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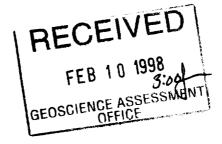
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# "EMPRESS EAST PROPERTY"

Recommendation for Exploration

Prepared by:

Maurice Lavigne Matawin Mineral Exploration August 26, 1997



#### **EXECUTIVE SUMMARY**

Landis Mining Corp's East Empress property in the Schreiber-Hemlo Greenstone belt was evaluated by an examination of records of previous exploration activity and a property visit. Gold mining at the adjacent "Empress Mine" property at the turn of the century, exploration then, in the 1930's and 1980's, has defined a gold bearing structure, the "Empress Structure" that can be traced for a minimum length of two kilometers. The structure is well mineralized over widths of 100 meters. The western portion of the structure was reasonably well explored but the eastern portion, whose strike length is still open to the east, has seen only minimal surface exploration. This is despite the fact that the highest assays generated from recent surface sampling come from this area. This includes samples taken by the author during a site visit. A 20 pound composite grab sample representing a width of 10 feet in quartz, assayed 22.97 g/t Au, and a 5 foot chip sample of the wallrock (pyritic, siliceous sericite schist) assayed 2.37 g/t Au. This site has yet to be systematically and thoroughly evaluated. The "Empress Structure" is a gold bearing hydrothermal system that has a high discovery potential. It is recommended a comprehensive surface exploration program be carried out to define the gold bearing zones, and that this be followed by diamond drilling to establish the mineral resource.



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## INTRODUCTION

Matawin Mineral Exploration was commissioned by Abraham Drost, S.D.A. Geological Services, to generate mineral exploration recommendations for Landis Mining Corp.'s "Empress East Property" in the Schreiber-Hemlo Greenstone Belt (see figure 1). The recommendations are based on an evaluation of previous exploration activities and a one day site visit on August 13<sup>th</sup>, 1997. This visit was led by prospectors John and Audrey Ferguson to a series of recently discovered old trenches which align themselves in a southwesterly strike direction, leading onto the adjacent mining claim containing the Empress Mine, a minor past gold producer. This visit consisted of an examination and sampling of these trenches, as well as examining rocks on strike. This examination was therefore restricted to mining claims # 1208190 and 1208188 (see figure 2).

## LOCATION AND ACCESS

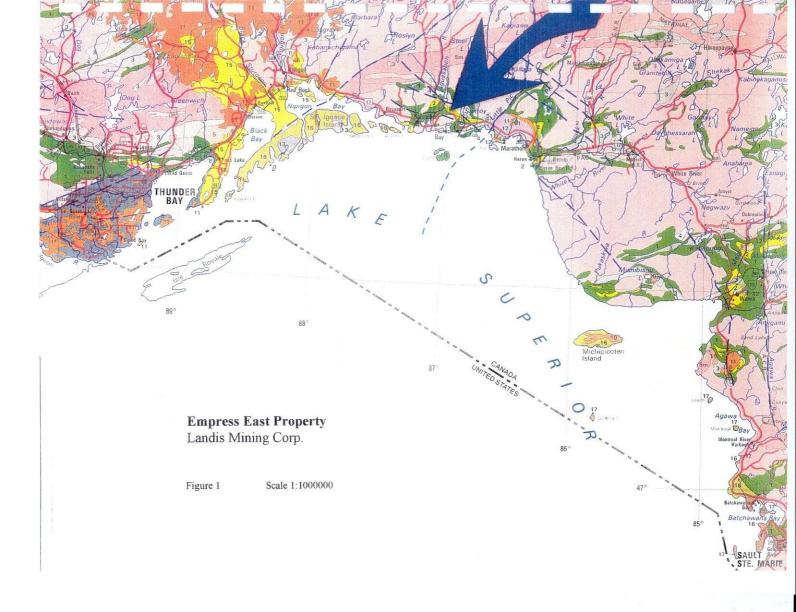
Landis Mining Corp.' "Empress East" property consist of 17 contiguous unpatented mining claims (67 units, claim number's 1207879, 1207897, 1207880,1207878, 1208189, 1208187, 1208190, 1195779, 1224856, 845646, 1224855, 1210334, 1208719, 1224888, 1224854), and an additional non-contiguous claim (4 units, 1207882) (see figure 2), at the north end of Syine Twp.( Map G-634) and in the Santoy Lake area (Map G-612) to the north, in the Thunder Bay Mining Division, Province of Ontario, Canada. The southern part of the property is traversed by Trans-Canada Hwy 17 along the north shore of Lake Superior. The highway leads to the communities of Terrace Bay, 20 km to the west, and Marathon, 60 km east. A well maintained gravel road leads into the area of greatest interest on the property.

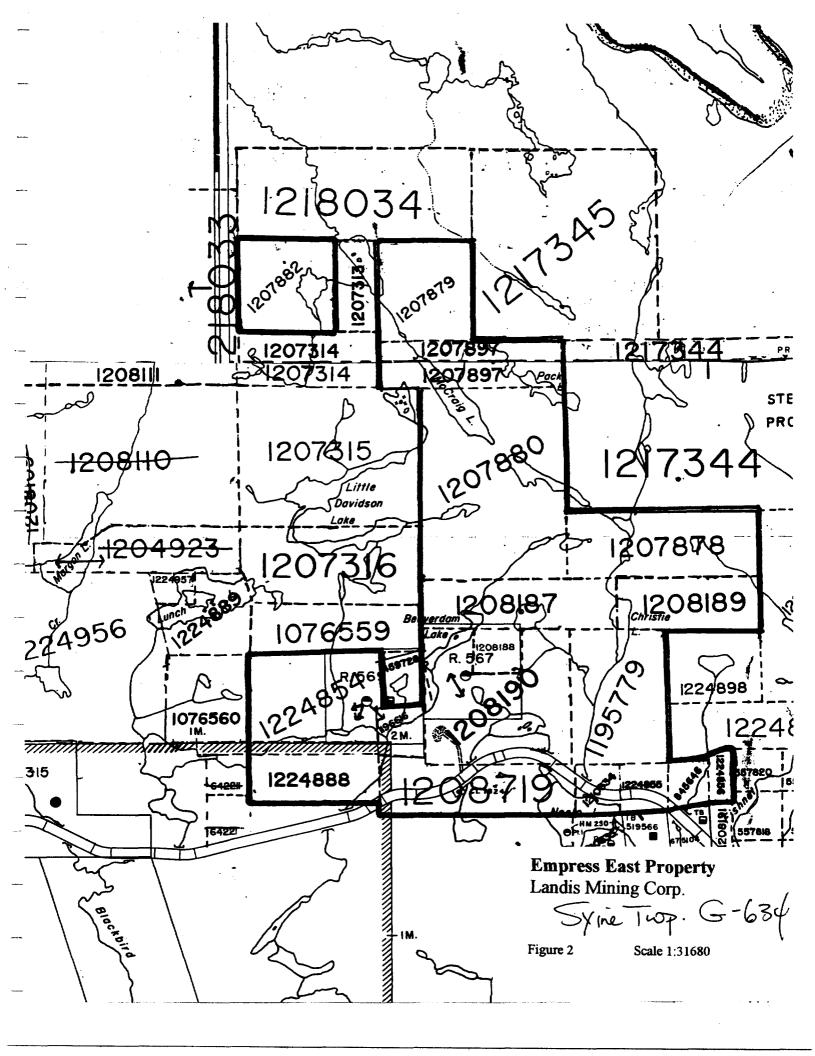
#### **REGIONAL GEOLOGY**

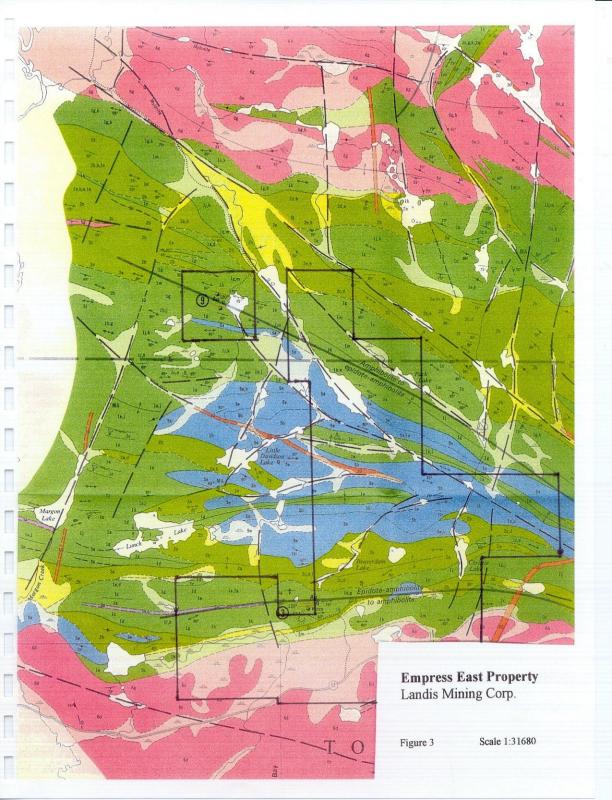
The former Empress Mine lies within the Schreiber-Hemlo greenstone belt. The immediate area is underlain by both mafic and felsic volcanic flows and fragmentals (see figure 3). Siliceous interflow sediments, often sulphide bearing and graphitic, lies within the same stratigraphy as the mine. The core of the greenstone belt in this area contains a large volume of gabbroic intrusives and the belt is bound to the south by the Terrace Bay Batholith. This batholith has metamorphosed the rocks to amphibolite facies.

## **EXPLORATION HISTORY**

The adjacent Empress Mine was developed in the period of 1895-99 and produced no less than 112 ounces of gold from 1100 tons of ore. The property was extensively re-evaluated in 1936-37. The old trenches found on the Empress East property can be attributed to the later of these two periods of activity. The Empress Mine property lay dormant until the 1970's and the only significant activity on the Empress East property was undertaken by Micham Exploration Inc. from 1982 to 1984 under the supervision of David R. Bell Geological Services. A program of geological mapping, rock and soil sampling; magnetic, VLF-EM and IP geophysical surveys; and diamond drilling were carried out. This work defined the "Empress Structure", a series of moderate to strong IP anomalies and Au, Cu, Zn anomalies coincident with quartz veining in the







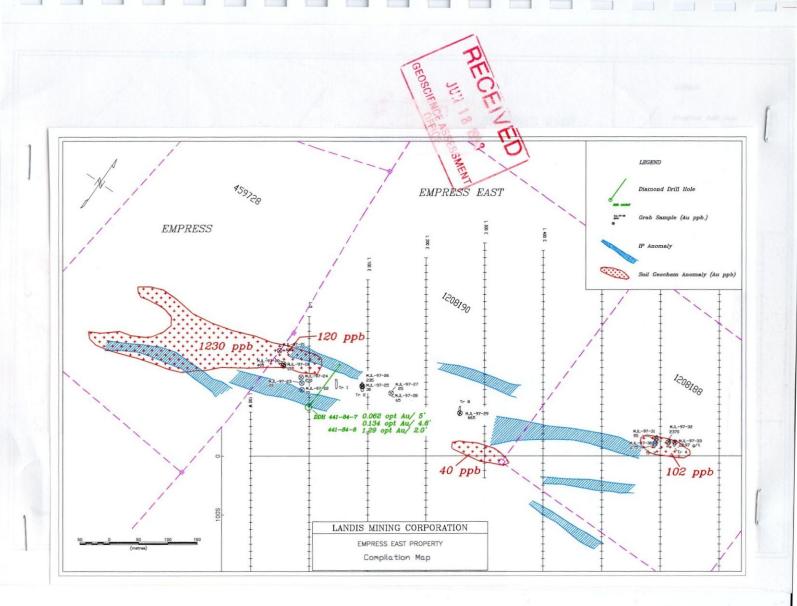
area of the Empress Mine adit and extending east onto the present day Empress East property (see figure 4).

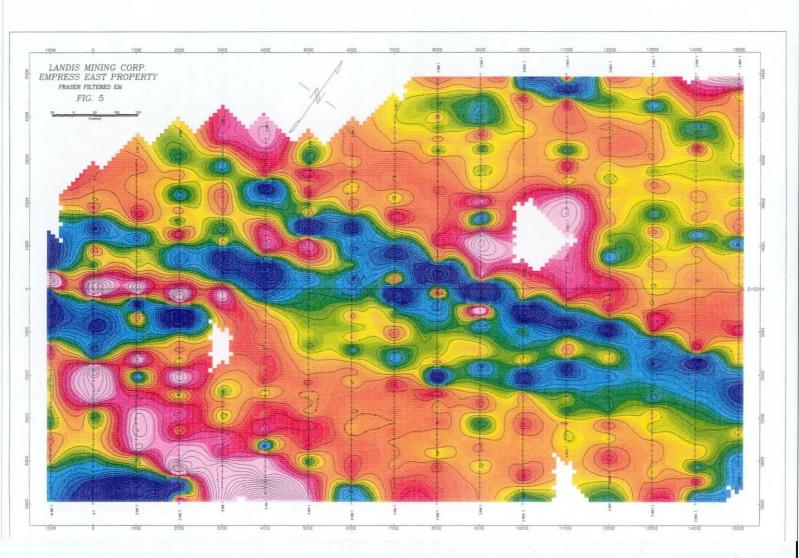
Micham Exploration Inc. conducted an 8 hole diamond drilling program at 200 foot centers, extending from the Empress Mine east to Beaverdam Creek, well within the Empress East property. The eastern most two holes (see figure 4), 441-84-7 and 441-84-8 were drilled from the same collar location at -50 degrees and -80 degrees to test an IP anomaly. These holes intersected a "carbonatized sericitic shear" from 48.0' - 184.1' (441-84-7) and 51.0' - 203.0' (441-84-8). The carbonate-sericite shear contained gold values in DDH 441-84-7 of 0.62 opt Au over 5' (117.0' - 122.0') and 0.134 opt Au over 4.6' (130.4' - 135.0'). These values occur within a 60' wide pyritic envelope of elevated gold values up to 588 ppb Au (85.0' - 145.0'). The follow-up hole, DDH 441-84-8, intersected 1.29 opt Au over 2' (163.9' - 165.9') within a 100' wide envelope of elevated gold values up to 704 ppb Au. Similar targets east of Beaverdam Creek, where IP anomalies coincide with soil geochemical anomalies were not tested by this drilling program.

## **CURRENT PROGRAM**

During the fall of 1996, the prospectors who vended the property to Landis Mining Corp., resampled the many trenches located on a geological map produced by Micham Exploration. They also discovered additional trenches. Surface grab samples taken by Terry Needham, Big Lake Geological Services, from a series of 8 old trenches 300 meters east of Beaverdam Creek, on claim 1208190, returned geochemically anomalous gold values from the host sericite schist, and values as high as 0.692 opt Au from pyritic quartz vein material. Grab samples of quartz veins collected and assayed by the Ontario Geological Survey from one of these trenches assayed 0.30 opt Au and 0.16 opt Au. Samples MJL-97-019 to 029 (appendix A), taken by the author confirm that both the sericite schist and the quartz veins exposed in these eight trenches (an additional trench and an additional pit were located during this visit) contain gold. It is noteworthy that two of the higher values were composite grab or chip samples. These trenches are regularly spaced over a distance of 300 meters, in a linear fashion, the "Empress Structure". They expose large quartz veins, many in the 5 foot range, hosted by sericitic schist, variably siliceous, sometimes biotitic, containing variable amounts of pyrite, up to 8%, as fine disseminations, and traces of chalcopyrite. In one trench, the pyritic wallrock was exposed for 75 meters, across strike. The quartz veins contain erratically distributed blebs of pyrite, pyrrhotite, chalcopyrite, galena and sphalerite.

Sample results produced by Terry Needham from a series of 4 trenches 350 meters to the northeast, on claim 1208188, where Micham has two trenches on their geological map (see figure 4), returned values of a weighed average of 0.10 opt Au over 10' in a random chip sample of sericite schist, with 5-7% disseminated pyrite and quartz stringers. Select grab samples of quartz veins yielded a high value of 0.478 opt Au. The average gold value of 17 select grab samples in this area was 0.137 opt Au. The six samples collected by the author in this area confirm the previous results. A 20 pound composite grab sample representing a width of ten feet in the fourth trench of sulphide bearing quartz vein assayed 22.97 g/t Au. This vein contained 3-5 % pyrite as blebs, and traces to 0.5 % galena as stringers and traces of chalcopyrite. In the third trench, a five





foot chip sample of sericitic, siliceous, pyritic wallrock assayed 2.37 g/t Au. The exposed, across strike width of the pyritic wallrock at this location is 30 meters.

I.P. anomalies on maps produced by Micham, and a recent VLF survey (see figure 5), suggest the westernmost eight trenches are contained within the same structure, the "Empress Structure", as the easternmost four trenches, a minimum strike length of 650 meters on the Empress East property alone. A quick follow-up of VLF anomalies 300 meters to the northeast resulted in the discovery of a pyritic zone, from which an assay of 775 ppb Au (sample MJL-97-35) was produced. Gold is now known to be associated with a VLF conductor over a strike length of one kilometer. The VLF conductor extends for an other 600 meters, to the eastern most grid line and the eastern boundary of the VLF survey. This area has yet to be prospected. The total strike length of this mineralized structures, if one includes the Empress Mine property, exceeds 2 kilometers.

## CONCLUSION AND RECOMMENDATIONS

Diamond drilling by Micham Exploration Inc in 1984 outlined significant gold values over narrow widths in sericite schist on the western portion of the Empress East property, on the "Empress Structure". Additional strike length to the east outlined by Micham's preliminary geochemistry and IP geophysical results was not tested by diamond drilling east of Beaverdam Creek.

Recent (1996) prospecting and surface rock sampling by the Vendors along strike and east of the Micham intersections has generated various gold values up to 0.69 opt Au in select grab samples of pyritic quartz vein material and a random chip sample of 0.10 opt Au over 10' int the host pyritized sericite schist. These values were confirmed by the author, 22.97 g/t Au (0.67 opt) for the quartz vein over 10', and 2370 ppb Au (0.07 opt) for the pyritized sericite schist over five feet. Based on assay values from surface sampling, which are highest at the easternmost trenches, Micham did not explore the most favorable part of the property. At this location, substantial widths of pyritic sericite schist are gold bearing, the full width, which could attain 100 meters, has not been fully exposed and assayed. The strike length of this target on the Empress East property is a minimum of 1.6 kilometers. The "Empress Structure" is a gold target worthy of exploration. Surface sampling on limited exposures has produced results that are indicative of a substantial volume of gold mineralization. Drill targets should be refined by conducting surface exploration.

## **WORK PROGRAM**

The minimum recommended first year program on the Empress East property, focused exclusively on the eastward extension of Micham results on the "Empress Structure", including the vicinity of the four trenches on claim 1208188, should include the following activities:

1) Cut an exploration survey grid over the area; 1.5 km baseline with 16 km of survey lines (approx. \$7000.00)

- 2) Ground magnetic and VLF-EM survey; digital processing coloured maps (approx. \$4000.00)
- 3) Backhoe power stripping; 48 hrs.@ 125.00 (crawler-type backhoe for steep terrain) (approx. \$6000.00)
- 4) Geological supervision, mapping and rock sampling, prospecting and follow-up of anomalies and favorable areas with fully equipped 2 person crew, including power washing of new strippings (\$20000.00)
- 5) Select IP geophysical survey (approx. \$3000.00)
- 6) B-horizon soil geochemistry (approx. \$4000.00)
- 7) Diamond drilling; 4000' of NQ drilling @ all-inclusive cost of \$40.00/ft (approx. \$160000.00)

Total: \$204000.00

## STATEMENT OF QUALIFICATIONS

## **EMPRESS EAST PROPERTY, LANDIS MINING CORP**

- I, MAURICE JEAN LAVIGNE, of 193 East Amelia Street, Thunder Bay, Ontario, P7E3Z5, do certify that:
- 1) I am a graduate of Brock University (H.B.Sc. Geology, 1979) and McMaster University (M.Sc. Geology, 1983);
- 2) I have practiced my profession for 18 years since my graduation from Brock University;
- 3) I have no beneficial interest in the property discussed in this report nor do I expect to receive any in the future.

Maurice Jean Lavigne August 26, 1997

Man Cert

APPENDIX

Assay results; samples collected by Maurice Lavigne on East Empress Property, August 13, 1997

Sample #	Description	Assay results
		(ppb Au)
MJL-97-19	5'x5'x3' deep pit at 0+40 W, 1+60 N; grab sample of siliceous, pyritic sericite schist	15
MJL-97-20	same loc. as 19, composite grab sample of 56" wide quartz vein	495
MJL-97-21	0+90 W, 1+75 N; chip sample of quartz vein across 3'	680
MJL-97-22	0+15 W, 1+15 N; grab; black, siliceous, biotitic, 2% diss py	15
MJL-97-23	0+15 W, 1+25 N; grab; sericite schist, diss py	20
MJL-97-24	0+15 W, 1+37 N; grab; sericite schist, diss py	230
MJL-97-25	0+93 E, 1+20 N; pit # 2, grab, qtz vein, w. sericite partings, diss py	30
МЛL-97-26	0+93 E, 1+20 N; pit # 2, grab, pyritic, sericite schist	235
MJL-97-27	1+40 E, 1+05 N; pit # 6, grab, pyritic, siliceous, biotitic	25
МЛ-97-28	1+40 E, 1+05 N; pit # 6, grab, qtz vein + w.r.	65
MJL-97-29	2+53 E, 0+85 N; pit # 8, grab, siliceous, sericitic, pyritic	665
MJL-97-30	6+00 E, 0+20 N; Gerlach Tr. # 2, grab, siliceous, sericitic, pyritic	275
MJL-97-31	6+00 E, 0+30 N; Gerlach Tr. # 2, 3 ft chip, w.r + qtz. veins	95
MJL-97-32	6+12 E, 0+20 N; Gerlach Tr. # 3, 5 ft chip, siliceous, sericitic, pyritic	2370
MJL-97-33	6+25 E, 0+20 N; Gerlach Tr. # 4, 10 ft composite grab, 20 lbs., qtz vein w. py, gal, cp	y 22970
MJL-97-34	9+05 E, 0+05 S; sheared rock with 10% py	25
MJL-97-35	8+98 E, 0+01 N; qtz rich gossan, py	775



# **Chemex Labs Ltd.**

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

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193 E. AMELIA ST. THUNDER BAY, ON P7E 3Z5

Project: EMPRESS

Comments: ATTN: MOE LAVIGNE

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Analytical Chemists \* Geochemists \* Registered Assayers

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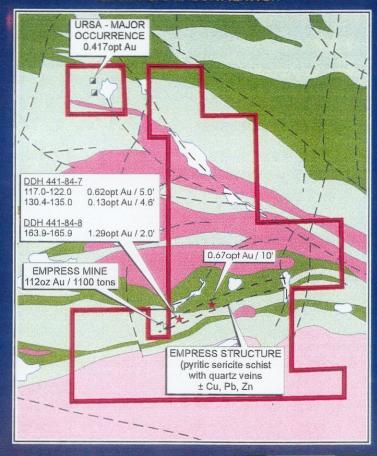
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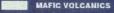
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# EMPRESS EAST PROPERTY SCHREIBER - HEMLO GREENSTONE BELT

GEOLOGICAL COMPILATION



#### LEGEND



INTERMEDIATE VOLCANICS

MAFIC INTRUSIVES

FELSIC INTRUSIVES

GOLD OCCURRENCE

LANDIS MINING CORP.
PROPERTY

LANDIS MINING CORPORATION (LIS - ASE)

PROPERTY

LOCATION

# **Ontario**

Ministry of Northern Development and Mines

# **Declaration of Assessment Work** Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990



subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the eview the assessment work and correspond with the mining land holder. Recorder, Ministry of Northern Development and Mines, 6th Floor,

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- Please type or print	t in ink.	
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- complete and - provide a ma	er notice to surface rights holde d attach a Statement of Costs, f	rs before starting work;
Person or companies who pre	-	
Maurice have	gne	Telephone Number (807)623-7257
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Certification by Recorded Hol	der or Agent	
Abraham P.D.	, do hereby certi	fy that I have personal knowledge of the facts
th in this Declaration of Assessm		rk to be performed or witnessed the same duri
after its completion and, to the b	pest of my knowledge, the annex	ted report is true.

Signature of Recorded Holder or Ag

the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form. Mining Claim Number. Or if Number of Claim Value of work Value of work Value of work Bank. Value of work work was done on other eligible Units. For other applied to this performed on this assigned to other to be distributed mining land, show in this mining land, list ning olaims. at a future date. column the location number hectares. indicated on the claim map TB 7827 16 ha \$26, 825 N/A \$2,825 eg \$24,000 1234567 12 0 \$24,000 eg 0 0 2 1234568 \$ 8, 892 \$ 4.000 eg 0 \$4,892 1 1208189 1200.00 1200.00 2 410.00 208190 610.00 3 4 5 6 7 8 9 10 11 12 13 14 15 1610.00 1610.00 1200.00 Column Totals , do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done Signature of Recorded Holder or Agent Authorized in Wr Instructions for cutting back credits that are not approved. Some of the credits claimed in this declaration may be cut back. Please check ( > ) in the boxes below to show how you wish to prioritize the deletion of credits: 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated. 2. Credits are to be cut back starting with the claims listed last, working backwards; or 3. Credits are to be cut back equally over all claims listed in this declaration; or 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe): Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary. For Office Use Only Received Stamp Deemed Approved Date Date Notification Sent Thunder Ba Mining Division Date Approved Total Value of Credit Approved FEB - 9 1998 Approved for Recording by Mining Recorder (Signature) RECEIVED 0241 (02/96)

Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to



Ministry of Northern Development and Mines

## Statement of Costs for Assessment Credit

Transaction Number (office use)

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and

Mines, 6th Floor, 933 Ramsey Lake Road,	Sudbury, Ontario, P3E 685.	. 1820	C.
Work Type	Units of Work  Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit	Total Cost
Field Visit, Sampling	1 day	#325.00/day	325.00
Research and	2 days	325.00 day	650.00
Recommendations for			
Exploration			
Associated Costs (e.g. supplies,	mobilization and demobilization).		
Assays 17-5am	npes	+7-125.00/ea	425.00
Transpo	ortation Costs		
Truck 600km		\$0.35/km	210.00
	nd Lodging Costs		
, DEC	EIVED		
FEC  Calculations of Filing Discounts:  1. Work filed within two years of p.  2. If work is filed after two years a Value of Assessment Work if it	Total Value of Total	f Assessment Work	1610.00.
Work filed within two years of p     If work is filed after two years a     Value of Assessment Work. If the	erformance is claimed at 100% of the and up to five years after performance his situation applies to your claims, us	, it can only be claimed	
TOTAL VALUE OF ASSESSME	NT WORK × 0.50 =	Total \$ valu	e of worked claimed.
	ed to verify expenditures claimed in the ection/clarification. If verification and/o		
Abrahan P. Direction (please print full name)	, do hereby certify, that the	amounts shown are as	accurate as may
esonably be determined and the accompanying Declaration of the	costs were incurred while conducting  Nork form as		. I am authorized
make this certification.  The Min	nunder Bay ing Division	company position with signing auti	nonity)
REC	- 9 1998 9.333 CEIVED	Date Date	29/02/98

Date

Ministry of Northern Development and Mines Ministère du Développement du Nord et des Mines

June 22, 1998

GEORGE RAY DANIELS 45 EAST GROVE CRESCENT BOX 526 TERRACE BAY, Ontario P0T-2W0



Geoscience Assessment Office 933 Ramsey Lake Road 6th Floor Sudbury, Ontario P3E 6B5

Telephone: (888) 415-9846 Fax: (705) 670-5881

Visit our website at:

www.gov.on.ca/MNDM/MiNES/LANDS/mlsmnpge.htm

Dear Sir or Madam:

Submission Number: 2.18209

**Status** 

**Subject: Transaction Number(s):** 

W9840.00057 Approval After Notice

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Bruce Gates by e-mail at gatesb2@epo.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,

ORIGINAL SIGNED BY

Blair Kite

Supervisor, Geoscience Assessment Office

Mining Lands Section

# **Work Report Assessment Results**

**Submission Number:** 

2.18209

Date Correspondence Sent: June 22, 1998

Assessor:Bruce Gates

**Transaction** Number

First Claim Number

Township(s) / Area(s)

Status

**Approval Date** 

W9840.00057

1208190

SYINE

Approval After Notice

June 19, 1998

Section:

17 Assays ASSAY 12 Geological GEOL

The revisions outlined in the Notice dated May 8, 1998, have been corrected. Accordingly, assessment work credit has been approved as outlined on the Declaration of Assessment Work Form accompanying this submission.

Correspondence to:

Recorded Holder(s) and/or Agent(s):

**Resident Geologist** 

Abraham Peter Drost

Thunder Bay, ON

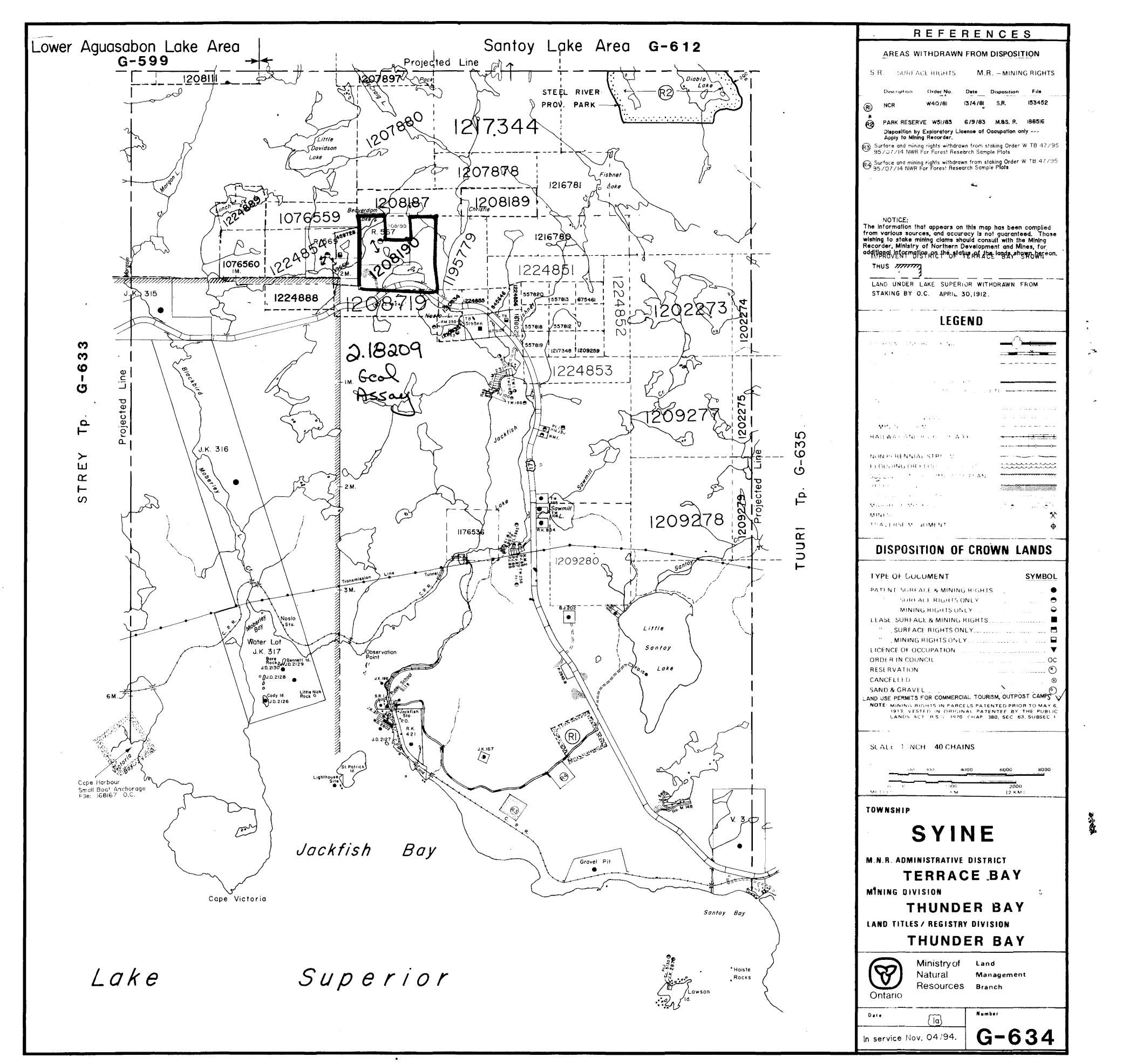
THUNDER BAY, ONTARIO

Assessment Files Library

GEORGE RAY DANIELS

Sudbury, ON

TERRACE BAY, Ontario



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