



52E10SW8575 2.9325 SHOAL LAKE

010

SUMMARY REPORT
Shoal Lake Properties
Kenora Mining Division
NTS 52E/10
for
GOLDEN RULE RESOURCES LTD.

RECEIVED

AUG 11 1986

MINING LANDS SECTION

by
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and

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March 1986



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SUMMARY

The property is being explored by Northern Abitibi Mining Corp. of Montreal which is a subsidiary of Golden Rule Resources Ltd. of Calgary. It consists of 17 claims, 15 were initially staked in May 1983 and two were staked in September 1985.

A program of geophysics consisting of magnetometer and VLF surveying was carried out in 1984. The grid was geologically mapped at the same time with supplementary mapping work being carried out in September 1985. It is this work that is the subject of the present report.

The claims are adjacent to properties owned by Kenora Prospectors and Miners Limited which cover the Mikado and Cedar Island mines. These mines produced some gold around the turn of the century and again in the 1930's.

A small amount of additional work was also carried out on 21 adjoining claims which also belong to the Northern Abitibi/Golden Rule group. The work on these claims was initially submitted in August 1985. The 1985 geological maps have been modified slightly and are attached to the present report.



Ontario

Ministry of Natural Resources

File _____

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Geology
Township or Area Glass Township G-2642 Shoal Lake
Claim Holder(s) Jens E. Hansen
19 Nesbitt Street, Nepean, Ont. K2H 8C4
Survey Company Taiga Consultants and Geotest Corporation
Author of Report Jens E. Hansen and R.K. Netolitzky
Address of Author 19 Nesbitt Street, Nepean, Ont. K2H 8C4
Covering Dates of Survey May 1984 - September 1985
(linecutting to office)
Total Miles of Line Cut _____

MINING CLAIMS TRAVERSED
List numerically

K	710775	
	710776	(prefix) (number)
	710777	
	710779	
	710780	
	710781	
	710782	
	710783	
	710784	
	710785	
	710786	
	710787	
	710788	
	710789	
	710790	
	842065	
	842066	
TOTAL CLAIMS		<u>17</u>

If space insufficient, attach list

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS
per claim

ENTER 40 days (includes
line cutting) for first
survey.

ENTER 20 days for each
additional survey using
same grid.

Geophysical	
-Electromagnetic	_____
-Magnetometer	_____
-Radiometric	_____
-Other	_____
Geological	_____ 20
Geochemical	_____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: August 4, 1986 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

OFFICE USE ONLY

INTRODUCTION

Exploration programs on the Shoal Lake properties were conducted over a two-year period by crews in the employ of Taiga Consultants Ltd. and Geotest Corporation. These programs had the objective of completing assessment requirements under considerable budget constraints. The data collected during these programs are of use in evaluating the property potential; however, the results should not be compared to programs in which an integrated approach has been used.

This report compiles the exploration data and discusses the economic connotations of the results obtained.

Property

The property is comprised of 37 mineral claims in three non-contiguous groups:

Bag Bay	K-710775 to K-710777, K-710779 to 710788, K-777817 to 777819, K-811071 to 811077, K842065 and 842066.
Echo Bay	K-811028 to 811031
Helldiver Bay	K-710789 to 710790

The property is situated 35 km west of Kenora. Access to the property is obtained by a secondary road off Highway 17 to Clytie Bay / Rush Bay. Trails not suitable for ordinary motor vehicles could be used for winter access to the properties. Summer access is best obtained by motorboat from the Clytie Bay boat ramp. The main claim group is less than 3 km from the boat ramp. The general project area is indicated on Figure 1, with more specific claim locations indicated on Figure 2.

REGIONAL GEOLOGY

The properties are situated in the Shoal Lake area of the Kenora Mining District. The geologic mapping covering the property area is presented on the Bag Bay map-sheet (Ontario Geological Survey, Map 2422) at a scale of $\frac{1}{2}$ mile to the inch. The map-sheet covers a portion of the Wabigoon Greenstone Belt of Archean age.

The properties are within and peripheral to the Canoe Lake Stock, which intrudes volcanic rocks. As is illustrated on Figure 1, numerous gold occurrences are situated along the western edge of the stock. Most of these are associated with east-west trending shear systems which continue into the stock.

ECONOMIC GEOLOGY

The gold occurrences of the region, with the exception of the Dupont deposit, are generally associated with late-stage shear zones. Modest prior production has been obtained from these structures on a historical basis. Very little recent exploration of these structures has been completed.

The properties were acquired as a result of limited surface investigations which located mineralized structures within the Canoe Lake Stock. Stocks intruding volcanic piles have been demonstrated to be very attractive environments for gold exploration. The presence of numerous gold occurrences in the adjacent volcanics, especially near intrusive contacts, is a positive indicator.

Gold deposits hosted by fissure veins and shear systems form the traditional exploration targets. However, many traditional prospectors shy away from exploring the intrusives as unproductive, even in instances in which gold occurrences are known to be present within the intrusives. The historical records indicate this to be the case for the Canoe Lake Stock.

The Bourlamaque batholith in the Val d'Or camp was one of the areas of successful exploration within favourable intrusives. More recent successes have been obtained from the Star Lake area of northern Saskatchewan. Recent discoveries by Calnor Resources Ltd. in the High Lake intrusive (12 miles to the northwest of the Shoal Lake area) further illustrate the importance of these settings. The intrusives are favourable settings for shear-related deposits in that the units are generally homogeneous and more susceptible to the development of brittle fracturing and the local development of dilatant zones.

Historical prospecting often had little success in this environment as the best developed shears were recessive weathering and often totally obscured by overburden.

Geophysical procedures (VLF-EM and ground magnetics) can be very useful in the exploration for this type of deposit. Since the intrusives often are flat magnetically and without significant conductance, the above-mentioned methods have the potential of responding to the shear systems and being of direct use in defining drill targets.

The weakly developed conductivity and the magnetic responses associated with the shearing are often too subtle to be of use in tracing these targets through more variably responding volcanic and sedimentary environments.

The other methods which have been of particularly good use are soil geochemistry and basal-till sampling with overburden drilling techniques in areas where soil conditions are not suitable for soil geochemistry.

EXPLORATION HISTORY

The region has had a long and colourful history for gold mining and exploration. The main periods of activity were 1890-1910 and 1934-1943. Most of the gold discoveries in the region were made from 1885 to 1895, utilizing conventional prospecting techniques.

One of the more important past-producers, the Mikado Mine, is situated immediate west of the Bag Bay claims. The Mikado has recorded production of 28,335 ounces of gold.

Figure 1 illustrates the gold occurrences in this region. The cluster of known occurrences around the Canoe Lake Stock and the High Lake Stock has not until very recently been identified as an important indicator of possible significant new deposits within the intrusive bodies.

Recent results announced by Calnor Resources from the High Lake Stock and the preliminary results obtained by Golden Rule in the Canoe Lake Stock indicate that considerable potential exists for economic gold occurrences which can be identified by and explored for with modern techniques.

BAG BAY CLAIMS

The Bag Bay claims have been expanded to the present 30 claims which are on the western side of the Canoe Lake Stock. The most recent staking covers the Tycoon shaft on an island in Bag Bay. This occurrence is described in ODM Mineral Deposit Circular 16 as:

303. Tycoon Occurrence	Islands in Bag Bay, Shoal Lake (Cls. D219-21, JES 54) NTS: 52E/10SW Lat: 49.60° Long: 94.96°	Kenora Regional Geologist Files (Tycoon; Kuryliw, C.J., Bag Bay Grp., Shoal Lake) ODM Vols: 9, (1900) 20, (1911)	1898-1899: Sh. 78 ft. deep and 713 ft. DD. Believed to be an extension of the Mikado No.2 vein. Qtz. veins in massive, altered q. diorite. DD hole: No.1 - Cl.D219 - 1.0 oz. Au/ton over 11 ft.-width. No.2 - 3.75 oz. Au/ton over 19 ft., 3.20 oz. Au/ton over 12.5 ft., No.3 - 0.37 oz. Au/ton over 26 ft., 0.92 oz. Au/ton over 6.5 ft.
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The values reported may not have been duplicated by further investigations. The summary descriptions of other gold occurrences in close proximity to the claims are listed below:

34. Bullion No.2 Prospect	Glass Tp., Shoal Lake Area (Cls. D.233, D.390) NTS: 52E/10SW Lat: 49.59° Long: 94.95°	Kenora Regional Geologist Files (Bullion No.2) ODM Vols: 9,(1900) 10, p.79 (1901)	Two Sh. 75 ft. and 115 ft. deep, w/ 300 ft. of development work. 3 small faulted q. veins.
61. Crown Point Mine	Glass Tp., between Bag Bay and Clytie Bay in Shoal Lake (Cl.D258) NTS: 52E/10SW Lat: 49.61° Long: 94.97°	ODM Statistical Files - (Crown Pt. Mining Co.) ODM PR 1962-5, p.8-9, 13-14 Kenora Regional Geologist Files - (Crown Pt. Mine; Kuryliw, C.J.-Shoal Lk.) ODM Vols: 9,p.59(1900) 10, p.79 (1901) 13, pt.1, p.61 (1904)	Production: 1900: 100 oz. Au/from 150 tons. = 0.67 oz. Au/ton. 3 Sh: 60 ft., 65 ft., 125 ft. deep w/100 ft. drifting. Fire in main sh in 1900. Pyritic q. stringers in contact shear zone between granite and metabasalts. Main vein strikes 90°.
183. Mikado Mine	Glass Tp., Bag Bay, Shoal Lake NTS: 52E/10SW Lat: 49.58° Long: 94.96°	ODM Statistical Files (Mikado Gold Mining Co. Ltd.) Kenora Regional Geologist Files (Mikado Mine; Kuryliw, C.J. - Shoal Lk.) GSC Economic Geology Series No.15,p.40 ODM PR 1965-2,p.41-2 ODM Vols: 7 to 13 (1898-1904) 20-21 (1911-12) 43 (1934) 44 (1935)	Production: 1896-1902, 1910-11, 1931: 28,335 oz. Au & 41 oz. Ag from 57,813 tons = 0.49 oz. Au/ton. No.1 sh: 660 ft. deep w/ 10 levels. No.2 sh: 250 ft.; No.3 sh: 80 ft. No.4 sh: 65 ft. Also 7500 ft. lateral development mainly in No.1 Sh. 1932-34: 2800 ft. underground drilling. Keewatin mafic volcanics cut by E. trending pegmatite dike which is cut by vein (trending 330°) which is 16 in. to 5 ft. wide. Au with cpy, galena, tetrady-mite, bismuthinite, Mo.
269. Sirdar Prospect	Glass Tp., E. of Bag Bay Shoal Lake (Cls. D410, S 182) NTS: 52E/10SW Lat: 49.66° Long: 94.95°	Kenora Regional Geologist Files (Sirdar; Kuryliw-Shoal Lake) ODM Vol. 20,p.165 (1911) 9 (1900) 8 (1899)	125 ft. Sh. w/500 ft. drifting & 200 ft. tunnel. Veins occur in a sheared zone of altered granite, 3 to 4 ft. wide. Some py and cpy reported.

296. Toronto &
Western Co.
Occurrence

Bag Bay, Shoal Lake
(Cl. D410)
NTS: 52E/10SW
Lat: 49.59°
Long: 94.96°

ODM Vol.8 (1899)

2 Sh.: 120 ft. and 57 ft. deep. 4 ft.
wide zone of altered granite impreg-
nated by q. & py. Adjoins Mikado on
the E.

The claim group was gridded and covered by VLF-EM and magnetic surveys and reconnaissance geology. The eastern portion of the grid has been mapped while observations of outcrop distribution were completed by the geophysical crews on the western claims.

Maps 1 to 3 (in pocket) summarize the grid geophysical and geological observations. Gold mineralization in the main shaft area is associated with quartz veining and shear systems. Test geochemical B-horizon soil surveys confirm that such procedures can be used to explore in this area subject to caution in regard to patchy lacustral clay deposits in the lowland areas. The limited soil results also suggest that gold mineralization may be more widespread than that indicated by sampling of the old workings.

Magnetic and VLF-EM features, which may relate to shear systems, form excellent exploration targets in this environment. The exploration programs have confirmed that gold mineralization is controlled by shear zones that are present within the intrusive. The property has excellent potential for Bourlamaque type targets. Recent discoveries in the nearby intrusive at High Lake further confirm the potential for the region.

The initial claims were acquired by the Northern Abitibi/Golden Rule joint venture after field examinations in the region confirmed that the east-west trending veins in the Bag Bay area were related to shear structures which probably post-date the intrusion. Upon staking the property and conducting the initial exploration program, old prospect shafts and trenches were located that are not described in the historical records. Grab samples from these trenches returned highly anomalous gold values and instigated the staking of additional claims.

Figure 3 illustrates the gold geochemical responses obtained from B-horizon soil samples collected in proximity to one of the areas in which old workings were identified. Some of the results of grab samples collected from these workings are listed below to indicate the extent of gold enrichment.

Au ppbShaft 'D'

Size 4m x 4m; filled with water nearly to surface; wallrock massive pink granodiorite; massive white quartz boulders up to 15 cm diameter in dump, are sheared, and chloritic/pyritic in bands; also in dump, highly oxidized and pyritic sheared granodiorite boulders.

D-1	grab	from dump; rusty weathering, highly pyritic chlorite schist (shear zone).	278
D-2	grab	from dump; massive quartz vein containing minor disseminated pyrite and sheared chloritic/pyritic highly altered granodiorite.	144
D-3	grab	from dump; rusty weathered, pyritic, siliceous, calcareous chlorite schist (shear) - previously broken by Geotest.	470

Shaft 'E'

filled with water, unaccessible; wallrock massive white granodiorite; shear strike ~300°, dip steeply NE, approximate width 1.5 metres.

E-1	grab	from dump; boulder approx 20 cm ² , massive quartz-carbonate vein with disseminated pyrite within chlorite schist (shear).	6000
E-2		wallrock massive white granodiorite	22

Trench 'G'

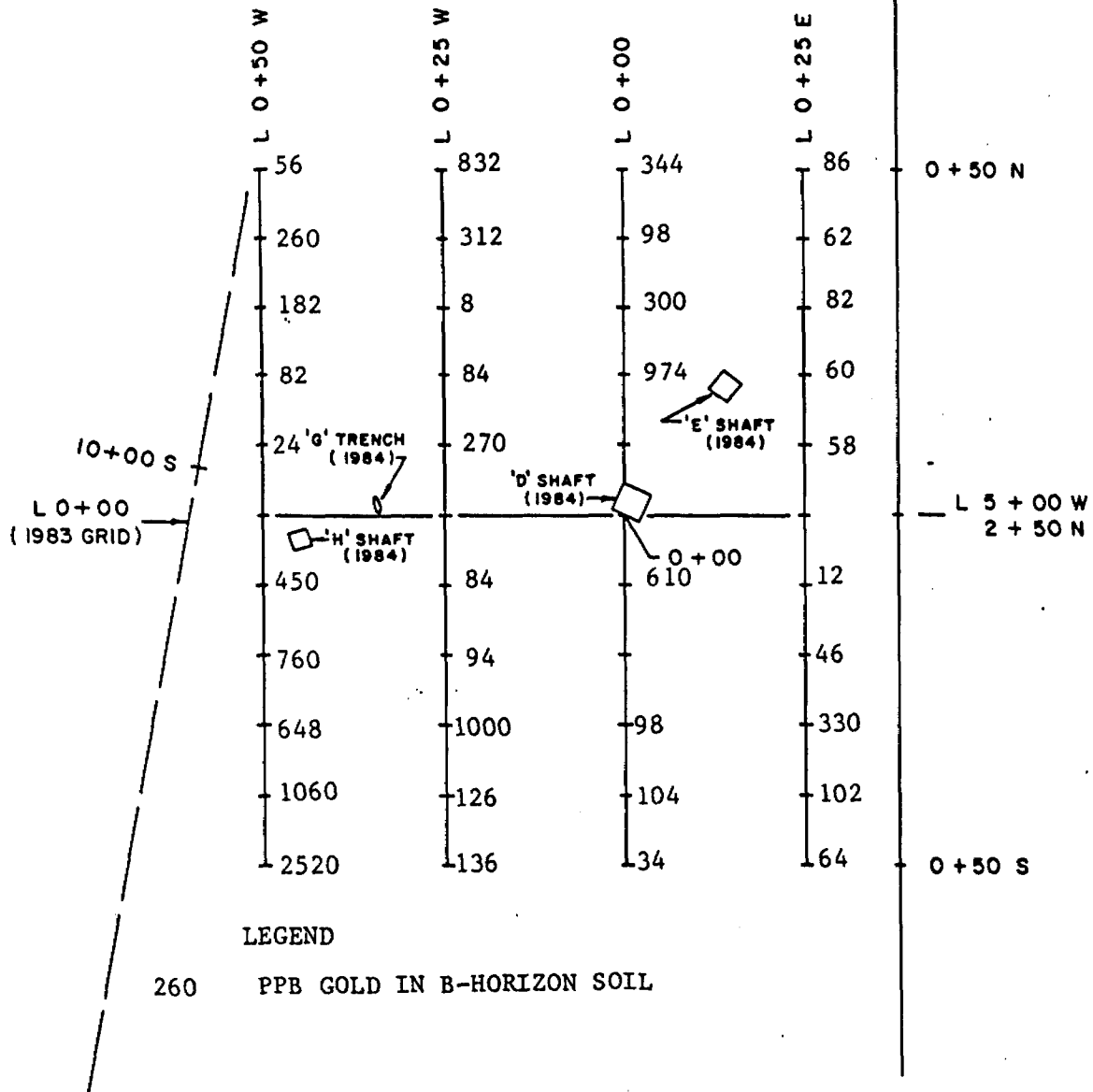
under fallen tree, dug by Geotest

G-1	0.6m	altered zone; narrow quartz stringers in sheared granodiorite, shearing at 160°, vertical.	780
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Shaft 'H'

unaccessible, at least 20' deep, filled with water to this level; highly sheared, calcareous chloritic granodiorite, with disseminated pyrite, strike 170°, vertical, width not determined due to inaccessibility; calcareous quartz veining present at least 6 cm in width.

H-1	grab	from dump; sheared granodiorite, siliceous, chloritic, disseminated pyrite.	7100
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LEGEND

260 PPB GOLD IN B-HORIZON SOIL

25 grams of minus 80 mesh material were analysed by fire assay - A.A. procedures.

GOLDEN RULE RESOURCES LTD.

MINING CLAIMS : 777817 - 777819, 811071 - 811077, 811053 - 811058
ECHO BAY & BOYS TWP., SHOAL LAKE ONT.
MINI SOIL GRID

DATE JULY, 1985 NTS 52 E/10

PROJECT GR-ONT-5 FIGURE 3

SCALE 1:1000

TAIGA CONSULTANTS LTD.

MAP

ECHO BAY CLAIMS

Four claims were staked to cover the historical occurrence referred to as the Great Granite Gold Mining and Development Company shaft:

117. Great Granite Occurrence	Glass Tp., S. of Echo Bay (Cl. 248E, 272E) NTS: 52F/10NW Lat: 49.83° Long: 94.92°	Kenora Regional Geologist Files (Great Granite Co.) ODM Vol.8,p.68 (1899) 9, (1900) ODM GR 41,p.46 (1965)	Au and bornite in 70 ft. Sh. in granite. Sh on Cl.272E. 4 pits on Cl.248E. Q. veins near contact of q. diorite and metavolcanics.
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The four claims have been covered by a 100-metre spaced grid. Geological mapping and total-field ground magnetic and VLF-EM surveys were completed.

Selected grab samples from the shaft returned a maximum value of 890 ppb gold from a sericitic schist, containing minor pyrite and minor malachite staining.

The magnetic coverage did not outline any prominent trends. A few short VLF-EM conductors were outlined which may warrant further consideration.

HELLDIVER BAY CLAIMS

Two claims are held within the volcanics about a mile to the southwest of the Bag Bay claim group. The property may partially cover a historical occurrence referred to as the Helldiver Group. The Olympia Mine is situated approximately 300 metres to the southeast, with the relevant data as follows:

219. Olympia Mine	Glass Tp., NW shore of Helldiver Bay, Shoal Lk. NTS: 52E/10SW Lat: 49.58° Long: 94.96°	ODM Statistical Files (Olympia Gold Mining Ltd.) Kenora Regional Geologist Files (Machin Cls.; Olympia Loc. M.11). Canadian Mines Handbook, 1964, p.184. Survey of Mines 1969, p.171. ODM MP 22, p.12-14, 1968.	Production: 1906-1915: 332 oz. Au & 58 oz. Ag from 1,598 tons = 0.20 oz. Au/ton. 5 Sh w/deepest to 125 ft., also 3 tunnels for total of 962 ft. of lateral work. 125 ft. tunnel sampled every 10 ft. yielded 0.107 oz. Au/ton Av. width (44 in. wide). Basic meta- volcanics intruded by porphyry dikes. Au with py in q. and q.-carbonate veins in NW fractures.
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The two claims were covered with 100-metre spaced north-south grid lines. Ground VLF-EM and total-field magnetic surveys were completed. Several strong VLF-EM conductors were outlined. The magnetic results indicate considerable activity, with some of the magnetic responses associated with the conductors.

During grid emplacement, one trench and prospect shaft were observed on the southern portion of Line 3E. Grab samples were collected from the shaft area and analyzed geochemically for gold by fire assay/AA procedures:

<u>Sample</u>	<u>ppb Au</u>
A-2	8,285
A-3	245
A-4	20
A-5	1,005

The shaft is located immediately south of a moderate VLF-EM conductor and appears to coincide with a linear magnetic high.

CONCLUSIONS

The Canoe Lake Stock has considerable potential to host Bourlamaque type deposits within the stock and in the contact zone with the surrounding volcanics. Gold deposits in this environment will be structurally controlled and probably will be associated with east-west shear systems. Mineralized shears trending at approximately 160° Az have also been recognized on the property.

Sufficient exploration has been completed to identify possible shear structures on the basis of geophysical coverage. Soil geochemical procedures have been tested with excellent positive responses. The patchy presence of lacustral clays within the region indicates the need for considerable care in conducting any large-scale geochemical programs.

RECOMMENDATIONS

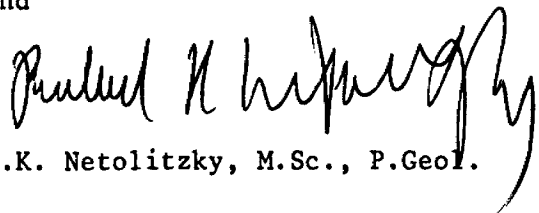
1. Geochemical coverage should be extended to cover all the suitable terrain with a minimum sample density of 12.5 x 100 metres. A minimum of 25 grams of -80 mesh material should be analyzed for Au by fire assay/AA technique.
2. Any extensive areas of unsuitable terrain should be geochemically sampled by a Wacker overburden system, at an initial minimum density of 25x100 m. Samples should be analyzed in the same manner as the soils, after proper descriptions are completed.
3. The better geophysical and geochemical targets should be subjected to diamond drill testing. Strong geochemical targets should be given drill priority.
4. The land position should be reviewed and further staking should be considered based on renewed interest in the region due to the activity at High Lake .

Respectfully submitted,



JENS E. HANSEN, P.Eng.

and



R.K. Netolitzky, M.Sc., P.Geol.

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C E R T I F I C A T E

I, Jens Eskelund Hansen of the City of Nepean, in the Municipality of Ottawa- Carleton do hereby declare:

1. That I am a consulting geophysicist residing at 19 Nesbitt Street, Nepean, Ontario K2H 8C4;

2. That I am a graduate of Engineering Physics of Queens University, Kingston, Ontario in 1964 and have been continuously engaged as a practicing geophysicist since that time, and I am a Registered Professional Engineer in the Province of Ontario;

3. That I have visited the property and that the foregoing report is based on personal supervision and interpretation of the data discussed in the report.



JENS E. HANSEN, P.Eng.
Consulting Geophysicist

Nepean, Ontario

August 4, 1986

APPENDIX A
PREVIOUS WORK
AND
GOLD SHOWINGS
IN THE
CANOE LAKE STOCK AREA

PREVIOUS WORK AND GOLD SHOWINGS IN CANOE LAKE STOCK AREA.

GENERAL COMMENT

Numerous pits and short shafts are present in the area but systematic re-sampling of most of these workings indicate very low average gold grades. Minor previous production from small quartz veins, lenses with visible gold, not presently economic. Most of the gold exploration since the 70' has concentrated on stratabound tuff-hosted targets like the Duport deposit. Canoe Lake Stock is geologically unusual, may be analogous to intrusive associated with porphyry-type mineralization-alteration. Previous geological studies but no systematic gold exploration within the pluton. See Economic Geology sections of OGS reports and papers and assessment reports copied, for summaries of gold showings in area.

1) TYCOON SHOWING (On island in Bag Bay)

Diamond Drilling Report 31 (Copied)

Five drill holes by Pancontinental Mining in 1979. Intersected altered intrusive with only low gold values(>0.06 opt) and no quartz veins.

Diamond Drilling Report 32 Claim 489120, Island in Bag Bay

Holes SL 83-1, 2 and 3: On NE island near old shaft. Each hole to approx. 100 metres depth. Altered quartz diorite, non-magnetic, red staining, silicified intervals to few metres with 0.5 to few % pyrite. Assays not given.

2-3213: Petrographic Report on drill core. Copied.

2-4104: Claims K 489111-121, K 489741-742. Tasu Resources

VLF and Mag surveys on the ice over Bag Bay. Purpose: to outline regional fractures, faults in quartz diorite, areas of conductivity in regional structures, and trend of intrusive contact. Results: east-west VLF conductors (may be caused by overburden), magnetics indicate location of contact, intrusive magnetically heterogeneous either due to screens of volcanics or zoning.

2) GREAT GRANITE Au SHOWING

70' shaft. No known production. No recent reports.

3) CROWN POINT SHOWING(Fairservice Option)

Crown Point mine was located within a WNW shear within the Canoe Lake Stock. 150 tons treated, approx. 100 oz. Au produced. Three shafts. 1968 Magnetic and HLEM surveys and 7 diamond drill holes, reports not available.

2-1008: Geologic Mapping by Kuryliw, 1972.

Later work indicates mapping inaccurate.

2-1139: Electromagnetic and Magnetic Surveys, C.J. Kuryliw, 1973.

Two weak VLF anomalies, magnetic anomalies due to magnetic peridotites?

2-3671: Sherritt Gordon 1980

Mapping and trenching. Sampling in area between Main and Vent shafts returned only low gold values, max. 0.06 opt/0.7 feet across narrow shear zone. Porphyry dykes associated with shears in quartz diorite. Target was tuff-hosted stratabound mineralization such as at the Duport deposit, not interested in shear-hosted gold.

63-4287: Selco Inc. 1983

Mag, MaxMin, VLF geophysical surveys: Several conductors tested by previous drilling in 1968; due to po-mag mineralization in banded sediments and mudstone with fine pyrite. Humus geochem survey: One strong anomaly (4000 ppb Au), related to east-west shear in pluton.

4) SQUAW LAKE Cu-Zn-Ag SHOWING

Diamond Drilling Report 18: Kerr Addison 1972

I.P. anomaly near Cu-Zn Ag showing. One drill hole: intersected quartz diorite with < 1% pyrite, cut by acid porphyry dyke(50'), ended in amphibolite(?). Few short zones of chalcopyrite, pyrite, sphalerite, on fractures in intrusive. Best assay to 0.06 opt Au, 2.94 opt Ag, 2.22% Cu.

2-96: EM and Mag surveys, Noranda 1980.

Same area as 1972 Kerr Addison drilling. High conductivity due to lake bottom sediments? Outcrops of quartz feldspar and granitic porphyries. Results 'interesting but inconclusive'.

GEOLOGY OF THE CANOE LAKE STOCK AREA

SEE COPIES OF OGS GEOLOGY REPORTS

NOTES ON CAMPBELL'S THESIS (Copy available at OGS library).

S.W. Campbell, Canoe Lake Stock. M. Sc. thesis, U of Manitoba, 1973.

Description of the Canoe Lake Stock:

- 1) Quartz diorite
- 2) Severe magmatic hydrothermal alteration.
- 3) No penetrative cataclastic foliation. Cataclasis limited to margins of shear zones and along the contacts of the stock.
- 4) Abundant pre- and post- hydrothermal fractures and shears.
- 5) Numerous porphyritic felsic dykes associated (genetically and spatially) with the Canoe Lake Stock.
- 6) Fracture-controlled contact in Bag Bay-Helldiver Bay area is unique to Canoe Lake Stock, not seen in other nearby stocks.
- 7) Pervasive porphyry-type copper mineralization associated with major fractures. Mineral association: pyrite-chalcopyrite-pyrrhotite-sphalerite-molybdenite.
- 8) Peripheral gold mineralization appears to be associated with Bag Bay-Helldiver Bay contact zone.

Mineralization and Alteration

The mineralization and alteration in the Canoe Lake Stock is comparable to the typical porphyry copper model. Potassic, phyllic and propylitic alteration zoning.

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* 1983 Gold Deposits in Northwestern Ontario; p.194-197
in The Geology of Gold in Ontario, OGS MP 110.

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* 1973 Geology of the Canoe Lake Stock. unpublished M.Sc. thesis,
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TYCOON Au SHOWING

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Tasu Resources Ltd. H.G. Tibbo, June 1983.

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2-4104: Report on VLF EM-16 and Magnetic Surveys, Shoal Lake
Property, Ont. Tasu Resources Ltd. Ian G. Park, May 26, 1981.

CROWN POINT Au SHOWING

- * 2-1008: Report on a Geologic Mapping of the Bag Bay-Shoal Lake Claim Group, Kenora Mining Division, N. W. Ontario, C.J. Kuryliw, August 30, 1972.
- # 2-1139: Reports on Electromagnetic and Magnetic Surveys over the Bag Bay Claim Group, Claims 274182-199. Shoal Lake Kenora M.D. C.J. Kuryliw, January 6, 1973.
- # 2-3671: Kenora Gold Project, Crown Pt. Cl.(Fairservice Option), Geological and Trenching Report. Bag Bay Area, Glass Twp. District of Kenora, Ont. Sherritt Gordon Mines Ltd. D. G. Harder and R. H. Morse, December 31, 1980.
- # 63-4287: Report on Grid 'C' - Fairservice Option, Shoal Lake Gold Project, Selco Inc. B. Zebev, November 1983.
- 2-6911: Work Report, Shoal Lake Claims, Glass Twp., Kenora M.D. 52 E/10. J. E. Hansen, June 24, 1984.
- 2-8337: 1985 Program Work Report, Shoal Lake Property, Glass Twp., Kenora M.D., NTS 52 E/10. J. E. Hansen, August 1, 1985.

SQUAW LAKE Cu-Zn-Ag SHOWING

- # Diamond Drilling Report 18: Drill Log KX-72-1, Kerr Addison Mines Ltd. March 1972.
- # 2-96: Electromagnetic and Magnetometer Survey, Squaw Lake Option, Claims K203198-205. Noranda Exploration Co. Ltd. P.G. Cooper, 1980.

8a

49.75°

8b

49.50°

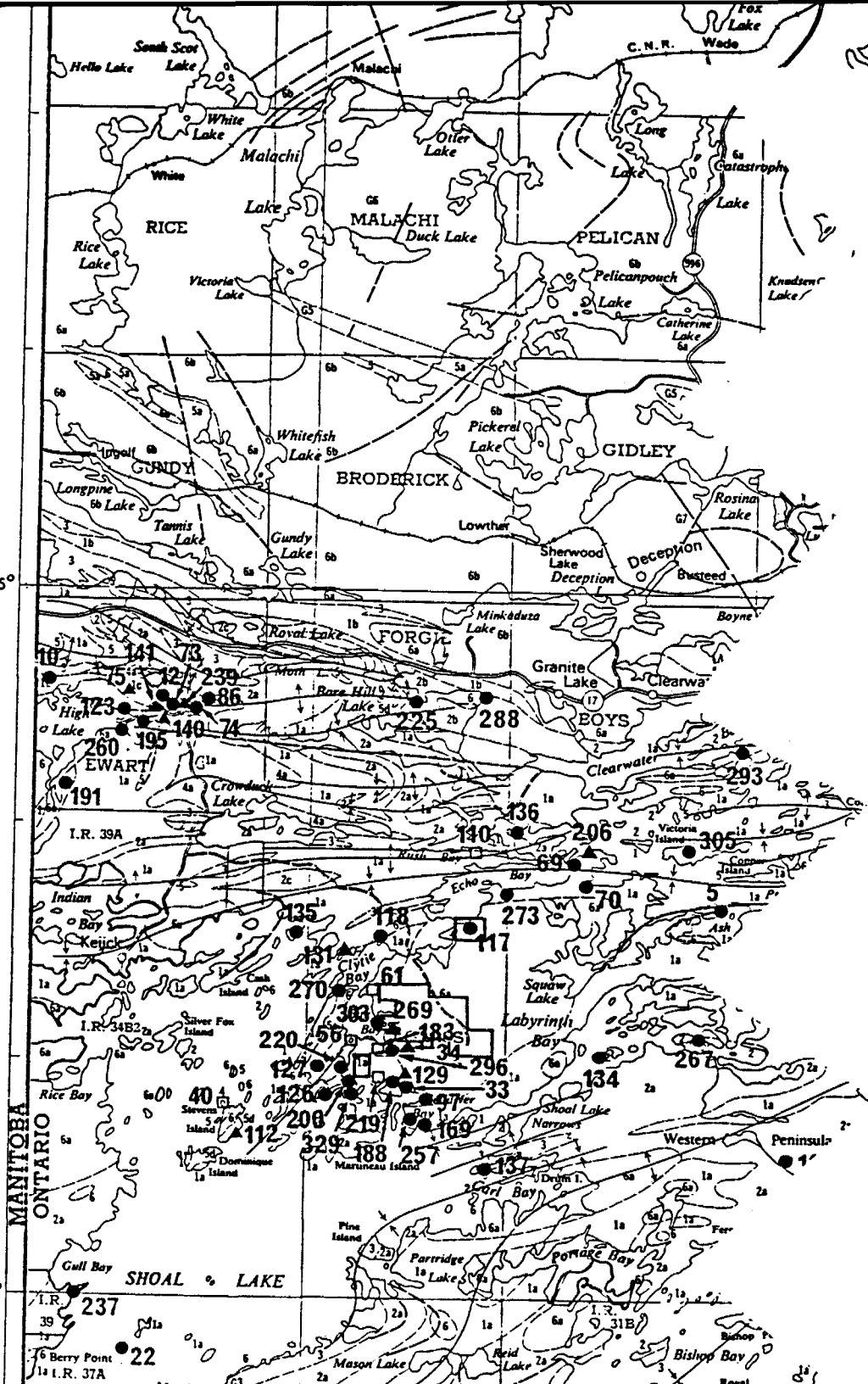
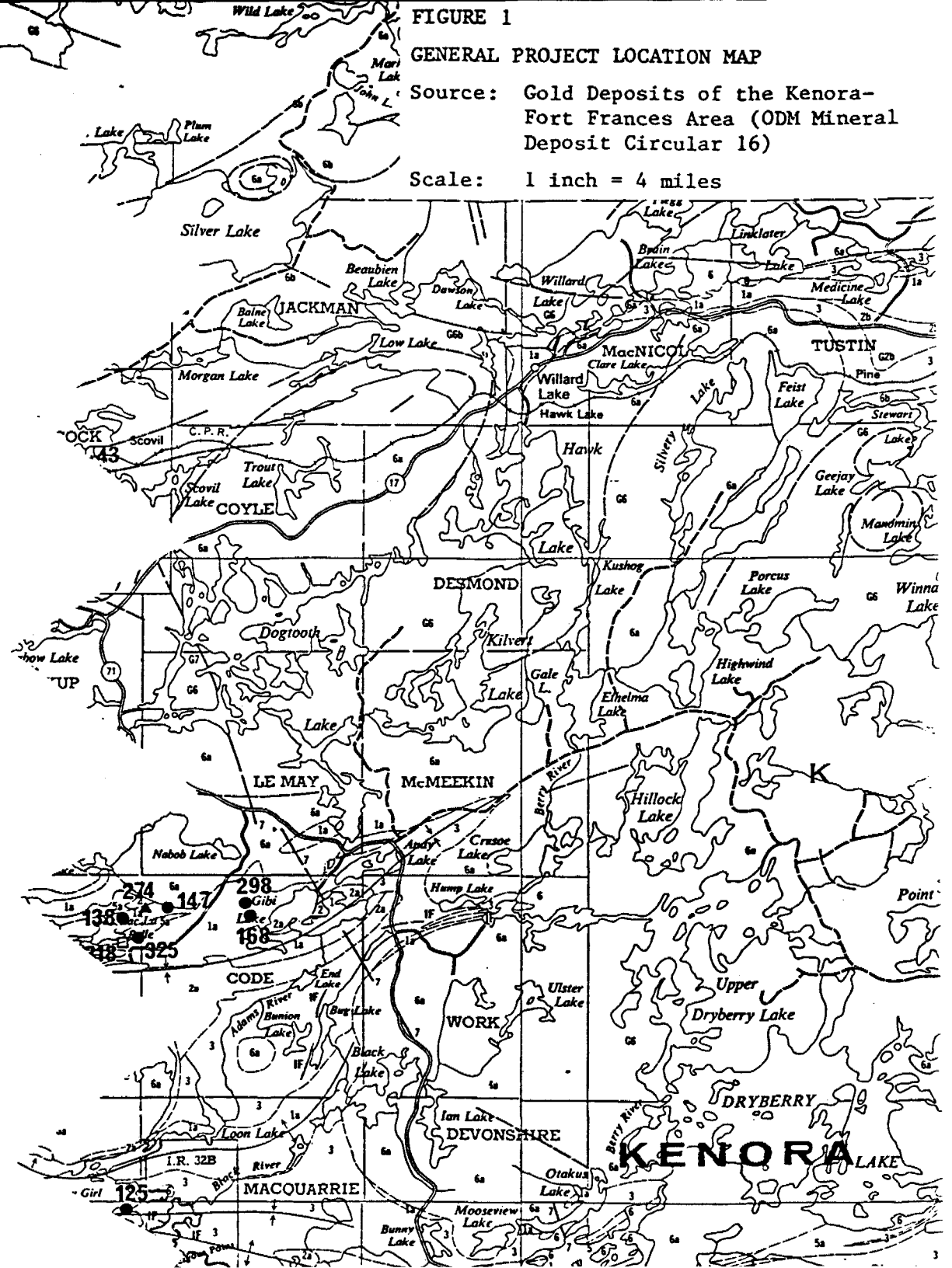


FIGURE 1
GENERAL PROJECT LOCATION MAP

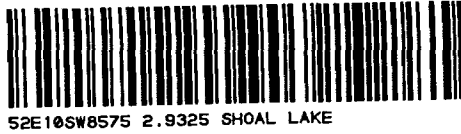
Source: Gold Deposits of the Kenora-Fort Frances Area (ODM Mineral Deposit Circular 16)

Scale: 1 inch = 4 miles



MANITOBA
ONTARIO

KENORA LAKE



900

" 63-86 GR-DNT-5
June 24
ctions: - Please type or print
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

Type of Survey(s) **GEOLOGICAL** Township or Area **SHOAL LAKE**
 Claim Holder(s) **J. E. HANSEN** Prospector's Licence No. **A 45202**
 Address **Box 11385 STN "H" OTTAWA ONT K2H 7V1**
 Survey Company **GEOTEST CORP** Date of Survey (from & to) **25 Day | 6 Mo. | 85 Yr. | 8 Day | 8 Mo. | 85 Yr. | 15** Total Miles of line Cut
 Name and Address of Author (of Geo Technical report)
J. E. HANSEN Box 11385 STN "H" OTTAWA ONT K2H 7V1

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric - Other	
	Geological	20
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic - Magnetometer - Radiometric - Other	
	Geological	
	Geochemical	
Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	- Electromagnetic - Magnetometer - Radiometric	

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
K	710775				
	710776				
	710777				
	710779				
	710780				
	710781				
	710782				
	710783				
	710784				
	710785				
	710786				
	710787				
	710788				
	710789				
	710790				
	842065				
	842066				

KENORA MINING DIV
RECEIVED
MAY 08 1986
AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

RECEIVED
MAY 21 1986
MINING LANDS SECTION

Expenditures (excludes power stripping)
 Type of Work Performed
 Performed on Claim(s)
 Calculation of Expenditure Days Credits
 Total Expenditures \$ ÷ 15 = Total Days Credits
 Instructions
 Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

710775 Total number of mining claims covered by this report of work. **17**

Date **MAY 2 1986** Recorded Holder or Agent (Signature) *[Signature]*

For Office Use Only
 Total Days Cr. Recorded **340** Date Recorded **May 8/86** Mining Recorder *[Signature]*
 Date Approved as Recorded *[Signature]* Branch Director *[Signature]*

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying
J. E. HANSEN Box 11385 STN "H" OTTAWA ON K2H 7V1
 Date Certified **MAY 2 1986** Certified by (Signature) *[Signature]*



In the matter of mining claims:

K 710775 to 77 inclusive
710779 to 90 inclusive
842065-66

in the Area of Shoal Lake.

On consideration of an application from the recorded holder, J.E. Hansen
under Section 77 Subsection 22 of the Mining Act, I hereby order that the time for filing reports and plans in support of
Geological assessment work recorded on May 8, 1986
be extended until and including August 8, 1986.

1986.07.07

Date

Stundt

Signature of Director, Land Management Branch

Copies:

J.E. Hansen
Box 11385, Station "H"
Ottawa, Ontario
K2H 7V1

Mining Recorder
Kenora, Ontario
File: 63-86

July 3, 1986

Report of Work#63

J.E. Hansen
Box 11385
Station "H"
Ottawa, Ontario
K2H 7V1

Dear Sir:

RE: Mining Claims K 710775, et al,
in the Area of Shoal Lake

We have not received the reports and maps (in duplicate)
for the Geological Survey on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the
Mining Recorder on May 8, 1986 the 60 day period
allowed by Section 77 of the Mining Act for the submission
of the technical reports and maps to this office will
expire on July 7, 1986.

If the material is not submitted to this office by July 7,
1986 we will have no alternative but to instruct the Mining
Recorder to delete the work credits from the claim record
sheets.

For further information, please contact Mr. Arthur Barr at
(416)965-4888.

Yours sincerely,

J.C. Smith, Supervisor
Mining Lands Section

Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

AB/mc
cc: Mining Recorder
Kenora, Ontario

Encl

Handwritten note:
Ext. to AUG. 8/86
JW



GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Geology
Township or Area Glass Township G-2642 Shoal Lake
Claim Holder(s) Jens E. Hansen
19 Nesbitt Street, Nepean, Ont. K2H 8C4
Survey Company Taiga Consultants and Geotest Corporation
Author of Report Jens E. Hansen and R.K. Netolitzky
Address of Author 19 Nesbitt Street, Nepean, Ont. K2H 8C4
Covering Dates of Survey May 1984 - September 1985
(linecutting to office)
Total Miles of Line Cut _____

MINING CLAIMS TRAVERSED
List numerically

K	710775
	710776 (prefix) (number)
	710777
	710779
	710780
	710781
	710782
	710783
	710784
	710785
	710786
	710787
	710788
	710789
	710790
	842065
	842066
TOTAL CLAIMS <u>17</u>	

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED	Geophysical	DAYS per claim.
ENTER 40 days (includes line cutting) for first survey.	-Electromagnetic _____	
	-Magnetometer _____	
	-Radiometric _____	
	-Other _____	
ENTER 20 days for each additional survey using same grid.	Geological _____	20
	Geochemical _____	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: August 4, 1986 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys
File No. Type Date Claim Holder

OFFICE USE ONLY

RECEIVED
AUG 11 1986
MINING CLAIMS SECTION

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____
Station interval _____ Line spacing _____
Profile scale _____
Contour interval _____

MAGNETIC

Instrument _____
Accuracy – Scale constant _____
Diurnal correction method _____
Base Station check-in interval (hours) _____
Base Station location and value _____

ELECTROMAGNETIC

Instrument _____
Coil configuration _____
Coil separation _____
Accuracy _____
Method: Fixed transmitter Shoot back In line Parallel line
Frequency _____
(specify V.L.F. station)
Parameters measured _____

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____

Base station value and location _____

Elevation accuracy _____

**INDUCED POLARIZATION
RESISTIVITY**

Instrument _____
Method Time Domain Frequency Domain
Parameters – On time _____ Frequency _____
– Off time _____ Range _____
– Delay time _____
– Integration time _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____
(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____
(specify for each type of survey)

Accuracy _____
(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

Mining Lands Section

File No 2.9325

Control Sheet

TYPE OF SURVEY GEOMORPHOLOGICAL
 GEOLOGICAL
 GEOCHEMICAL
 EXPENDITURE

MINING LANDS COMMENTS:

P. Hurst

Signature of Assessor

Aug 13/80

Date

*lga
W.*

September 5, 1986

Your File: 63-86
Our File: 2.9325

Mining Recorder
Ministry of Northern Development and Mines
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Sir:

RE: Notice of Intent dated August 18, 1986
Geological Survey on Mining Claims K 710775,
et al, in the Shoal Lake Area

The assessment work credits, as listed with the
above-mentioned Notice of Intent, have been approved
as of the above date.

Please inform the recorded holder of these mining
claims and so indicate on your records.

Yours sincerely,

J.C. Smith, Supervisor
Mining Lands Section

Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

SH/mc

cc: J.E. Hansen
Box 11385
Station "H"
Ottawa, Ontario
K2H 7V1

Encl.

bcc: Resident Geologist
Kenora, Ontario

bcc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario



Recorded Holder
J. E. HANSEN

Township or Area
SHOAL LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column	
Geological <u>20</u> days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	K 710775-76-77-79 710780-81-82 710785 to 790 inclusive

Special credits under section 77 (16) for the following mining claims

<u>5 DAYS</u>	<u>10 DAYS</u>	<u>15 DAYS</u>
K 710783	K 842065	K 710784

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

K 842066

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Ontario

Sept 2/86

Ministry of
Northern Development
and Mines

August 18, 1986

Your File: 63-86
Our File: 2.9325

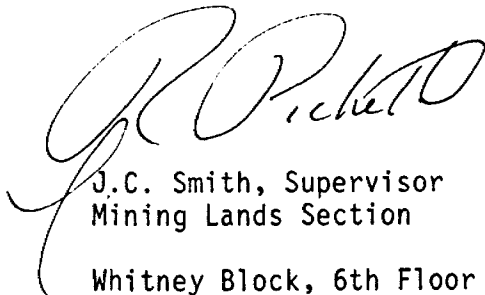
Mining Recorder
Ministry of Northern Development and Mines
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.


For further information, if required, please contact Mr. R.J. Pichette at (416) 965-4888.

Yours sincerely,



J.C. Smith, Supervisor
Mining Lands Section

Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3

 SH/mc
Encl.

cc: J.E. Hansen
Box 11385
Station "H"
Ottawa, Ontario
K2H 7V1

Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario



Ontario

Ministry of
Northern Development
and Mines

Notice of Intent
for Technical Reports

August 18, 1986

2.9325/63-85

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on the record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands' Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted directly to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

2. 2. 2005

✓				✓					
✓				✓					
✓				✓					
✓				58	✓				
✓				89	✓				
✓				90	✓				
✓				940.065	1/2				
3/4				66	NC				

Ⓟ

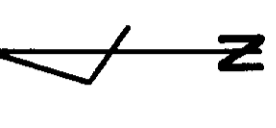
813386
SIN. - SUCC "H"
7 VIII 1986
OTTAWA
ON

REGISTRATION-REGISTRATION
E.T.S. TORONTO S.L.P.
AUG 11 1986
MM-310

LEGEND

- quartz vein
- S-110 sps Au - rock sample with gold, disseminated throughout the pit
- claim post
- claim line
- excavation
- trench
- shaft or pit
- outcrop area

- (A) Granodiorite: medium-grained, massive, porphyritic, weakly foliated, pink to light grey, qtz phenocrysts.
- (B) Quartz Diorite: fine grained, massive, porphyritic, greenish grey, qtz phenocrysts up to 4 mm in diameter, light grey to greyish brown.
- (C) Apatite dykes: fine grained, light pinkish brown, qtz phenocrysts, ds. pink, chilled margins.



- CLAIM POST — LOCATION OBSERVED
- CLAIM POST — LOCATION INFERRED
- CLAIM LINE
- BUSH ROADS

FOR PROPERTY LOCATION SEE REPORT

**NORTHERN ABITIBI
GOLDEN RULE
ONTARIO JOINT VENTURE**

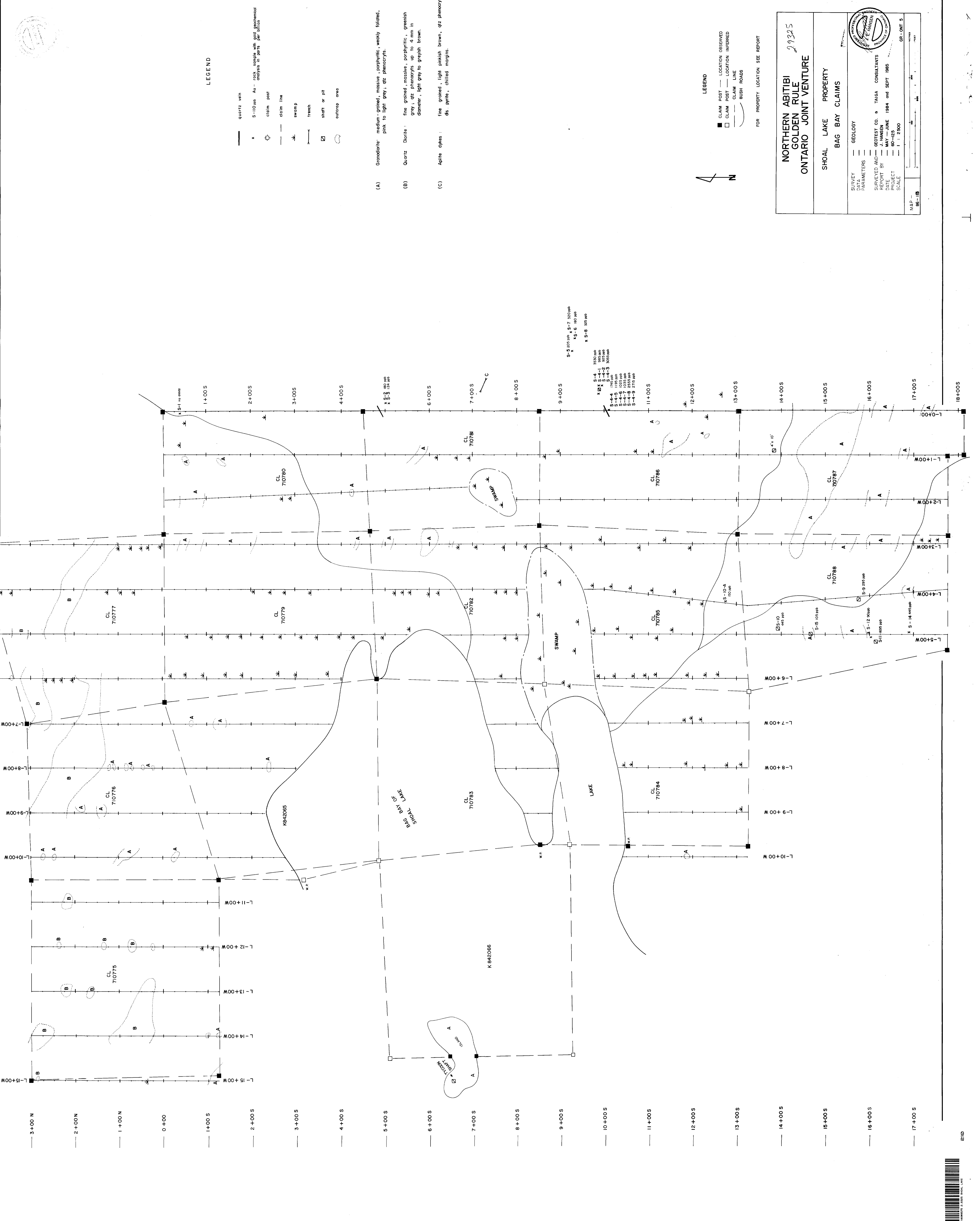
SHOAL LAKE PROPERTY
BAG BAY CLAIMS

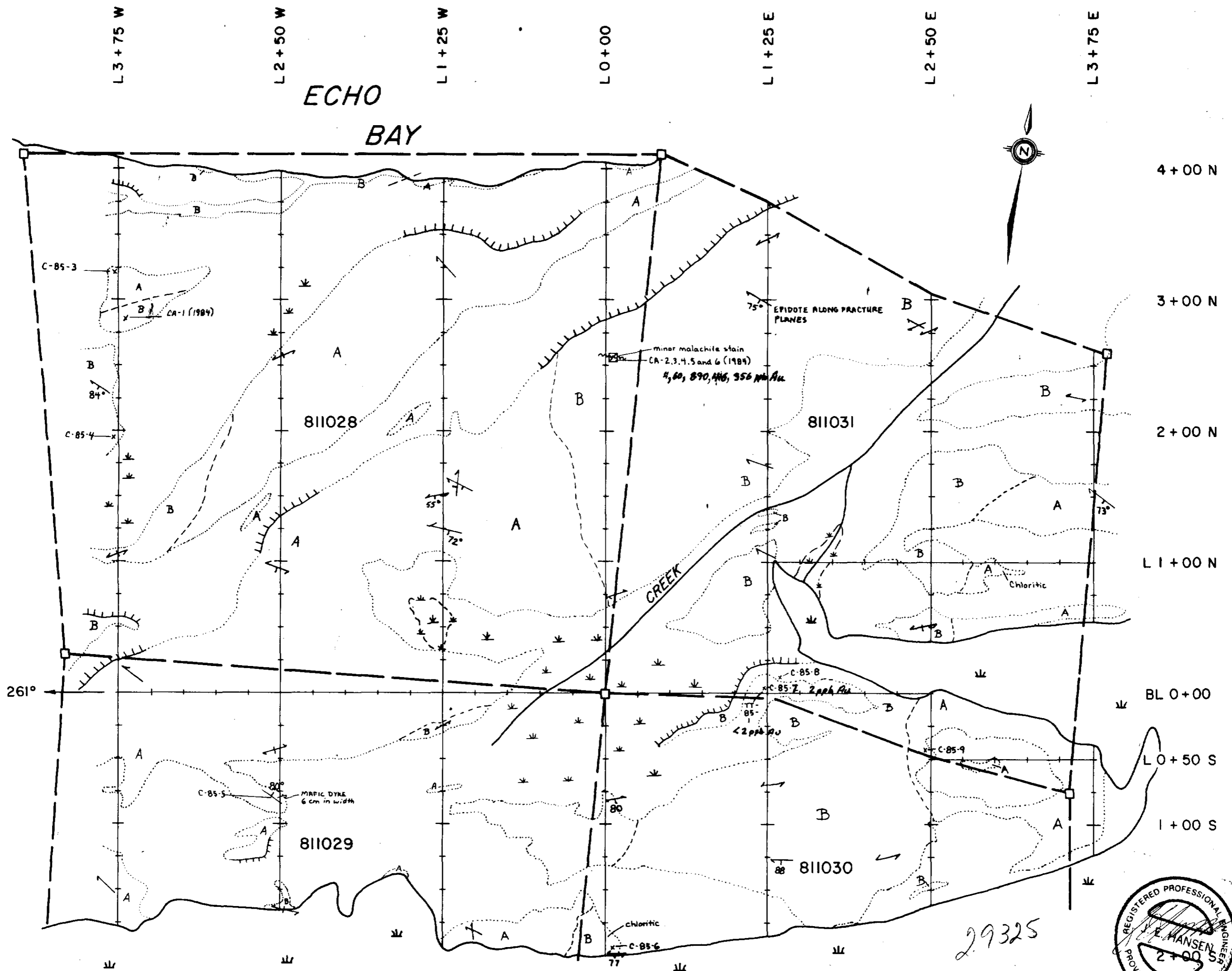
GEOLOGY

SURVEYED AND REPORTED BY: GEOTECH CO. & TAIGA CONSULTANTS
J. HANSEN
JUNE 1984 and SEPT 1985

PROJECT: 80-125
SCALE: 1 : 2500

MAP: 85-1B
GR-DIT 5





LEGEND

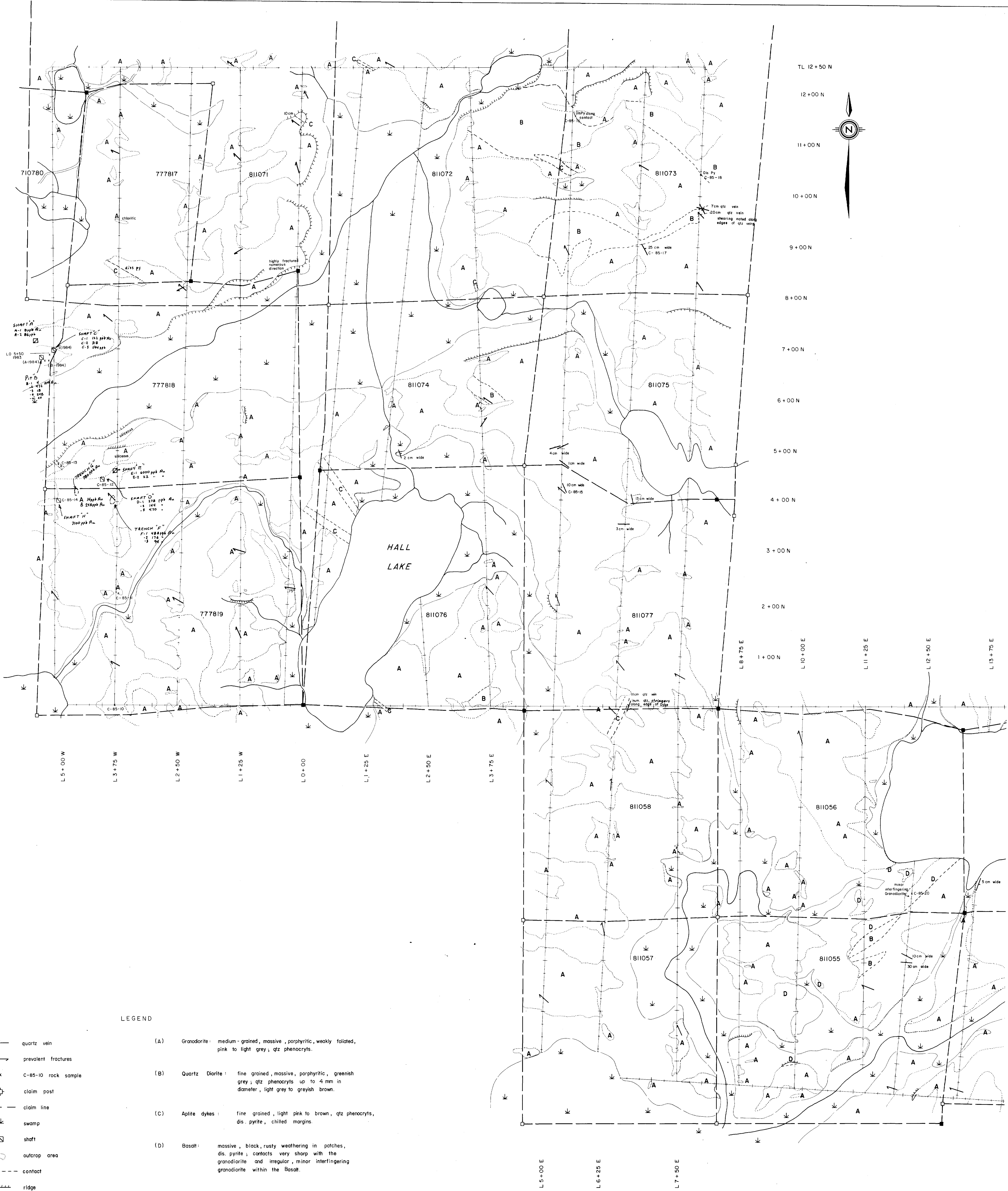
- quartz vein
- foliation
- shear zone
- prevalent fractures
- x-c-85-3 rock sample site
- ⊕ claim post
- claim line
- ⊠ shaft
- ⌞ swamp
- ⬤ outcrop area
- - - contact
- ridge

- A Granodiorite: medium-grained, massive, porphyritic, weakly foliated, prevalent fractures @ 110°; qtz phenos pink to lt. grey.
- B Quartz Diorite: fine-grained, massive, porphyritic, greenish grey; qtz phenos up to 4 mm in diameter, lt. grey to greyish brown.

2 ppb Geochemical analysis for gold

NOTE: Compiled and interpreted by Geotest Corp.

GOLDEN RULE RESOURCES LTD.	
ECHO BAY PROPERTY MINING CLAIMS 811028-811031 ECHO BAY & BOYS TOWNSHIP SHOAL LAKE, ONTARIO GEOLOGY MAP	
DATE JULY 1985	NTS 52 E/10
PROJECT GR-ONT-5	MAPPED/ DRAWN BY C. AUSSANT
SCALE 1:2500	0 50 100 METRES
TAIGA CONSULTANTS LTD	MAP 85-1B



TL 12+50 N

12+00 N

11+00 N

10+00 N

9+00 N

8+00 N

7+00 N

6+00 N

5+00 N

4+00 N

3+00 N

2+00 N

1+00 N

L.8+75 E

L.10+00 E

L.11+25 E

L.12+50 E

L.13+75 E



LEGEND

- quartz vein
- prevalent fractures
- x C-85-10 rock sample
- ⊙ claim post
- claim line
- ⬇ swamp
- ⊠ shaft
- outcrop area
- - - contact
- ||||| ridge

- (A) Granodiorite: medium-grained, massive, porphyritic, weakly foliated, pink to light grey; qtz phenocrysts.
- (B) Quartz Diorite: fine grained, massive, porphyritic, greenish grey; qtz phenocrysts up to 4 mm in diameter, light grey to greyish brown.
- (C) Aplite dykes: fine grained, light pink to brown, qtz phenocrysts, dis. pyrite, chilled margins.
- (D) Basalt: massive, black, rusty weathering in patches, dis. pyrite; contacts very sharp with the granodiorite and irregular, minor interfingering granodiorite within the Basalt.

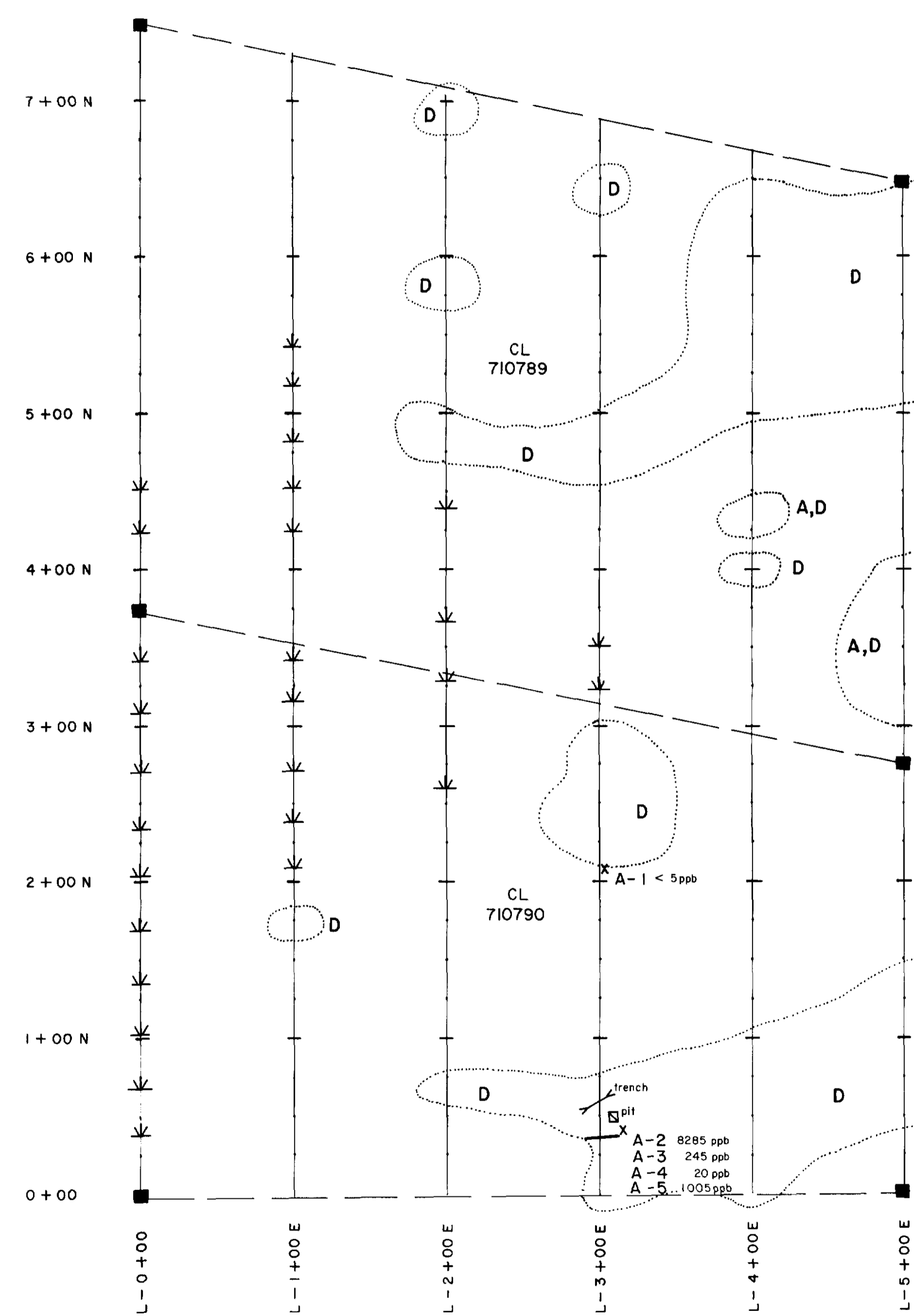
NOTE: Compiled and Interpreted by Geotest Corp.

LEGEND

- quartz vein
- ⊕ claim post
- claim line
- ↘ swamp
- trench
- shaft or pit
- outcrop area

S 110 100ppb Au - rock sample with gold geochemical analysis in parts per billion

- (A) Granodiorite: medium-grained, massive, porphyritic, weakly foliated, pink to light grey; qtz phenocrysts.
- (D) Basalt: massive, black, rusty weathering in patches, dis. pyrite; contacts very sharp with the granodiorite and irregular, minor interfingering granodiorite within the Basalt.



LEGEND

- CLAIM POST
 - CLAIM LINE
- FOR PROPERTY LOCATION SEE REPORT

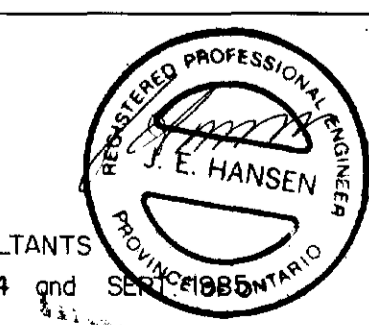
29325

NORTHERN ABITIBI
GOLDEN RULE
ONTARIO JOINT VENTURE

SHOAL LAKE PROPERTY
HELLDIVER BAY CLAIMS

SURVEY — GEOLOGY
DATA —
PARAMETERS —

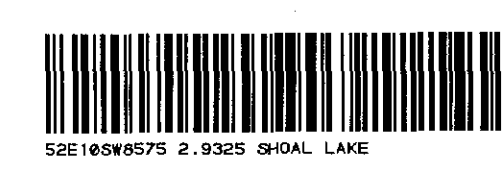
SURVEYED AND — GEOTEST CO. —
REPORT BY — TAIGA CONSULTANTS
DATE — MAY — JUNE 1984 and SEP 1985
PROJECT — 60-125
SCALE — 1 : 2500



86-1A



GR-ONT 5





TL 12+50 N

12+00 N

11+00 N

10+00 N

9+00 N

8+00 N

7+00 N

6+00 N

5+00 N

4+00 N

3+00 N

2+00 N

1+00 N

L 10+00 E

L 11+25 E

L 12+50 E

L 13+75 E

L 15+00 E

L 16+25 E

L 18+75 E

L 5+00 E

L 6+25 E

L 7+50 E

BASELINE - 90°

1+00 S

2+00 S

3+00 S

4+00 S

5+00 S

6+00 S

7+00 S

TL 7+75 S

NOTE: Compiled and interpreted
by Geotest Corp.

GOLDEN RULE RESOURCES LTD.	
MINING CLAIMS 777817-777819, 811071-811077, 811053-811058	
SHOAL LAKE PROPERTY GLASS TWP. SHOAL LAKE, ONTARIO	
GEOLOGY	
DATE JULY 1985	NTS 52 E/10
PROJECT GR-ONT-5	MAPPED DRAWN BY C. AUSSANT
SCALE 1:2500	
FAGA CONSULTANTS LTD.	MAP 85-1A

