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GEOLOGICAL REPORT ON THE ORFORD RESOURCES LTD.

LIZAR, ERMINE AND LIPTON TOWNSHIP PROPERTY

Sault Ste Marie Mining Division Ontario

RECEIVED

by

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MINING LANDS SECTION

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Randy D. Maass H.BSC. Consulting Geologist October 28, 1988

DURHAM GEOLOGICAL SERVICES INC.

Box 1330 Timmins, Ontario P4N 7J8



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BACK POCKET:

GEOLOGY MAP ORFORD RESOURCES LTD. SCALE 1:5000 MAP 1 OF 3 GEOLOGY MAP ORFORD RESOURCES LTD. SCALE 1:5000 MAP 2 OF 3

GEOLOGY MAP ORFORD RESOURCES LTD. SCALE 1:5000 MAP 3 OF 3 Ø10C



This report represents the results of a geological mapping and prospecting program completed on the 200 claim, Orford Resources Ltd. property in Ermine, Lipton and Lizar townships.

The program was conducted in July and August of 1988 and was designed to determine the granitic versus volcano-sedimentary terrain on the property.

Reconnaissance mapping has revealed that the geology consists of three main rock types; mafic volcanics and sediments, granite and granodiorites, gneisses and migmatites. Later northwest and northeast trending diabase dykes have crosscut all other rock types.

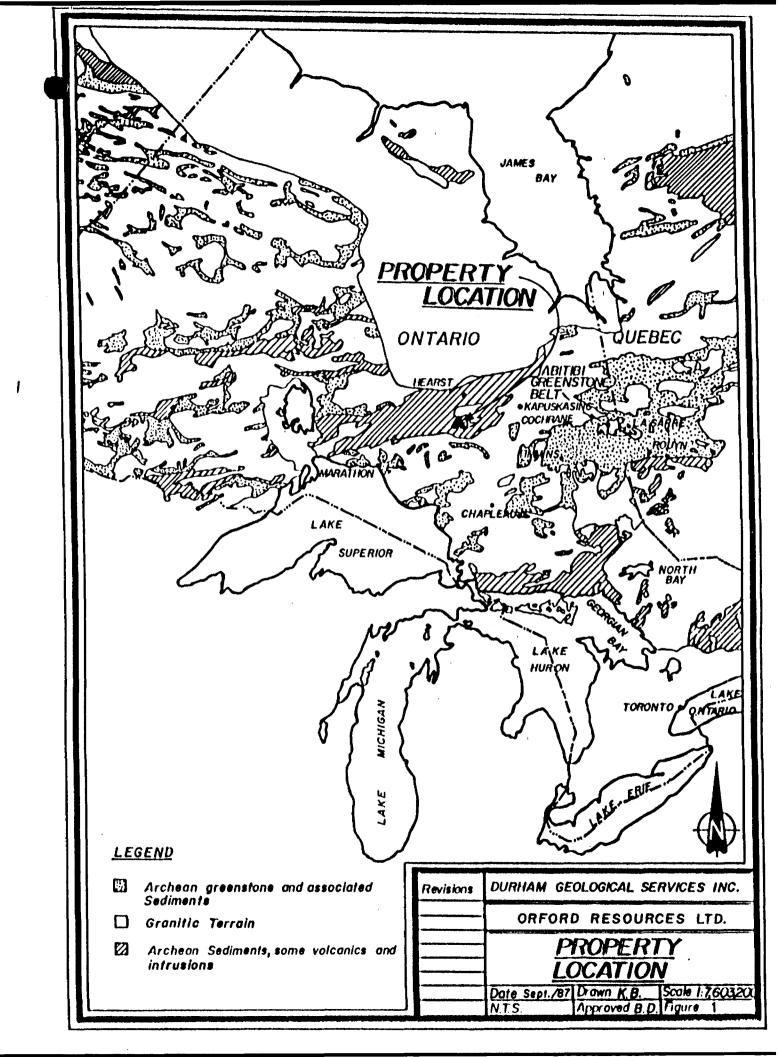


The property is located in Lizar, Ermine and Lipton townships, approximately 20 km. southwest of the small village of Oba, Ontario. Oba is a railway community located at the junction of the Algoma Central and Canadian National Railways, and is located approximately 110 km. south of Hearst, some 250 kilometres northwest of Timmins.

Oba is reached by first travelling south along Hwy. 583 for a distance of 40 km. and then travelling a further 70 km. south along a gravel road. From Oba, access to the property is by boat via the Oba River, a series of small lakes and two portages southwest to Kabinakagami Lake. The most practical access to the property is by a 70 km. float plane trip from Hearst or a 100 km. float plane trip from Hawk Junction.

PROPERTY

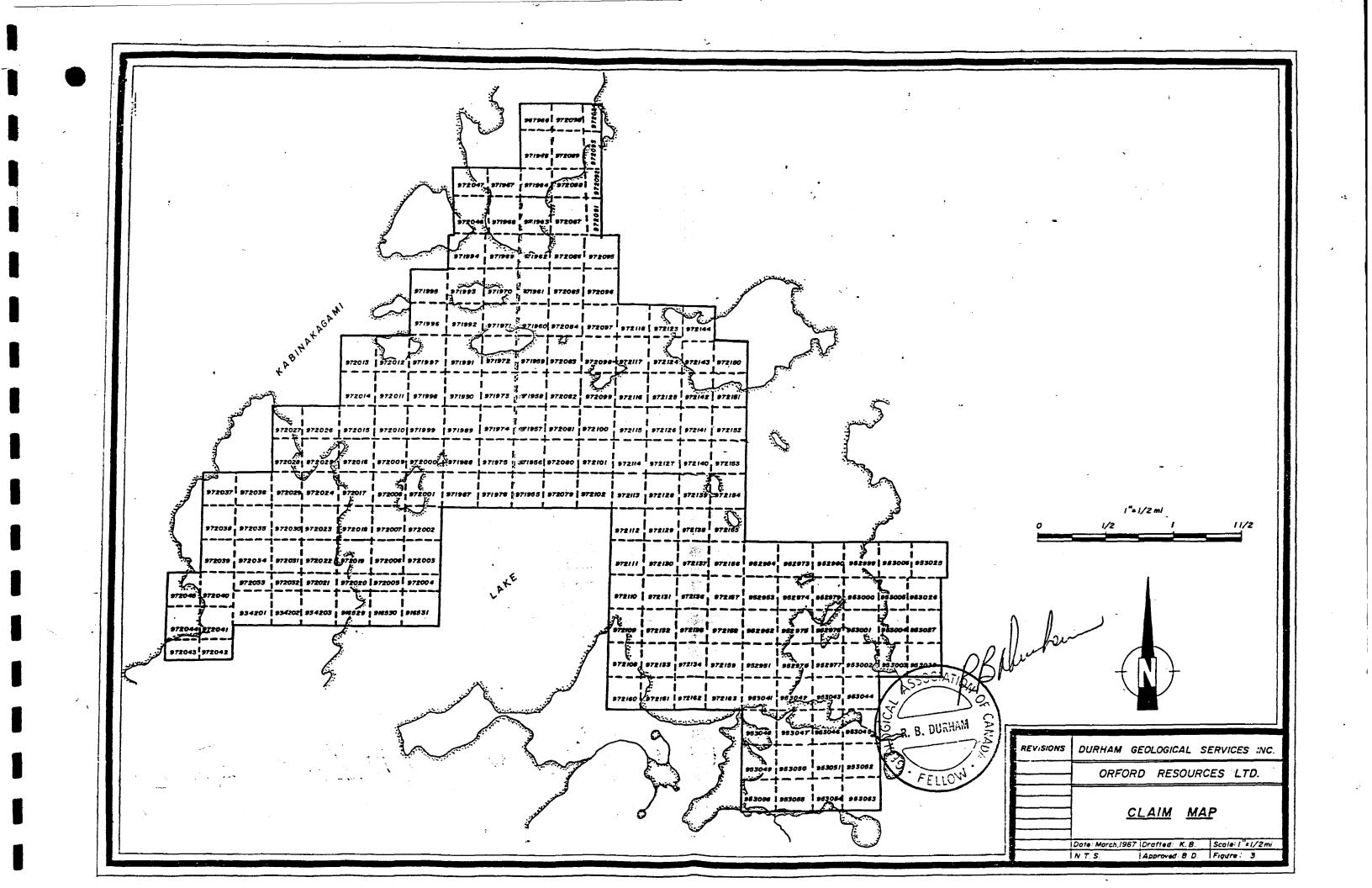
The Orford Resources Ltd. property consists of 200 unpatented contiguous mining claims located in Ermine, Lizar and Lipton townships Sault Ste Marie Mining Division of Ontario.



The claims along with their recording and expiry dates are listed below:

CLAIM NUMBERS	RECORDING DATE	EXPIRY DATE
P-916529 to P-916531	May 13/86	May 13/89
P-934201 to P-934203	Sep.02/86	Sep.02/89
P-952951 to P-952954	Feb.24/87	Feb 24/90
P-952973 to P-952980	Feb.24/87	Feb.24/90
P-952999 to P-953006	Feb. 24/87	Feb.24/90
P-953025 to P-953028	Feb. 24/87	Feb 24/90
P-953041 to P-953056	Feb. 24/87	Feb 24/90
P-971955 to P-971976	Feb. 24/87	Feb 24/90
P-971987 to P-972047	Feb. 24/87	Feb 24/90
P-972079 to P-972102	Feb. 24/87	Feb 24/90
P-972108 to P-972118	Feb. 24/87	Feb 24/90
P-972123 to P-972144	Feb. 24/87	Feb 24/90
P-972150 to P-972163	Feb. 24/87	Feb.24/90

TOTAL NUMBER OF CLAIMS = 200



HISTORY AND PREVIOUS WORK

The mafic volcanic belt which underlays the Orford Resources Ltd. property extends to the east into Hawkins and Irving townships. These townships have been sporadically explored for gold since 1923 when surface sampling by G. Taylor returned results as high as 0.84 oz/ton Au across eight feet in central Hawkins Township 22 km. east of the Orford Resources Ltd. property.

In 1935, Hollinger Gold Mines Ltd. carried out a prospecting and diamond drilling program on the original Taylor showing area. Assay results from the seven drill hole program included values as high as 1.0 oz/ton Au over very narrow widths.

In 1936 the Shenango Mining Company carried out prospecting and trenching programs and sank a small open pit on a mineralized zone approximately 1.2 km. east of Langdon Station, 2 km. west of the Taylor showing in central Hawkins township. Diamond drill results included 0.18 oz/ton Au over 20 feet (1939), 0.22 oz/ton Au over 15 feet (1939) and 0.67 oz/ton Au over 20 feet (1935) and 12.9 m of crosscutting was completed. In 1939 a shaft had been sunk to 38 m. Very limited drifting and crosscutting were completed during 1936, 1937 and 1945. Total production was 66 oz of gold and 37 oz. of silver.

Magi Gold Mines completed a magnetometer survey, and induced polarization survey and three diamond drill holes on a block of 12 claims south of little Watt Lake (north of the Taylor showing) during 1973-1974. Nothing of economic significance was encountered and the claims were allowed to lapse.

In 1974-1975 Rio Tinto Exploration (MNR file 1667) carried out an electromagnetic survey and completed two diamond drill holes on an eighteen claim property just west of Langdon Station, 21 km east of the Orford Resources Ltd. property. They also completed a magnetometer survey and a horizontal loop electromagnetic survey over a weak Dighem airborne E.M. conductor on a block of eight claims in the southwest portion of Hawkins township but no further was completed.

In the late 1970's, St. Joseph Exploration held a 39 claim property that stretched easterly from Langdon Station to the eastern boundary of Hawkins township covering both the Shenango and Taylor gold showings. Geological mapping of the claims was completed during the fall of 1979, prior to ground electromagnetic and magnetic surveys. No further work was reported and the claims were allowed to lapse.

Falconbridge Ltd. carried out an extensive exploration program on its 400 contiguous claim group in Hawkins and Walls townships that includes the former Taylor and Shenango prospects,

approximately 13 km east of the Orford Resources Ltd. property.

Initially 1273 soil (humus) samples were taken along claim lines, the results of which indicate that background gold content of the humus layer in the area was 5 ppb. Anomalous values including 24, 31, 32, 80 and 90 ppb gold were obtained in an east trending anomalous zone. None of the rock samples collected along claim boundaries contained greater than 85 ppb gold, however two samples obtained while prospecting were found to contain 9,900 ppb (0.26 oz/ton Au) and greater than 10,000 ppb Au (0.26 oz/ton Au).

Follow-up work consisted of induced polarization surveying over part of the "Gervais Option" in the summer of 1983. They have since completed at least 58 diamond drill holes on their holdings in Hawkins and Walls townships. Additional geochemical sampling geophysical surveying and geological mapping have also been completed.

Golden Range Resources Inc. held in 1984 86 contiguous unpatented mining claims in western Hawkins township and a second group of 36 contiguous unpatented claims in south-central Hawkins Township. Work on the two properties consisted of magnetometer and VLF electromagnetic surveys completed in 1984 and geological mapping and sampling in 1985.

On the northern claim group, referred to as the Hawkins #1 property, the VLF electromagnetic survey defined numerous conductive trends. The magnetometer survey defined a roughly east-west striking magnetic anomaly that appears to correlate with a zone of amphibolite that occurs near the Taylor and Shenango prospects of the Falconbridge property to the east. The magnetic low to the south of the amphibolite appears to correspond to a zone of altered felsic tuffaceous rocks.

In 1985 geological mapping and geochemical surveys were done on the Hawkins #1 property. The geology of the property is reported by T. J. Neelands (1986), (MNR assessment files .2804) to be comprised of "an east trending suite of Archean mafic and felsic metavolcanic rocks in the upper greenschist to lower amphibolite facies of regional metamorphism". Outcrop exposure is less than 5%. Fifty-six rock samples were collected and analyzed for their gold and molybdenum content. Eight of the samples contained more than 25 ppb gold. Two mafic tuff samples containing pyrite assayed 340 ppb gold and 125 ppb gold.

The soil geochemical survey consisted of the collection and analysis of 1017 B horizon samples. Values as high as 40 ppb gold were reported.

An identical program was carried out on the Hawkins #2 Group. Again, numerous VLF anomalies were defined, and the magnetic survey coupled with geological mapping indicates that the property is underlain by a generally east trending suite of mafic and felsic metavolcanics, tuffs, and related sediments.

Minor ironstone containing pyrite and pyrrhotite was located in the extreme southwest corner of the property. A soil geochemical anomaly was also defined in this area. A grab sample from an outcrop of felsic tuff containing pyrite in the south central portion of the property was found to contain 790 ppb gold. Further work was recommended on both properties.

Algoma Central and Hudson Bay Railway Company carried out an aeromagnetic and airborne electromagnetic survey in late 1956 over much of the central part of Derry Township. Limited ground geophysics were completed on specific targets through 1963, at which point the project was abandoned.

The Charpentier Gold-Silver occurrence is located 8 km southwest from the Orford Resources Ltd. property. Stripping and trenching of a banded quartz vein with a strike length of over 100 ft has shown gold, pyrite, galena and pyrrhotite. No assay results were recorded.

The Charpentier Lead-Zinc occurrence is located 1 km northwest from the Charpentier Gold-Silver occurrence. Stripping and trenching of a shear zone has shown sulphide rich veins and lenses containing pyrite, galena and sphalerite. No assays were recorded.

The Kabinakagami Lake Galena occurrence is located .5 km north of the Orford Resources Ltd. property. This occurrence is associated with quartz veining. Minor pyritic stringers in the mafic metavolcanics in the area yielded 0.04% Cu and trace Au.

The Kabinakagami Lake magnetite occurrence is located 3 km east from the Orford Resources Ltd. property. The magnetite vein is 3 cm side and is hosted in trondhjemite gneiss. Assay results in percent are: Fe 48.8%, TiO 0.03%, Cr 0.01%, V 0.02% and Ni 0.01%.

Hiawatha Gold Mines Ltd. (1937-1939) did extensive work on a property adjacent to the Orford Resources Ltd. property to the southwest.

Four showings are found on the property. A shaft was sunk to a depth of 229 feet. Mineralization included gold, pyrite, chalcopyrite, galena and molybdenite. The quartz veining has a strike length of 1500 ft. and is associated with a quartz porphyry dyke intruded the metavolcanics. A 25 ton per day amalgamation

mill operated between 1937-1940 processing 1,931 tons of rock having a total value of \$6,826 Au.

The Kalibak North showing (central Lizar township) was stripped, trenched and diamond drilled showing pyrrhotite, pyrite, gold, chalcopyrite, sphalerite and galena. Most of the work was done at Pit. No. 1. Gold is reported to be located near a fold in the porphyry-amphibole contact zone. Gold appears to be localized in a cherty sulphide rich quartz vein.

In 1937 twelve chip samples were taken with the best results being 0.01 oz/ton Au, 0.02 oz/ton Au, 0.068 oz/ton Au, 0.09 oz/ton Au and 0.15 oz/ton Au (Gold at \$35/oz). Three drill holes were put down under the Pit No. 1 with best results being a 1.25 ft. sample yielding \$9.80 of Au/ton (0.25 oz/ton Au; Gold at \$35/oz).

The Kalibak South showing was stripped, trenched and diamond drilled. The quartz vein is very boudinaged and up to two feet in width with a possible strike length of up to 0.8 km. Enechelon mineralized shear zones in the adjacent quartz porphyry have been noted. Sulphide mineralization consists of pyrite, sphalerite and traces of gold.

Primrock Mining and Exploration Ltd. (1969) carried out a limited diamond drill program on the Hiawatha Gold Mines Ltd. showings, but subsequently allowed the claims to lapse.

Keltic Mining Corporation Ltd. (1974) did extensive work on an 81 unpatented mining claim group covering the Hiawatha showings. Their work included mapping and sampling of the underground workings.

Nickel Rim Mines Ltd. (1979) cut lines over the Hiawatha showing area and completed magnetic and mapping surveys. They also completed four diamond drill holes.

Sveinson Way Mineral Services Ltd. (1981) completed considerable drilling, sampling and soil sampling in the area of the Hiawatha showings.

Tanglewood Consolidated Resources Inc. (1983), the most recent holders of the Hiawatha property completed a comprehensive evaluation of the area including underground sampling of previous workings.

The Little Ermine Lake occurrence is a magnetite bearing metapyroxenite 2 km. east of the Orford Resources Ltd. property.

The J. Perkin showing is located 2 km. northwest of the Pamax Resources Ltd. property. It was first investigated by Neoscope Explorations Ltd., Toronto (1954). Airborne magnetometer and scintillometer surveys outlined the metapyroxenite and also a northeast trending feature parallel to the shoreline of

Kabinakagami Lake.

Sand River Gold Mining Company Ltd. (1953-57) completed airborne and ground magnetic surveys and drilled at least six drill holes on the showing. The drilling revealed the presence of a magnetite deposit reported (Siragusa 1977) to contain 10 million tons of magnetite bearing rock grading 66.5% Fe.

The Vasey-Stenabough occurrence is located 10 km southwest of the Orford Resources Ltd. property near the Hiawatha Fault. Stripping and trenching revealed the presence of gold, pyrite, chalcopyrite, galena and sphalerite in quartz veining within shear zones in a quartz porphyry dike. Sampling in 1937 returned gold values up to \$15.60 of Au/ton (0.4 oz/ton Au, Au at \$35/oz). In 1972 samples taken from the trenches gave values of 0.02 to 0.04 oz/ton Au.

The most recent government geological maps for the area are a 1" to 2 mile preliminary map by P.E. Giblin (1968) which covers approximately 40 townships in the area and a more detailed report on the area entitled "Geology of the Kabinakagami Lake Area" by G.M. Siragusa (1977). Accompanying map 2355 covers the subject property at a scale of 1" to 1 mile. An earlier map by J.E. Maynard (1929) at a scale of 1" to 2 miles also covered the area.

The Ontario Ministry of Northern Development and Mines has

completed, and released (June 23, 1986), the results of a helicopter borne, multi-frequency, multicoil, electromagneticmagnetic survey completed over a large area that includes the subject property. The high quality magnetic and EM data covers the entire property and has been published at a scale of 1:20,000.

REGIONAL GEOLOGY

The Oba area is underlain by a group of mafic and felsic volcanic and tuffaceous rocks, and their clastic derivatives. All rocks known to occur in the region are of Archean age and have been typically metamorphosed to upper greenschist facies, and frequently to lower and middle amphibolite facies metamorphism, particularly in proximity to granitic bodies. Pegmatitic dikes are found crosscutting all volcanic and sedimentary rocks in the region. All rocks in the area have been intruded by late, northwest and northeast trending diabase dikes.

All bedrock exposures in the area are of Archean age, and while no age relationships are defined, speculation is that the amphibolitic mafic volcanic rocks are the oldest in the sequence. Interbedded with, and overlying the mafic volcanic units, which consist of a variety of pillowed, massive, tuffaceous, amphibolitic and porphyritic mafic units, are fine felsic lapilli tuffs and volcanic derived sediments. Some minor argillite, conglomerate and quartz sandstone were also mapped in the area. Minor peridotite, and pyroxenite are also found in the area.

These rocks were intruded, metamorphosed under predominantly amphibolite facies conditions, and partially assimilated by felsic plutonic rocks. The youngest rocks in the area are the generally northeast and northwest striking diabase dikes.

Siragusa (1977) describes the mafic to intermediate metavolcanics in the area to be almost invariably foliated greygreen to dark green, fine to coarse grained amphibolites except where greenschist retrograde metamorphic effects dominate. Original volcanic structures are rarely preserved due to the effects of the pervasive amphibolite facies metamorphism.

In the area of the Orford Resources Ltd. property, there is a northeast trending amphibolitic metavolcanic-metasedimentary belt which extends from the southwest corner of Lizar township up to the southeast corner of Derry township and into Hawkins township. The mafic volcanics contain interbeds and lens-shaped bodies of felsic metavolcanics and are interbedded with a trondhjemitic gneiss (Map 2355).

Shearing, subparallel to bedding appears to be the main structural entity in the region, this being developed primarily within the mafic volcanic, felsic tuffaceous and sedimentary rocks. This metamorphic foliation is also developed to some degree in the trondhjemitic intrusions. Silicification, sericitization and pyritization are locally present within the

sheared units, particularly along the contact between mafic and felsic units.

Siragusa (1977) indicates that "shearing accompanied by silicification and development of retrograde mineral assemblages has locally occurred in the metavolcanics and these sheared metavolcanics may have acted as host of sulphide and gold mineralization".

It is the author's opinion that it is these sheared, silicified, sericitized, pyritic zones - these Hemlo type-gold bearing zones that were the primary exploration targets on Orford Resources Ltd. property.

1988 EXPLORATION PROGRAM

The program consisted of prospecting and geological mapping using topography and claim lines as control, was completed between July and August of 1988.

The reconnaissance geology located outcrops of the following rock types: mafic metavolcanics, sediments, granite, granodiorite, gneisses and migmatites.

A total of 80 rock samples were collected from outcrops on the property and analyzed by geochemical methods for gold. The

background value for gold was determined to be <10 ppb Au. No anomalous gold values were obtained from these samples.

PROPERTY GEOLOGY

Three main rock terrains were located on the property; mafic volcanics and sediments, granites, granodiorites, gneisses and migmatites.

Mafic volcanic outcrops were located on Driller's Point and several islands in the vicinity of and including Agamik Island.

The mafic volcanics consist of a series of fine to medium grained flows with a well developed foliation due to amphibolite metamorphism. The rocks are dark green to dark grey in colour and weather dark grey to brown. Strikes are typically 80-110° and dips vary from 60-85° southeast. Narrow granitic dykes and quartz veins crosscut foliation containing 1-2% finely disseminated pyrite.

Outcrops of sediments were located in the vicinity of Whitefish Bay. These feldspar and quartz-rich metasandstones are light grey in colour and weather a light grey to white colour. The main mafic mineral present in the sediments is biotite. The main felsic minerals are quartz and feldspar. Strikes are typically 90-110° and dips vary from 60-70° to the north-west. Granite and granodiorite outcrops were located on Burnt Island and several smaller islands in the northwest corner of the Orford Resources Ltd. property.

These massive, medium-coarse grained intrusive rocks are pink to white in colour. The essential minerals in these rocks include crystals of quartz, euhedral feldspar phenocrysts and lathes of hornblende.

Gneissic and migmatitic outcrops were located on the eastern shore of Driller's Point, on several islands between Driller's Point and Whitefish Bay and areas surrounding Whitefish Bay.

The gneissic outcrops contain alternating bands of mafic, hornblende rich material and granitic intrusive rock.

Migmatite outcrops located contain angular zenoliths of mafic volcanics embedded in younger granitic material.

Diabase dykes, the youngest rock type on the property, occur as northwest-northeast trending ridges. The dykes crosscut all other rock types. The diabase is typically green to black in colour, with a mottled texture weathering dark brown. The diabase rocks have a reddish brown iron-rich rind and are strongly magnetic.

Geological mapping on the property was conducted at a scale of 1:5000. The property was divided into three maps and these geology maps can be found in the back pocket of this report.

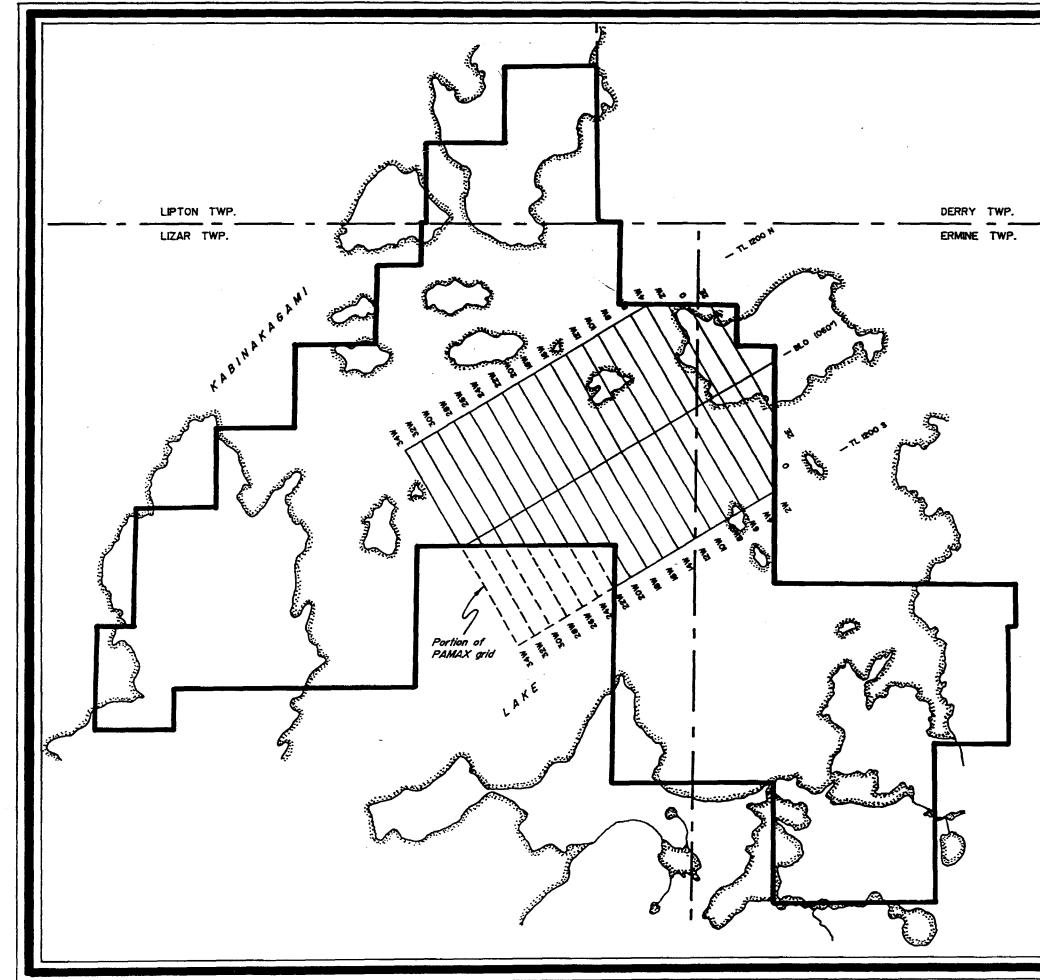
CONCLUSIONS AND RECOMMENDATIONS

This Phase I geology and prospecting program has revealed that a volcanic-sedimentary terrain exists in the central portion of the property, on Driller's Point and in the vicinity of WhiteFish Bay

Phase II should concentrate on the central portion of the property since this is the area where the proposed strike extension of the Hiawatha Gold Zone is thought to cross the property.

The program (Phase I) should consist of approximately 45 kilometres of linecutting and geophysics. A baseline should be cut starting at the number one post of claim P-972142. The baseline should have a length of 3.8 kilometres and be cut on a 060° azimuth.

Grid lines will have a maximum length of 2400 metres and be cut at 200 metre intervals with 25 metre stations for a total of 19 lines. Tie-lines should be cut at 12+00N and 12+00S to provide control of the grid.



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0 V2 I IV2 MILES	
AEVISIONS DURHAM GEOLOGICAL SERVICES INC.	
Far: ORFORD RESOURCES LTD. 7ma: Proposed Linecutting Sketch	
Date: Oct. 1988 Drawn: C.G. Scale: Os shown NTS: Approved: Flg.:	

The 12+00N tie-line will have an approximate length of 2.7 kilometres and the 12+00S tie-line will have an approximate length of 3.2 kilometres.

Magnetometer and induced polarization surveys should be performed on all grid lines, the baseline and the two tie-lines.

The geophysical surveys will be useful in defining lithologic contacts, and for tracing iron formations and shear zones across the property. The induced polarization survey will be especially useful in locating disseminated sulphide zones. Most importantly the geophysical surveys will provide an indication of the presence of the strike extension of the Hiawatha Gold Zone on the property.

The Phase III program should consist of 3000 feet of diamond drilling, to test targets outlined by both the geophysical surveys and the geology and prospecting programs. The estimated cost of the programs are as follows:

ESTIMATED BUDGET

PHASE II- Ground Geophysics								
Linecutting 45 km @ \$250/km.	\$11,250.00							
Magnetometer Survey 45 km @ \$100/km	4,500.00							
Induced Polarization Survey 15 days								
@ \$1500/day	22,500.00							
TOTAL ESTIMATED PHASE II COST	\$38,250.00							

19

PHASE III- Diamond Drilling3000 feet of BQ size Diamond Drilling@ \$30/ft inclusive\$90,000.00Core Logging, Core Splitting, LoggingFacility, Drill Supervision15,000.00Assaying2,000.00Report Drafting, Printing, Consulting8,000.00TOTAL ESTIMATED PHASE III COST\$115,000.00

TOTAL ESTIMATED COSTS OF PHASE II AND III \$153,250.00

Completion of these two phases of exploration will serve as a preliminary evaluation of the potential of the property. If significant results are obtained, additional diamond drilling will be warranted on the property.

Respectfully Submitted,

Rondy D moose

Randy D. Maass H. BSc. Consulting Geologist

SELECTED REFERENCES

DURHAM, R.B. (Mar. 31/1987) Report on the Orford Resources Ltd. Ermine, Lizar and Lipton townships property.

GIBLIN, P.E. (1968). notes on Mineral Occurrences, Hornepayne Sheet, Ontario Department of Mines, Misc. Paper 20.

GLENDHILL, T.D. (1972). Gold East of Langdon Station, Ontario. Department of Mines Annual Report, Vol. 36, Pt. 2

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ONTARIO GEOLOGICAL SURVEY (1986). Airborne Electromagnetic and Total Intensity Magnetic Survey, Oba Kapuskasing Region, Derry Minnipuka Townships Area. District of Algoma: by Aerodat Limited for Ontario Geological Survey, Geophysical/Geochemical Series Map 80837 Scale 1:20 000. Survey and Compilation, February and March, 1986.

Ministry of Natural Resources Assessment Work Files: Timmins File 2630, 2764, 2802, Falconbridge Ltd. 2804 Golden Range Resources Ltd. 2835 D. McKinnon- Aerodat 2223 Magi Gold Mines 1957 St. Joseph Exploration 1667 Rio Tinto Exploration 2212, 2211, 2210, 2228, 2229, Algoma Central and Hudson Bay Railway Company.

Ministry of Natural Resources Assessment Work Files: Toronto File 633807 Regional Evaluations by Ontario Paper 63E27 Primrock Mining And Explorations Ltd. 2.5970 Tundra Gold Mines Ltd. 21509 2.1615 Keltic Mining Corp. Ltd. 2.3209 Nickel Rim Mines Ltd. 23947 Sveinson Way Mineral Services Ltd. 23947 Pacific Cypress 63922 Sand River Gold Mining Company Ltd. 2.5879 Tanglewood Petroleum Corp.- Aerodat 63543 Neoscope Explorations Ltd. CERTIFICATION

I, Randy D. Maass, of 91 Elm St. S., Timmins, Ontario, certify as follows concerning my October 28 report on the ORFORD RESOURCES LTD. ERMINE, LIZAR AND LIPTON TOWNSHIP PROPERTY in northeastern Ontario.

- 1. I am a graduate of Brock University, having obtained a Bachelor of Science Degree in Geology in 1983.
- 2. I have been practicing my profession in Canada since 1980.
- 3. I have no direct or indirect interest in the properties, leases, or securities of ORFORD RESOURCES LTD.
- 4. I am an associate member of the Geological Association of Canada, and a member of the Canadian Institute of Mining and Metallurgy, and a member of the Porcupine Prospectors and Developers Association.
- 5. That this report is the product of my knowledge of the area, examination of previous work and reports, and information obtained during reconnaissance geological mapping and prospecting conducted on the property in July and August of 1988.

Dated at Timmins

this 28th day of October 1988.

Rondy D mooss

Randy D. Maass, BSc. Project Geologist

APPENDIX 1

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MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments 705 West 15th Street North Vancouver, B.C. Canada V7N 112

PHDNE: (604)980-5814 DR (604)988-4524

TELEX:VIA USA 7601067 UC

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Certificate of GEOCHEM

Company:DURHAM GEDLOGICAL SERVICES Project:D-47 Attention:H. HUTTERI File:72-885/P1 Date:SEPT 4/87 Type:ROCK GEOCHEM

He hereby certify the following results for samples submitted.

Sample Rumber	PB PPM	ZN PPM	ሰር ይታየ4	AS PF14	AU-FIRE PPB	
9526 2527 2528	22	330	0.2	2	6 8 3	
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**** Certificate of GEOCHEM ****

Company:DURHAM GEOLOGICAL Project:D-47 Attention:B.DURHAM File:82-1195/P1 Date:SEPT 4/88 Type:ROCK GEOCHEM

We hereby certify the following results (or samples submitted.

Sample	AU-FIRE
Number	PPB ,
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10508	2 ~
10509	1 1
10510	3 🗸
10511	$2V_{\prime}$
10512	1.
10513	1 🗸
10514	5 🗸 ,
10515	2 🗸

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Certified by an re

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TIMMINS OFFICE: 33 EAST IROQUOIS ROAD P.O. BOX 867 TIMMINS, ONTARIO CANADA P4N 7G7 TELEPHONE: (705) 264-9996

<u>Certificate of GEOCHEM</u>

Company:DURHAM'GEOLOGICAL Project:D-47 Attention:B.BARNES File:82-1278/P1 Date:SEPT.23/88 Type:ROCK GEOCHEM

de hereby certify the following results for samples submitted.

Sample Number	AU-FIRE PPB	
7551 7552	7 8	
755 3	1	
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9563	5	
7564 7565		
7566	1	
7567 7568	3	
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MIN-EN LABORATORIES LTD.

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• EN LABORATORIES LTD.

> SPECIALISTS IN MINERAL ENVIRONMENTS CHEMISTS • ASSAYERS • AVALYSTS • GEOCHEMISTS

> > 6

VANCOUVER OFFICE: 705 WEST 15TH STREET -NORTH VANCOUVER, B.C. CANADA V7M 1T2 TELEPHONE (604) 980-5814 OR (604) 988-4524 TELEX: VIA USA 760 1067 • FAX (604) 980-9621

TIMMINS OFFICE: 33 EAST IROQUOIS ROAD P.O. BOX 867 TIMMINS, ONTARIO CANADA P4N 7G7 TELEPHONE: (705) 264-9996

<u>Certificate of GEOCHEN</u>	ate of GEOCH	EM
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Company:DURHAM GEOLOGICAL Project:D-47 Attention:B.BARNES

MIN

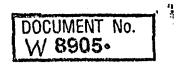
File:82-1278/P2 Date:SEPT.23/88 Type:ROCK GEOCHEM

He hereby certify the following results for samples submitted.

Sample Number	AU-FIRE PPB			
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MIN-EN LABORATORIES LTD.

Ontario	Geochemical and Exper	42C16NW9453 2.	12279 ERMINE	m ( t t t 1   1 f ( ( ) )	00
U 64	705.051 2279 MIL- MAYI	1			90
Type of Survey(s) 2 - 7	MAY 1		Township or		PU
Geological M	apping		Ermine	, Lizar, Lipt Prospector's Licence No.	on
Orford Resou	rces Ltd.			T-4993	
	laide Street West	, Toronto, Ont	ario M5H 3M	47	
Survey Company	ui a l'Ormaine T	Date of Su 15 0	rvev (from & to)	Total Miles of Ii	ine Cu
Name and Address of Author (of	gical Services In Geo-Technical report)	Day Mi	17 88 30 0 5 Yr.   Day   Mo	<u>x.</u> Yr.	
Randy D. Maa	ss C/O Durham Geo	logical Box 13	30, Timmins	s, Ontario P4	IN 7
Credits Requested per Each C		Mining Claims Travers			
Special Provisions	Geophysical Days per Claim	Viining Claim Prefix Number	Expend. Days Cr.	Mining Claim Prefix Number	
For first survey: Enter 40 days. (This	- Electromagnetic	SSM		[	
includes line cutting)	- Magnetometer				
	- Radiometric	Pleas		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
For each additional survey: using the same grid:		- 1045	<b>3</b>	·····	
Enter 20 days (for each)	- Other	see			
	Geological 20	attach	ed		
	Geochemical	claim		,	
Man Days	Geophysical Days per	list			
Complete reverse side	Claim			RECEIVE	Đ
and enter total(s) here	- Electromagnetic				]
	Magnetometer			MAY 1 1989	<u>}</u>
the second s	- Radiometric				
	• Other	SAULT STE.	MARIE	VING LANDS SEC	TIO
	Geological	RECEI	VED		<b></b>
	Geochemical				
Airporne Creaits	Days per	MAR 22	1080		
	Claim	A.M. 105.5 20 a			1
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to Arrborne Surveys.	Magnetometer			- - 	:
	Radiometric				į
Expenditures (excludes powe	r stripping)	- · · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •		•
Type of Work Performed				· •	1
Performed on Claim(s)		RECOR	9-E-9(-		Ĩ
		MAR_22_1	189	, <b></b>	ا ؤ
Calculation of Expenditure Days	Creaits			} }	1
Total Expenditures	Total Days Credits	Bocelpt No.			
S	+ 15 =	·····	i I.	Total number of mining	
		•		claims covered by this report of work.	
	portioned at the claim holder's	For Office U			h
in columns at right.	credits per claim selectea	Tele- Days Cr. Date Reco		Mining Recorder	
······································		Man.	22/89	Blaistit	
	orded Holder or Agent (Signature)	7,000 Date Appr	oved as Recorded	Branch Director	,
Jan. 23, 1989 K Certification Verifying Repo	andig maass	بعظر المسلما ال	annel	at dent.	
	personal and intimate knowledge	of the facts set forth in the Re	port of Work annexe	d hereto, having perform	ed the
	or after its completion and the a				
Name and Postal Address of Pers		and a second			



## ORFORD RESOURCES LIMITED

	CLAIM NUMBER	WORK DAYS CREDIT	)
	P 916529-	<b>2</b> 0′	
	P 916530	20	
	P 916531	20	
	P 934201-	20	
	P 934202	20	
	P 934203-	20	
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	P 953001	20	
	P 953002	201	
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## CLAIM NUMBER

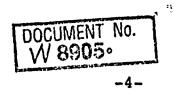
CLAIM NUMBER	WORK DAYS CREDIT
55 M - 971959	20-
<b>P</b> 971960	201
1971961	20-
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P 971964	20- 20-
B 971965	20-
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P 972009	20-
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P 972013	20
₽ 972014	20 ~
P 972015	20-
P 972016	20***
P       972004         P       972005         P       972006         P       972007         P       972009         P       972010         P       972012         P       972013         P       972015         P       972016         P       972017         P       972018	20-
¢ 972018	20-



# CLAIM NUMBER

# WORK DAYS CREDIT

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#### CLAIM NUMBER

# WORK DAYS CREDIT

SS M	P 972099 972100 972101 972102 972108 972109 972109 972110 972110 972113 972114 972115 972116 972115 972123 972124 972125 972126 972127 972126 972127 972128 972127 972128 972129 972129 972130 972131 972132 972133 P 972133 P 972135 P 972135 P 972137 P 972138 P 972137 P 972138 P 972138 P 972137 P 972138 P 972137 P 972138 P 972137 P 972138 P 972137 P 972151 P 972151 P 972150 P 972155 P 972157 P 972157 P 972158 P 972157 P 972158 P 972157 P 972158 P 972159 P 972159 P 972160 P 972161	
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-5-

CLAIM NUMBER

SSM - 19-972162 3 972163 WORK DAYS CREDIT

20 20

200 CLAIMS



Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

July 5, 1989

Mining Lands Section 880 Bay Street, 3rd Floor Toronto, Ontario M5S 1Z8

Telephone: (416) 965-4888

Your file: W8905-51 Our file: 2.12279

Mining Recorder Ministry of Northern Development and Mines 875 Queen Street East Box 669 Sault Ste. Marie, Ontario P6A 2B3

Dear Madam:

Re: Notice of Intent dated June 2, 1989 Geological Survey submitted on Mining Claims SSM 952974 et al, and P 916529 et al in Ermine, Lizar, and Lipton Townships.

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

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

Yours sincerely,

W.R. Cowan Provincial Manager, Mining Lands Mines & Minerals Division Rom RM:eb Enclosure

cc: Mr. G.H. Ferguson Mining and Lands Commissioner Torońto, Ontario

> Orford Resources Ltd. 1404-141 Adelaide Street W. Toronto, Ontario M5H 3M7

Randy D. Maass c/o Durham Geological Box 1330 Timmins, Ontario P4N 7J8 ONTARIO GEOLOGICAL SURVEY ASSESSMENT FILES OFFICE AUG 21 1989 RECEIVED

> Resident Geologist Wawa, Ontario

Ministry of								
Northern Development								
and Mines								

Technical	Assessment
Work Cred	dits

Dete	<u> </u>	1000	Work 890	2.12279
June	۷,	1989	WOYU	12-021

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Page 1 of 2

Recorded Holder

# ORFORD RESOURCES LIMITED

Township or Aree

# ERMINE, LIZAR, LIPTON TOWNSHIPS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed						
Geophysical							
Electromagnetic	P 916529 934201 to 203 incl.						
Magnetometer days	SSM 952974 to 977 incl. 972091						
Radiometric days	952979 972093						
Induced polarization days	952999 to 006 incl. 972098-099 952025 to 028 incl. 972116-117						
Other days	953041 to 056 incl. 972123-124 971955 972139-140						
Section 77 (19) See "Mining Claims Assessed" column	971959 to 964 incl. 972142 to 144 incl. 971967 to 972 incl. 972150-151						
Geologicaldays	971988 972153 to 155 incl.						
Geochemical days	971991 to 993 incl. 971997						
Man days 🗌 Airborne 🗌	971999 to 002 incl. 972008						
Special provision 🕅 Ground 🕅	972012-013 - 972017 -						
Credits have been reduced because of partial coverage of claims.	972019 to 025 incl. 972027 to 043 incl.						
Credits have been reduced because of corrections to work dates and figures of applicant.	972982 to 084 incl. 972086 to 089 incl.						
Special credits under section 77 (16) for the following r	j mining claims						

No credits have been allowed for the following mining claims

D not sufficiently covered by the survey 916530-531	insufficient technical o	data filed
SSM 952951 to 954 incl.	971987	972018
952973	971989-990	972026
952978	971994-996	972044 to 047 incl.
952980	971998	972079 to 081 incl.
971956 to 958 incl.	972003 to 007 incl.	972085
971965-966	972009 to 011 incl.	972090
971973 to 976 incl	972014 to 016 incl.	972092

The Mining Recorder may reduce the above credits it 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; Geologocal +40; Geochemical +40; Section 77(19) +60.

828 (85/12)

Ministry of Northern Development and Mines Technical Assessment Work Credits	June 2, 1989
	June 2, 1989 100 W8905-051
Recorded Holder Page 2 of	£_2
ORFORD RESOURCES LIMITED	
Township or Area ERMINE, LIZAR, LIPTON	
Type of survey and number of	Mining Claims Assessed
Assessment days credit per claim Geophysical	
Electromagnetic days	
Magnetometer days	· · · ·
Radiometric days	
Induced polarization days	
Other days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological days	
Geologicai Gays	
Geochemical days	
Man days 🔲 Airborne 🕻	
Special provision	·
Credits have been reduced because of partial coverage of claims.	
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to work dates and figures of applicant.	
pecial credits under section 77 (16) for the following mining claims	**************************************
o credits have been allowed for the following mining claims	
I not sufficiently covered by the survey	hnicel data filed
972094 to 097 incl.	
972100 to 102 incl.	
972108 to 115 incl.	
972118 072125 to 129 incl	
- 972125 to 138 incl. 972141	
972152	
972156 to 163 incl.	

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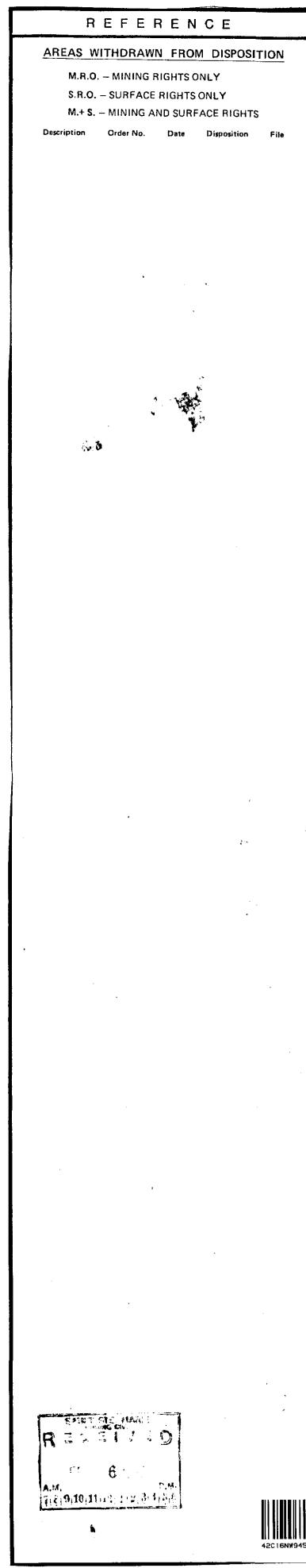
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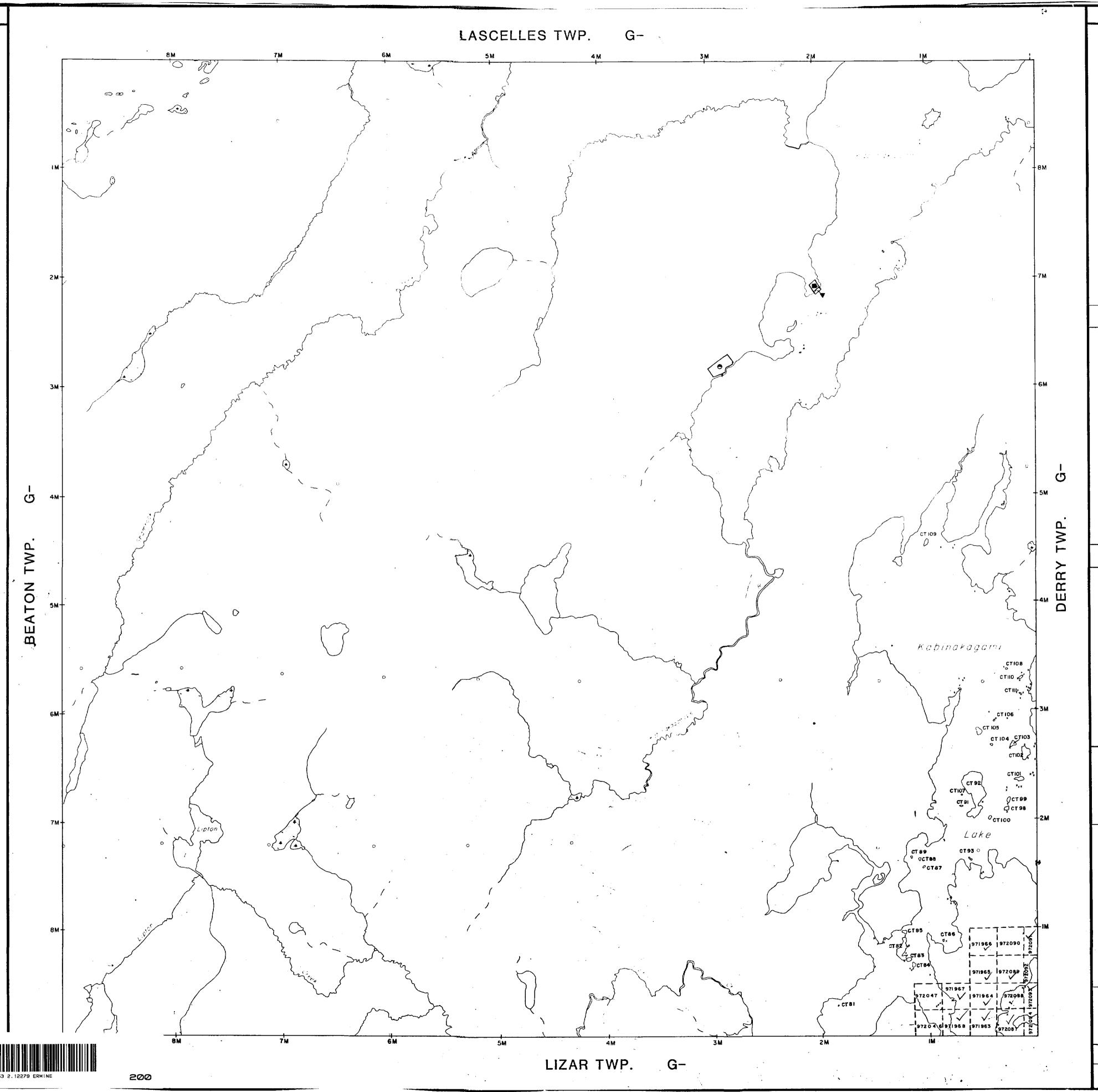
The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical +80; Geologocal +40; Geochemical +40; Section 77(19) + 60.

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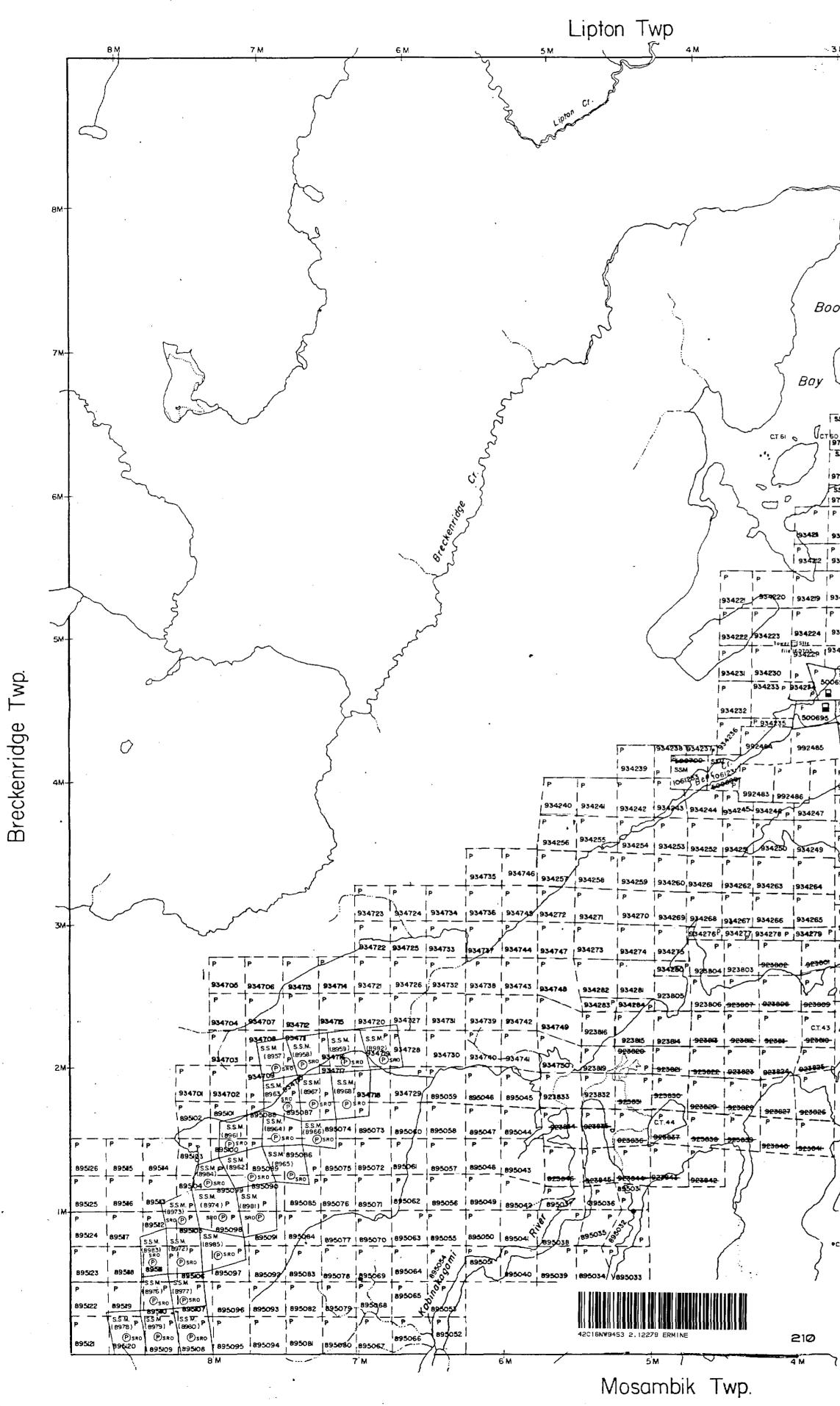
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SSM	972039 97203 SSM SSM	4 972031 972025 + SSM V SSM 972032 97202	J 972020 972	M - SSM	∟ →	SSM	- CT.IZ	972077	35M	9728 SSM	97230 35M		MINING RIGHTS ONLY M.R
1972045	972040 P	P P			971984		55M 97952 55M	972076		97210 35N	97231 , 55M		ROADS
972044	93420	934202 934203		530 <u>9нелан</u> ≠CT.55 P	971983	55M 975980		85M 972075	33M 972106	R	972132		IMPROVED ROADS
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934225	Ba4226 P 3342			1	972062			972009		+	97269	1 	400' surface rights reservation along the
1934220	500689 +0 ⁶⁹⁰	106/227 1 51655 CT.53	╴╺┛╴╺╌╴╴		972063 P		972065 P	972066	r t	1	1 1	→⊃m	shores of all lakes and rivers.
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