



4115SW0059 0036A1 PARKIN

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GEOLOGICAL REPORT
ON THE
LESCHISHIN CLAIM GROUP
PARKIN TOWNSHIP
DISTRICT OF SUDBURY
ONTARIO

21503

L.D.S. Winter
B.A.Sc., M.Sc., F.G.A.C.
August 10, 1983.

RECEIVED
SEP 9 1983
MINING LANDS SECTION

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CERTIFICATE OF QUALIFICATION

LETTER OF CONSENT

41155W0059 0036A1 PARKIN

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1. INTRODUCTION

The presence of gold mineralization in Hutton and Parkin Townships has been known since exploration activity began in the area in the late 1800's. More recently the area has been prospected for gold, uranium and base metals. Due to the recent exploration activity just to the east at Wolf Lake and to the southeast in Scadding Township, these townships are now the site of renewed exploration activity for gold.

Mr. E. Leschishin, the owner of the claim group in south-central Parkin Township, requested the author to prepare a geological report on the property and to propose an exploration program to assess the potential of the 5 claims for gold. The following report presents the results of visits to the property by the author on July 11 and August 4, 1983, reviews the relevant geological information and proposes an exploration program to explore the claims.

2. SUMMARY AND RECOMMENDATIONS

2.1 The Leschishin property consists of 5 claims in good standing in Parkin Township, District of Sudbury, Ontario, approximately 30 miles (50 km.) north of Sudbury.

2.2 Previous work on the property, probably in the 1930's, exposed, in a number of trenches, gold mineralization associated with pyritic zones in Huronian sediments. Three drill holes drilled in the area of the old trenches in late 1978 and early 1979 were logged to indicate volcanics and only one sample was taken. Due to this situation, it is considered that the drilling failed to adequately test the mineralization found in the trenches.

2.3 The gold showings are located in quartzites of the Mississagi Formation of the Huronian Supergroup a few hundred feet above(north) of the Archean-Huronian unconformity. The gold mineralization and associated pyrite appear to be at a specific stratigraphic interval and zones of pyrite have been traced both to the east and west along strike from the main area of mineralization.

2.4 Sampling of the mineralized zone in the old trenches has indicated a zone of gold mineralization 60 feet long, with an average width of 4.5 feet and grading 0.22 oz Au/T. Immediately east and west of the old trenches the exact location of the mineralized zone is obscured by thick overburden (Figure 3).

2.5 Recently, significant gold discoveries have been made in the Huronian sediments east of Parkin Township at Wolf Lake and also in Scadding Township where Northgate Exploration Limited is developing a small gold deposit. The Geological Branch of the Ontario Ministry of Natural Resources has been investigating the Huronian sediments for strata-related gold deposits based on models of sedimentation developed in South Africa on the Witwatersrand.

2.6 The gold mineralization on the Leschishin property in the clastic Mississagi sediments close to the Archean-Huronian unconformity is considered to be a favourable geological environment in view of the discoveries at Wolf Lake and in Scadding Township and the studies being conducted by the Ontario Geological Survey. Based on these considerations the property is considered to have the potential for the discovery of strata-related gold mineralization and an exploration program to test this concept is presented.

2.7 The exploration work is presented as a three phase program with the budgets as presented below.

Phase 1: Surface exploration	\$ 60,000
Phase 2: Preliminary drilling program	60,000
Phase 3: Diamond drilling program	<u>175,000</u>
 TOTAL PROPOSED BUDGET	 <u>\$ 295,000</u>

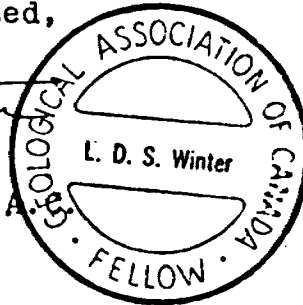
Respectfully submitted,

L.D.S. Winter

L.D.S. Winter,

B.A.Sc., M.Sc., F.G.A.

August 10, 1983



PROPERTY

3.1 PROPERTY AND OWNERSHIP

The property consists of 5 claims held by Mr. E. Leschishin, Box 45, Site 32, RR #3, Sudbury, Ontario. The property is shown in Figure 1 and consists of the following claims;

S631396

S631397

S631398

S631399

S631400

The claims were recorded on August 18, 1982 and at the time of writing are in good standing.

3.2 LOCATION AND ACCESS

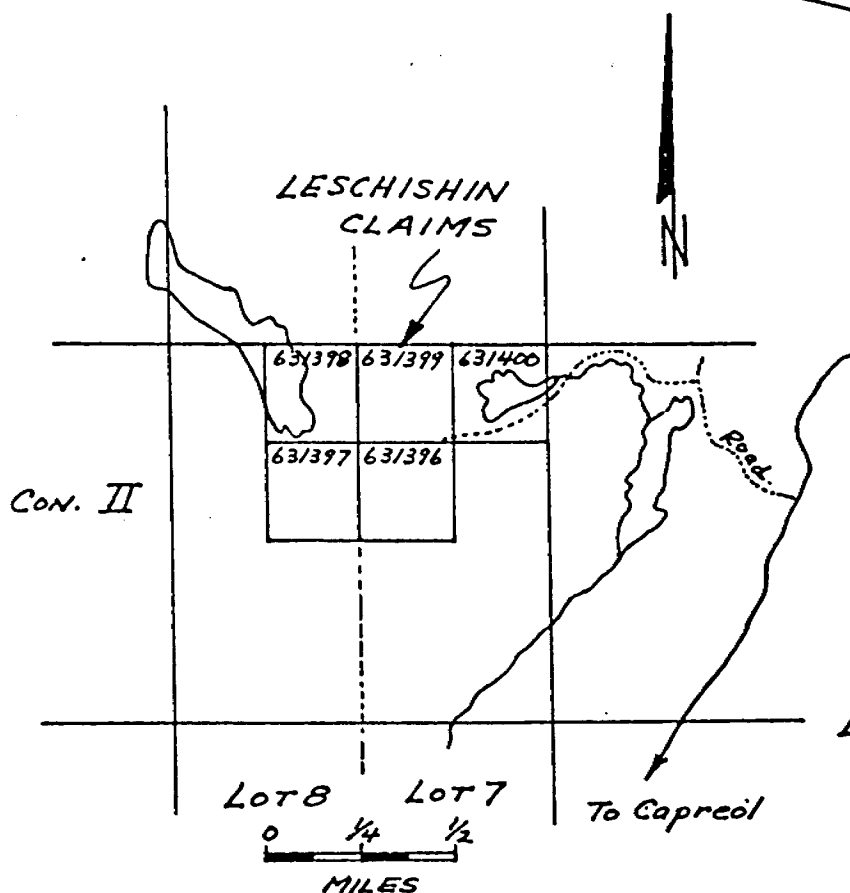
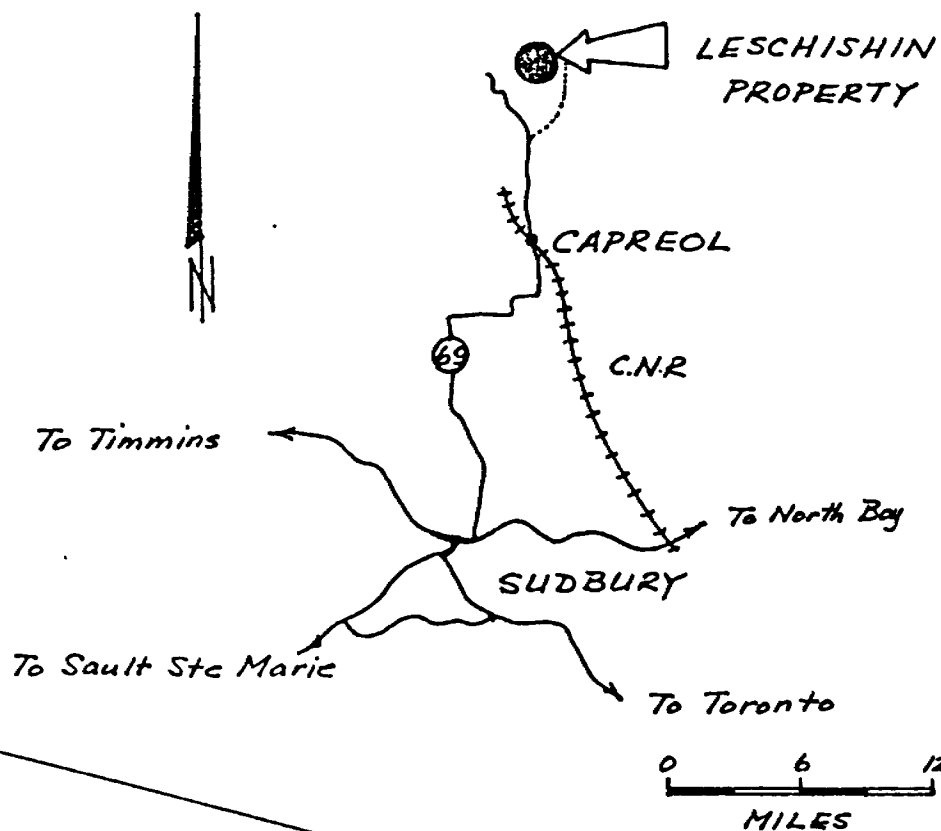
The 5 claims are located in south-central Parkin Township in lots 7 and 8 of Concession 2. (Figure 1) at 46°-50'N latitude, 80°-53'W longitude, approximately 30 miles (50 km) north of Sudbury, Ontario.

The claim group is easily reached by road from Sudbury, Ontario, via highway 69 and regional road 84 north to Capreol then a further 3.6 miles (6.0 km) on regional highway 545 to a gravel road turning northeast from the highway. This gravel road is followed north another 6 miles (10 km) at which point a well travelled lumber road travels west 1.6 miles (2.7 km) to the property.

3.3 SERVICES

The Leschishin claim group is approximately 11 miles (17.5 km) by road from Capreol, on the main line of the C.N.R., and 30 miles from Sudbury. Services are available in both of these centres which could supply an experienced work force in the event of future production. A transmission line of Ontario Hydro lies approximately 1.5 miles (2.5 km) west of the property.

Lakes on the property could provide an adequate water supply.



CON. II



FIGURE 1
LESCHISHIN CLAIMS
LOCATION &
CLAIM MAPS

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SW

After Claim Map M.1049 Parkin Twp.

3.4 TOPOGRAPHY AND VEGETATION

The topography of the area is typical of this part of the Canadian Shield; relief is generally low but the terrain can be very rugged. Rock exposure is poor because of an extensive cover of glacial till, sand and gravel.

There is limited timber and pulp wood cutting in the area with the timber being in mixed stands of spruce, pine, poplar and birch. Cedar and alders predominate in the low lying areas.

4. PREVIOUS WORK

There are no records to support the conclusion but, from the size of the trees growing in and around old trenches it is considered that the extensive trenching on the property dates from the 1930's.

The first recorded work in the assessment files of the Ontario Ministry of Natural Resources is by Norpax Oils and Minerals Limited who explored a large block of ground which includes the 3 most northerly claims in the Leschishin group. Two holes were drilled on the south shore of Island Lake on claim 631398 to test a magnetic anomaly, but no economic mineralization was encountered. The claims were subsequently dropped.

In the northern part of claim 631398 a 42 foot long hole was drilled at a later date but nothing of economic significance was intersected.

Between December 1978 and March 1979 Midpines Exploration Inc. drilled 3 holes in the northeast corner of claim 631396 apparently under the old trenches while a fourth hole was drilled to the north, for a total of 1,242 feet. The core was logged as volcanics and only one sample of core was taken. Since the results of this sample were trace oz Au/T across 5 feet, it appears that no further work was done on the property.

The present owner of the claims, Mr. E. Leschishin, has extended a lumber road to the edge of the area where the old trenches are located and has done a small amount of power stripping.

5. GEOLOGY

5.1 REGIONAL GEOLOGY

In this part of the Canadian Shield Archean metavolcanics which have been intruded by granitoid plutons are unconformably overlain by sediments of the Huronian Supergroup.

In Parkin Township, the main Archean-Huronian contact trends northwesterly across the area from the southeastern corner of the township. To the southwest of this line the Archean metavolcanics are mafic to felsic in composition, trend northwesterly and dip steeply. The extreme southwestern corner of the township is underlain by granodiorite and quartz monzonite.

Northeast of the Archean-Huronian unconformity the Huronian sediments trend northwesterly and dip from 90° to 50° northeast with some dips to the southwest. In Parkin Township the Mississagi Formation rests unconformably on the basement and in turn is overlain by the Bruce Formation and a thin discontinuous Espanola Formation. Overlying the Bruce and/or Espanola is the Serpent Formation which in turn is overlain by the Gowganda and Lorrain Formations..

All of the above units have been intruded by diabase dikes and sills and in south-central Parkin a northeast trending offset of the Sudbury Nickel Irruptive is present.

There are two dominant directions of faulting; northwest, parallel to the rock contacts and northeast, perpendicular to the contacts. All rocks appear to be folded along northwest trending fold axes.

Following a prolonged period of erosion the area was glaciated during the Pleistocene epoch.

The main lithologic units and their age relationships is presented in Table 1.

TABLE 1
Table of Lithologic Units - Parkin Township

CENOZOIC

Recent

Fluvial clays and silts, and swamp deposits

Pleistocene

Clay, sand, gravel, and till

Unconformity

PRECAMBRIAN

PROTEROZOIC

Younger Diabase Intrusions

Olivine diabase

Intrusive Contact

Nickel Irruptive

Quartz diorite breccia (Parkin offset)

Intrusive Contact

Older Diabase Intrusions

Quartz diabase and diorite

Intrusive Contact

HURONIAN

Cobalt Group

Lorrain Formation

Quartzite

Faulted Contact

Gowganda Formation

Argillite, quartzite, and conglomerate

Unconformity

Bruce Group

Serpent Formation

Quartzite and conglomerate

Espanola Formation

Limestone, marble, and greywacke

Bruce Formation

Conglomerate and quartzite

Mississagi Formation

Quartzite, argillite, and conglomerate

Great Unconformity

Faulting

ARCHEAN

Mafic Intrusive Rocks

Amphibolite, metagabbro, and metadiabase

Intrusive Contact

Granitic Rocks (Algoman)

Pink and grey granodiorite and quartz
monzonite, granitic gneisses and
migmatites, and porphyritic granite

Intrusive Contact

Felsic Metavolcanics

Rhyolite, rhyolite breccia, porphyritic
rhyolite, felsic tuffs, and pyroclastics

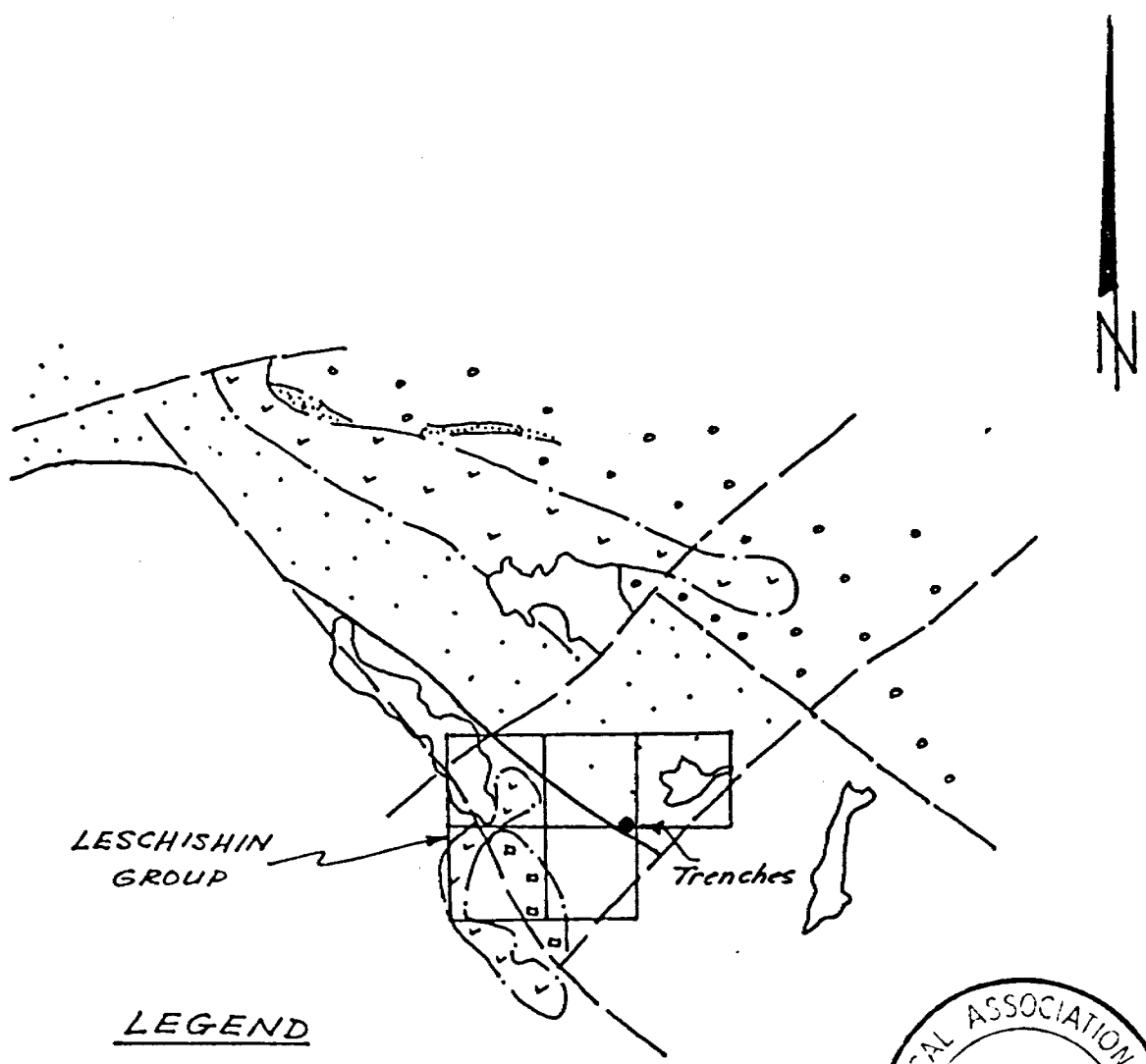
Mafic Metavolcanics

Massive basalt, pillow lavas, and poorly
to well banded mafic to intermediate
flows, and iron formation

5.2 PROPERTY GEOLOGY

The general geology of the property is shown in Figure 2. As can be seen from this figure, claims 631399 and 631400 are dominantly underlain by quartzites of the Mississagi Formation. The northwestern claim and the two southern claims are mainly underlain by metavolcanics, a small granodiorite intrusive and diabase. The southeastern boundary of the sediments is a northeast striking fault.

The writer's field investigation has indicated that



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










-  Diabase
-  Intrusive Contact
-  SERPENT FORMATION
-  HURONIAN SUPERGROUP Espanola Formation
-  Mississagi Formation
-  Unconformity
-  ARCHEAN Granodiorite
-  Metavolcanics
-  Archean-Huronian Contact
-  Fault
-  Geological Contact



FIGURE 2
LESCHISHIN CLAIMS
GEOLOGY

1" = 1/4 mile.

Aug. 8:83
AW.

the area of gold mineralization occurs within the quartzites of the Mississagi Formation which in turn are overlain to the north by argillites. These units trend approximately east-west to 075° in this area and dip steeply north. The actual Mississagi-Archean contact ^{cannot} be seen in this area but the gold mineralization occurs within a few hundred feet of this unconformity.

The gold mineralization occurs in chloritized quartzite which also contains small irregular quartz-carbonate veins and abundant disseminated pyrite and in some cases minor chalcopryite. In a series of old trenches which are now partly soil and water filled, this zone of pyritized and altered sediment can be traced along strike to the east to beyond the claim boundary and for approximately 200 feet to the west.

6. ECONOMIC POTENTIAL

The main showing was sampled by the writer and the results are presented in Figure 3. The mineralized zone is best exposed in Trenches 2, 3 and 4 where it has a strike length of 60 feet, an average width of 4.5 feet and an average grade of 0.22 oz Au/T. It would appear that the main zone passes south of Trench #1 under thick overburden. There is some evidence of cross-faulting in the area of trenches 3 and 4 and it is considered that the main mineralized zone may lie under thick overburden south of the more westerly trenches which are mainly debris and water filled at this point.

As indicated under previous work, section 4, the assessment files of the Ontario Ministry of Natural Resources indicate that 3 short drill holes were drilled approximately under this showing in early 1979 by Midpines Exploration Inc. The casings were all pulled and it is now difficult to determine the exact location of the holes. The core was all logged as volcanics and only 1 sample was taken from this core. Since the surface exposures are in steeply dipping sediments it

is considered that the rock types were misinterpreted in the logging.

In view of the recent discoveries of gold in Huronian sediments at Wolf Lake to the east and Scadding Township to the southeast it is suggested that this showing must be re-evaluated for its potential for strata-related gold mineralization, particularly in view of its proximity to the Archean-Huronian unconformity. The continuation of chloritized, pyritic zones in the sediments east of the main showings, along the strike of the sediments, would suggest the presence of a favourable horizon for exploration.

The Geological Branch of the Ontario Department of Mines has been investigating the potential of the Huronian sediments for gold mineralization for a number of years, based on models developed on the Witwatersrand in South Africa. The clastic Mississagi sediments, unconformably overlying Archean metavolcanics, is considered to be a favourable environment for the concentration of gold. Relative to this model, the presence of gold showings, with economically significant values, in the Mississagi sediments, close to the Archean unconformity on the Leschishin property are considered to make this an attractive exploration target. To assess this favourable geological environment an exploration program with a proposed budget are presented which is designed to test the potential of this claim group for strata-related gold mineralization.

7. PROPOSED PROGRAM AND BUDGET

The following program is presented in three phases; phase 1 consists of a surface exploration program to outline

related mineralization, phase

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7. PROPOSED PROGRAM AND BUDGET

The following program is presented in three phases; phase 1 consists of a surface exploration program to outline targets of interest and to test the concept of strata-related mineralization, phase 2 is a preliminary drilling program to be guided by the results of the phase 1 work and, phase 3 is a drilling program to be undertaken if the results of phase 2 are positive.

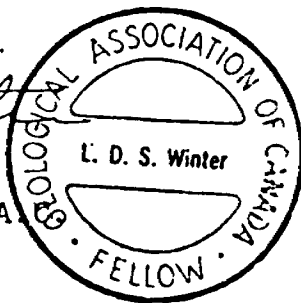
In summary, the total proposed budget is \$295,000 consisting of three phases; phase 1 at \$ 60,000 for surface exploration, Phase 2 at \$ 60,000 for preliminary diamond drilling, Phase 3 at \$ 175,000 for a more comprehensive drilling program as required.

L.D.S. Winter

L.D.S. Winter

B.A.Sc., M.Sc., F.G.A.

August 10, 1983



REFERENCES

- Long, D.G.F.,(1981): The Sedimentary Framework of Placer Gold Concentrations in Basal Huronian Strata of the Cobalt Embayment; in Summary of Field Work, 1981, p. 218-223, Ontario Geological Survey, ed. John Wood et al., Ontario Geological Survey Miscellaneous Paper 100, 255p.
- Meyn, H.D.,(1970): Geology of Hutton and Parkin Townships, Ontario Department of Mines, Geol. Report 80, p.78.
- Ontario Ministry of Natural Resources, Ontario Geological Survey, Assessment Files, Sudbury, Ontario.
Assessment Files Parkin Township,
Files, 0010-D1, 0013-C1, 0018-A1, 0023-B1.

CERTIFICATE OF QUALIFICATION

I, Lionel Donald Stewart Winter do hereby certify:

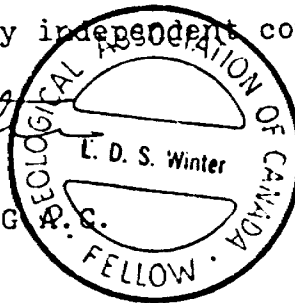
1. that I am a geologist and reside at 1849 Oriole Dr., Sudbury, Ontario,
2. that I am a Fellow of the Geological Association of Canada,
3. that I am a graduate from the University of Toronto in Mining Engineering in 1957 with a Bachelor of Applied Science and from McGill University, Montreal in 1961 with a Master of Science(Applied) in Geology,
4. that I have practised my profession continuously for 25 years,
5. that my report on the Leschishin property in Parkin Township is based on field work carried out by me and on published and unpublished reports on the property,
6. that I have no personal interest in the property of Mr. E. Leschishin, either direct or indirect, or in any adjacent properties, and I have written this report as a totally independent consultant.

L.D.S. Winter

L.D.S. Winter

B.A.Sc., M.Sc., F.G.A.C.

August 10, 1983.

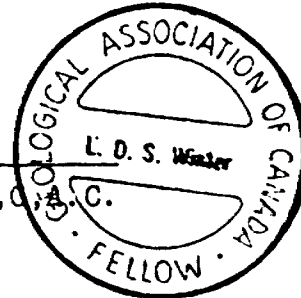


LETTER OF CONSENT



I, L.D.S. Winter, consulting geologist, 1849 Oriole Drive, Sudbury, Ontario, P3E 2W5, do hereby consent to the use, in part or in whole, of my report on the Leschishin property, Parkin Township, District of Sudbury, Ontario, dated August 10, 1983 in a prospectus or a statement of material facts. However, excerpts from this report may be made only with my express written permission.

Dated this 10th day of August, 1983

By: LDS Winter
L.D.S. Winter, B.A.Sc., M.Sc., F.G.A.C.

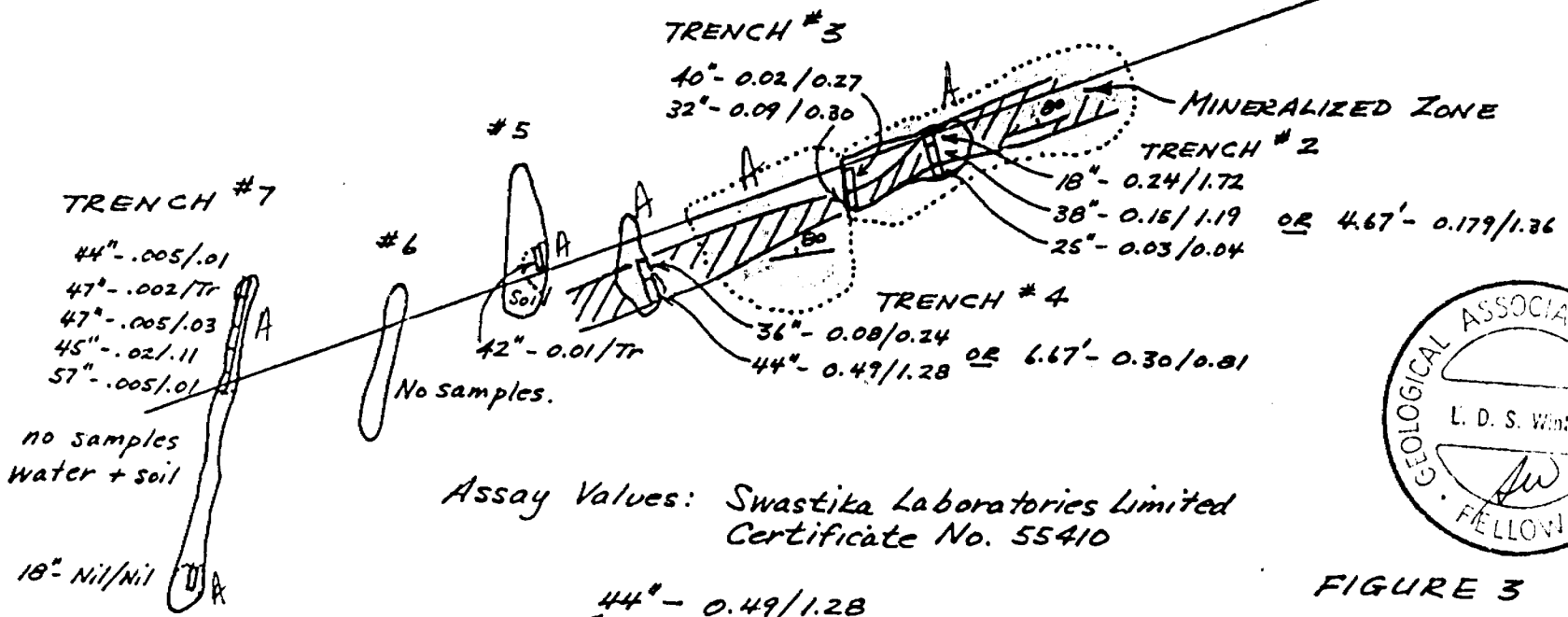
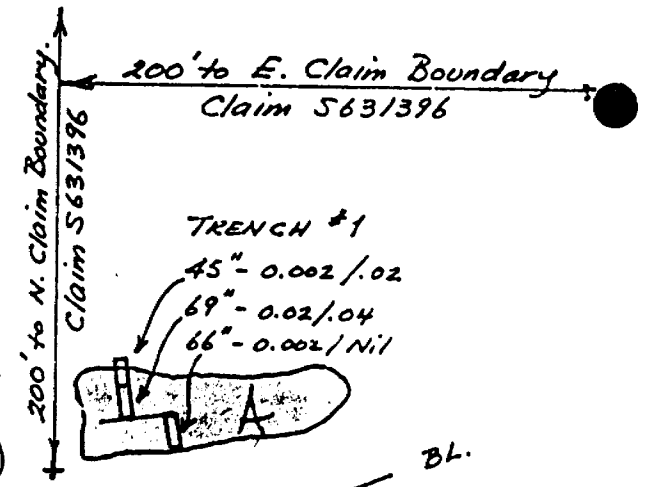


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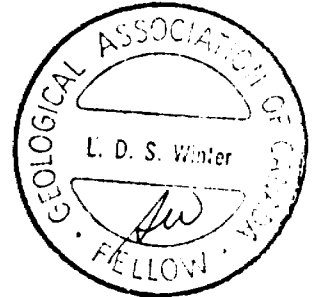
-  Trench
-  Outcrop outline

CLAIM S631396

Rock type: chloritized quartite.
(Mississagi Formation)



Assay Values: Swastika Laboratories Limited
Certificate No. 55410



44" - 0.49 / 1.28
 ↑ ↑ ↑
 Sample length oz. Au / T. oz. Ag / T.
 in inches.

FIGURE 3
LESCHISHIN CLAIMS
TRENCHES
AND
SAMPLE RESULTS

1" = 30'

Aug. 8: 83



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE (705) 642 3244
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 55410

Date: July 20, 1983

Received July 14, 1983 17 Samples of Ore

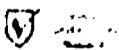
Submitted by Winterbourne Explorations Limited, Sudbury, Ontario

Attn: Mr. L. D. S. Winter

SAMPLE NO.	GOLD Oz./ton	SILVER Oz./ton
C-37074	0.24 0.24	1.72
C-37075	0.15 0.15	1.19
C-37076	0.03	0.04
C-37077	0.02	0.27
C-37078	0.09 0.09	0.30
C-37079	0.08 0.08	0.24
C-37080	0.49 0.50	1.28
Second Pulp	0.53	
C-37081	0.01	Trace
C-37082	0.005	0.01
C-37083	0.002	Trace
C-37084	0.005	0.03
C-37085	0.02	0.11
C-37086	0.005	0.01
C-37087	Nil	Nil
C-37088	0.002	Nil
C-37089	0.02 0.03	0.04
C-37090	0.002	0.02

G. Lebel - Manager

ESTABLISHED 1957





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900

August 26, 1983

INVOICE #49

Mr. B. Leschishin
E. C. Contracting Ltd.,
Box 45, Site 32, RR #3,
Sudbury, Ontario
P3E 4N1

RE
JAN 24 1984

MINING

RE: GEOLOGICAL REPORT - PARKING TWP. PROPERTY

Professional Fees:

L.D.S. Winter: 4 days @ \$300	\$ 1200.00
1 1/2 days property visit	
1/2 day - literature review	
2 days - report preparation	

Accountable Expenses

Typing	23.75
Photocopies	12.20
Assays	<u>398.75</u>

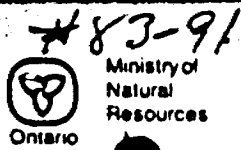
Total \$ 1634.70

Less- Paid on account 500.00

Balance \$ 1134.70

AR
VI

*Paid in Full. Oct 12, 1983
LDS Winter*



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

PARKIN TWP
(M. 1049)

FILE 5.631396

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

The Mining Act

2.5792

Type of Survey(s): **GEOLOGICAL REPORT**

Claim Holder(s): **EDWARD LESCHISHIN**

Address: **Box 45 Site 32 RR3 SUDBURY, Ontario P3E 4N1**

Survey Company: **WINTERBOURNE EXPLORATIONS LTD.**

Name and Address of Author (of Geo-Technical report): **L.D.S. WINTER, 1849 Oriole Dr. SUDBURY, Ontario P3E 2W5**

Date of Survey (from & to): **11 07 83 to 04 08 83**

Total Miles of line Cut: _____

Township or Area: **PARKIN (M. 1049)**

Prospector's Licence No.: **C 33916**

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	
	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.
S	631400	15			
	631396	60			

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SEP 9 1983
MINING LANDS SECTION
Reports Attached

Expenditures (excludes power stripping)

Type of Work Performed: **GEOLOGICAL INVESTIGATION**

Performed on Claim(s): **631396**

Calculation of Expenditure Days Credits

Total Expenditures: **S 1634.70** + **15** = **109** 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.

Total number of mining claims covered by this report of work: **2**

For Office Use Only

Total Days Cr. Recorded: **109**

Date Recorded: **Sept 8/83**

Date Approved as Recorded: **Feb 3/84**

ACTING Mining Registrar: **[Signature]**

Branch Director: **[Signature]**

Date: **18/05/83**

Recorded Holder or Agent (Signature): **[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: **L.D.S. WINTER, 1849 Oriole Drive, SUDBURY, Ontario P3E 2W5**

Date Certified: **Aug. 11, 1983**

Certified by (Signature): **LDS Winter**



Ministry of
Natural
Resources

Geotechnical
Report
Approval

File
2.5792

Sept 15

Mining Lands Comments

- accept required
 - geology map not obtained
 - claim #'s not shown on map.

To: Geophysics

Comments

Approved

Wish to see again with corrections

Date

Signature

To: Geology - Expenditures

C. Kusna

Comments
 If you are returning for the above, ask for colored map and claim #'s. @ Kenzie etc

Approved

Wish to see again with corrections

Date

Oct 25/83

Signature

Kusna

To: Geochemistry

Comments
 L.D.

Approved

Wish to see again with corrections

Date

Signature

To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)

WINTERBOURNE EXPLORATIONS LTD.
1849 ORIOLE DRIVE
SUDBURY, ONTARIO
P3E 2W5

TEL: (705) 522-7789

August 17, 1983

On account with:
Mr. E. Leschishin,
Box 45, Site 32, RR# 3,
Sudbury, Ontario

Re: Geological Work and Report, Parkin Township

Professional Fees:

L.D.S. Winter, 4 days @ \$300	\$ 1200.00
Property visit, 1½ days	
Review of literature, ½ day	
Report preparation, 2 days	

Accountable Expenses:

Typing expense	23.75
Photocopies	12.20
Assays	398.75

TOTAL	<u>\$ 1634.70</u>
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L.D.S. Winter

RECEIVED

SEP 9 1983

MINING LANDS SECTION

631396

2.5792

1983 09 12

Mr. V.C. Miller
Mining Recorder
Ministry of Natural Resources
199 Larch Street
Sudbury, Ontario
P3E 5P9

Dear Sir:

We have received data for Geological Investigation submitted under Section 77(19) of the Mining Act RSO 1980 for mining claims S 631396 and S 631400 in the Township of Parkin.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-1380

A. Barr:mc

cc: Edward Leschishin
Box 45
Site 32
R.R.#3
Sudbury, Ontario
P3E 4N1

cc: L.D.S. Winter
1849 Oriole Drive
Sudbury, Ontario
P3E 2W5

December 9, 1983

2.5792

Edward Leschishin
Box 45
Site 32
R.R.#3
Sudbury, Ontario

Dear Sir:

RE: Geological Investigation submitted for
mining claims S 631396 and S 631400 in
the Township of Parkin

Enclosed are the plans, in duplicate, for the above-mentioned
survey. Please return with:

- a) receipts or cancelled cheques for work
completed
- b) claim lines and claim numbers shown on
maps
- c) geological outcrops designated by colour
code

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-1380

M. Anderson:mc

cc: Mining Recorder
Sudbury, Ontario

Encl.

Phase 1

1. Line-cutting: lines 200 feet apart. 11 line miles @ \$300 per line-mile	\$ 3,300	
2. Geophysical surveys: Magnetometer survey: to outline the distribution of the various rock units 11 line miles @ \$100 per line mile	1,100	
Induced Polarization Survey: to outline areas of disseminated sulphide mineralization 11 line miles @ \$1000 per line-mile	11,000	
3. Geochemical Soil Sampling and Analysis: to detect areas of heavy metal concentration 500 samples @ \$18.00 per sample	9,000	
4. Detailed Geological Mapping	2,000	
5. Power stripping, trenching, sampling and assaying	20,000	
6. Program supervision, report preparation etc.	8,600	
	<hr/>	
Sub-total	55,000	
	<hr/>	
Contingency 9%	5,000	
	<hr/>	
Total Phase 1	60,000	\$60,000
	<hr/>	

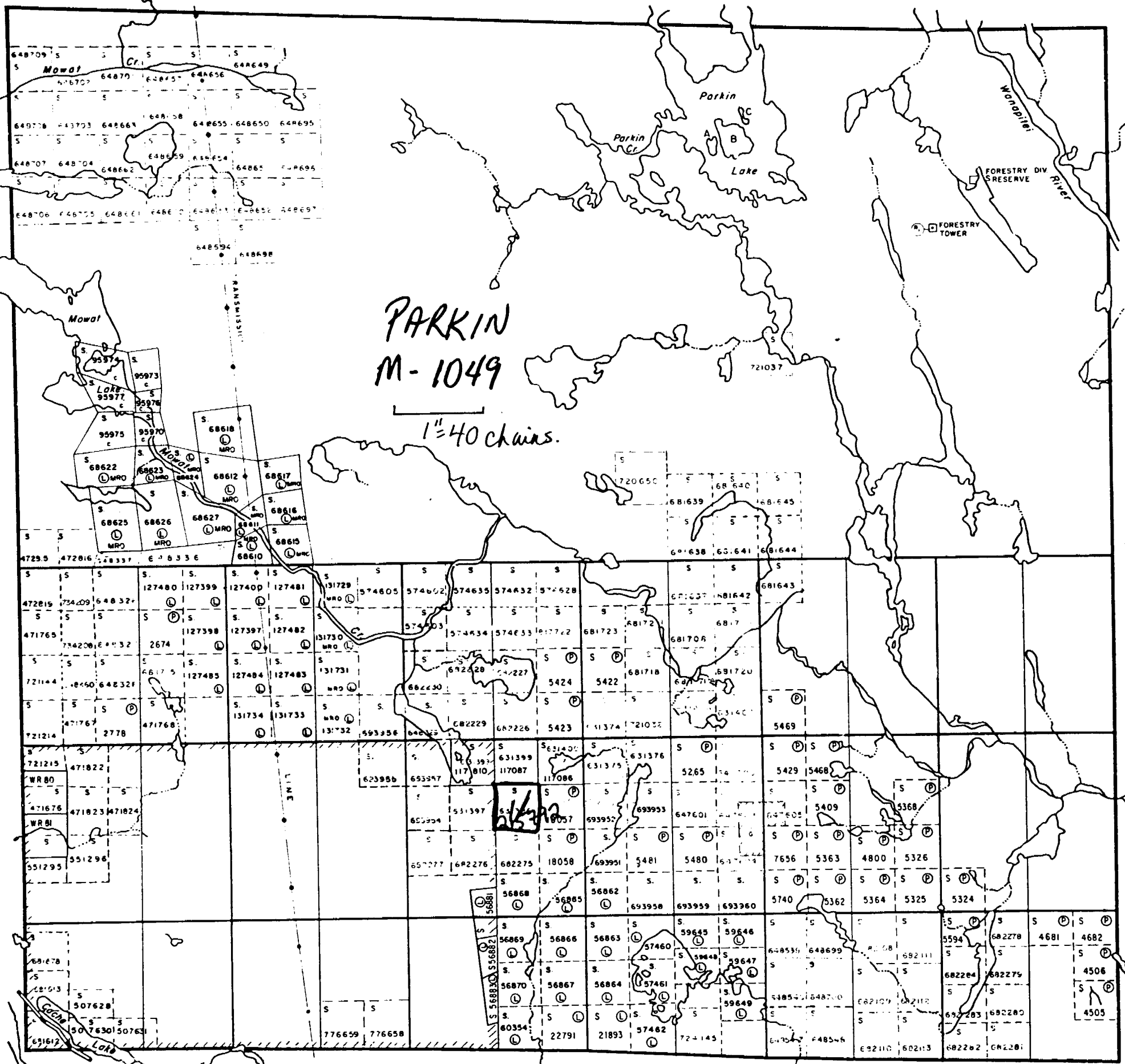
Phase 2

Preliminary diamond drilling program 2000 ft @ \$25 per foot.	\$ 50,000	
Supervision, logging, sampling, assaying and contingency	10,000	
	<hr/>	
Total Phase 2	\$ 60,000	\$60,000
	<hr/>	

Phase 3

Diamond drilling program as follow-up to Phase 2: 6000 feet @ \$25 per foot	\$ 150,000	
Supervision, logging, sampling, assaying and Contingency	25,000	
	<hr/>	
Total Phase 3	\$ 175,000	175,000
	<hr/>	

TOTAL PROPOSED BUDGET	<hr/>	\$ 295,000
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PARKIN
M-1049
1" = 40 chains.

12 11 10 9 8 7 6 5 4 3 2

DATE OF ISSUE
FEB 2 1984