz, may be sediment, but resembles lava -						Gneissosity 10-20° from normal plane of c.a Cross fractures 90° to

DIAMOND DRILL RECORD

Latitude: Line 35N
Departure: 22+70 W
Elevation: -
Azimuth: 90°
Dip: 50°

Property: KOZELA LAKE - GRID NO. 3 EXTENSION

Hole Number: KL 26 (2)
Commenced: 3/9/62
Finished: 5/9/62
Depth: 432'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
33.5' (cont'd)	34.0'	i.e. no quartz stringers. 20-30% Po. over (.2') @ 34.0'									gneissosity @ 40.0'
34.0'	43.0'	As above - little bedding visible, hard unaltered with faint gneissosity f.g., black									Spec. @ 42.8' Core lost 43.0-53.7'; 0.7'
43.0'	43.3'	Minor Po. stringers with Qtz, trace cpy.									
43.3'	46.0'	Qtz amphibole gneiss as described above.									Spec @ 45.0'
46.0'	48.0'	Narrow stringers of Po. 10-25% with minor Py and Cpy < 1% . As fine veins & blotches scattered (46-47'). Becomes slightly altered with traces of sulphides.	2136	46.0'	48.4'	0.07	Nil	Nil	Nil	2.4'	Gneissosity 0° from normal plane of c.a. Spec. @ 47.2'
48.4'	50.0'	As above - quartz amphibole gneiss									
50.0'	51.4'	Fine stringers of cpy Po. in fractures and dissem. 1-2%.	2137	50.0'	51.4'	0.18	Nil	Nil	Tr	1.4'	
51.4'	53.8'	Massive Po 80-90% Po. in qtz pebble breccia grain size 1 to 5mm granular, trace < 1% Cpy, minor Py.	2138	51.4	53.8	0.20	0.04	Nil	Tr	1.5'	Gneissosity 0° from normal plane of c.a.
53.8'	54.2'	Stringers of Po, 5-10% Po, Trace of Cpy - 50% cpy in stringer of py @ 56.8'	2139	53.8'	58.8'	0.07	Nil	Nil	Nil	3.6'	Core lost 58.7-64; 0.5'

DIAMOND DRILL RECORD

Line 35 N
22+70 W
-
90°
50°

Property: KOZELA LAKE - GRID NO. 3 EXTENSION

Hole Number: KL 26 (3)
Commenced: 3/9/62
Completed: 5/9/62
Depth: 432'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz. Au	Width	Remarks
54.2'	58.8'	As above - minor sulphides. Po. Trace Cpy as stringers.									Gneissosity 50° from normal plane of c.a.
58.8'	62.3	Becomes more basaltic less qtz - dark green. Amphibole rich with qtz stringers.									Gneissosity or structure 70° from normal plane of core axis.
62.3'	64.0'	As above. Stringers of qtz @ .64'									Fold @ 65.6 changes to 30°.
64.0'	73.4'	Fine grained, Basalt with stringers of qtz - little alteration and fracture filled with quartz.Some fractures and folds with minor blebs and crystals of Po & trace of Cpy. 1:5:cpy:po - together 1-2% Sulph and qtz @ 71.8'(1")									Fracture 60-70° from normal plane of c.a. Structure 30° from normal plane of c.a.
71.8'	73.4'	Altered - qtz veins minor sulph. 2-3% Po - Cpy trace.									
73.4'	76.4'	Basalt, fine grained									No core lost 74.3-84' Gneissosity 30° from normal plane of c.a. Folding @ 82-84 gneissosity 90° from normal plane of c.a. then to 30°
76.4'	76.5'	Sulphides 30-40% Po. minor Py.- cross fracture @ 90° to gneissosity									
76.5'	84.2'	Basalt with minor stringers - parallel to gneissosity - some drag folding cross fracture 90°to folding 70°									Spec @ 83.9'
84.2'	94.5'	As above - not nearly as gneissic Folded (3) 87.8-88.8'.Seams of qtz									Gneissosity 70° from normal plane of 89.0'

DIAMOND DRILL RECORD

Latitude: Line 35N
Departure: 22+70 W
Elevation: -
Azimuth: 90°
Dip: 50°

Property: KOZELA LAKE - GRID No.3 - EXTENSION

Hole Number: KL 26(4)
Commenced: 3/9/62
Completed: 5/9/62
Depth: 432'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz./Au	Width	Remarks
84.2' (cont'd)	94.5'	parallel to cleavage and 70° to the former. Qtz injected 90.2-94.5'									Gneissosity 90°-0° fold @ 90.0'. No core lost 94.5-99.5'
94.5'	99.2'	As above - basalt. Drag folding with qtz injected 95.6. Minor carb & slight chlorite alteration.									Spec @ 99.5'
99.2'	99.5'	Qtz & carb, py @ contact becomes spotted - with brown mica @ 99.5'									Core gain 99.5-110;0.5' Gneissosity 0-10°from normal plane of c.a.
99.5'	105.0'	Qtz amphibole gneiss "fresh" - slightly altered with spotted occurrence of brown secondary mica and chlorite - little qtz or bedding visible - almost massive some fractures cutting structure at about 60° from the former. The rock is probably a lava.									Spec @ 110.0'
110.0'	120.5'	As above - Qtz veins with reddish orange alteration at contact minor carb - some leaching - no sulphides									Core lost 110.0-120.5'; 0.6' Gneissosity or structure 20° from normal plane of core axis.
120.5'	128.0'	As above - qtz veining									No core lost 120.5'-130.5 Gneissosity 10° from normal plane of c.a. Spec. @ 133.0'
128.0'	134.6'	Gradually becomes finely bedded - altered sed. largely chlorite & amphibole.Thin stringers of f.g. dark slaty - with brown biotite. developed as stringers to 134.6' Folding @ 133' dip reverse 20-30°									Gneissosity 20° from normal plane of c.a. Spec. @ 134.2' Spec. @ 146.5" Gneissosity 0-10-15° from normal of c.a.
134.6'	140.9'	Becomes f.g.qtz amphibole-somewhat altered to chlorite.									

DIAMOND DRILL RECORD

Latitude: Line 35N
Departure: 22+70W
Elevation: -
Azimuth: 90°
Dip: 50°

Property: KOZELA LAKE

grid no. 3 - Extension

Hole Number: KL 26(5)
Started: 3/9/62
Finished: 5/9/62
Depth: 432'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	Oz.Ag.	Width	Remarks
140.9'	144.4'	As above.									
144.4'	146.9'	Becomes altered - highly chloritic- brown chlorite & biotite - minor Po.									
146.9'	153.2'	Start of basalt - chloritic with faint quartz to 151' - minor allocation 147.5' (.3)									Spec. @ 150.7'
153.2'	155.2'	Qtz vein with minor sulph.7-10% Po <1% Cpy. Ratio po:cpy:5:1. Contact effect 1' slight leaching of lava.	2140	153.2'	155.2'	0.04'	Nil	Nil	Nil	2.0'	Structure 10-20° from normal plane of core axis.
155.2'	161.0'	As above - lava, basalt fold 159.5'									Speciman@ 154.9' No core lost 151.0-161.0 Gneissosity 20-30° from normal plane of c.a.
161.0'	171.7'	Basalt with qtz stringers-minor drag folds.									No core lost 161-171.7'
171.7'	182.0'	As above. Highly crenulated. Cross fracture with red alteration bordering vein of qtz - 20° to gneissosity. Crenulations to 181.7' Qtz with Po, Cpy @ contact edge (.1') @ 177.7'. Minor Po in cross fracture Qtz filled @ 180'									No core lost 171.7-182' Gneissosity 0° from normal plane of core axis @ 173.0.
182.0'	192.0'	As above - mildly altered to chlorite.									No core lost 182.0'-192.0'

DIAMOND DRILL RECORD

Latitude: Line 35 N
Departure: 22+70W
Elevation: -
Azimuth: 90°
Dip: 50°

Property: KOZELA LAKE

Grid No. 3 - EXTENSION

Hole Number: KL 26 (6)
Commenced: 3/9/62
Finished: 5/9/62
Depth: 432'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
192.0'	196.2'	As above - basalt. Cross fracturing network throughout, heavily chloritized.									
196.2'	202.0'	Slightly coarser grained - qtz veining becomes faint.									
202.0'	212.0'	As above. Minor qtz veining appears massive-like.									Gneissosity 10° from normal plane of c.a. No core lost 202-212.0'
212.0'	222.0'	As above. Qtz vein with reddish alteration at 223.0'									No core lost 212.0-222.0
222.0'	223.0'	Qtz vein and minor crenulations-slightly altered 0.1'									Gneissosity 20° from normal plane of c.a.
223.0'	233.0'	As above - basalt									No core lost 223-233.0'
233.0'	242.5'	As above - basalt									No core lost 233.0-242.5 Spec. @ 239.0'
242.5'	252.5'	As above basalt. Qtz veins with red alteration @ contact. Po injected along drag folds - Qtz parallel to gneissosity due to dyno-metamorphism.									No core lost 242.5'-252.5'
252.0'	260.0'	As above - quartz veins injected with red alteration.									Core lost 252.5-262.0', 0.3' Gneissosity 10° from normal plane of c.a.
260.0'	262.0'	Qtz veins .1' every 5'foot with minor sulphides Po, Cpy, Py. red alteration at contact.									

DIAMOND DRILL RECORD

Line 35N
22+70 W
90°
50°

Property: KOZELA LAKE

Grid No. 3- Extension

KL 26(7)
3/9/62
5/9/62
432'
F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz. Ag.	oz. Au.	Width	Remarks
262.0'	273.0'	Basalt (lava) highly banded with Qtz stringers - chloritic.										Gneissosity 30° from normal plane of c.a. Core lost 262-273.0'
273.0'	284.3'	Basalt - lava - cross fracture network 80% qtz with alteration Po and Cpy common. 283.4' Qtz 282.0-282.6'										Core lost 273-283.3;0.3' Fold @ 272'-90°from normal plane of core axis Core gain 284.3-293.3; 0.9'
284.3'	293.3'	Qtz vein 287.3' Qtz vein 290.0 (.3) Drag folding 291.0' Basalt - lava										Gneissosity 10°from normal plane of c.a.
293.3'	303.7'	Basalt - lava. Fold @ 303.7'										Core lost 293.3-303.8; 0.3' Gneissosity 90° from normal plane of core axis @ 303.7?
303.7'	314.0'	Basalt lava										No core lost 303.7-314.0;
314.0'	324.5'	Basalt lava with qtz stringers. Cross fractures with Qtz & red alterations @ 324.5' and 325.0'										Gneissosity 10° from normal plane of core axis Core lost 314.0-324.5'; 0.3'
324.5'	334.7'	Basalt same as before. Fold & Cross fractures to 327.5' with Qtz, red alteration - minor sulphides. Fold 331.0-331.2. Fractures @ 90° to gneissosity 334.0'										No core lost 324.5-334.5' Structure 0-80° from normal plane of core axis (326.5') Structure 30°(fold) from normal plane of c.a.(331)
334.7'	345.0'	Basalt - lava - Qtz - barren .5' @ 336.7'. Large cross vein 1"wide breccia - at 90° to gneissosity- qtz & calcite fresh - between										No core lost 334.7-345.0' Spec. @ 339.0' Gneissosity 20° from normal plane of core axis.

DIAMOND DRILL RECORD

Latitude: Line 35N
Departure: 22+70 W
Elevation: -
Azimuth: 90°
Dip: 50°

Property: KOZELA LAKE

GRID NO. 3 - EXTENSION

Hole Number: KL 26(8)
Commenced: 3/9/62
Finished: 5/9/62
Depth: 432'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	From	To	Assay Results Cu.	Ni.	Zn.	oz.Au.	Width	Remarks
334.7'	345.0'	basalt fragments minor cpy & po. @ 339.7'. Qtz vein injected with red alteration. 343.0'									
345.0'	355.2'	Basalt. Becomes coarse grained - no quartz stringers - fine grained Gabbro-like gneissic 354.3'									Gneissosity 20° from normal plane of core axis
											No core lost 355.3-365.5'
355.2'	365.5'	Gabbroic - f.g. gneissic - no stringers.									Gneissosity 20° from normal plane of core axis
365.5'	376.0'	As above - calcite vein - 375.2-376.2'									Core lost 365.5'-376.0'; 0.3'. Fracture 80° from normal plane of c.a.
											Spec. @ 375.0'
											Spec. @ 375.8'
											Core lost 376.0-385.5;4.5
376.0'	385.5'	Gneiss - gabbro									Gneissosity 20° from normal plane of c.a.(376)
385.5'	394.0'	Gabbro									No core lost 385.5-394.0'
394.0'	402.0'	Gneiss-carb(calcite) fracture filled - cross cutting. Gabbro-ends 395.0'. Transition to fine grained basalt.									Core lost 384.1-402;4.2'
											Spec. @ 412.3'.Coarse grain 407-412.3';5.4'?
402.0'	412.3'	Basalt - lava - minor qtz.stringers cutting gneissosity @ 407.3'massive po, with ≤1% Cpy .2' wide - some cross cutting - calcite veins.									Gneissosity 10-20° from normal plane of c.a.
											No core lost 412.3-422.3'
412.3'	422.3'	Basalt									Gneissosity 10-20° from normal plane of c.a.
											412.3°-432.5'. No core lost 422.3-427.0'&427.0-432.5'
422.3'	427.0'	Basalt									

DIAMOND DRILL RECORD

Latitude: Line 35N
Departure: 22+70 W
Elevation: —
Azimuth: 90°
Dip: 50°

Property: KOZELA LAKE

GRID NO. 3 - EXTENSION

Hole Number: KL 26(9)
Commenced: 3/9/62
Finished: 5/9/62
Depth: 432'
Logged By: F.J. Kozela

From	To	Formation	Sample No.	Assay Results From	To	Cu.	Ni.	Sn.	oz.Au.	Width	Remarks
427.0'	432.5'	Basalt									NOTE: All angles measured in a counterclockwise direction except where otherwise indicated as reverse, then in the clockwise direction.
	432.5'	END OF HALE									
											CORE RECOVERY 98.2%