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MAR 3 1975

PROJECTS UNIT.

LORMAC EXPLORATIONS LIMITED
SUITE 1609, 44 VICTORIA STREET
TORONTO, ONTARIO

DETAILED GEOCHEMICAL SURVEY
OF FOUR CLAIMS OF THE TECK TOWNSHIP PROPERTY
KIRKLAND LAKE, ONTARIO

BY
MICHAEL OGDEN, B.A.Sc., P.Eng.
TORONTO, ONTARIO

FEBRUARY 27, 1975

H. B. & O. ENGINEERING LIMITED

INTRODUCTION

The original report to the company by Dr. R. B. Graham, a year ago, recommended a geochemical survey. Its implementation has been delayed somewhat by test work to ascertain the most suitable method and by the conduct of a geological survey of the whole property.

REFERENCES

Graham, R.B.; Lormac Explorations Limited, April 19, 1974

Ogden, Michael; Geological Survey of the Teck Township Property,
December 12, 1974.

PROPERTY, LOCATION AND ACCESS

The block of 8 contiguous claims numbered L373162 to L373169, inclusive, lies just north of the old Temiskaming and Northern Ontario tracks (O.N.R.) about half a mile northwest of the west edge of the Town of Kirkland Lake. Access is provided by the old Goldthorpe Road to a power line which is a quarter of a mile beyond the Macassa Mill. The power line is followed to the north for 2,000 feet, to the property. An east-west base line extends along the south boundary of the property, with the 800 west picket being in the middle of the power line right-of-way.

GEOLOGY

The oldest rocks on the property are probably the medium to basic fine-grained volcanics found only in the northwest corner and mapped as Keewatin greenstones.

The north half of the property is underlain by a great mass of medium to coarse grain, almost black, even textured gabbro which has some finer grain dioritic phases along contact areas. Some serpentinization has occurred in the northeast corner.

Along the south edge of the property a mass of porphyritic basic syenite extends into the claim block for 200 to 400 feet. This is a dark red rock with considerable augite and distinctive fingernail size phenocryst of feldspar. Another phase of it, found only in the southeast claim is even darker with more augite and is an even textured, medium grain, basic syenite.

Lying between the gabbro to the north and the syenite on the south boundary, there is a series of Timiskaming sediments. Fist-sized cobbled conglomerate is the predominant rock extending through the centre of the gap between the two intrusive masses. There are minor amounts of tuff on both the north and south contact of the sedimentary series. The old shaft, at 400 north and 175 feet west, is in sheared tuff with a little disseminated pyrite. The shearing is parallel to the common trend at about 60° true with a steep dip to the south.

HISTORY

The present property of 8 claims was the north part of 14 claims put together from various people to form the Casakirk Gold Mine Limited in 1936. The shaft had been sunk to 127 feet before that.

A crosscut was driven north on the 3,000-foot level of Macassa in 1940. It got to within 600 feet of the south boundary from where a 1500-foot long flat hole was continued on into the claim block. A small quartz vein was encountered about 50 feet north of the boundary but no assays are available.

Another drill hole probed the contact area from 2500 feet west and 50 feet south. It returned 0.07 ounces of gold and 1.45 ounces of silver from a broken 2-foot section of quartz-carbonate, amongst a 7-foot section of badly broken rock and lost core near the contact between syenite and tuffs.

A geological survey was done last fall by the writer.

FAULTING

The North Break or Narrows Break Fault of Kirkland Lake can be extrapolated to extend across the property, along or near the syenite sediment contact. The above drill hole tends to confirm that concept for it shows that the contact area sometimes has fair gold values.

MINERALIZATION

No gold mineralization is known to the writer to be exposed at surface. The best assays are from the drill hole at half a mile west in the property, at about 200 feet north of the south boundary where 0.07 ounces of gold per ton and 1.45 ounces of silver were found at a depth of 200 feet.

Some minor pyrite mineralization can be seen near the shaft but the best assay of four samples was forty parts per billion or 0.012 ounces per ton.

THE CASAKIRK DIAMOND DRILL HOLE

Located at 2500 feet west or thereabouts and 50 feet south.

Drilled with a dip of 40° toward N 25° W, the dip at 550 feet being 37° .

It was drilled to 550 feet from 14 to 21 June, 1941.

-
- 0 - 5 ft. Casing
 - 5 - 234 " Syenite porphyry
 - 97½ feet = 1 inch of 0.01 oz. Au.
 - 118 " = 6 inch quartz stringer 0.02 Au.
 - 127¼ " = 3 inch quartz/carbonate 0.03 Au. and 0.65 Ag.
 - 143½ " = 7 inch quartz/carbonate 0.01 Au.

- 234 - 322 ft. Tuff with varying amounts of carbonate stringers
311-318½ feet mostly ground core over 7½ feet
311-312 " ground core
312-316 " ground core
316-317 " 50% quartz/carbonate, 0.07 oz. Au., 1.45 oz. Ag.
317-318½ " ground core
- 322 - 345 " Greywacke with jasper pebbles
- 345 - 350 " Conglomerate
- 350 - 375 " Greywacke
365½ feet quartz/carbonate veins and sulphides over 6 inches =
0.04 Au., 0.8 Ag.
- 375 - 550 " Conglomerate with various carbonate slips
449-450 feet ground core
- 550 " End of hole.

THE GEOCHEMICAL SURVEY

The initial test work for the survey was done last September when a series of soil samples of both the A and B horizon were collected at 20-foot intervals in the vicinity of the old shaft near the east boundary. The samples were collected from two north-south lines, one 50 feet west of the shaft and the other 50 feet east of it. Other samples were taken at wider intervals towards the base line to give some idea of normal background.

Silver by hydrochloric acid leach was seldom detected (i.e. less than 0.2 p.p.m.). Molybdenum by similar leach was very low (1 or 2 p.p.m.) and lead was erratic (3 to 59 p.p.m.).

Total mercury in the A horizon seemed to work with values of 100 p.p.b. or better, near the shaft, rather than 1 to 4 p.p.b., with the odd 50 elsewhere. Similarly, the B horizon mercury seemed to work.

Hence, the survey was done by taking the humus or "A" horizon at 50-foot intervals on lines 200 feet apart.

A further check was done during the survey, over a little gold vein on an outcrop 600 feet south of the highway, on the township line between McVittie and Gauthier, a couple of miles short of Larder Lake (i.e. 20 miles east of the property). Both A and B horizons were collected at 20-foot intervals to both the south and north of the vein for 100 feet, then at 50-foot intervals to 500 feet away. The "B" horizon results vary between 20 and 80 p.p.b. mercury, with no consistent trend. The "A" horizon varies between 90 and 350 p.p.b. mercury, with a tendency to be higher near the base of hills or in swamp.

The usefulness of a mercury concentration in the humus is thus in doubt.

However, the survey was completed before the results of the little gold vein test were available.

Samples were taken of the leafy humus, or A horizon, at 50-foot intervals along each line from 2 to 44 west, i.e. 22 lines.

They were shipped to Barringer Research Limited of Rexdale, where they were allowed to air dry, and were then analyzed for total mercury in parts per billion.

Although most of the target area was well tested in this manner, unfortunately, some six lines of samples were lost at Barringer.

The original intention had been to test for gold content also, in parts per billion, using X-Ray Assay Laboratories' facilities. The problem here was that insufficient sample was left for a good gold analysis.

However, some results were obtained.

SURVEY RESULTS

The accompanying map "Geochemical Survey" on a scale of 100 feet to the inch displays the results in detail.

A mercury anomaly exists from line 18W or 20W to 28W, some 900 feet, for it is indicated by two high values on line 18W, six on line 20W at 300 to 600 north, two on line 22W, only one on lines 24 and 26 at 350 to 400 north which casts some doubt, and by two or four more high results from 300 to 550 north on line 28W.

There is some apparent correlation between spruce swamp and anomalous results in the east half of this zone but it is not consistent toward the west.

However, the fascinating aspect of this anomaly is that it lies parallel to the syenite-sediment contact 150 feet north of where that contact zone has been intersected in a drill hole with gold values at 200 feet below the surface. This would give the zone a south dip of 50° to 60° .

The general level of the mercury results increases to the west and diminishes to the east, but no other clearcut anomalous zones seem apparent.

CONCLUSIONS

1. There is a good correlation between the fair gold assay in the old drill hole and the geochemical anomaly.
2. The assay of 0.07 ounces of gold per ton, or about \$13 per ton, was obtained from a 7½-foot zone of badly broken rock and much lost core in the drill hole. Therefore, it may not be an accurate measure of the true amount of gold in this zone if all of the zone were to be properly sampled.
3. The mineralized zone should be redrilled in at least two places, resampled, and all the sludge retained as a check on the lost core.
4. To do this, the near surface location of the mineralized zone should be located. It may be a fault and an EM survey might pick it up, or detailed geochemistry.

RECOMMENDATIONS

1. Find the collar of the old drill hole.
2. Check survey the vicinity of the apparent fault zone by EM-16 or vertical loop to try to detail its trace on the surface. If this fails, do a detail geochemical survey at 33-foot intervals from 20W to 28W to try to delimit the zone with accuracy.
3. Test drill the zone with 2 or 3 short holes of about 150 feet in length. Be careful to retain sludge in areas of poor drilling.

COST ESTIMATES

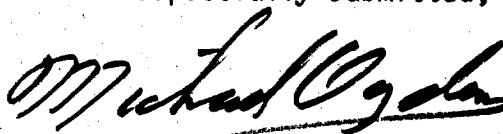
Check surveys and hole location would take a week or two at cost of \$1500 to \$3000.

The drilling and supervision of three holes of about 150 feet in length for a total of 500 feet would take about three weeks at an overall

cost of \$11,000. This would break down into:

Drilling of 500 feet -	\$5,000
Mobilization and demobilization -	2,000
Cementing -	1,000
Engineering and assaying -	3,000

Respectfully submitted,



Michael Ogden

Toronto, Ontario

February 27, 1975

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

RECEIVED
by hand
MMR 3-1975

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.

PROJECTS UNIT

Type of Survey GEOCHEMICAL
Township or Area TECK TOWNSHIP
Claim holder(s) LORMAC EXPLORATIONS LTD
Author of Report MICHAEL OGDEN
Address RR-4 STOUFFVILLE, ONT.
Covering Dates of Survey SEPT 15/74 to FEB 28/75
(linecutting to office)
Total Miles of Line cut 5.7

MINING CLAIMS TRAVERSED	
List numerically	
L -	373162 4/3 NC
	(prefix) (number)
L -	373163 /
L -	373164 1/4 NC
L -	373165 3/4
Area of claims not covered = 1 2/3	
40 x 4 = 160 ÷ (4+1) = 32	
TOTAL CLAIMS <u>4</u>	

SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical
ENTER 20 days for each additional survey using same grid.	-Electromagnetic _____
	-Magnetometer _____
	-Radiometric _____
	-Other _____
	Geological <u>32 days</u>
	Geochemical <u>40 dn</u>

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)
DATE: FEB 28/75 SIGNATURE: Michael Ogden
Author of Report or Agent

PROJECTS SECTION
Res. Geol. _____ Qualifications 63A.383
Previous Surveys 2.1669 geological received
No linecutting credits
Checked by _____ date _____
GEOLOGICAL BRANCH _____
Approved by _____ date _____
GEOLOGICAL BRANCH _____
Approved by _____ date _____

OFFICE USE ONLY

If space insufficient, attach list

Show instrument technical data in each space for
type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations _____ Number of Readings _____

Station interval _____

Line spacing _____

Profile scale or Contour intervals _____
(specify for each type of survey)

MAGNETIC

Instrument _____

Accuracy - Scale constant _____

Diurnal correction method _____

Base station location _____

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 _____

Time domain _____ Frequency domain _____

Frequency _____ Range _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken L-373162, -163, -164, & 165

Total Number of Samples 538
Type of Sample HUMUS
(Nature of Material)
Average Sample Weight 6 oz
Method of Collection BY HAND

Soil Horizon Sampled A
Horizon Development GOOD
Sample Depth SURFACE
Terrain MIXED SPRUCE SWAMP & HIGH GROUND
Drainage Development POOR
Estimated Range of Overburden Thickness 0 TO 50 FT.

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis 180
AIR DRY

General _____

ANALYTICAL METHODS

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

Cu, (Pb) Zn, Ni, Co, (Ag), (Mo) As, -(circle)
Others Hg. Au.

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

~~Field~~ Laboratory Analysis COM. X RAY ASSAY

No. (PPB 12 Au tests)

Extraction Method USUAL

Analytical Method _____

Reagents Used _____

Commercial Laboratory (410 tests)

Name of Laboratory BARRINGER PHS.

Extraction Method TOTAL Hg & Ag

Analytical Method HCl Acid Pb & Mo

Reagents Used _____

General _____

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 _____



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PROJECTS UNIT

LORMAC EXPLORATIONS LIMITED
SUITE 1609, 44 VICTORIA STREET
TORONTO, ONTARIO

GEOLOGICAL SURVEY
OF THE TECK TOWNSHIP PROPERTY
KIRKLAND LAKE, ONTARIO

BY

MICHAEL OGDEN, B.A.Sc., P.Eng.

DECEMBER 12, 1974

INTRODUCTION

The geological survey was started to compliment and help interpret a detail geochemical survey being conducted over the southern half of the property. Once underway, it was considered wise to complete the work, at lesser line interval, over the whole property. Thus fresh data as to the nature and distribution of rock types has been obtained plus an idea of the amount of trenching and prospecting that has been done on the ground over the years.

The field geological observations were made by Michael Ogden and Dr. R. Bruce Graham during the period September 21 to 23 and by Michael Ogden during October 23 to 26.

PROPERTY, LOCATION AND ACCESS

The block of 8 contiguous claims numbered L373162 to L373169, inclusive, lies just north of the old Temiskaming and Northern Ontario tracks (O.N.R.), about half a mile northwest of the west edge of the Town of Kirkland Lake. Access is provided by the old Goldthorpe Road to a power line which is a quarter of a mile beyond the Macassa Mill. Then walk north on the power line for 2,000 feet to the property. An east-west base line extends along the south boundary of the property, with the 8W picket in the middle of the power line right-of-way.

GEOLOGY

The base map and nomenclature for the survey have been taken directly from O.D.M. Map 1945-1, a compilation map by James Thomson in 1945, based on work by himself and others. This, an excellent map for a reconnaissance survey, even shows the old claims, which have been moved a bit by subsequent restakings.

The new survey is thus similar to the old, but with more outcrop detail, and the favourable fault contact zone between the syenite and the sediments has been mapped in detail along the southern portion of the property.

The oldest rocks on the property are probably the medium to basic fine-grained volcanics found only in the northern corner and mapped as Keewatin greenstones.

The series of intrusive rocks are believed to be Algoman, the north half of the property, being underlain by a great mass of medium to coarse grain, almost black, even textured gabbro which has some finer grain dioritic phases along some contact areas. Some serpentinization has occurred in the northeast corner.

Along the south edge of the property a mass of porphyritic basic syenite extends into the claim block for 200 to 400 feet. This is a dark red rock with considerable augite and distinctive fingernail size phenocryst of feldspar. Another phase of it, found only in the southeast claim is even darker with more augite and is an even textured, medium grain, basic syenite.

Lying between the gabbro to the north and the syenite on the south boundary, there is a series of Timiskaming sediments. Fist-sized cobbled conglomerate is the predominant rock extending through the centre of the gap between the two intrusive masses. There are minor amounts of tuff on both the north and south contact of the sedimentary series. The old shaft, at about 400 north and 150 feet west, is in sheared tuff with a little disseminated pyrite. The shearing is parallel to the common trend at about 60° true with steep dip to the south.

There is an interesting outcrop of flat lying limey sandstone a couple of hundred feet north of the property, on the power line right-of-way. It is composed of book thick beds of grey and yellow sediments with one rusty brown coloured band. It resembles a Paleozoic sediment.

HISTORY

The present property of 8 claims was the north part of 14 claims put together from various people to form the Casakirk Gold Mine Limited in 1936. The shaft had been sunk to 127 feet before that.

A crosscut was driven north on the 3,000-foot level of Macassa in 1940. It got to within 600 feet of the south boundary from where a 1500-foot long flat hole was continued on into the claim block. A small quartz vein was encountered about 50 feet north of the boundary but no assays are available.

Another drill hole probed the contact area from 2500 feet west and 50 feet south. It returned 0.07 ounces of gold and 1.45 ounces of silver from a broken 2-foot section of quartz-carbonate, amongst a 7-foot section of badly broken rock and lost core at the contact between syenite and tuffs.

Nothing else seems to have been done until now.

FAULTING

The North Break or Narrows Break fault of Kirkland Lake can be extrapolated to extend across the property, along the syenite/sediment contact. The above drill hole tends to confirm that concept or at least it shows that the contact area sometimes has fair gold values.

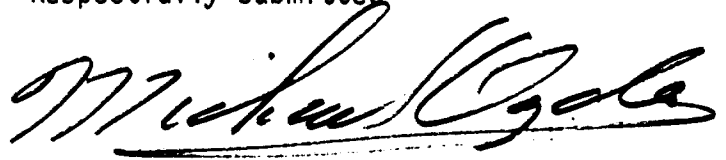
MINERALIZATION

No gold mineralization is known to the writer to be exposed at surface. The best assays are from the drill hole at half a mile west in the property, at about 200 feet north of the south boundary where 0.07 ounces of gold per

ton were found in a two-foot section of broken quartz-carbonate vein; 1.45 ounces of silver was also found here at the vertical depth of about 200 feet.

Some minor pyrite mineralization can be seen near the shaft but the best assay of four samples was 40 parts per billion or 0.0012 ounces per ton.

Respectfully submitted



Michael Ogden, B.A.Sc., P.Eng.

December 12, 1974

ASSESSMENT WORK	
Rec'd from	<i>Leg. Assistant</i>
	<i>Leg. Assistant</i>
Date	<i>Jan 26/75</i>
	<i>[Signature]</i>
	Registered Geologist

Lick Trip

1974

LORMAC E)



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(Incorporated under the laws of Ontario)

1609 - 44 Victoria Street, Toronto

Underwriter-Optionee

Marchmont & Mackay Limited,
330 Bay Street,
Toronto.

Registrar and Transfer Agent

Guaranty Trust Company of Canada,
88 University Avenue,
Toronto.

NEW ISSUE

<u>Number of Shares</u>	<u>Price per share</u>	<u>Net amount to Corporation</u>	<u>Maximum offering price to public</u>
200,000 shares underwritten	17½¢	\$ 35,000.00	35¢ per share
100,000 shares optioned	22½¢	\$ 22,500.00	45¢ per share
100,000 shares optioned	27½¢	\$ 27,500.00	55¢ per share

The underwritten and optioned shares hereby offered, will be offered to the public in the Province of Ontario by the Underwriter-optionee, a registered security dealer, as principal. There is no obligation on the part of the Underwriter-optionee to purchase all or any of the optioned shares.

These shares will be offered to the public at such prices as may from time to time be determined by the Underwriter-optionee subject to the maximum offering prices as above stated.

The Underwriter-optionee may be said to realize a gross profit on the sale of any shares sold equal to the difference between the price paid to the treasury of the corporation and the sale price to the public.

PURPOSE OF OFFERING

The purpose of this offering is to provide funds to finance an exploration program recommended by the consulting engineer as set forth under the heading "Mining Property", together with general administrative and operating expenses from time to time. Further reference is also made to the heading "Use of Proceeds" in this Prospectus.

SECONDARY OFFERING

A total of 75,000 additional shares, the proceeds of which will accrue solely to the offering shareholder, will be offered for sale to the public following the distribution of all underwritten and optioned shares, particulars of which are set forth under the heading "Secondary Offering" in this Prospectus.

THERE IS NO MARKET FOR SHARES OF THE CORPORATION AND THE SECURITIES HEREBY OFFERED ARE SPECULATIVE.

NO SECURITIES COMMISSION OR SIMILAR AUTHORITY IN CANADA HAS IN ANY WAY PASSED UPON THE MERITS OF THE SECURITIES HEREBY OFFERED, AND ANY REPRESENTATION TO THE CONTRARY IS AN OFFENCE.

Prospectus dated this 15th day of July, 1974.



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HISTORY AND BUSINESS

Lormac Explorations Limited (hereinafter for convenience referred to as "Lormac" or "the Corporation") was incorporated under the laws of Ontario by Articles of Incorporation for which Certificate of Incorporation was issued on January 25th, 1974. The head office is located at Suite 1609, 44 Victoria Street, Toronto, Ontario, and the principal objects of the Corporation are to engage in all phases of the exploration and development of mining properties. The Corporation has not carried on work on any properties to date.

MINING PROPERTY *Npt offering Casobik*

By Agreement in writing dated April 19th, 1974 Lormac has acquired from Marchmont & Mackay Limited (see also headings "Offering" and "promoter") eight Mining Claims located in the Township of Teck in the Kirkland Lake area and recorded in the Office of the Mining Recorder for Larder Lake Mining Division as numbers ~~1373162-9~~ in-1373162-9 inclusive. The total consideration paid was the allotment and issue of 750,000 fully paid shares in the capital stock of the Corporation, all of which is to be received by the said Vendor, subject to an existing royalty of 5% of the net sales price (as defined) of all ore removed from the property in favour of Michael Ogden, Trustee, R. R. 4 Stouffville, Ontario. The Claims are in good standing under extension to November 3th, 1974.

Location and Access

The property comprises approximately 327 acres two and one-half miles west of the Town of Kirkland Lake and about one-half mile north of Macassa Mine, the nearest producing mine. The Ontario Northland Railway crosses the south-east corner of the group and two good roads pass nearby. In addition, a hydro transmission line crosses the property and a small creek flows through the south-western section of the Claims.

History

The Kirkland Lake area has been known for gold since 1911 and many producing mines have been in the immediate area over the years. In 1936 an exploratory shaft was sunk on the property to a depth of about 127' but no reports are available for any work which may have been performed as a result. In 1940 Macassa Mines Ltd. in conjunction with Hollinger Consolidated Gold Mines Limited drove a crosscut north from the Macassa property at the 3,000 foot level and a hole was drilled from the end of the crosscut 720' into the Claim group. A narrow quartz vein was intersected about 50' north of the south boundary of our property but assay results are not known. Outcrop areas are relatively plentiful, comprising about thirty per cent (30%) of the terrain. There are no present mining facilities on the property at the present time other than the shaft referred to.

Summary

A Report has been prepared for the Corporation by Dr. R. Bruce Graham, Ph.D.P. Eng. dated June 10th, 1974 which is available for inspection in the public offices of the Ontario Securities Commission in Toronto upon which Report the Corporation has relied for the information therein, and from which the following summary has been prepared:

There is surface and underground evidence that a fault zone occurs in sediments along the north contact of the syenite intrusive in the southern part of the Property. A vein on the property intersected in a hole drilled from a crosscut on the 3,000 foot horizon of the Macassa Mine is approximately on strike with the Narrows break which is a gold bearing structure on the Lake Shore and Teck Hughes Properties a mile to the east. This structure is projected to merge with the fault zone about 1,000' west of the east boundary of the property. The fault zone from here west through the southern part of the Claim group is regarded as favourable prospecting ground. This is supported by a 7 foot section of ground core in a surface drill hole on the extension of this zone 1,300 feet west of the projected junction.

As a first exploration stage a program of geochemical prospecting is recommended with the objective of delineating specific target areas for follow up diamond drilling from the surface. Sampling should be carried out at 100 foot intervals along the north-south lines for 1,000 feet. A contingency for 2,000 feet of diamond drilling should also be provided, and concurrently the feasibility of carrying out underground exploration from the 3,000 foot level should be determined and an estimate of the cost prepared, which would be contingent on the results of the surface program. The total cost of work to this stage is estimated at \$23,400.00 as follows:

Line cutting	\$ 700
Sampling and Assaying	4,000
Contingencies	700
Provision for 2,000 feet of diamond drilling	16,000
Supervision, assaying and estimate re underground exploration programme	2,000
TOTAL	<u>\$23,400</u>

PRELIMINARY EXPENSES

It is estimated that the expenses of the Corporation for the first year of operation will be \$4,500.00 for administration and \$23,400.00 for exploration and development work, subject to increase if further work is warranted and funds are available. No monies have been spent to the date hereof.

DESCRIPTION OF SHARE CAPITAL

The authorized capital of the Corporation is 3,000,000 shares without par value to be issued for a consideration not exceeding \$1,000,000.00, of which 750,002 have been issued to the date hereof. All shares are of one class only and rank equally in every respect including the right to one vote each at all meetings of shareholders and the right to participate equally in the assets of the Corporation in the event of winding up or liquidation. All shares issued to date are fully paid and not subject to call for any further payment. There is no other form of security of the Corporation existing at the present time and none is contemplated.

CAPITALIZATION

Description of security	Amount authorized	Amount outstanding as at May 15th, 1974 (see statements attached)	Amount outstanding as at date of this Prospectus	Amount outstanding if all securities being issued are sold
Common shares no par value	3,000,000 (\$1,000,000.)	750,002 (\$7,501.)	750,002 (\$7,501.)	1,150,002 (\$92,501.)*

*On the basis of all shares underwritten and optioned being sold (see heading "Offering" herein).

ESCROWED SHARES

At the date hereof a total of 675,000 fully paid common shares of the Corporation are held in escrow by Guaranty Trust Company of Canada, 88 University Avenue, Toronto, Ontario, subject as to release only with the consent of the Company and the Ontario Securities Commission, and as to transfer, pledge or any other dealings within the terms of escrow only with the consent of the Ontario Securities Commission.

Number of escrowed shares	Percentage of total issued capital as at date of this Prospectus
675,000 common	90%

By Agreement between Marchmont & Mackay Limited as Vendors of the mining property, and Lormac, the above noted escrowed shares may be required to be tendered back to the Corporation in the event the mining property for which such shares were issued is abandoned or title thereto is permitted to lapse by reason of a discontinuance of development work.

PRINCIPAL HOLDERS OF SECURITIES

As at the date of this Prospectus, the following is the only holder of more than 10% of the issued stock of the Corporation:

<u>Name and address</u>	<u>Description of class</u>	<u>Type of ownership</u>	<u>Number of shares</u>	<u>Percentage of class issued</u>
Marchmont & Mackay Limited Suite 1608, 330 Bay St., Toronto, Ont.	common shares no par value	Record and beneficial	750,000 (675,000 escrowed)	100%

Marchmont & Mackay Limited is also the Underwriter-optionee of the shares being offered by this Prospectus and the promoter of the Corporation (as to which see headings "Offering", "Secondary Offerings" and "Promoter" herein) in which a greater than five per cent (5%) interest is held by W. R. Marchmont, 53 King George's Road, Islington, Ontario, L. P. Mackay, 31 Alexander Street, Toronto, Ontario and C. L. Ornstein, 260 Wellesley Street East, Toronto, Ontario.

Following the sale of all underwritten and optioned shares and the secondary offering, the respective percentage of shares held and to be held by the principal shareholders and the public will be as follows:

<u>Shareholders</u>	<u>Percentage of class before offering</u>	<u>Percentage of class after offering</u>
Principal shareholders	100%	58.7%
Public	nil	41.3%

PRIOR SALES

Since incorporation the only shares of the Corporation sold for cash have been as follows:

<u>No. of shares</u>	<u>Price per share</u>	<u>Total proceeds</u>
2	\$.50	\$1.00

DIVIDENDS

No dividends have ever been paid by the Corporation to date.

AUDITOR

The Auditor of the Corporation is T. H. Bernholtz, C.A., Suite 804, 330 Bay Street, Toronto, Ontario.

REGISTRAR AND TRANSFER AGENT

The Registrar and Transfer Agent of the Corporation is Guaranty Trust Company of Canada, 83 University Avenue, Toronto, Ontario.

OFFERING

The Corporation has entered into an Agreement dated April 19th, 1974 as amended by Agreement dated May 15th, 1974, with Marchmont & Mackay Limited, Suite 1608, 330 Bay Street, Toronto, Ontario, as Underwriter-optionee, whereby the latter acting on its own behalf has agreed to purchase the following treasury shares:

Underwritten Shares

<u>No. of shares</u>	<u>Price per share</u>	<u>Net amount to Corporation</u>	<u>Maximum offering price to public</u>
200,000	17½¢	\$35,000.00	35¢ per share

The purchase price of \$35,000.00 is payable on the effective date of the Agreement being two business days following receipt of advice from the Ontario Securities Commission of acceptance for filing of a Prospectus of the Corporation permitting the sale to the public of the shares herein referred to.

In consideration of the said firm purchase of shares the Corporation has granted to the Underwriter-optionee the option to purchase further treasury shares as follows:

Optioned Shares

<u>No. of shares</u>	<u>Price per share</u>	<u>Net amount to Corporation</u>	<u>Maximum offering price to public</u>	<u>Time within which option exercisable from effective date</u>
100,000	22½¢	\$22,500.00	45¢ per share	3 months
100,000	27½¢	\$27,500.00	55¢ per share	6 months

The underwritten and optioned shares covered by this offering as

outlined herein, will be offered to the public in Ontario during the course of distribution by the Underwriter-optionee, as principal, which shares will be offered at such prices as the Underwriter-optionee may determine from time to time within the limits of the maximum offering prices stated. The Corporation is advised that there are no Agreements by way of sub-underwriting, sub-option or assignment in effect or contemplated with respect to any of the aforesaid shares. Marchment & Mackay Limited is a Broker-Dealer carrying on business in the City of Toronto, in which the only persons holding a greater than 5% interest in the issued capital thereof are William Roy Marchment, 53 King George's Road, Islington, Ontario, Robert Pascoe Mackay, 31 Alexander Street, Toronto, Ontario and Charles Ornstein, 260 Wellesley Street East, Toronto, Ontario.

SECONDARY OFFERING

<u>Offering Shareholders</u>	<u>No. of shares held at date of Prospectus</u>	<u>No. of shares offered</u>	<u>No. of shares held after offering</u>
Marchment & Mackay Limited 330 Bay Street, Toronto, Ontario	75,000 (free) 675,000(escrowed)	75,000 (free) nil	nil 675,000 (escrow)

Marchment & Mackay Limited will sell its free shares as principal following the sale of all underwritten and optioned shares, with the proceeds from the sale of such shares accruing solely to the offering shareholder and not to the treasury of the Corporation.

USE OF PROCEEDS

The proceeds from the sale of underwritten shares in the amount of \$35,000.00 will be used to finance the recommended exploration program of Dr. Graham estimated at \$23,400.00 as outlined in the heading "Mining Property", and will provide for the cost of incorporation and this issue estimated at \$6,500.00, together with estimated administrative expenses for the first year of exploration in the amount of \$4,500.00. Although there is no obligation on the Underwriter-optionee to purchase all or any of the share options given to it, the Corporation will receive an additional \$45,000.00 if all such options are exercised, in which case the additional funds will be used for general operating and administrative expenses and further exploration work if warranted. Any surplus funds will be used from time to time to conduct further exploration work on this or other properties which may be acquired by the Corporation, but no funds will be spent on the acquisition of additional properties, or for investment in other Corporations without an appropriate amendment to this Prospectus having first been accepted by the Ontario Securities Commission if shares of the Corporation are still then in the course of distribution to the public.

PROMOTER

The Promoter of the Corporation pursuant to the definition contained in Section 1.(1)15 of The Securities Act is Marchment & Mackay Limited, 330 Bay Street, Toronto, in which a greater than 5% interest is held by W. R. Marchment, 53 King George's Road, Islington, Ontario, R. P. Mackay, 31 Alexander Street, Toronto, Ontario and C. L. Ornstein, 260 Wellesley Street East, Toronto, Ontario.

OFFICERS AND DIRECTORS

The following are the present officers and directors of the Corporation together with their principal occupations over the preceding five year period:

President and Director	-	Russel Edwin Vance, 34 Meadow Avenue, Scarborough, Ontario, Department Supervisor with Hiram Walker G & W. Mr. Vance is also a Director of other mining Corporations.
Secretary-Treasurer and Director	-	James M. DaCosta, 155 Rosedale Heights Drive, Toronto, Ontario, Barrister & Solicitor practicing in the City of Toronto and a Director of other mining Corporations, including McAdam Mining Corporation Limited and Grasset Lake Mines Limited.
Director	-	Clarence Allen Floyd, 2 Courtwright Road, Etobicoke, Ontario, Sole proprietor of Automation and Mining Development Services and a Director of other mining Corporations.
Director	-	W. Russell Miller, 9 Foxcote Crescent, Etobicoke, Ontario, Prospector, self-employed and a Director of other mining Corporations including Beaverbridge Mines Limited and Benvan Mines Limited.

REMUNERATION OF OFFICERS AND DIRECTORS

No officer or director of the Corporation is presently receiving any remuneration for services as such, but directors will be entitled to receive a fee of \$50.00 for each meeting of directors

tended, together with their reasonable expenses in connection therewith, and head office, administrative and secretarial services will be paid to the Secretary-Treasurer in an amount not exceeding \$250.00 per month. No contributions will be made by the Corporation to any pension, insurance or other benefit plan on behalf of any officer or director.

MATERIAL CONTRACTS

The following material contracts relating to the affairs of the Corporation entered into since incorporation may be inspected at the head office of the Corporation at ordinary business hours during the period that the shares being offered for sale to the public, as referred to in this Prospectus, are in the course of distribution to the public:

- (a) Agreement dated April 19th, 1974 between the Corporation and Marchmont & Mackay Limited as to which see heading "Mining Property".
- (b) Underwriting-option Agreement dated April 19th, 1974 with Marchmont & Mackay Limited covering sale of treasury shares referred to in heading "Offering", as amended by Agreement of May 15th, 1974.
- (c) Agreement dated April 24th, 1974 with Marchmont & Mackay Limited and Guaranty Trust Company of Canada, as to which see heading "Escrowed Shares".

INTEREST OF MANAGEMENT AND OTHERS IN MATERIAL TRANSACTIONS

No officer or director has any direct or indirect personal interest in any material transaction involving the Corporation at the date hereof.

PURCHASERS' STATUTORY RIGHTS OF WITHDRAWAL AND RESCISSION

The Securities Act contains provisions in Sections 64 and 65 enabling a purchaser of securities offered in the course of distribution to the public to rescind the contract of purchase while the purchaser is still the owner of the securities,

- (a) if the Prospectus and any amended Prospectus, as of the date of receipt by the purchaser, contains an untrue statement of a material fact or omits to state

a material fact in order to make any statement contained therein not misleading, but only if action is commenced within 90 days from the last to occur of the receipt of the Prospectus or amended Prospectus or the contract of purchase and

- (b) if the person or corporation from whom the securities were purchased is notified in writing or by telegraph of the purchaser's intent to rescind not later than midnight of the second day, exclusive of Saturdays, Sundays and holidays, after receipt by the purchaser of the Prospectus or amended Prospectus.

A Prospectus or amended Prospectus sent by prepaid mail is deemed conclusively to be received in the ordinary course of mail. The receipt thereof by a person or corporation acting as agent or who thereafter commences to act as agent of the purchaser shall be receipt by the purchaser as of the date of the agent's receipt thereof; however, for purpose of the foregoing, a person or corporation is not considered to be acting as agent of the purchaser unless the person or corporation is acting solely as an agent of the purchaser and has not received and has no agreement to receive compensation from or on behalf of the Vendor with respect to the purchase and sale. This right of rescission is not available to a registrar or to a purchaser who sells or otherwise transfers beneficial ownership of the securities purchased before the expiration of the time within which rescission may be effected.

Reference is made to The Securities Act, R.S.O. 1970, c.426 and amendments thereto for the complete text of s.64 and 65 containing the provisions from which the above summary is made.

AUDITOR'S REPORT

To The Directors
Lormac Explorations Limited
Toronto, Ontario

I have examined the balance sheet of Lormac Explorations Limited as at May 15, 1974 and in connection therewith reviewed such supporting evidence as I considered necessary in the circumstances.

In my opinion, the accompanying balance sheet presents fairly the financial position of the Corporation as at May 15, 1974 in accordance with generally accepted accounting principles.

Toronto, Ontario
July 15, 1974

T. H. Bernholtz
Chartered Accountant

LORMAC EXPLORATIONS LIMITEDBALANCE SHEETAS AT MAY 15, 1974ASSETS

Cash in bank	\$ 1.00
Mining claims and properties (Note 1)	7,500.00
Incorporation, organization and cost of offering, estimated	6,500.00
	<u>\$14,001.00</u>

LIABILITIES AND CAPITAL

Accounts payable, estimated	\$ 6,500.00
Capital stock (Note 2)	
Authorized:	
3,000,000 shares, without par value, not to exceed \$1,000,000.00	
Allotted and issued	
For cash	2 shares 1.00
For properties	750,000 shares 7,500.00
	<u>\$14,001.00</u>

The accompanying notes are an integral part of this balance sheet.

Approved on behalf of the Board of Directors:

<u> " R.E. Vance " </u>	Director
<u> " J.M. DaCosta " </u>	Director

LORMAC EXPLORATIONS LIMITEDNOTES TO BALANCE SHEETAS AT MAY 15, 1974

- Note 1. The mining properties consist of eight mining claims in Teck Township, Larker Lake Mining Division, Province of Ontario and are recorded at the consideration attributed to 750,000 shares by the Board of Directors for a value of \$7,500. The agreement also provides that a royalty is payable consisting of 5% of the net sale price of all ore removed from the property.
- Note 2. By agreement dated April 19, 1974 as amended by agreement dated May 15, 1974, the underwriter has agreed to firmly purchase 200,000 shares of the Corporation's capital stock at 17½¢ per share, payable on the second business day following the date upon which the Ontario Securities Commission issues a final receipt for the filing of the prospectus (referred to as the "effective date"). In consideration of the firm purchase, the Corporation has granted the underwriter an option to purchase all or any part of an additional 200,000 shares as follows: 100,000 shares at 22½¢ per share payable within three months after the effective date and a further 100,000 shares at 27½¢ per share payable within six months after the effective date.
- Note 3. A statement of source and application of funds from incorporation date (January 25, 1974) to May 15, 1974 has not been included as the Corporation has not yet commenced operations.

THERE ARE NO OTHER MATERIAL FACTS.

The foregoing constitutes full, true and plain disclosure of all material facts relating to the securities offered by this Prospectus as required by Part VII of The Securities Act and the regulations thereunder.

"Russel E. Vance"
Chief Executive Officer

"James M. DaCosta"
Chief Financial Officer

On behalf of the Board of Directors.

"Clarence A. Floyd"
Director

"W. Russell Miller"
Director

PROMOTER

MARCHMENT & MACKAY LIMITED

"W. R. Marchment"

"R. P. Mackay"

To the best of our knowledge, information and belief the foregoing constitutes full, true and plain disclosure of all material facts relating to the securities offered by this Prospectus as required by Part VII of The Securities Act and the Regulations thereunder.

UNDERWRITER OPTIONEE

MARCHMENT & MACKAY LIMITED

"W. R. Marchment"

"R. P. Mackay"

Dated the 15th day of July, 1974.



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LORMAC EXPLORATIONS LIMITED

OGDEN PROPERTY

TECK TOWNSHIP

KIRKLAND LAKE

ONTARIO

Toronto, Ontario

April 19, 1974

R. Bruce Graham & Associates Ltd.



42A01NE0221 2.1722 TECK

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SUMMARY

The Ogden Property is centrally located in Tecumseh Township, Kirkland Lake Area, Ontario.

It lies 2,700 feet north of the Macassa ore zone on the north edge of the gold bearing sediments, felsic volcanics and intrusives which occur along the gold-bearing Kirkland Lake Fault System.

There is surface and underground evidence that a fault zone occurs in sediments along the north contact of the syenite intrusive in the southern part of the Property.

A vein on the property intersected in a hole drilled from a crosscut on the 3,000 foot horizon of the Macassa Mine is approximately on strike with the Narrows break which is a gold bearing structure on the Lake Shore and Tec Hughes properties a mile to the east. This structure is projected to merge with the postulated vein and fault 500 feet west of the east boundary of the property. The fault zone from here west through the southern part of the claim group is regarded as favourable prospecting ground. This is supported by a 7 foot section of ground core in a surface drill hole on the extension of this zone 2,200 feet west of the projected junction. The ground core could be due to faulting and 1 foot within this section assaying 0.07/ton Au and 1.45 oz/ton Ag

lends support to the assumption that this horizon could have economic potential.

As a first step, a program of trace element geochemical prospecting is recommended, based on present knowledge of the mineralogy of the Kirkland Lake area.

A contingency for 2,000 feet of diamond drilling to follow up the geochemical program is also recommended along with an investigation into the feasibility of carrying out underground exploration from the 3,000 foot level.

The cost of the above program is estimated at \$23,400.00.

LOCATION

The Ogden Property is centred 2.6 miles south and 2.9 miles east of the northwest corner of Tecumseh Township.

The central part of the town of Kirkland Lake lies 2.5 miles east of the southeast corner of the claim group. The town of Swastika lies 2.5 miles south of the southwest corner.

The workings of the nearest producing mine, the Macassa, lie 2,500 feet to the south.

ACCESS

Access is convenient. The Ontario Northland Railway crosses the southeast corner of the claim group. The highway to Kirkland Lake and Noranda lies $\frac{1}{2}$ mile to the south. A secondary road leading north passes $\frac{1}{3}$ of a mile east of the east boundary.

FACILITIES

A hydroelectric transmission line crosses the property. Transportation facilities are convenient. The town of Kirkland Lake is geared to the mining industry as this area has been producing gold for over 60 years.

No mining facilities are known to be present on the property other than an exploration shaft sunk to a depth of 127 feet.

HISTORY

Gold was first discovered at Kirkland Lake in the autumn of 1911. Subsequent discoveries resulted in a great prospecting

rush in 1913 following which the mines of the camp were gradually developed into the famous golden mile.

Numerous mines produced at various times but the bulk of the production came from seven mines extending from Macassa on the west to Toburn, a little over 2 miles to the east. Production reached its peak between 1934 and 1940. At that time it was the second largest gold producing area in Canada. The camp is currently active but on a much reduced scale.

Casakirk Gold Mines Limited was organized in 1936 to consolidate a group of claims which included the present Ogden Property. The companies charter was cancelled in 1965 and the claims of the Ogden Group were acquired in May, 1973.

PREVIOUS WORK

The prospect shaft was sunk sometime previous to 1936 and is located approximately 200 feet west and 450 feet north of the southeast corner of the claim group. This shaft was possibly sunk to investigate shearing immediately to the north. There is no record of the results from this work.

In 1940, Macassa Mines Ltd. in conjunction with Hollinger Consolidated Gold Mines Ltd. drove a crosscut north from the Macassa workings on the 3,000 foot level, which terminated 600 feet south of the south boundary of the property. A hole was drilled from the end of the crosscut 720 feet into the claim group 300 feet west of the eastern boundary. A narrow quartz vein was intersected about 50 feet

north of the south boundary, Assay results from the vein are not known.

In June, 1941, a 550 foot surface hole was drilled from a point 2,500 feet west of the east boundary and 50 feet south of the south boundary N.25° W into the Ogden Group for a horizontal distance of 440 feet.

Five veinlets were encountered varying in width from 1 inch to 1 foot. The latter was recovered from a 7 foot section of ground core in sediment. The 1 foot section assayed 0.07 oz. Au per ton and 1.45 oz. Ag per ton. The others assayed from 0.01 to 0.03 oz. Au per ton over widths of 1 foot and all occur in syenite porphyry.

TOPOGRAPHY

Outcrop areas are relatively plentiful, comprising about 30% of the terrain. These areas are separated by drift and muskeg.

A drift filled valley with sparse outcrop lies along the southern part of the property.

A creek flows out of the southwestern part of the claim group into Amikougami Creek, 500 feet to the west. This is a north trending fault controlled water course.

The west arm of Kirkland Lake lies 1,800 feet east of the east boundary of the property.

GENERAL GEOLOGY

A sinuous easterly trending series of Archean felsic volcanics and sediments averaging some 2 miles in width extends from Eby Township east for 35 miles into Quebec and beyond. This series is cut by numerous intrusives ranging from syenite to granite.

The above formations are flanked by basic volcanics and related basic intrusives.

The youngest rocks are dykes of diabase and lamprophyre.

The contact between the sedimentary formations and the basic volcanics is marked by an unconformity.

It is inferred that the series of felsic volcanics and sediments occupy a synclinal axis with the south limb having been removed by thrust faulting.

The Kirkland Lake - Larder Lake fault system crosses through the belt of felsic volcanics and sediments. It has profoundly affected their present distribution.

This fault system in Teck Township and Lebel Township to the east has a regional trend of $N.70^{\circ} E.$ Dips near surface are from vertical to steeply south with a flattening below a depth of 2000 feet.

Both vertical and horizontal movements took place along this system, which has in turn been offset by younger northerly trending cross faults.

GEOLOGY OF THE PROPERTY

The northwest corner of the claim group is underlain by basic volcanics. This is succeeded to the south by a concordant diorite-gabbro mass 1,500 to 1,900 feet wide trending $N.80^{\circ} E.$

This intrusive is in contact to the south with a tuff-agglomerate sequence 100 to 250 feet wide which strikes $N.70^{\circ} E.$ and dips 40° to 60° to the south. Conglomerate and greywacke underlie the remaining portion except in the southeastern part. The bed rock here consists of syenite porphyry and basic syenite.

The contact between the syenite and sediments lies in a drift filled valley 200 to 300 feet wide which trends N.70° E. The contact dips from vertical to slightly north.

It is possible that a fault underlies the valley, along the syenite-sediment contact. This is based on the following:

- (1) Shearing has been noted immediately north of the prospect shaft;
- (2) Ground core and gold-bearing quartz vein material 70 feet north of the syenite contact occur in the surface drill hole suggesting the presence of a fault;
- (3) Shearing has been noted in the underground hole at the north contact of the syenite and a second zone occurs 550 feet further north;
- (4) The above lie approximately on strike with a zone of shearing and carbonatization encountered underground at the Lake Shore and Tec Hughes mines.

ECONOMIC GEOLOGY

Faults in the area are of great economic importance owing to the fact that the ore bodies in the camp occur along the fault system and they have a closer relationship to faults than to rock type.

Ore has been found in all rock types within the producing area. The physical nature of the rock has influenced the deposition of the ore. The most substantial ore bodies occur in the syenite and related intrusives.

The ore deposits are vein type deposits and occur as fissure, stockwork, breccia and gash veins. They lie in faults and braided and inter-linking breaks between faults and as horse-tail structures.

The vein intersected by drilling on the 3000 foot level, 50 feet north of the south boundary of the Ogden Property lies roughly on strike with the Narrows Break ore bodies of Lake Shore and Teck Hughes a mile to the east. The extension of the Narrows Break into this area has been postulated by both Thompson and Guftason.

If this postulation is correct, the Narrows Break could be a linking structure between the Kirkland Lake Fault and the indicated shear zone crossing the southern part of the Ogden Property. The junction between the two would be located about 500 feet west of the eastern boundary. The continuation to the west could thus be a favourable horizon for gold deposition. This is supported by the intersection in the surface hole of 1 foot assaying 0.07 oz/ton Au and 1.45 oz/ton Ag in a 7 foot section of core that was mainly ground. This intersection lies 2,200 feet west of the postulated junction between the contact shear and the Narrows Break.

CONCLUSIONS

The Ogden Property lies some 2,700 feet north of the gold-bearing Kirkland Lake fault system on the north side of the sequence of sediments, felsic volcanics and syenitic intrusives, which contain the known ore occurrences of the camp.

There is evidence of a second fault in the sediments along the north contact of the syenite intrusive in the souther part of the property.

There is also evidence that the Narrows Break, which is ore bearing on the Lake Shore and Teck Hughes Properties a mile to the east, could extend into the Ogden Group. The projection of the Narrows Break would merge with this fault 500 feet west of the east boundary.

The fault paralleling the syenite contact is thus regarded as favourable prospecting ground. Added support is given to this conclusion by the results obtained in the surface drill hole previously described.

RECOMMENDATIONS

In view of the fact that surface prospecting has undoubtedly been carried out thoroughly in the past and that the favourable zone is largely drift covered, future exploration is restricted to 3 approaches:

1. Systematic drilling across the favourable horizon from surface;
2. Cross cutting and drifting from underground along the north contact of the syenite on the 3,000 foot level with exploratory drilling;
3. Geochemical investigations.

To adequately explore the favourable zone by the first two methods would require a considerable expenditure of money as systematic drilling would be required due to the fact that there are no specifically delineated target areas.

As a first exploration stage, a programme of geochemical prospecting is recommended with the objective of delineating specific target areas for follow up diamond drilling from surface.

The geochemical survey should consist of soil sampling for trace elements, selenium, tellurium, silver and mercury. The selection of these elements is based on the mineralogy of the Kirkland Lake ores.

The sampling should be carried out at 100 foot intervals along north-south lines 200 feet apart from the south boundary north for 1000 feet.

A contingency for 2000 feet of diamond drilling should also be provided.

Concurrently with the above programme, the feasibility of carrying out underground exploration from the 3,000 foot level should also be determined and an estimate of the cost of such a programme should be prepared.

The implementing of the underground program would be contingent on the results of the surface program.

COST

Line Cutting	\$ 700
Sampling & Assaying	4,000
Contingencies	<u>700</u>
	5,400
Provision for 2,000 feet of diamond drilling	16,000
Supervision, assaying and estimate re underground exploration programme	<u>2,000</u>
 TOTAL	 \$23,400

FORM NO. 14 C.I.P. REPORT COVER GRAND & TAY

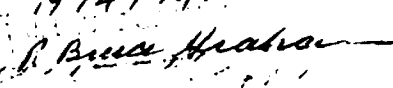
ASSESSMENT WORK

Rec'd from Gen. Director

R. B. Graham

Date June 26/75 R. B. Graham

Resident Geologist

1974/74 RBG

 R. Bruce Graham; Ph.D., P.Eng.,
 R. Bruce Graham and Associates Limited

Toronto, Ontario
 April 19, 1974

CERTIFICATE

Re: Lormac Explorations Limited

I, R. Bruce Graham, of the City of Toronto, in the County of York, Province of Ontario, hereby certify:

- 1) That I am a Geologist and reside at 54 St. Leonards Avenue, Toronto, Ontario.
- 2) That I received my technical training at the University of Manitoba, B.Sc., and the University of Toronto, M.A. and Ph.D.(Geol). I have been practising my profession as a geologist for over 20 years.
- 3) That I am not an officer of the company; and that I have no direct or indirect interest whatsoever in the mining claims, the subject of this report, nor have I any direct or indirect interest in the securities of the company, nor do I expect to receive any direct or indirect interest in the securities or properties of the company.
- 4) That the writer did not personally examine the property as the snow cover made such an examination impractical.
- 5) That the accompanying report is based on discussions with Howard Lavell, Resident Geologist for the area and Michael Ogden, and the following:

Todd, E.W.; Kirkland Lake Gold area; Ont. Dept. Mines,
Vol. XXXVII, Pt. II, 1928.

Thompson, Jas. E.; Geology of Teck Township and the Kenogami
Lake Area, Kirkland Lake Gold Belt; Ont. Dept.
Mines, Vol. LVII, Pt. V, 1948.

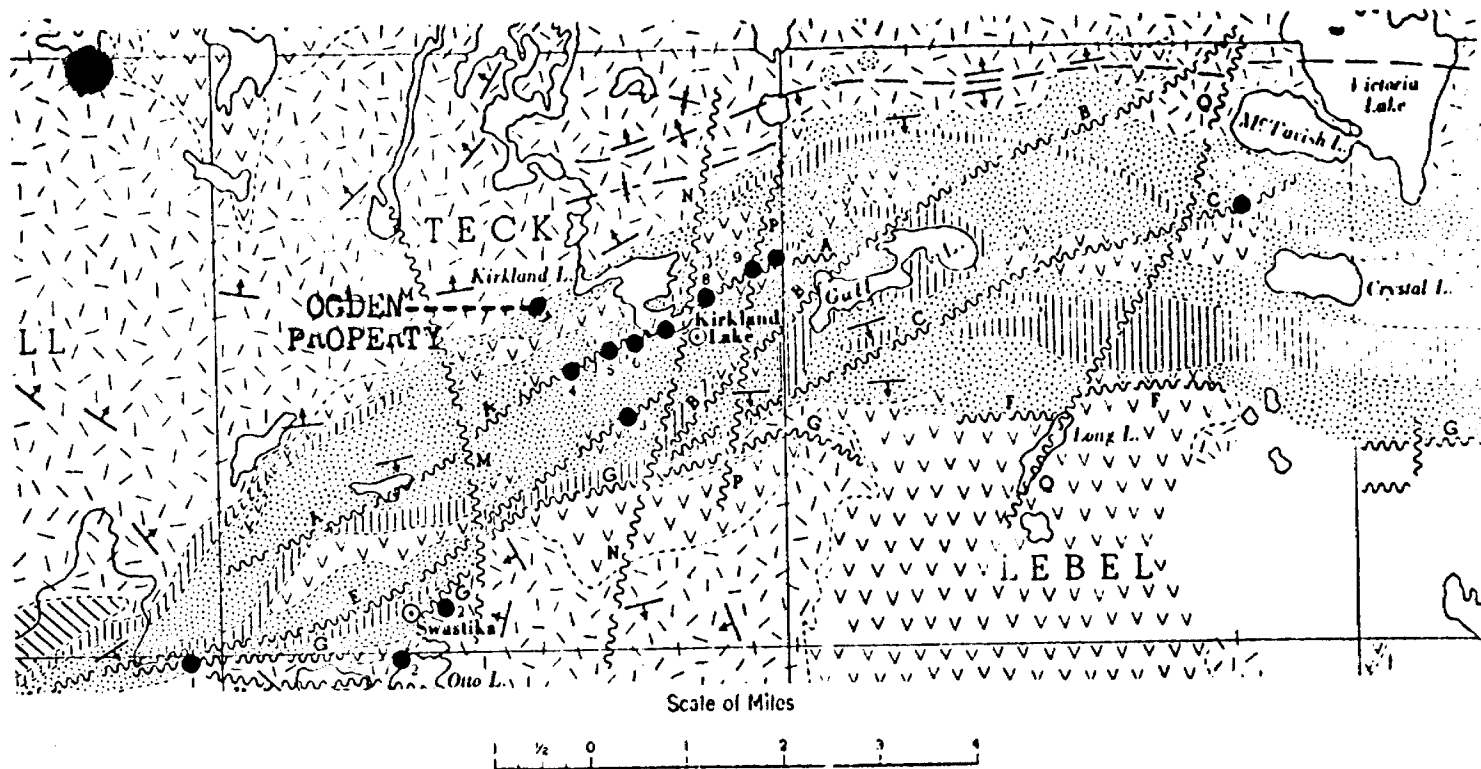
Thompson, Jas. E.; Geology of the Main Ore Zone at Kirkland
et al; Lake; Ont. Dept. Mines, Vol. LVII, Pt. V, 1948.

Guftason, J.K.; Report on Casakirk Gold Mines Ltd., Kirkland
Lake, Ont. Hollinger Expl. Co. Ltd., Dec. 26, 1940.






Second report on Casakirk Gold Mines Ltd.,
Kirkland Lake, Ont., Hollinger Expl. Co. Ltd.,
May 24, 1941.

DATED at Toronto this 19th day of April, 1974.






R. Bruce Graham
R. Bruce Graham, Ph.D., P.Eng.
Consulting Geologist.



LEGEND

-  Cobalt series (sediments).
-  Intrusives.
-  Older sediments.
-  Trochyles and tuffs.
-  Basic volcanics and diorites.

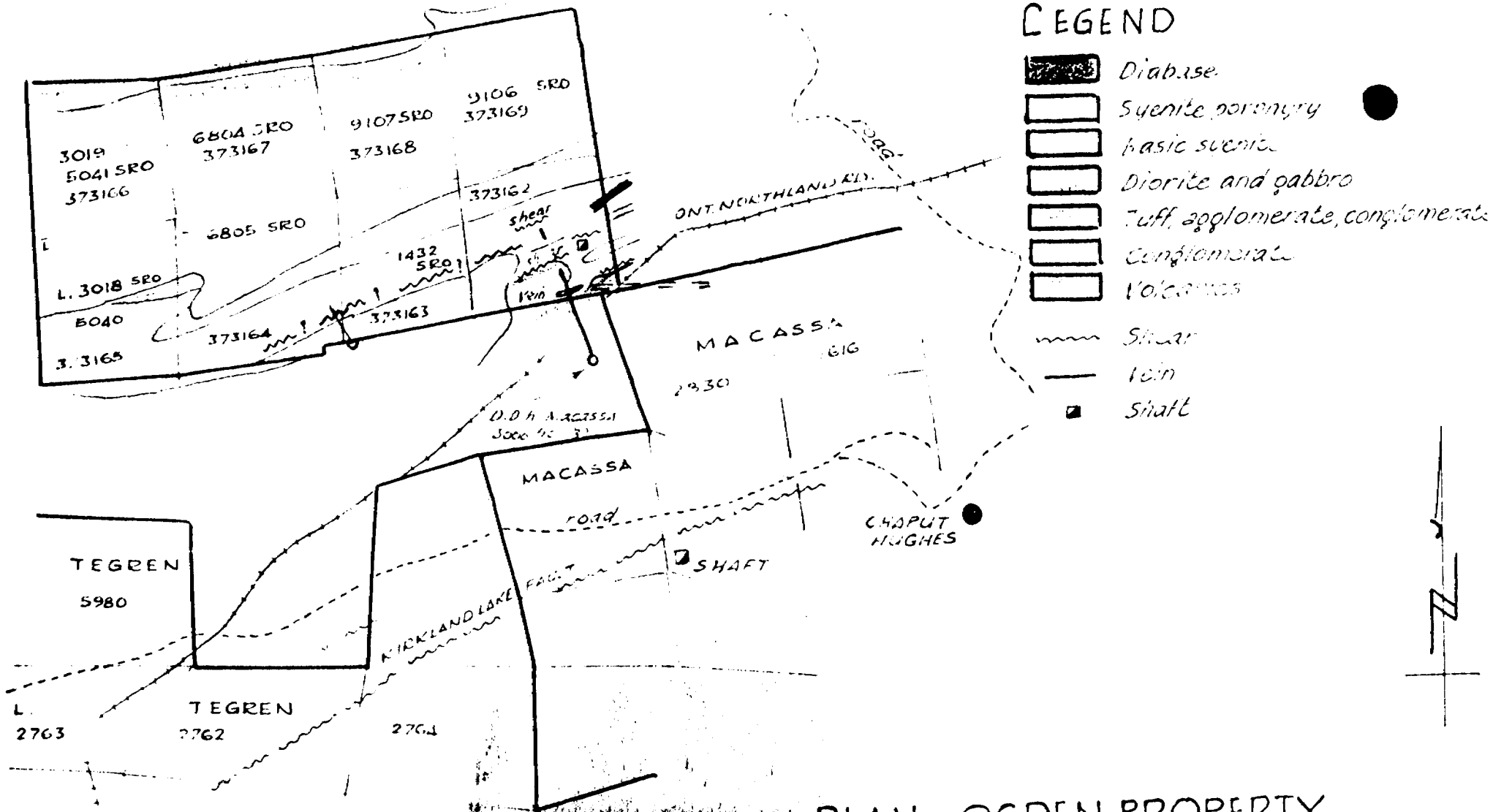
SYMBOLS

-  Strike of flows or bed, together with direction in which they face.
-  Synclinal axis.
-  Anticlinal axis.
-  Fault.
-  Mine location.

LIST OF PROPERTIES

- | | |
|--------------------------|-----------------------|
| 1. Baldwin Consolidated. | 9. Sylvanite. |
| 2. Golden Gate. | 10. Tobin. |
| 3. Amalgamated Kirkland. | 11. Bidgood Kirkland. |
| 4. Alacasta. | |
| 5. Kirkland Lake Gold. | |
| 6. Tech-Hughes. | |
| 7. Lake Shore. | |
| 8. Wright-Margreaves. | |

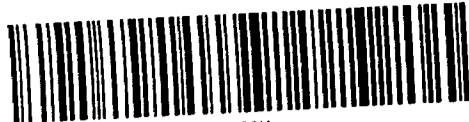
Generalized Geological Map
of
The Kirkland Lake Gold Belt
(After O.D.M. Vol. LV11 Pt.V 1948
Fig. 7)



PLAN - OGDEN PROPERTY
TECK TOWNSHIP
KIRKLAND LAKE AREA, ONTARIO

SCALE: 1" = 1320'

MAR 18 1975



900 form is
each
type of work to be
recorded.

O.P.M.
#53
-75

RECEIVED THE MINING ACT REPORT OF WORK

To the Recorder of LARDER LAKE Mining Division

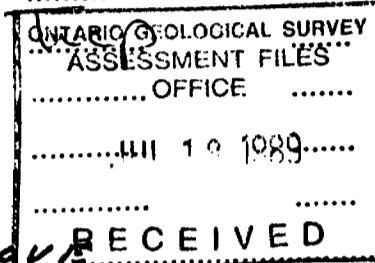
by LORMAC EXPLORATIONS LTD. Miner's Licence T-646
name of Recorded Holder

SUITE 1609, 44 VICTORIA ST. TORONTO
Post Office Address

do hereby report the performance of 160 days of GEOCHEMICAL
type of work

not before reported to be applied on the following contiguous claims

Claim No.	Days	Claim No.	Days	Claim No.	Days
L-373162	110	.....	.....	.....	.....
L-373163	110	.....	.....	.....	.....
L-373164	40	.....	.....	.....	.....
L-373165	40	.....	.....	.....	.....
.....
.....



All the work was performed on Mining Claim (s) AS ABOVE
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
- For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
- For Compressed Air or Other Power Driven or Mechanical Equipment
Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
- For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
- With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
- For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording.
- For Land Survey - the name and address of Ontario Land surveyor.

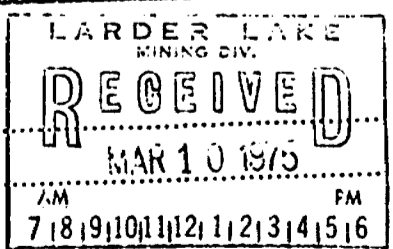
The Required Information is as Follows: (Attach a list if this space is insufficient)

MICHAEL OGDEN B.A.Sc P. ENG.
SEPT 15, 1974 TO FEB 28, 1975

Date FEB 28, 1975
Signature of Recorded Holder or Agent Michael Ogden

The Mining Act
Certificate Verifying Report of Work

by MICHAEL OGDEN
RR-4 STOURVILLE ONT.
(Post Office Address)

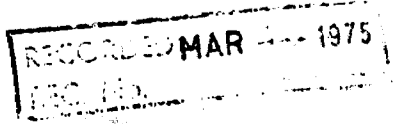


hereby certify:

- 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.
- That the annexed report is true.

Dated FEB 28 1975
Signature Michael Ogden

(file L 373162)



THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH.



Ontario

THE MINING ACT REPORT OF WORK

A separate form is required for each type of work to be recorded.

To the Recorder of LARRY LAKI Mining Division

LORMAC EXPLORATIONS LTD. T 646

name of Recorded Holder

Prospector's Licence

44 VICTORIA ST. RM. 1609 TORONTO

Post Office Address

do hereby report the performance of 160 days of GEOLOGICAL type of work

not before reported to be applied on the following contiguous claims

Table with 6 columns: Claim No., Days, Claim No., Days, Claim No., Days. Contains handwritten entries for claims 373162-373167 and 'Tech top'.

All the work was performed on Mining Claim (s) ALL OF THEM (In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
For Compressed Air or Other Power Driven or Mechanical Equipment
Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording.
For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

REPORT & MAPS BY MICHAEL OGDEN TO FOLLOW WORK DURING PERIOD SENT TO OCT. 25 '74

Date OCT 25, 1974 Signature of Recorded Holder or Agent Michael Oden

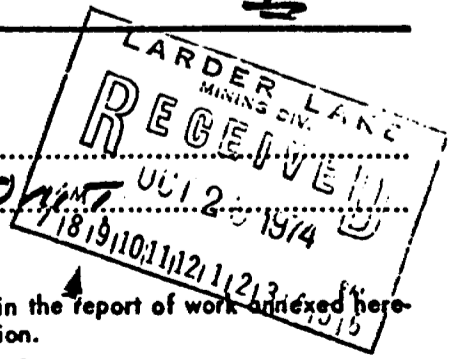
The Mining Act Certificate Verifying Report of Work

MICHAEL OGDEN RR-4 STUYFVILLE ONT. (Post Office Address)

hereby certify:

- 1. 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.
2. That the annexed report is true.

Dated OCT. 25 19 74 Signature Michael Oden



RECORDED REC. No.

File L 313162

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

Ontario

Ministry of
Natural
Resources

June 19, 1975

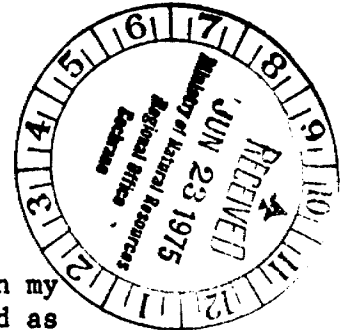
Mr. G. A. McCormack
Regional Director
Ministry of Natural Resources
P. O. Box 3000
140 Fourth Avenue
Cochrane, Ontario
POL 1C0

Our file number 2.1722

Your file number

Dear Sir:

Re: Mining Claims L. 373162 et al,
Teck Township, File 2.1722



The Geochemical assessment work credits as listed with my Notice of Intent dated May 30, 1975 have been approved as of the above date.

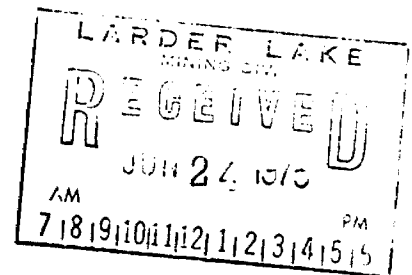
A copy of this letter should be sent to the Mining Recorder who should inform the recorded holder of these mining claims and so indicate on his records.

Similarly a copy of this letter together with the enclosed duplicate technical report and maps should be sent to the Resident Geologist.

Yours very truly,

for
J. R. McGinn
Director
Lands Administration Branch

Whitney Block, Room 1617
Queen's Park
Toronto, Ontario
M7A 1X1
Phone: 416-965-6918



DN/mw

cc: Lormac Explorations Ltd.
Toronto, Ontario

cc: Mr. Michael Ogden
Stouffville, Ontario

cc: Mining Recorder
Kirkland Lake, Ontario

cc: Resident Geologist
Kirkland Lake, Ontario



Ontario

Ministry of
Natural
Resources

March 17, 1975

Mr. G. A. McCormack
Regional Director
Ministry of Natural Resources
P.O. Box 2050
140 Fourth Avenue
Cochrane, Ontario
POL 1C0

Our file number 2.1669

Your file number

Dear Sir:

Re: Mining Claims L. 373162 et al,
Teck Township, File 2.1669

The Geological assessment work credits as shown on the attached statement have been approved as of the above date.

A copy of this letter should be sent to the Mining Recorder who should inform the recorded holder of these mining claims and so indicate on his records.

Similarly a copy of this letter together with the enclosed duplicate technical report and maps should be sent to the Resident Geologist.

Yours very truly,

for
J. R. McGinn
Director
Lands Administration Branch

Whitney Block, Room 1617
Queen's Park
Toronto, Ontario
M7A 1X1
Phone: 416-965-6918

OJ/mw

cc: Lormac Explorations Ltd.
Toronto, Ontario

cc: Mr. Michael Ogden
Stouffville, Ontario

cc: Mining Recorder
Kirkland Lake, Ontario

cc: H.B.&O. Engineering Ltd.
Stouffville, Ontario
Attn: Mr. M. Ogden

cc: Resident Geologist
Kirkland Lake, Ontario ✓

Recorded Holder	Lormac Explorations Limited
Township or Area	Teck Township

Type of survey and number of Assessment days credit per claim	Mining Claims
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Section 86 (18) _____ days Geological <u>20</u> days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input type="checkbox"/>	L. 373162 to 69 inclusive
Notice of Intent to be issued: <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. <input type="checkbox"/> No credits have been allowed for the following mining claims as they were not sufficiently covered by the survey: _____ _____ _____ _____ _____	

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;

Bernhardt Twp.

THE TOWNSHIP OF 2.1722
TECK
DISTRICT OF TIMISKAMING
LARDER LAKE MINING DIVISION

SCALE: 1-INCH = 20 CHAINS

LEGEND

- PATENTED LAND (P)
- CROWN LAND SALE (C.S.)
- LEASES (L)
- LOCATED LAND (Loc.)
- LICENSE OF OCCUPATION (L.O.)
- MINING RIGHTS ONLY (M.R.O.)
- SURFACE RIGHTS ONLY (S.R.O.)
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED (C.)

NOTES

- 400' surface rights reservation along the shores of all lakes and rivers.
- Area shown thus [Symbol] for Slime disposal
- Mining Claims L 2728 & 1535
Shown thus [Symbol]
Withdrawn from Staking under Sec 39 (b) of the Mining Act File: 67398
- Mining Rights for Claim L 5779
Subject to Sec 36 of the Mining Act

- MINING LANDS -
DATE OF ISSUE
MAR - 4 1975
MINISTRY OF NATURAL RESOURCES

Grenfell Twp.

Lebel Twp.

Otto Twp.

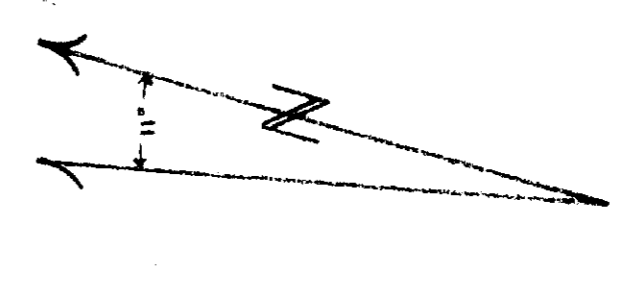
PLAN NO.-M. 392
ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



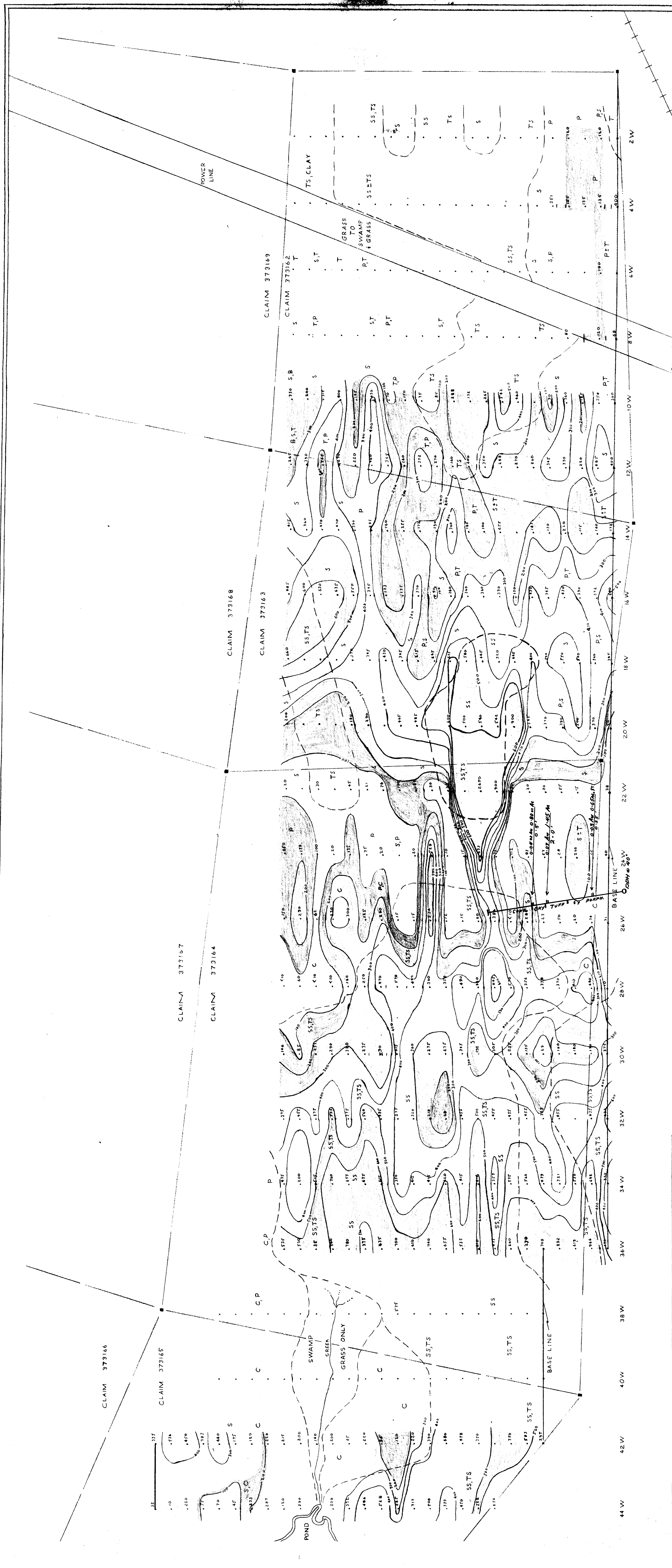
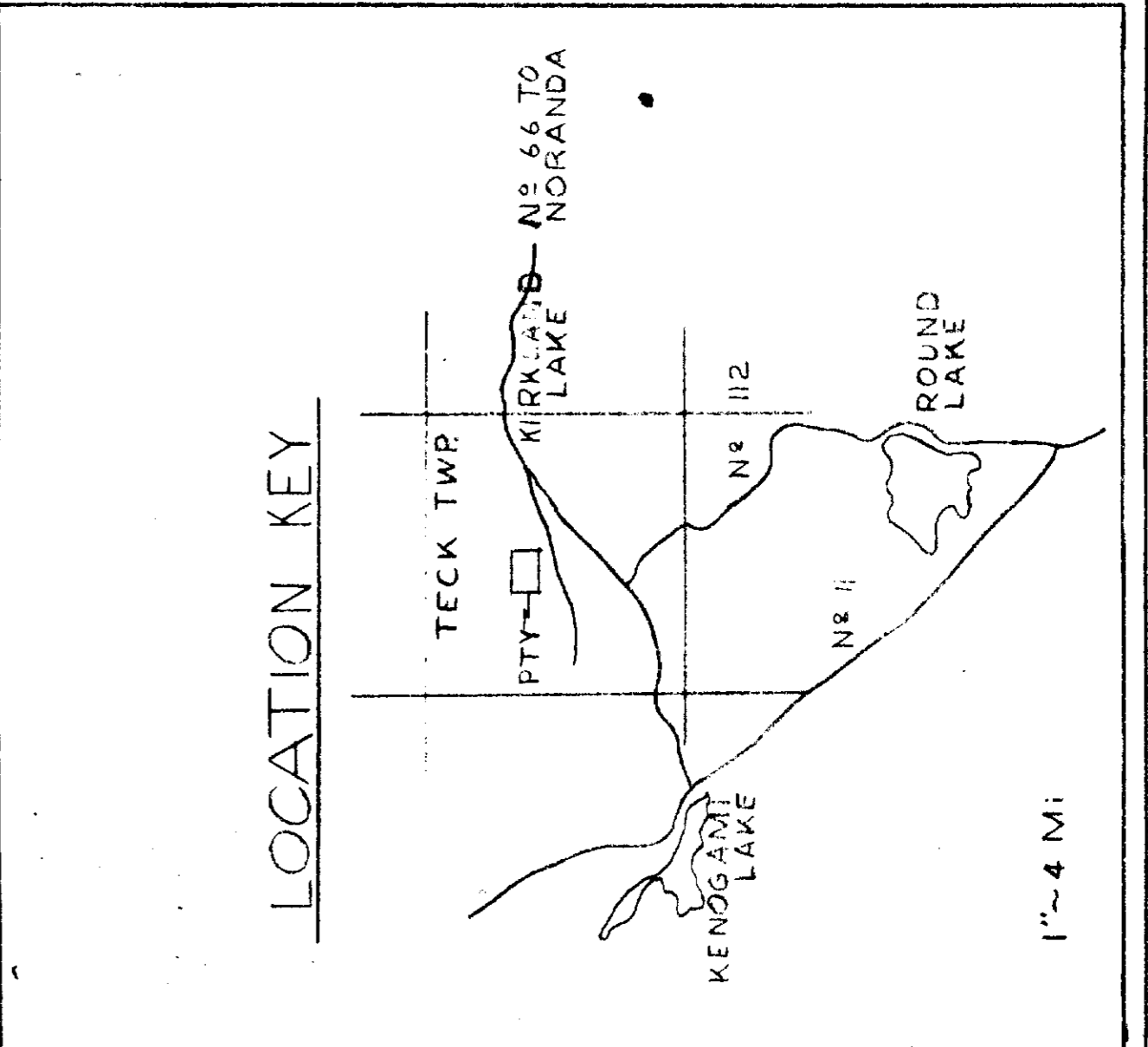
LORMAC EXPLORATIONS LIMITED
 LARDER LAKE MINING DIVISION
 TOWNSHIP OF TECK, ONTARIO
 EIGHT CLAIMS OF
 OLD GASAKIRK PROPERTY

GEOCHEMICAL SURVEY

SCALE: 1"=100'
 OCTOBER, 1974
 SURVEYED BY:
 J. ASHENHURST, *MA*
 H. B. & O. ENGINEERING, LIMITED.



- ### LEGEND
- 210 SAMPLE STATION - ASSAY FOR H₂ - PPB
 - SAMPLE STATION - ASSAY MISSING
 - CONTOURS OF EQUAL H₂ CONCENTRATION
 - CLAIM POST & LINE
 - SWAMP OUTLINE
 - SS SPRUCE SWAMP
 - TS TAG ALDER SWAMP
 - S SPRUCE FOREST
 - T TAG ALDERS (MAINLY DRY)
 - C VARIED CONIFEROUS FOREST
 - P POPLAR FOREST
 - B BIRCH FOREST



LEGEND

- ALGOMAN
- A3 PORPHYRITIC BASIC SYENITE
- A5 BASIC SYENITE
- A2 GABBRO
- A1 DIDRITE
- TIMISKAMING
- T5 AGGLOMERATE
- T TUFF
- T2 CONGLOMERATE
- T1 GREYWACKÉ
- KEEWATIN
- K MEDIUM TO BASIC GNEISS

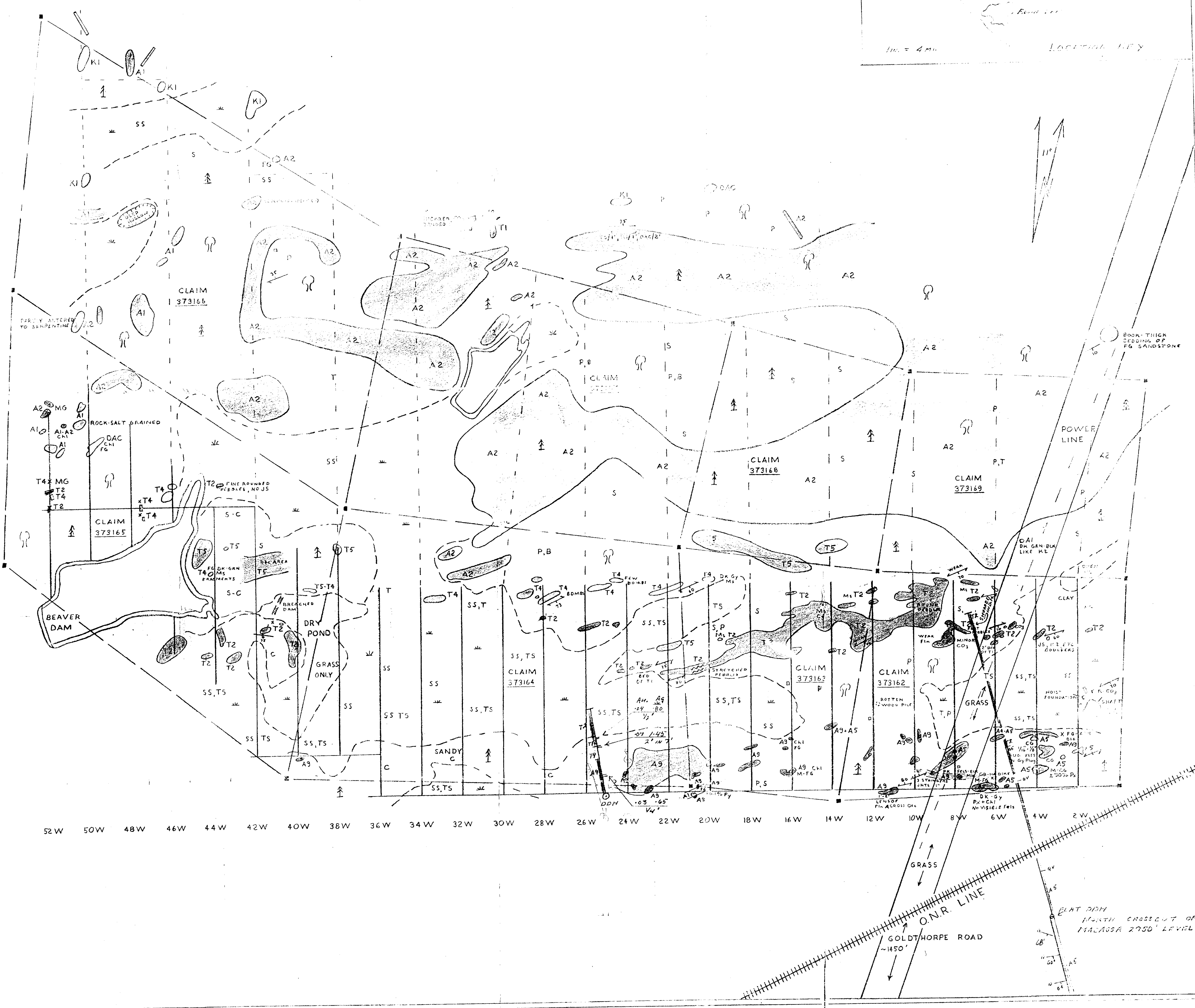
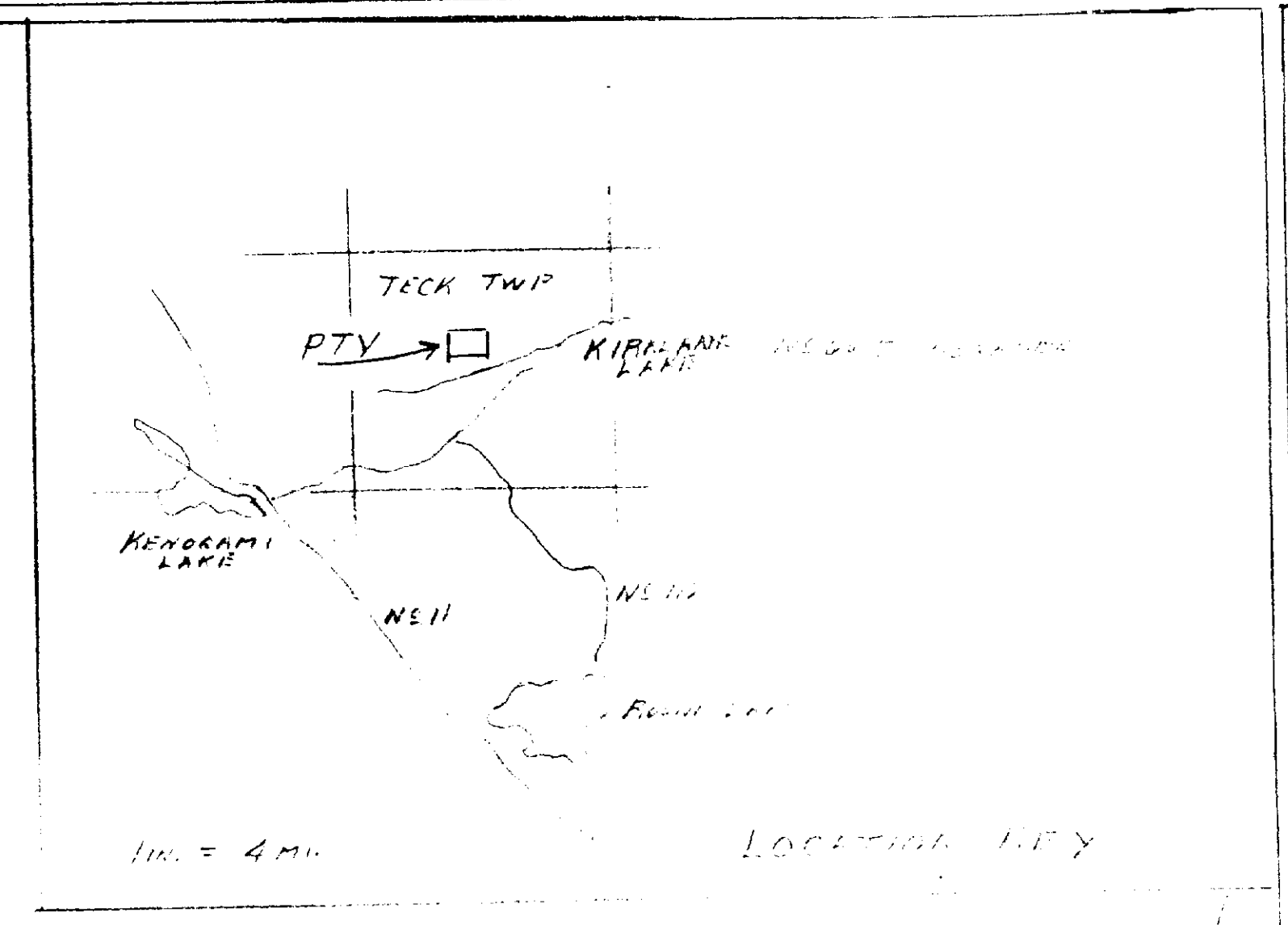
SYMBOLS

- FOLIATION
- STRIKE & DIP OF FOLIATION
- VERY STRONG FOLIATION
- PIT OR TRENCH IN OVERBURDEN
- BLOW OR TRENCH IN ROCK
- OUTCROP
- OUTCROP OR OUTCROP AREA
- VERY SMALL OUTCROP
- SWAMP & OUTLINE
- POND
- DACITE
- JASPER
- DIABASE
- AUGITE
- PYROXENE
- CHLORITE
- PLAGIOCLASE
- FELDSPAR
- CARBONATIZATION
- RUSTY
- JOINT
- MATRIX
- GABBRO
- DIABASE
- COARSE GRAINED
- MEDIUM GRAINED
- FINE GRAINED
- APHANTIC
- TAG ALDER SWAMP
- SPRUCE SWAMP & PINE, CEDAR, TAG
- SPRUCE FOREST & PINE, BALSAM...
- CONIFEROUS FOREST (PARKLAND)
- POPLAR PREDOMINANT
- BIRCH PREDOMINANT
- DARK
- BLACK
- GREY
- PINK
- GREEN

- CONIFEROUS BUSH
- POPLAR & BIRCH
- SWAMPY, MUSKRAT

ASSESSMENT WORK
 Prepared by: [Signature]
 Date: [Date]
 Project: [Project Name]

LORMAC EXPLORATIONS LIMITED
 LARDER LAKE MINING DIVISION,
 TOWNSHIP OF TECK, ON TARIO.
 EIGHT CLAIMS OF
 OLD CASAKIRK PROPERTY
GEOLOGICAL SURVEY
 SCALE: 1"=200'
 OCTOBER, 1974.
 DETAILED BY:
 M. OGDEN, B. GRAHAM



52W 50W 48W 46W 44W 42W 40W 38W 36W 34W 32W 30W 28W 26W 24W 22W 20W 18W 16W 14W 12W 10W 8W 6W 4W 2W

