REPORT OF WORK

GEOLOGICAL SURVEY

WHITE LAKE PROJECT (2000)

Submitted by:

M. Stalker
Project Geologist
Royal Oak Mines Inc.

Timmins, Ontario
October 1996

\whitelak\report96

TABLE OF CONTENTS

APPENDICES

LIST OF FIGURES

LIST OF TABLES

1.0) Summary

Geological mapping and rock sampling were conducted on the White Lake property on the east side of the White Lake narrows during 1995 on three separate occasions. The upper half of the cut grid area was mapped and a total of 138 rock samples were collected.

The mapping indicated units of promising geology for mineralization and analysis of the rock samples revealed anomalous values in Au and other elements. Values of up to 1060 ppb Au were returned.

The geological mapping program was successful in finding areas of anomalous mineralization in rock. Additional field work is required to continue the mapping throughout the property and to further delineate and uncover the source of anomalous gold values in rock and soils.

2.0) Introduction

The White Lake property consisting of 13 claim blocks or 134 units is located 32 km west of the town of White River and 26 km east of Marathon. The claims lie within and on the east shore of White Lake.

T. Carroll and D. MacDougall staked the property and discovered visible gold in a quartz stringer on one of the outcrops now referred to as showing A. The property was optioned to Royal Oak Mines Inc. in January 1995.

During May 13 - 18, 1995, T. Carroll and D. MacDougall prospected, hand stripped outcrop, and took rock samples. At this time P.Coad and M. Stalker prospected the area around the showing. During June 1995, a cut grid was established on the property. From July 3,1995 to August 3,1995 a program of humus and soil sampling, geological mapping, and rock sampling was completed by E. Oktaba and M. Stalker. Ground magnetic and VLF surveys were conducted in August by Exsics Exploration Limited. Follow up prospecting, from October 4-8, 1995, was completed by T. Carroll and D. MacDougall.

Earlier assessment reports covered the geophysics and humus and soil surveys. The results of the geological mapping, prospecting, and rock sampling are documented in this report.

3.0) Property Location and Access

The property is located 32 km west of the town of White River and 26 km east of Hemlo in the Thunder Bay Mining Division (Figure 1). It includes portions of White Lake and surrounding land just north of Highway 17. The property consists of 134 claim units in 13

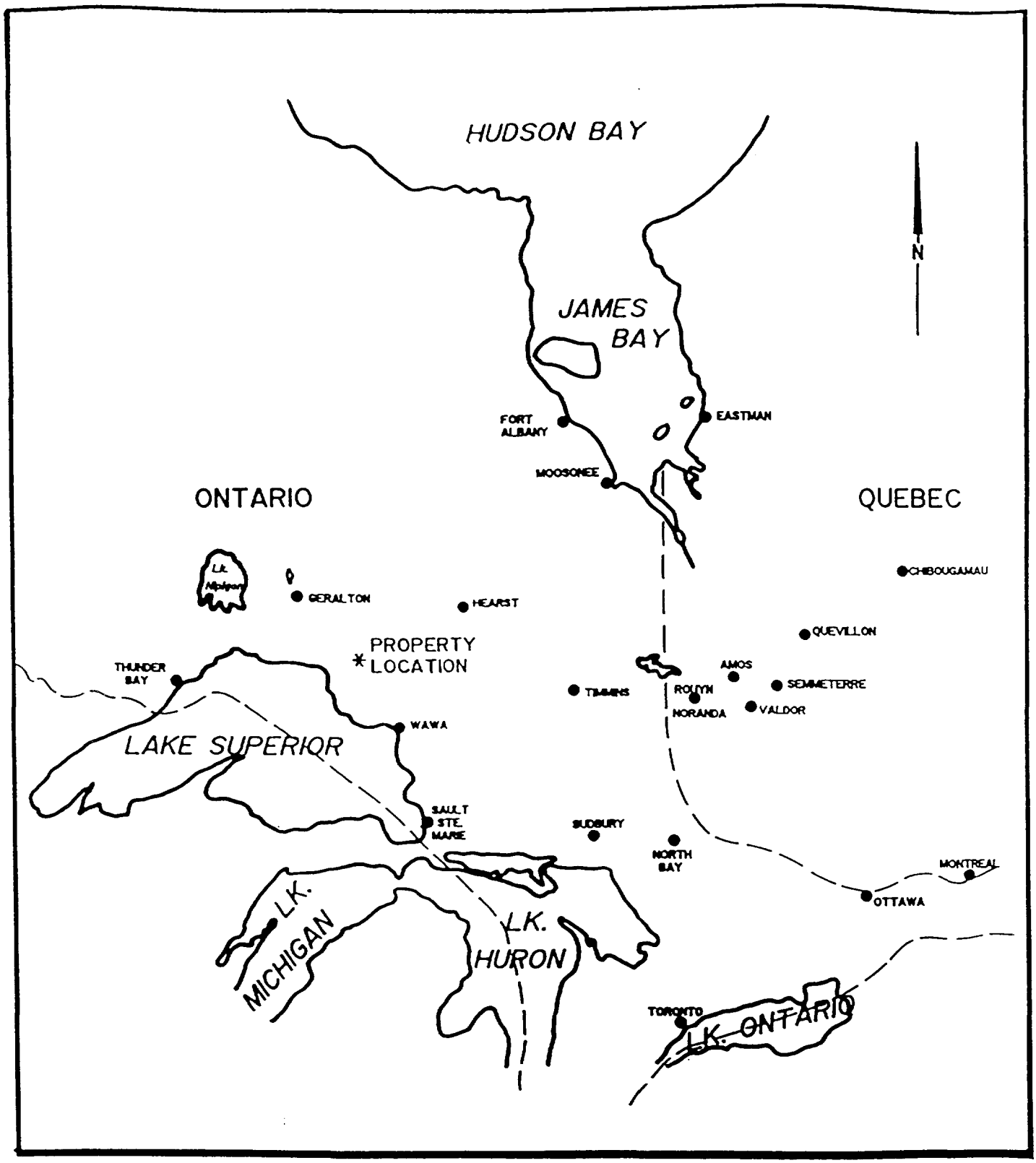


Figure 1: Location Map

contiguous unpatented claim blocks (Figure 2). An inventory of claims is found in Appendix A.

Access to the property is via Highway 17 to the boat launch on the west side of White Lake and then by boat to the property.

4.0) Topography and Vegetation

The majority of the property is comprised of claims in White Lake. The land portions of the property consist of rolling hills rising from the lake and generally ending in cliffs of 2-30m. The maximum relief is approximately 50m. Swampy and flat terrain is also prevalent. A few smaller lakes and ponds are contained within the property.

The higher areas are covered by large poplar, birch and spruce, and smaller fir and spruce trees with local undergrowth of scrub maple and tag alder. Low lying areas contain cedar, tag alders and black spruce. Locally spruce budworm has devastated the trees and areas of deadfall are common.

5.0) Regional Geology

The White River property lies within the Heron Bay-Hemlo portion of the Schreiber-Hemlo greenstone belt in the Wawa subprovince of the Superior Province (Muir, 1983). This greenstone belt is composed of Archean metavolcanic and metasedimentary rocks surrounded by the regional granitic rocks and runs approximately east-west (Figure 3). A generalized table of lithological units is presented in table 1. The property region is underlain by mafic metavolcanics and metasediments with mafic, intermediate and felsic intrusives. Late intrusives consist of lamprophyre and diabase dikes. The metamorphic grade ranges from greenschist to amphibolite facies. A dominant north-northwest schistosity is found in this area.

The bedrock in the area is generally covered by a thin layer of surficial deposits consisting of humus and soil with a thin layer of glacial drift (Geddes,R.S. and Kristjansson, F.J., 1986). Locally the tills may be thicker. In some areas thick sections of glaciolacustrine deposits occur.

6.0) Previous Work

From March 2 to June 14, 1983, Aerodat Ltd. conducted airborne (helicopter) magnetic, HEM and VLF-EM geophysical surveys over the Hemlo region, including the White Lake property. Golden Terrace Resources Corp., Dunes Exploration Corp., and Brass Ring

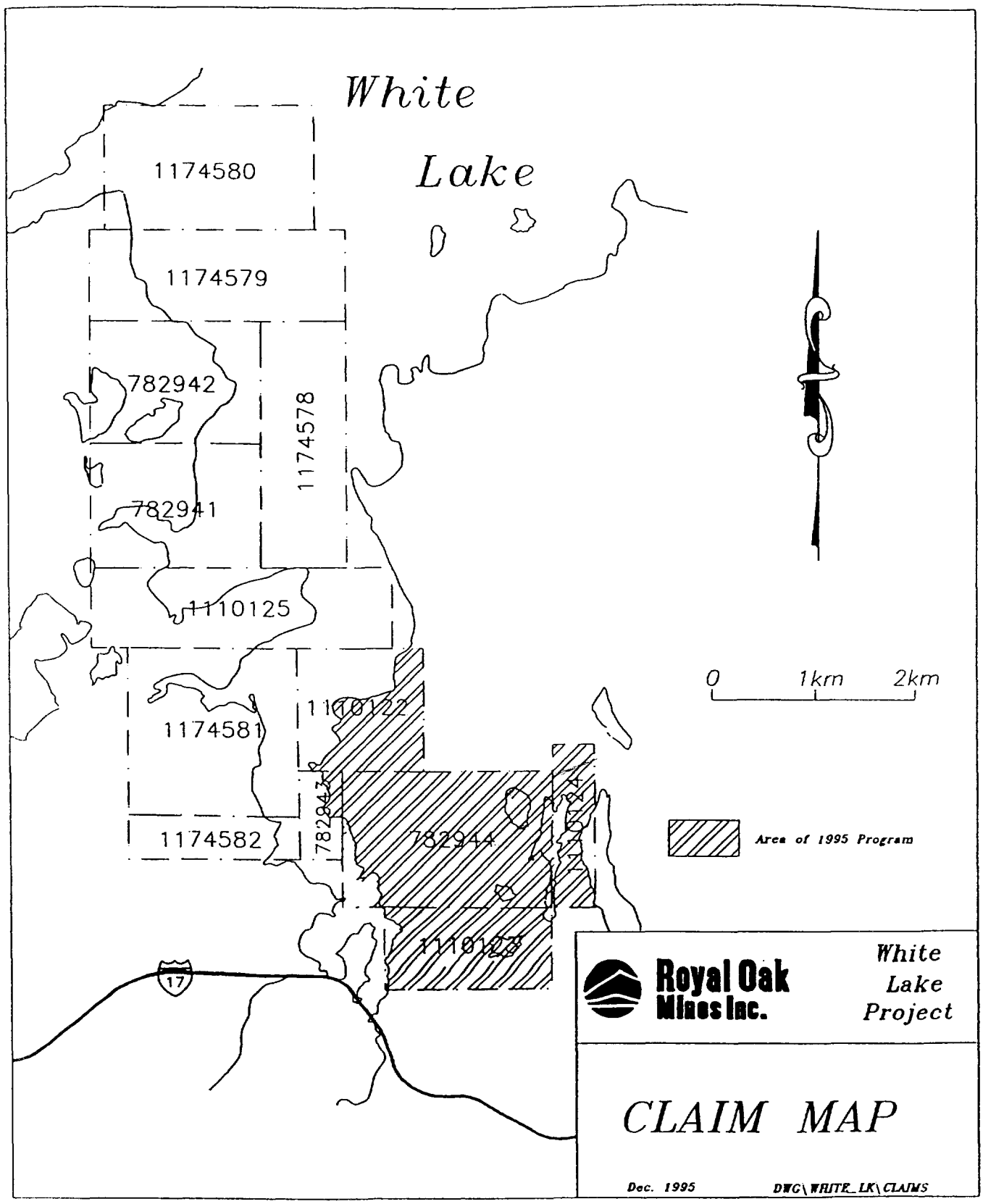


Figure 2: **Claim Map**

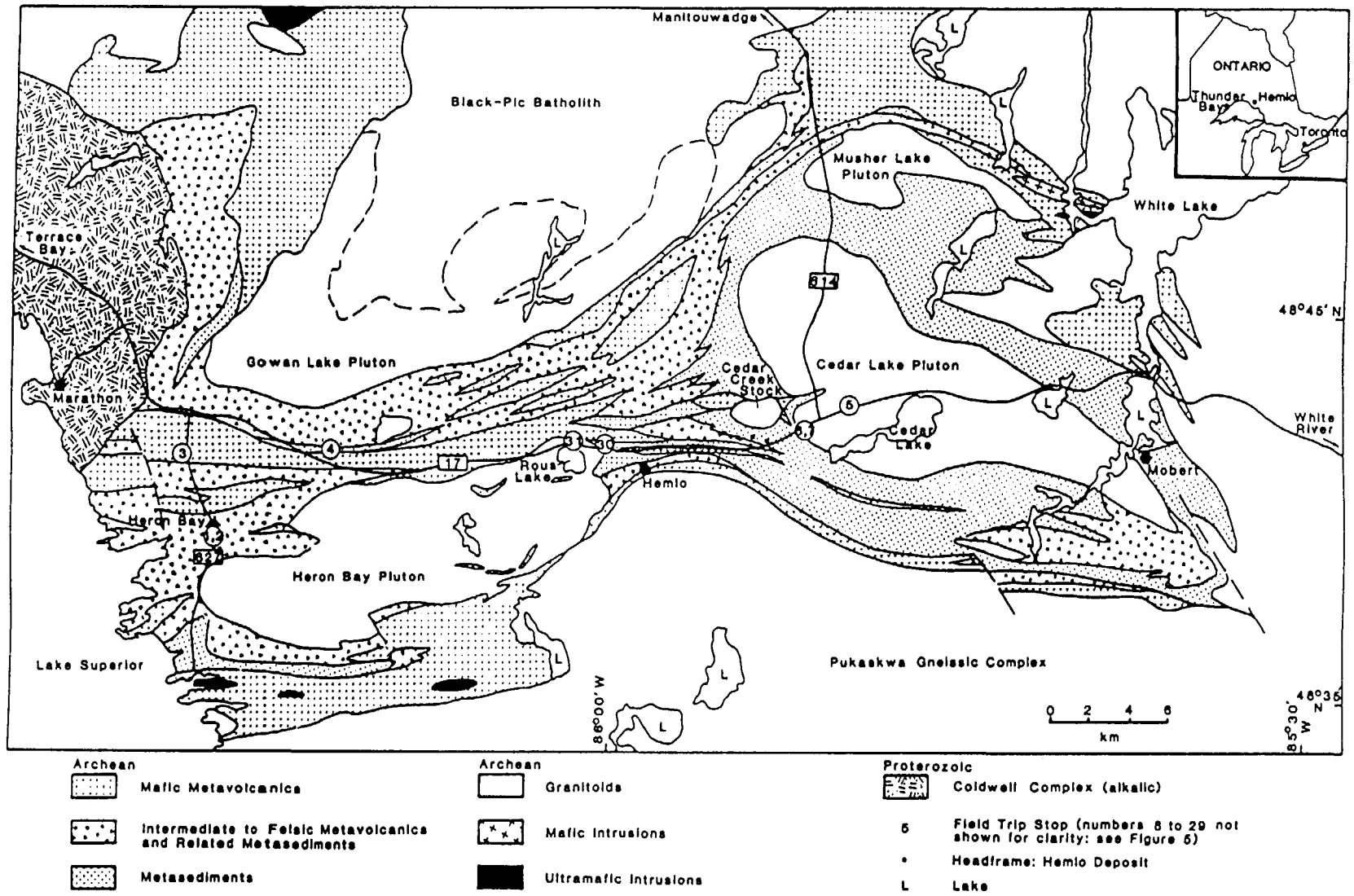


Figure 3: Regional Geology (Muir et al, 1995)

TABLE OF FORMATIONS

CENOZOIC

PEISTOCENE and
RECENT — Varved clay, silty sand and gravel.

Unconformity

PRECAMBRIAN

PROTOZOIC

DIABASE

Quartz diabase, porphyritic diabase.

ARCHEAN

LATE SILICIC PLUTONIC ROCKS

Horneblende-biotite granodiorite and quartz monozite, biotie granodiorite, augite granodiorite, aplite, pegmatite, feldspar porphry, hornblende-feldspar porphry, muscovite granite, augitesyenite and lamprophyre dikes.

Intrusive contact

EARLY SILICIC PLUTONIC ROCKS

Hornblende-biotie granodiorite gneiss, feldspar augen gneiss, migmatite.

Intrusive Contact

MAFIC AND ULTRAMAFIC INTRUSIVE ROCKS

Metagabbro, serpentinized peridotite, anorthositic gneiss.

Intrusive Contact

METASEDIMENTARY ROCKS

Conglomerate, geywacke, arkose, biotite- and muscovite-quartz-feldspar gneiss, sillimanite gneiss, garnet-biotie schist.

SILICIC TO INTERMEDIATE METAVOLCANIC, PYROCLASTIC, AND METASEDIMENTARY ROCKS

Dacitic and rhyolitic flows, flow breccia, agglomerate, tuff, greywacke, iron formation, biotite gneiss.

MAFIC TO INTERMEDIATE METAVOLCANIC ROCKS

Amphibolite, hornblende gneiss, pillow lava.

TABLE 1: Table of Lithological Units (Milne, V.G., 1968)

Resources Ltd. purchased sections of the data over the property and submitted them for assessment work.

During 1982 and 1983, Transpacific Asbestos Inc. and Consolidated Reactor Uranium Mines Ltd. cut a grid on the land portion of their property, overlapping a part of the present property. In the fall of 1983, a "B" horizon soil survey was conducted. In the winter of 1983-1984, a grid was laid out over the lake. Using this grid, they completed 9.9 km of I.P. and property magnetic and VLF-EM geophysical surveys.

Golden Shield Resources Ltd. completed exploration in 1983 and 1984 on their property, which is located in the east-central region of the land portion of the White Lake property. They conducted geological mapping, VLF-EM and magnetic geophysical surveys and a "B" horizon soil survey.

During the summer and fall of 1984, Golden Terrace Resources Corp. conducted exploration of their property, which overlaps the southern part of the present property. Work included geological mapping, humus horizon soil sampling and hand stripping.

7.0) 1995 Geological Mapping and Prospecting

7.1) Introduction

Prospecting in May by T. Carroll, D. MacDougall, P. Coad and M. Stalker consisted of stripping and sampling outcrops in the vicinity of the prospector's trail, that cuts north south through the property, and near showing A.

The geological mapping conducted by E. Oktaba and M. Stalker during July and August 1996 covered the north half of the cut grid from Line 16+00N to Line 0+00 (Figure 4). Bedrock exposures were located and tied into the grid and topographic features, vegetation, claim lines, and claim posts were noted. Mapping was conducted at 1:2000 scale.

In October 1995, T. Carroll and D. MacDougall prospected and sampled rock in areas that had returned high Au values in humus and soils. Some of this sampling was conducted on the south half of the grid (Figure 5).

Outcrop covers approximately 5% of the cut grid land surface and much of this is along a ridge running about north - south from Line 16+00N to Line 4+00N.

7.2) Grid System

A total of 32.1 km of gridline was cut between June 14 and July 2, 1995. Baselines and tielines are orientated at 341°, with lines at 71°. Lines were cut every 200m, except for a northern portion of the grid, near showing A, where they were cut 100m apart. All grid lines are chained at 25m intervals and labelled with metal tags.

7.3) Lithologies

The White Lake property is underlain by a sequence of metavolcanic and metasedimentary rocks which have been inundated by mafic, intermediate, and felsic intrusives. The close proximity of large batholiths has led to metamorphic aureoles and magma mixing causing heterogeneous outcrops. Lithologies change or grade from outcrop to outcrop or within the same outcrop and contacts may be crosscutting or gradational making it hard to outline individual units. Rocks have been metamorphosed to the amphibolite facies.

Mafic Metavolcanic

Much of the property is underlain by mafic flows (unit 1) which grade into coarser grained amphibolites (unit 2). The mafic volcanics are usually comprised of amphiboles and chlorite (unit 1a) and commonly could be termed an amphibolite. They can be biotite rich (unit 1b) especially where shearing occurs. Rarely they are muscovite rich. Poorly developed pillows were observed at only one location but outcrops that have an indication of pillows or ropy lava but no definite selvages are more common. Garnets and a beaded mineral, probably sillimanite, are common especially in those outcrops suggesting pillows. All of the mafics exhibit a foliation but it can be strong to sheared over small zones. Locally the mafic flows are altered to light green to tan in bands at an angle to foliation. Many of the mafic flows have traces of medium grained cubes of pyrite but rarely outcrops are rusty and may contain up to 5% pyrite locally. A few grains of pyrrhotite were observed in one location and a few grains of chalcopyrite in another.

Coarse Grained Amphibolites

This unit covers a wide variety of rocks on the property. It is made up of coarser grained amphibolites with up to 30% pink or white felsic matrix. This unit is probably the metamorphic equivalent of the mafic volcanic flows which have been affected by the intrusion of the intermediate to felsic intrusives. Grain size can be from 1mm to 5cm. It grades between the mafic volcanic and the granodiorite or may be crosscutting these units. This unit is commonly without foliation but may be foliated or gneissic locally. Trace amount of pyrite and rare molybdenum may be found in the amphibolites, especially in the felsic matrix.

Migmatite

This unit (unit 3) has a light grey intermediate to felsic matrix with pods of mafic material and pods of granitic material which resemble slightly stretched clasts. These pods grade in composition with a number of different varieties. These pods look like they are replaced primary clasts, possibly originally a pyroclastic rock, but the unit may also be a hybrid of two different magmas. This unit occurs in seven different locations comprising several outcrops in the central part of the property. The largest observed width of the unit was >10m but it also appears in bands <1m. This lithology is often biotite rich and scattered pyrite cubes are common.

Metasediments

There are two main types of lithologies on the property which appear to be meta-sediments. Unit 4a is a biotite rich schist to gneiss with quartz and feldspar grains which grades to a more arkosic rock. A few outcrops are biotite schist that look like a lamprophyre dike and it is difficult to tell between the two. Unit 4b is possibly a granitized sediment which is fine grained, laminated, and may be strongly sheared. It is commonly sericitized and locally muscovite rich with rare green mica grains. The unit gives the appearance of a mylonite and folding is commonly evident. Quartz eyes are found in some of these outcrops and it is possible this unit is an altered porphyry with laminations due to alteration. Minor pyrite is found locally in both of these units and trace amounts of molybdenite is found in the granitized sediments.

Metagabbro

The gabbro (unit 5) is very similar to and is possibly the same unit as amphibolite with <5% felsic matrix. It is very coarse grained with grains up to 10 cm. It appears to be a true gabbro and not just a very coarse grained equivalent of the amphibolite because of its stronger magnetic signature, higher Ni content, and rarely observed cross cutting contacts with the amphibolite. Locally the gabbro's magnetic field is strong enough to disturb a compass. At some locations the gabbro and amphibolite contact does appear gradational. However, the two units do overlap and may easily be mistaken for one another.

Granodiorite

Granodiorite (unit 6) is a very prominent rock type on the grid. It grades between granite and amphibolite. It is mainly medium to coarse grained but may be very coarse grained. It is composed of amphibole and chlorite and less commonly biotite with pink and white feldspar grains and white quartz grains. The granodiorite often grades in composition but slightly different compositions may also have sharp dike like contacts indicating a number of different intrusions of the granodiorite magma. It is common on the property to see a granodiorite outcrop with pods of granodiorite in a more mafic matrix. On the north shore of the cut grid area are good examples of this with rounded pods of granodiorite in a

matrix formed of amphibole.

Granite

Granite (unit 7) is not as prevalent on the property and probably is the most felsic end member of the granodiorite batholith. It is mostly composed of feldspar, quartz, amphibole and biotite. It is commonly gneissic.

Felsic Intrusive

Felsic intrusives are prevalent throughout the property. Pegmatite (unit 8a) is common and consist of coarse grains of quartz, feldspar, and biotite. A sample of pegmatite at grid location 10+57N, 25+35W returned a value of 400 ppb Au. At showing A coarse bluish microcline crystals are found in the pegmatite. Granite intrusives are also commonly found. Less common are aplite intrusives. All of these intrusives are generally less than 1m in width.

Lamprophyre

Two lamprophyre dikes were observed on the property. These are fine to medium grained and biotite rich and are similar to the biotite schist sediments. They may be metasediment but appear to have intrusive contacts although these contacts are parallel to foliation.

Diabase

Three outcrops of diabase were observed but common diabase rubble indicates that it is more prevalent. Both fine grained and coarse grained diabase occur. The coarser diabase is magnetic. The diabase contains trace amounts of pyrite.

7.4) Structure

The majority of the finer grained lithologies display a moderate to strong foliation with the coarser units displaying weaker foliation and gneissosity. Azimuths range from 110° to 176° but are commonly 145° to 150°. Dips range from 57°SW to 74°NE but are mostly close to vertical. Locally shear zones exist but all of those observed were less than 0.5m. Joints and small scale faulting are common. Locally small scale folding occurs, especially in unit 4b, and the axial plane is generally the same as foliation.

7.5) Alteration

Biotite is rich locally and appears to be secondary. The area of the showing seems to be

especially biotite rich. The granitized sediments can be sericite rich and rarely contain green mica. As well, near the showing blue microcline is present in the pegmatite that is not seen at other locations. Epidote is common locally especially in the granitized sediments and on the Peninsula on Line 11+00 North. It is also found locally in the mafic flows. Tan alteration at an angle to foliation occurs in mafic volcanic flows.

7.6) Mineralization

Gold grains were found by T. Carroll and D. MacDougall in a quartz stringer at showing A. Although this stringer was not observed in the field due to previous blasting a specimen of the stringer was provided by the prospectors. The Au occurs as grains in a glassy, fractured, 1cm wide quartz stringer in a biotite schist. A number of gold grains are present but no other sulphides were observed.

Low concentrations of pyrite are prevalent throughout the property. A few scattered medium grains of pyrite can be found in all rock types. Locally, 5% pyrite and traces of pyrrhotite and chalcopyrite can be found in the mafic volcanics. The pyrite is found as medium scattered grains or disseminated along stringers. The granitized sediments also contain trace amounts of molybdenite as does the felsic matrix of the amphibolites.

7.7) Content of Au Grains

A sample from showing A of Au in a quartz stringer was sent to R. L. Barnett Geological Consulting Inc. to determine Hg content by Micro probe. Analysis results are found in appendix B. The grains contained between 91.5-94.5% Au, 6-7.5% Ag, and 0.21% Hg.

7.8) XRD Studies

Two samples were sent to Dr. Huang at Laurentian University for XRD studies (appendix C). The first, sample 19206, contained a coarse grained blue mineral from the pegmatite at showing A which was found to be microcline. The second sample, 19207, was the beaded mineral thought to be sillimanite found in the mafic volcanics. This mineral could not be identified.

7.9) Prospecting of Geochemical Anomalies

During the week of October 4 to 8, 1995 prospecting to follow up humus and soil Au anomalies was performed by T. Carroll and D. MacDougall. They prospected for outcrop in the vicinity of the geochemical anomalies and stripped and sampled any outcrop they

encountered. Thirty four rock samples were sent for assay and a number returned anomalous values the highest being 410 ppb of Au.

7.10) Rock Sampling

A total of 138 rock samples were collected and analysed. A list of sample descriptions is found in appendix D. The samples were shipped to Chemex Labs Ltd. in Mississauga and to Royal Oak Mines Inc. assay laboratory in Schumacher. There they were dried and sieved to -80 mesh and digested using nitric aqua-regia. Au was fire assayed with a neutron activation finish. Thirty-two other elements were analyzed using inductively coupled plasma atomic emission spectrometry. Results of the analysis are found in Appendix E. The highest assay was 1060 ppb from a rock from showing A. A value of 515 ppb was also returned from another rock from this area. Other anomalous values were 200 ppb from a pegmatite at 10+57N, 25+35W; 135 ppb from an amphibolite-granodiorite at 5+35S, 27+10W; 205 ppb from an amphibolite at 4+23N, 15+62W; 205 ppb from a granitic intrusion with a quartz stringer at 8+00N, 27+35W; and 410 and 135 ppb from two sheared mafic volcanic samples from 8+00N, 28+20W.

8.0) Conclusions

The geological survey has been successful at delineating a number of zones of interesting geology and anomalous mineralization. The rock sampling returned a value of 1060 ppb of Au from showing A as well as anomalous values from other locations. Although limited outcrop was examined, the mapping indicated units that could host gold mineralization. Of special interest is the increase in biotite content in the rocks surrounding showing A and the unit called granitized sediment (a possible porphyry) which appears to be the most altered and strained unit present. Much of the promising geology is located next to linear topographic low ground and swamps. The topographic low located east of showing A measures up to 100m wide and continues northward under White Lake.

9.0) Recommendations

Additional field work is required to map the south half of the grid. Areas of anomalous gold mineralization, such as showing A, should be followed up. Mechanical stripping of these areas would help to identify the source of the anomalous values while allowing more of the underlying geology to be observed.

References

Geddes, R.S. and Kristjansson, F.J., 1986, Quaternary geology of the Hemlo area: Constraints on mineral exploration; Canadian Geology Journal of the CIM, v. 1, no. 1 p.5-8

Milne, V.G., 1968, Geology of Black River Area; Ontario Department of Mines, Geological Report 72, 68 p

Muir, T.L., 1983, Geology of the Hemlo-Heron Bay Area; in The geology of gold in Ontario, Ontario Geological Survey, Misc. Paper 110, p.230-239

Muir, T.L., Schnieders, B. R. and Smyk, M.C. (compilers and editors), 1995, Geology and Gold Deposits of the Hemlo Area: Geological Association of Canada - Toronto '91, Hemlo Field Trip Guidebook, 120 p

Assessment Files

42C13SE0027 & 42C12NE0014	Transpacific Asbestos Inc. & Consolidated Reactor Uranium Mines Ltd.
42C13SE0020	Golden Shield Resources Ltd.
42C12NE0007	Golden Terrace Resources Corp.

Statement of Qualifications

I, Mary F. Stalker, of Timmins, Ontario, do hereby certify that:

1. I am currently employed as a project geologist by Royal Oak Mines Inc.

2. I am a graduate of the University of Waterloo with an honours B.Sc. in earth science (1986), and a graduate of McGill University with a M.Sc.A. in mineral exploration (1992).

3. I have been employed as a geologist by various exploration, mining and consulting companies since 1983.

4. I am directly responsible for the work outlined in this report and was present on the property when the work was performed.

5. I have no direct interest, nor do I have any shares of any company exploring the properties described in this report, nor on any adjacent or surrounding properties.

Dated this 8th day of October, 1995, Timmins, Ontario.

Mary F Stalker

M. F. Stalker
Project Geologist
Eastern Canada Exploration
Royal Oak Mines Inc.

APPENDIX A

Inventory of Claims

WHITE LAKE PROJECT (2000)

INVENTORY OF CLAIMS

Claim No.	Units	Area
TB782941	12	White Lake (North) (G-0622)
TB782942	12	White Lake (North) (G-0622)
TB782943	2	White Lake (South) (G-0623)
TB782944	15	White Lake (South) (G-0623)
TB1110122	9	White Lake (North) (G-0622)
TB1110123	8	White Lake (South) (G-0623)
TB1110124	3	White Lake (South) (G-0623)
TB1110125	14	White Lake (North) (G-0622)
TB1174578	12	White Lake (North) (G-0622)
TB1174579	12	White Lake (North) (G-0622)
TB1174580	15	White Lake (North) (G-0622)
TB1174581	16	White Lake (North) (G-0622)
TB1174582	4	White Lake (South) (G-0623)

APPENDIX B

Micro Probe Analysis of Gold Grains

GOLD SAMPLE - Hg ANALYSIS, ROYAL OAK MINES INC., June 25 1995, R.L.B

		Au	Ag	Hg	TOTAL
COAD GRAIN 1		92.71	7.05	0.15	99.91
		92.79	6.57	0.05	99.41
		94.07	7.17	0.03	101.27
		91.87	7.14	0.07	99.08
		92.51	6.67	0.06	99.19
		93.26	7.29	0.00	100.54
		91.73	6.92	0.21	98.86
		92.12	6.78	0.12	99.03
		92.74	6.85	0.02	99.61
		92.90	7.26	0.05	100.22
		93.14	6.61	0.05	99.80
		92.68	6.93	0.14	99.75
		92.14	6.64	0.11	98.90
		92.56	6.43	0.00	98.98
COAD GRAIN 2	CENTRAL	92.69	7.44	0.03	100.16
	INTERIOR	92.87	7.21	0.00	100.08
	INTERIOR	92.86	7.38	0.00	100.24
	AT MARGIN	91.76	7.14	0.08	98.98
	AT MARGIN	93.15	6.97	0.01	100.13
COAD GRAIN 3	CENTRAL	92.57	7.11	0.00	99.68
	CENTRAL	92.31	7.18	0.00	99.48
	CENTRAL	91.93	7.27	0.01	99.21
	INTERIOR	92.11	7.12	0.00	99.23
	AT MARGIN	92.75	7.14	0.00	99.90
	AT MARGIN	93.45	7.29	0.13	100.86
	AT MARGIN	92.64	7.09	0.03	99.76
COAD GRAIN 4	CENTRAL	93.29	7.07	0.00	100.35
	CENTRAL	92.43	7.12	0.00	99.55
	CENTRAL	92.34	7.08	0.00	99.42
	AT MARGIN	93.36	7.05	0.00	100.40
	AT MARGIN	93.50	6.77	0.00	100.27
	AT MARGIN	92.94	7.22	0.00	100.16

APPENDIX C

XRD Analysis

Laurentian University
Ramsey Lake Road, Sudbury, Ontario, Canada P3E 2C6
TEL (705) 675-1151, ext. 2283
FAX (705) 673-6508

Université Laurentienne
Chemin du lac Ramsey, Sudbury (Ontario) Canada P3E 2C6
TEL (705) 675-1151, poste 2283
Télécopieur (705) 673-6508

June 28, 1995

Dr. Reno Pressacco
Project Geologist
Eastern Canada Exploration
Royal Oak Mines Inc.
P.O. Bag 2010
Timmins, Ontario
P4N 7X7

Dear Dr. Pressacco:

After XRD studies:

(1) Sample No. 19206:
The blue-grey crystalline material is mocrocline.

(2) Sample No. 19207:
Sorry, I could not identified them.

APPENDIX D

Rock Sample Descriptions

Rock Sample Descriptions

Sample #	Location	Description	Au (ppb)
11601	Showing A (Inset A)	2' chip across biotite schist, 1-5% quartz	70
11602	Showing A (Inset A)	Pegmatite with garnets, biotite, microcline, and quartz	1060
11603	Showing A (Inset A)	Biotite schist, host of quartz stringer (not included)	515
11604	Showing A (Inset A)	Sheared mafic volcanic with garnets	35
11605	Showing A (Inset A)	FLOAT, Pegmatite with biotite, microcline and quartz	70
11606	Showing A (Inset A)	4' chip across biotite schist, 0.5% quartz, 1-10% garnets	35
11607	Showing A (Inset A)	5' chip of sheared mafic volcanic, 0.5% quartz,2% garnets	<35
11608	Showing A (Inset A)	Mafic volcanic and pegmatite and quartz sringer	<35
11609	9+31N,24+92W	4' chip of sheared mafic volcanic, 0.5% quartz, garnets	<35
11610	10+12N,25+03W	Granitized sediment?, tr of pyrite, sericite schist	35
11611	10+05N,25+05W	Biotite schist with pegmatite stringer, 1-3% quartz	70
11612	12+10N,24+60W	Granitized sediment? with garnets and epidote band	35
11613	13+65N,24+76W	Rusty mafic volcanics with garnets, 1% py, tr cpy	35
19202	10+10N,25+04W	Granitized sediment or altered porphyry	<35
19601	15+90N,19+25W	Quartz stringer in mafic volcanics, 40% quartz	<1
19602	10+20N,30+76W	Mafic volcanic with minor pyrite	<1
19603	10+15N,30+68W	Rusty mafic volcanic, minor py	1
19604	10+32N,30+67W	3-5cm quartz and granitic stringer with mafic volcanic	<1
19605	11+30N,28+85W	Rusty mafic volcanic with biotite and garnets, minor qtz	10
19606	12+20N,24+65W	Granitized sediment? with 0.5cm quartz lense	<1
19607	12+38N,24+70W	Granitized sediment? with minor quartz and epidote	<1
19608	11+90N,24+62W	Granitized sediment? with minor quartz and epidote	<1
19609	11+40N,24+60W	1cm quartz stringer in granitic intrrusion	1
19610	10+94N,24+58W	FLOAT, boulder of white quartz with minor epidote	<1
19611	11+55N,32+50W	Epidote and quartz stringer with minor mafic-granodiorite	<1
19612	11+57N,32+48W	Quartz pod in epidote stringer, minor garnets	<1
19613	11+65N,32+57W	Sheared granodiorite	<1
19614	11+62N,32+30W	Rusty and clear quartz and mafic volcanic	<1
19615	11+63N,32+23W	Rusty mafic volcanic with pyrite	<1
19616	11+60N,32+20W	Mafic volcanic with 10% py cubes	5
19617	11+58N,32+33W	Rusty mafic volcanic with pods of py cubes	1
19618	11+56N,32+20W	Rusty mafic volcanic with 3% pyrite cubes	<1
19619	11+64N,32+20W	Rusty mafic volcanic with minor epidote and phlogobite	<1
19620	11+54N,32+16W	Rusty mafic volcanic	2
19621	11+42N,32+12W	Rusty biotite rich mafic volcanic, 5% py	3
19622	11+32N,29+98W	White and clear quartz and granodiorite host (50%)	3
19623	11+26N,31+79W	FLOAT, 4cm white quartz stringer	<1
19624	11+26N,31+79W	Quartz stringer with mafic volcanic host, 5% py	<1
19625	11+36N,31+82W	White, grey, and clear quartz stringers with granite	<1
19676	10+05N,30+42W	Mafic volcanic with minor pyrite	7
19677	9+95N,30+43W	Rusty mafic volcanic with 0.5% py	21
19678	9+85N,30+40W	Quartz stringer with minor mafic volcanic host	1
19679	9+85N,30+40W	Mafic volcanic host rock of sample 19678, minor py	<1
19680	9+80N,30+40W	Rusty mafic volcanic	5
19681	9+80N,30+34W	Quartz stringer, minor mafic and granitic host	3
19682	Showing A (Inset A)	Quartz stringer with mafic volcanics	3

Sample#	Location	Description	Au(ppb)
19683	Showing A (Inset A)	Quartz stringer (30%) with mafic volcanic (70%)	86
19684	Showing A (Inset A)	Sheared mafic volcanic, tr py	39
19685	Showing A (Inset A)	Biotite rich mafic volcanic, tr py	24
19686	Showing A (Inset A)	Biotite rich sheared mafic volcanic, minor quartz	3
19687	10+10N,25+04W	Granitized sediment? with minor quartz and py	2
19688	7+95N,25+33W	Quartz stringer and granitic intrusion, minor py	<1
19689	9+95N,24+65W	Rusty granitized sediment? with quartz stringer	<1
19690	Showing A (Inset A)	Rusty biotite rich mafic volcanic with quartz stringers	1
19691	9+13N,25+20W	Rusty biotite rich mafic volcanic with common garnets	<1
19692	9+15N,25+16W	Rusty biotite rich mafic volcanic, minor py	7
19693	11+98N,27+46W	White and clear quartz stringer (65%) with migmatite	<1
19694	13+92N,22+87W	Mafic volcanic with minor quartz and py	8
19695	13+92N,22+90W	Quartz stringer with amphibolite host	<1
19696	13+60N,24+79W	Thin quartz stringer with mafic volcanics	<1
19697	13+48N,24+80W	Rusty mafic volcanic	13
19698	12+72N,24+89W	Rusty biotite rich mafic volcanic	<1
19699	10+57N,25+35W	Mafic volcanic, tr bornite?	1
19700	10+57N,25+35W	Pegmatite intrusion with minor mica schist, tr py	200
19701	9+62N,25+02W	Rusty sheared mafic volcanic	4
19702	9+51N,25+01W	Rusty mafic volcanic	40
19703	9+46N,24+85W	Sheared granitized sediment?, minor quartz	9
19704	9+30N,24+93W	Rusty mafic volcanic with garnets, minor quartz	2
19705	9+17N,25+14W	Rusty biotite rich mafic volcanic	1
19706	9+20N,25+07W	Rusty biotite rich mafic volcanic	26
19707	9+25N,24+94W	Rusty mafic volcanic with pegmatite, minor quartz	4
19708	6+03N,26+57W	Mafic volcanic with minor quartz	2
19709	6+40N,26+09W	Rusty garnet rich mafic volcanic	35
19710	6+02N,21+90W	Folded quartz stringer in sheared mafic volcanic	1
19711	7+00N,20+65W	1cm quartz stringer in amphibolite	3
19712	7+13N,21+63W	Silicified sheared amphibolite, minor quartz stringer	<1
19713	4+08N,25+65W	Mafic volcanic on contact of sheared amphibolite	1
19714	3+90N, 18+48W	Gabbro	4
19715	2+82N,18+40W	Pegmatite	<1
19716	2+04N,16+10W	Thin quartz stringer in sheared amphibolite	<1
19717	4+00N,28+99W	Quartz stringer in mafic volcanic	<1
19718	4+03N,28+53W	Quartz stringer (35%) in mafic volcanic with garnets	<1
19719	16+91N,28+50W	Rusty mafic volcanic, minor quartz, minor py	<1
19720	16+95N,28+38W	Quartz stringer with minor mafic volcanic	4
19721	17+00N,28+29W	Chip across 15cm quartz vein, minor mafic volcanic	<1
19722	17+01N,28+29W	Chip across 40cm quartz vein (same vein as 19721)	<1
19723	17+01N,28+29W	Quartz vein (near sample 19722)	<1
19724	17+01N,28+29W	Wall rock of vein of sample 19723	<1
19725	16+65N,26+43W	Quartz stringer in mafic volcanic	13
19851	31+12W,0+12S	Granitic intrusion and amphibolite	<1
19852	0+00N,26+92W	Mafic volcanic with quartz stringers	3
19853	0+12N,25+95W	Granitic intrusion with host amphibolite	<1
19854	0+8N,25+95W	Rusty amphibolite and granitized sediment?	2
19855	0+14S,26+05W	Granitic intrusion in amphibolite	<1

Sample #	Location	Description	Au(ppb)
19856	17+17N,27+63W	Quartz stringer, minor mafic volcanics	<1
19857	17+25N,27+80W	Rusty biotite rich mafic, tr py	2
19858	17+10N,28+03W	Quartz stringer	2
19859	0+20S,25+96W	Sheared sediments? and granodiorite	4
19860	0+20N,26+00W	Sheared amphibolite with granitic intrusion	<1
19861	0+29N,25+98W	Sheared sedment? and mafic volcanic	<1
19862	0+05N,22+80W	Rusty sheared mafic volcanic	<1
19863	0+17N,18+05W	Mafic volcanic	<1
19864	1+94N,22+96W	Silicic sheared mafic volcanic	4
19865	4+40N,28+60W	Quartz stringer in mafic volcanic host, common garnets	<1
19527	8+00N,27+35W	Mafic volcanic with bleached band, minor py	<35
19528	8+00N,27+35W	Mafic volcanic with red stained felsic stringer, tr py	<35
19529	8+00N,27+35W	Granitic intrusion with quartz stringer, minor py	205
19530	8+00N,27+35W	Amphobolite	<35
19531	8+00N,27+65W	Biotite rich mafic volcanic / lamprophyre?	<35
19532	8+00N,28+20W	Rusty biotite schist	<35
19533	8+00N,28+20W	Sheared granodiorite	<35
19534	8+00N,28+20W	Sheared mafic volcanic	410
19535	8+00N,28+20W	Mafic volcanic with clear quartz stringer, common py	135
19536	8+00N,28+20W	Rusty biotite rich amphibolite, minor py	<35
19551	4+23N,15+62W	Amphibolite, minor py	205
19552	4+35N,15+62W	Amphibolite with rusty granitic stringer, 0.5% py	<35
19553	4+35N,15+62W	Granodiorite	<35
19554	4+35N,15+62W	Mafic volcanic , minor py	<35
19555	4+35N,15+62W	Mafic volcanic with calcite stringer, minor py	<35
19556	4+40N,15+75W	Amphibolite, minor carbonate, minor py	<35
19557	4+40N,15+75W	Amphibolite with granitic intrusion, 1% py, minor cpy	<35
19558	3+65N,18+03W	Gabbro	<35
19559	3+65N,18+03W	Gabbro	<35
19560	7+06N,25+80W	Sheared mafic volcanic, tr py	<35
19561	7+90N,25+33W	Biotite rich granodiorrite	<35
19562	6+98N,25+82W	Amphibolite and pegmatite with 2cm quarrtz stringer	<35
19563	7+00N,25+90W	Sheared amphibolite on contact with pegmatite	<35
19564	7+00N,26+74W	Biotite schist, tr py	<35
19566	1+90N,30+62W	Carbonitized amphibolite, tr py	<35
19567	1+90N,30+62W	Banded granodiorite and amphibolite with quartz pods	<35
19568	1+90N,30+62W	Sheared amphibolite sediment, minor quartz, tr py	<35
19569	2+00N,30+31W	Sheared amphibolite sediment, 1% py	<35
19570	2+00N,30+31W	Rusty amphibolite with white quarrtz stringer	<35
19572	7+20N,27+09W	Mafic volcanic , 2% py	<35
19573	5+75S,27+00W	Biotite schist with minor quartz stringer	<35
19574	6+00S,28+10W	Sericitized mafic volcanic, 0.5% py	<35
19575	5+35S,27+10W	Amphibolite to granodiorite	135
19868	4+40N,15+75W	Rusty pegmatite with quartz stringer, tr py	<35

APPENDIX E

Rock Sample Assay Certificates

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: ROYAL OAK MINES INC.
TIMMINS DIVISION
P.O. BOX 2010
TIMMINS, ON
P4N 7X7

Project : 2000
Comments: ATTN: M. STALKER

Certificate Date: 24-AUG-95
Invoice No. : I9524910
P.O. Number : P211451
Account : JWW

CERTIFICATE OF ANALYSIS A9524910

SAMPLE	PREP CODE		Au ppb EXT-AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
19601	205	226	< 1	< 0.2	0.91	2	10	< 0.5	< 2	0.90	< 0.5	10	217	24	1.75	< 10	< 1	0.03	< 10	0.24	680
19602	205	226	< 1	0.2	1.94	8	100	< 0.5	< 2	1.95	< 0.5	20	108	177	2.23	< 10	< 1	0.10	< 10	0.73	455
19603	205	226	1	0.4	1.55	2	40	< 0.5	< 2	1.49	< 0.5	15	128	521	5.64	< 10	< 1	0.16	< 10	0.69	780
19604	205	226	< 1	< 0.2	1.27	4	150	< 0.5	< 2	0.76	< 0.5	10	129	29	1.87	< 10	< 1	0.18	30	0.71	360
19605	205	226	10	0.2	1.57	6	20	< 0.5	< 2	1.35	< 0.5	10	186	140	4.86	< 10	< 1	0.09	< 10	0.82	665
19606	205	226	< 1	< 0.2	0.53	6	30	< 0.5	< 2	0.20	< 0.5	3	187	7	1.15	< 10	< 1	0.30	< 10	0.27	130
19607	205	226	< 1	< 0.2	1.30	< 2	30	< 0.5	< 2	1.39	< 0.5	3	146	2	0.82	< 10	< 1	0.16	10	0.17	310
19608	205	226	< 1	< 0.2	0.64	< 2	10	< 0.5	< 2	0.39	< 0.5	6	105	5	1.28	< 10	< 1	0.09	10	0.39	170
19609	205	226	1	< 0.2	0.27	2	10	< 0.5	< 2	0.08	< 0.5	1	143	3	0.44	< 10	< 1	0.13	< 10	0.06	70
19610	205	226	< 1	< 0.2	0.04	< 2	< 10	< 0.5	< 2	0.07	< 0.5	1	281	2	0.29	< 10	< 1	< 0.01	< 10	0.03	25
19611	205	226	< 1	< 0.2	0.74	< 2	10	< 0.5	< 2	0.88	< 0.5	5	198	8	1.02	< 10	< 1	0.03	10	0.34	160
19612	205	226	< 1	< 0.2	0.78	< 2	10	< 0.5	< 2	0.23	< 0.5	8	186	7	1.63	< 10	< 1	0.02	< 10	0.71	240
19613	205	226	< 1	0.2	0.93	4	120	< 0.5	< 2	0.38	< 0.5	11	172	15	2.00	< 10	< 1	0.30	20	0.67	315
19614	205	226	< 1	0.2	0.82	< 2	20	< 0.5	< 2	1.18	< 0.5	10	443	56	1.79	< 10	< 1	0.02	10	0.17	250
19615	205	226	< 1	0.2	1.75	6	< 10	< 0.5	< 2	1.07	< 0.5	36	70	150	5.02	< 10	< 1	0.06	< 10	1.26	890
19616	205	226	5	0.2	0.39	8	20	< 0.5	< 2	0.71	< 0.5	52	94	110	5.23	< 10	< 1	0.04	< 10	0.12	145
19617	205	226	1	< 0.2	0.77	< 2	< 10	< 0.5	< 2	1.24	< 0.5	25	53	532	4.01	< 10	< 1	< 0.01	10	0.10	160
19618	205	226	< 1	< 0.2	1.24	< 2	< 10	< 0.5	< 2	1.52	< 0.5	13	82	332	2.83	< 10	< 1	0.01	< 10	0.39	400
19619	205	226	< 1	0.2	1.15	< 2	< 10	< 0.5	< 2	1.35	< 0.5	15	73	66	2.89	< 10	< 1	0.04	10	0.49	485
19620	205	226	2	0.2	1.43	< 2	10	< 0.5	< 2	1.62	< 0.5	13	55	100	3.64	< 10	< 1	0.09	10	0.61	655
19621	205	226	3	< 0.2	1.04	8	< 10	< 0.5	< 2	0.49	< 0.5	23	65	164	6.12	< 10	< 1	0.01	10	0.79	395
19622	205	226	3	< 0.2	0.30	< 2	< 10	< 0.5	< 2	0.25	< 0.5	3	234	12	0.75	< 10	< 1	0.01	< 10	0.19	100
19623	205	226	< 1	< 0.2	0.44	< 2	< 10	< 0.5	< 2	0.61	< 0.5	1	240	7	0.46	< 10	< 1	0.03	10	0.12	55
19624	205	226	< 1	< 0.2	1.16	4	< 10	< 0.5	< 2	1.38	< 0.5	24	123	33	2.89	< 10	< 1	0.01	10	0.83	400
19625	205	226	< 1	< 0.2	0.52	< 2	< 10	< 0.5	< 2	0.60	< 0.5	3	233	7	0.78	< 10	< 1	0.01	10	0.26	100
19676	205	226	7	< 0.2	2.37	12	30	< 0.5	< 2	2.37	< 0.5	19	88	213	2.45	< 10	< 1	0.05	< 10	0.85	380
19677	205	226	21	0.2	1.51	2	30	< 0.5	< 2	1.21	< 0.5	33	100	857	5.79	< 10	< 1	0.09	10	0.91	335
19678	205	226	1	< 0.2	2.19	12	20	< 0.5	< 2	1.56	< 0.5	15	222	260	3.44	< 10	< 1	0.02	< 10	1.11	555
19679	205	226	< 1	0.2	2.05	2	30	< 0.5	< 2	1.28	< 0.5	14	149	177	3.65	< 10	< 1	0.04	< 10	1.17	635
19680	205	226	5	0.4	1.77	8	80	< 0.5	< 2	1.24	< 0.5	11	98	88	5.06	< 10	< 1	0.09	< 10	1.09	690
19681	205	226	3	< 0.2	0.37	< 2	20	< 0.5	< 2	0.27	< 0.5	1	214	6	0.51	< 10	< 1	0.04	< 10	0.15	50
19682	205	226	3	< 0.2	0.64	< 2	20	< 0.5	< 2	0.98	< 0.5	8	210	37	1.19	< 10	< 1	0.06	< 10	0.09	250
19683	205	226	86	< 0.2	0.76	2	10	< 0.5	< 2	2.14	< 0.5	10	212	29	1.01	< 10	< 1	0.04	< 10	0.19	225
19684	205	226	39	0.2	0.38	< 2	< 10	< 0.5	< 2	0.74	0.5	31	139	173	2.68	< 10	< 1	0.02	< 10	0.13	205
19685	205	226	24	0.4	1.61	12	40	< 0.5	< 2	1.66	< 0.5	38	92	583	5.55	< 10	< 1	0.20	10	0.47	880
19686	205	226	3	< 0.2	0.80	8	10	< 0.5	< 2	0.78	< 0.5	12	219	28	1.09	< 10	< 1	0.04	< 10	0.13	210
19687	205	226	2	< 0.2	0.80	< 2	20	< 0.5	< 2	0.64	< 0.5	4	149	33	1.08	< 10	< 1	0.17	10	0.28	205
19688	205	226	< 1	< 0.2	2.44	< 2	< 10	< 0.5	< 2	0.85	< 0.5	24	134	37	5.48	< 10	< 1	0.03	< 10	1.41	1265
19689	205	226	< 1	< 0.2	0.44	< 2	10	< 0.5	< 2	0.19	< 0.5	4	120	11	1.23	< 10	< 1	0.10	10	0.24	140
19690	205	226	1	0.2	0.95	4	40	< 0.5	< 2	0.46	< 0.5	12	138	66	2.65	< 10	< 1	0.26	< 10	0.47	225

CERTIFICATION: Stan Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: ROYAL OAK MINES INC.
TIMMINS DIVISION
P.O. BOX 2010
TIMMINS, ON
P4N 7X7

Project : 2000
Comments: ATTN: M. STALKER

Page Number : 1-B
Total Pages : 3
Certificate Date: 24-AUG-95
Invoice No. : I9524910
P.O. Number : P211451
Account : JWW

CERTIFICATE OF ANALYSIS A9524910

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
19601	205	226	< 1	0.02	20	710	< 2	< 2	10	31	0.08	< 10	< 10	52	< 10	28
19602	205	226	< 1	0.11	60	210	2	< 2	6	24	0.13	< 10	< 10	53	< 10	32
19603	205	226	< 1	0.11	22	170	2	< 2	9	9	0.11	< 10	< 10	56	< 10	24
19604	205	226	< 1	0.07	21	370	6	< 2	5	18	0.12	< 10	< 10	40	< 10	38
19605	205	226	< 1	0.11	21	140	< 2	< 2	13	4	0.04	< 10	< 10	61	< 10	32
19606	205	226	< 1	0.07	14	290	< 2	< 2	2	18	0.10	< 10	< 10	22	< 10	30
19607	205	226	< 1	0.02	10	280	< 2	< 2	1	29	0.05	< 10	< 10	10	< 10	24
19608	205	226	< 1	0.06	14	300	< 2	< 2	1	51	0.08	< 10	< 10	15	< 10	24
19609	205	226	< 1	0.03	4	100	< 2	< 2	< 1	4	0.01	< 10	< 10	6	< 10	8
19610	205	226	< 1	< 0.01	6	< 10	< 2	< 2	< 1	11	< 0.01	< 10	< 10	2	< 10	< 2
19611	205	226	< 1	0.02	18	280	< 2	< 2	1	223	0.09	< 10	< 10	25	< 10	48
19612	205	226	< 1	0.06	26	290	< 2	< 2	2	36	0.08	< 10	< 10	30	< 10	36
19613	205	226	< 1	0.07	38	400	2	< 2	6	25	0.14	< 10	< 10	48	< 10	62
19614	205	226	< 1	0.01	14	160	< 2	2	3	77	0.14	< 10	< 10	41	< 10	18
19615	205	226	< 1	0.04	30	440	< 2	< 2	8	79	0.25	< 10	< 10	107	< 10	64
19616	205	226	< 1	0.05	32	440	4	< 2	4	69	0.32	< 10	< 10	47	< 10	12
19617	205	226	< 1	< 0.01	16	330	2	< 2	5	214	0.28	< 10	< 10	55	< 10	8
19618	205	226	< 1	0.01	15	370	< 2	< 2	6	182	0.26	< 10	< 10	72	< 10	22
19619	205	226	< 1	0.05	18	400	< 2	< 2	7	149	0.29	< 10	< 10	85	< 10	30
19620	205	226	3	0.07	13	390	< 2	2	11	124	0.31	< 10	< 10	101	< 10	40
19621	205	226	< 1	0.03	23	370	4	2	5	68	0.25	< 10	< 10	84	< 10	42
19622	205	226	< 1	0.03	13	160	2	< 2	1	23	0.04	< 10	< 10	14	< 10	16
19623	205	226	< 1	0.01	6	130	2	< 2	< 1	82	0.02	< 10	< 10	16	< 10	2
19624	205	226	< 1	0.01	27	590	< 2	< 2	5	192	0.24	< 10	< 10	67	< 10	32
19625	205	226	< 1	0.02	6	250	2	< 2	1	220	0.05	< 10	< 10	30	< 10	6
19676	205	226	< 1	0.20	54	190	< 2	2	7	27	0.10	< 10	< 10	47	< 10	62
19677	205	226	< 1	0.13	53	210	4	2	8	11	0.06	< 10	< 10	52	< 10	62
19678	205	226	< 1	0.05	35	200	6	2	9	12	0.11	< 10	< 10	72	< 10	64
19679	205	226	< 1	0.09	40	220	< 2	< 2	10	12	0.15	< 10	< 10	71	< 10	68
19680	205	226	< 1	0.17	28	210	14	2	9	9	0.09	< 10	< 10	62	< 10	34
19681	205	226	< 1	0.03	7	30	4	< 2	< 1	25	0.02	< 10	< 10	9	< 10	6
19682	205	226	< 1	0.03	14	280	2	< 2	2	21	0.08	< 10	< 10	36	< 10	24
19683	205	226	1	0.03	14	140	2	< 2	4	12	0.05	< 10	< 10	42	< 10	34
19684	205	226	1	0.05	81	390	2	< 2	3	19	0.23	< 10	< 10	41	< 10	62
19685	205	226	1	0.11	38	390	< 2	2	10	11	0.13	< 10	< 10	100	< 10	52
19686	205	226	< 1	0.11	31	180	2	< 2	2	40	0.06	< 10	< 10	29	< 10	20
19687	205	226	< 1	0.03	9	390	6	< 2	1	22	0.07	< 10	< 10	18	< 10	36
19688	205	226	< 1	0.06	36	420	< 2	< 2	9	6	0.26	< 10	< 10	165	< 10	62
19689	205	226	< 1	0.06	12	250	2	< 2	1	15	0.05	< 10	< 10	18	< 10	28
19690	205	226	< 1	0.07	16	310	< 2	< 2	7	3	0.11	< 10	< 10	102	< 10	34

CERTIFICATION: Stan Butler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: ROYAL OAK MINES INC.
TIMMINS DIVISION
P.O. BOX 2010
TIMMINS, ON
P4N 7X7

Project : 2000
Comments: ATTN: M. STALKER

Certificate Date: 24-AUG-95
Invoice No. : I9524910
P.O. Number : P211451
Account : JWW

CERTIFICATE OF ANALYSIS A9524910

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
19691	205	226	< 1	0.31	10	300	< 2	2	7	76	0.23	< 10	< 10	67	< 10	36
19692	205	226	< 1	0.19	7	300	2	< 2	11	20	0.09	< 10	< 10	142	< 10	52
19693	205	226	< 1	0.08	10	150	< 2	< 2	1	33	0.08	< 10	< 10	21	< 10	14
19694	205	226	< 1	0.03	10	470	2	< 2	6	32	0.28	< 10	< 10	98	< 10	16
19695	205	226	< 1	0.07	12	120	< 2	< 2	4	11	0.13	< 10	< 10	57	< 10	14
19696	205	226	< 1	< 0.01	6	390	< 2	2	12	4	0.11	< 10	< 10	157	< 10	36
19697	205	226	1	0.19	19	490	< 2	4	19	21	0.09	< 10	< 10	255	< 10	66
19698	205	226	7	0.11	24	470	< 2	2	20	7	0.14	< 10	< 10	251	< 10	40
19699	205	226	< 1	0.14	50	520	12	< 2	14	12	0.17	< 10	< 10	107	< 10	112
19700	205	226	< 1	0.06	3	190	22	< 2	3	11	0.06	< 10	< 10	24	< 10	24
19701	205	226	< 1	0.11	39	510	2	< 2	10	6	0.15	< 10	< 10	91	< 10	102
19702	205	226	1	0.09	2	440	6	< 2	9	14	0.13	< 10	< 10	79	< 10	40
19703	205	226	< 1	0.05	8	270	2	< 2	< 1	26	0.05	< 10	< 10	11	< 10	24
19704	205	226	< 1	0.08	23	230	< 2	2	16	12	0.19	< 10	< 10	208	< 10	86
19705	205	226	45	0.19	13	440	< 2	2	15	10	0.08	< 10	< 10	126	< 10	68
19706	205	226	1	0.08	4	380	4	< 2	9	8	0.07	< 10	< 10	90	< 10	38
19707	205	226	< 1	0.11	12	390	4	< 2	14	7	0.25	< 10	< 10	140	< 10	82
19708	205	226	1	0.27	9	180	< 2	< 2	2	55	0.17	< 10	< 10	20	< 10	14
19709	205	226	< 1	0.09	4	180	4	2	7	11	0.07	< 10	< 10	49	< 10	16
19710	205	226	< 1	0.04	18	230	< 2	< 2	3	22	0.03	< 10	< 10	35	< 10	40
19711	205	226	< 1	0.03	15	100	< 2	< 2	1	23	0.04	< 10	< 10	15	< 10	32
19712	205	226	< 1	0.03	52	630	2	< 2	1	65	0.06	< 10	< 10	13	< 10	48
19713	205	226	1	0.21	35	180	< 2	< 2	12	31	0.14	< 10	< 10	72	< 10	20
19714	205	226	< 1	0.14	111	320	2	< 2	3	48	0.04	< 10	< 10	26	< 10	18
19715	205	226	< 1	0.02	4	< 10	2	< 2	< 1	2	< 0.01	< 10	< 10	< 1	< 10	< 2
19716	205	226	16	0.13	12	140	< 2	< 2	10	6	0.12	< 10	< 10	77	< 10	40
19717	205	226	1	0.06	21	620	< 2	< 2	1	36	0.06	< 10	< 10	9	< 10	8
19718	205	226	108	0.07	31	170	< 2	< 2	4	7	0.12	< 10	< 10	48	< 10	14
19719	205	226	< 1	0.15	46	160	2	< 2	8	11	0.09	< 10	< 10	51	< 10	28
19720	205	226	2	0.04	10	400	2	< 2	1	12	0.06	< 10	< 10	21	< 10	16
19721	205	226	3	0.03	22	140	2	< 2	4	23	0.08	< 10	< 10	49	< 10	16
19722	205	226	< 1	0.03	17	180	< 2	< 2	3	27	0.13	< 10	< 10	38	< 10	28
19723	205	226	1	< 0.01	4	100	< 2	< 2	< 1	16	< 0.01	< 10	< 10	3	< 10	6
19724	205	226	< 1	0.17	51	290	< 2	< 2	14	80	0.25	< 10	< 10	134	< 10	32
19725	205	226	< 1	0.03	29	100	< 2	< 2	1	7	0.06	< 10	< 10	18	< 10	4
19851	205	226	< 1	0.10	20	670	14	< 2	4	59	0.11	< 10	< 10	42	< 10	42
19852	205	226	< 1	0.15	28	170	< 2	2	12	9	0.16	< 10	< 10	85	< 10	20
19853	205	226	< 1	0.06	25	240	2	< 2	4	12	0.13	< 10	< 10	43	< 10	38
19854	205	226	< 1	0.06	52	430	< 2	< 2	7	7	0.25	< 10	< 10	87	< 10	76
19855	205	226	< 1	0.03	9	320	< 2	< 2	1	12	0.05	< 10	< 10	15	< 10	14

CERTIFICATION: Stan Bidlen

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: ROYAL OAK MINES INC.
TIMMINS DIVISION
P.O. BOX 2010
TIMMINS, ON
P4N 7X7

Project : 2000
Comments: ATTN: M. STALKER

Certificate Date: 24-AUG-95
Invoice No. : I9524910
P.O. Number : P211451
Account : JWW

CERTIFICATE OF ANALYSIS A9524910

SAMPLE	PREP CODE		Au ppb EXT-AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
19691	205	226	< 1	0.2	2.45	6	30	< 0.5	< 2	2.47	< 0.5	7	129	128	2.17	< 10	< 1	0.06	< 10	0.33	700
19692	205	226	7	< 0.2	1.39	4	20	< 0.5	< 2	1.27	< 0.5	4	70	198	11.70	< 10	< 1	0.18	10	0.62	1165
19693	205	226	< 1	< 0.2	0.38	< 2	10	< 0.5	< 2	0.49	< 0.5	2	300	4	0.93	< 10	< 1	0.06	< 10	0.24	130
19694	205	226	8	0.2	1.03	< 2	10	< 0.5	< 2	1.61	< 0.5	11	122	556	1.68	< 10	< 1	0.01	< 10	0.21	225
19695	205	226	< 1	< 0.2	0.63	< 2	20	< 0.5	< 2	0.73	< 0.5	6	187	29	1.47	< 10	< 1	0.13	< 10	0.38	190
19696	205	226	< 1	0.2	1.89	4	20	< 0.5	< 2	5.44	< 0.5	10	180	6	1.87	< 10	< 1	< 0.01	< 10	0.06	2090
19697	205	226	13	0.8	2.24	6	70	< 0.5	< 2	1.97	< 0.5	19	102	357	9.13	< 10	< 1	0.25	10	0.88	1060
19698	205	226	< 1	0.6	1.62	14	240	< 0.5	< 2	0.63	< 0.5	24	188	175	4.92	< 10	< 1	0.63	< 10	0.81	560
19699	205	226	1	0.4	1.18	6	10	< 0.5	< 2	1.30	< 0.5	33	70	151	3.50	< 10	< 1	0.15	10	0.58	520
19700	205	226	200	0.2	0.63	4	20	< 0.5	< 2	0.49	< 0.5	3	160	4	1.21	< 10	< 1	0.15	10	0.20	195
19701	205	226	4	0.2	0.98	12	50	< 0.5	< 2	0.83	< 0.5	23	61	101	3.90	< 10	< 1	0.10	10	0.52	375
19702	205	226	40	0.6	0.97	22	60	< 0.5	< 2	0.80	< 0.5	1	85	113	5.51	< 10	< 1	0.11	10	0.33	615
19703	205	226	9	< 0.2	0.59	< 2	30	< 0.5	< 2	0.85	< 0.5	4	142	7	0.55	< 10	< 1	0.06	10	0.14	430
19704	205	226	2	0.4	2.76	4	130	< 0.5	< 2	0.99	< 0.5	15	159	235	6.21	< 10	< 1	1.07	10	1.12	615
19705	205	226	1	0.4	1.24	< 2	40	< 0.5	< 2	1.28	< 0.5	11	79	29	4.67	< 10	< 1	0.11	< 10	0.61	1045
19706	205	226	26	0.6	1.28	4	10	< 0.5	< 2	1.09	< 0.5	4	114	212	6.27	< 10	< 1	0.07	< 10	0.34	1910
19707	205	226	4	0.2	1.73	4	240	< 0.5	< 2	0.53	< 0.5	11	147	83	5.58	< 10	< 1	0.96	10	0.81	405
19708	205	226	2	< 0.2	3.06	2	10	< 0.5	< 2	2.41	< 0.5	3	104	31	0.50	< 10	< 1	0.01	< 10	0.16	145
19709	205	226	35	0.4	1.22	4	20	< 0.5	< 2	1.23	< 0.5	3	95	237	5.28	< 10	< 1	0.04	< 10	0.54	550
19710	205	226	1	0.2	0.95	< 2	10	< 0.5	< 2	0.70	< 0.5	9	421	19	2.15	< 10	< 1	0.07	< 10	0.38	235
19711	205	226	3	< 0.2	1.29	< 2	30	< 0.5	< 2	3.30	< 0.5	8	137	134	0.84	< 10	< 1	0.01	< 10	0.10	220
19712	205	226	< 1	< 0.2	0.67	2	10	< 0.5	< 2	2.65	< 0.5	12	203	23	0.69	< 10	< 1	0.02	20	0.13	580
19713	205	226	1	0.2	1.38	2	20	< 0.5	< 2	1.54	< 0.5	12	129	62	2.29	< 10	< 1	0.13	< 10	0.79	510
19714	205	226	4	< 0.2	0.55	< 2	120	< 0.5	< 2	0.70	< 0.5	18	377	88	1.86	< 10	< 1	0.22	10	2.02	220
19715	205	226	< 1	< 0.2	0.09	2	< 10	< 0.5	< 2	0.01	< 0.5	< 1	135	1	0.17	< 10	1	0.10	< 10	0.02	10
19716	205	226	< 1	0.4	1.06	2	10	3.5	< 2	0.86	< 0.5	7	349	40	3.10	< 10	< 1	0.09	< 10	0.57	375
19717	205	226	< 1	< 0.2	0.41	2	10	< 0.5	< 2	0.74	< 0.5	6	152	16	0.53	< 10	< 1	0.04	20	0.17	65
19718	205	226	< 1	0.2	1.27	2	30	< 0.5	< 2	1.29	< 0.5	10	165	21	1.11	< 10	< 1	0.12	< 10	0.47	310
19719	205	226	< 1	0.4	1.04	< 2	10	< 0.5	< 2	1.65	< 0.5	29	103	247	2.69	< 10	< 1	0.08	< 10	0.67	440
19720	205	226	4	0.2	0.38	4	10	< 0.5	< 2	0.35	< 0.5	3	245	10	1.00	< 10	< 1	0.05	10	0.35	100
19721	205	226	< 1	0.2	1.27	4	10	< 0.5	< 2	1.42	< 0.5	11	218	34	1.03	< 10	< 1	0.10	< 10	0.41	220
19722	205	226	< 1	0.2	0.97	2	20	< 0.5	< 2	2.36	< 0.5	9	228	45	1.17	< 10	< 1	0.10	< 10	0.32	210
19723	205	226	< 1	< 0.2	0.23	< 2	< 10	< 0.5	< 2	1.19	< 0.5	1	294	4	0.31	< 10	< 1	< 0.01	< 10	0.02	120
19724	205	226	< 1	0.6	3.98	18	60	< 0.5	< 2	4.83	< 0.5	26	162	99	3.79	< 10	< 1	0.14	< 10	1.57	555
19725	205	226	13	< 0.2	1.12	4	10	< 0.5	< 2	2.37	< 0.5	8	211	65	0.82	< 10	< 1	0.02	< 10	0.07	150
19851	205	226	< 1	0.4	1.07	2	30	< 0.5	< 2	1.11	< 0.5	9	133	21	1.69	< 10	< 1	0.16	10	0.99	275
19852	205	226	3	0.4	1.56	2	80	< 0.5	< 2	1.34	< 0.5	15	261	33	2.07	< 10	< 1	0.17	< 10	0.73	455
19853	205	226	< 1	0.2	0.97	8	110	< 0.5	< 2	0.30	< 0.5	8	185	30	1.98	< 10	1	0.60	< 10	0.51	300
19854	205	226	2	0.6	1.70	4	220	< 0.5	< 2	0.36	< 0.5	16	245	20	4.04	< 10	< 1	1.28	< 10	1.01	660
19855	205	226	< 1	< 0.2	0.31	4	30	< 0.5	< 2	0.25	< 0.5	2	171	2	0.75	< 10	< 1	0.14	< 10	0.25	90

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: ROYAL OAK MINES INC.
TIMMINS DIVISION
P.O. BOX 2010
TIMMINS, ON
P4N 7X7

Project : 2000
Comments: ATTN: M. STALKER

Certificate Date: 24-AUG-95
Invoice No. :I9524910
P.O. Number :P211451
Account :JWW

CERTIFICATE OF ANALYSIS A9524910

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
19691	205	226	< 1	0.31	10	300	< 2	2	7	76	0.23	< 10	< 10	67	< 10	36
19692	205	226	< 1	0.19	7	300	2	< 2	11	20	0.09	< 10	< 10	142	< 10	52
19693	205	226	< 1	0.08	10	150	< 2	< 2	1	33	0.08	< 10	< 10	21	< 10	14
19694	205	226	< 1	0.03	10	470	2	< 2	6	32	0.28	< 10	< 10	98	< 10	16
19695	205	226	< 1	0.07	12	120	< 2	< 2	4	11	0.13	< 10	< 10	57	< 10	14
19696	205	226	< 1	< 0.01	6	390	< 2	2	12	4	0.11	< 10	< 10	157	< 10	36
19697	205	226	1	0.19	19	490	< 2	4	19	21	0.09	< 10	< 10	255	< 10	66
19698	205	226	7	0.11	24	470	< 2	2	20	7	0.14	< 10	< 10	251	< 10	40
19699	205	226	< 1	0.14	50	520	12	< 2	14	12	0.17	< 10	< 10	107	< 10	112
19700	205	226	< 1	0.06	3	190	22	< 2	3	11	0.06	< 10	< 10	24	< 10	24
19701	205	226	< 1	0.11	39	510	2	< 2	10	6	0.15	< 10	< 10	91	< 10	102
19702	205	226	1	0.09	2	440	6	< 2	9	14	0.13	< 10	< 10	79	< 10	40
19703	205	226	< 1	0.05	8	270	2	< 2	< 1	26	0.05	< 10	< 10	11	< 10	24
19704	205	226	< 1	0.08	23	230	< 2	2	16	12	0.19	< 10	< 10	208	< 10	86
19705	205	226	45	0.19	13	440	< 2	2	15	10	0.08	< 10	< 10	126	< 10	68
19706	205	226	1	0.08	4	380	4	< 2	9	8	0.07	< 10	< 10	90	< 10	38
19707	205	226	< 1	0.11	12	390	4	< 2	14	7	0.25	< 10	< 10	140	< 10	82
19708	205	226	1	0.27	9	180	< 2	< 2	2	55	0.17	< 10	< 10	20	< 10	14
19709	205	226	< 1	0.09	4	180	4	2	7	11	0.07	< 10	< 10	49	< 10	16
19710	205	226	< 1	0.04	18	230	< 2	< 2	3	22	0.03	< 10	< 10	35	< 10	40
19711	205	226	< 1	0.03	15	100	< 2	< 2	1	23	0.04	< 10	< 10	15	< 10	32
19712	205	226	< 1	0.03	52	630	2	< 2	1	65	0.06	< 10	< 10	13	< 10	48
19713	205	226	1	0.21	35	180	< 2	< 2	12	31	0.14	< 10	< 10	72	< 10	20
19714	205	226	< 1	0.14	111	320	2	< 2	3	48	0.04	< 10	< 10	26	< 10	18
19715	205	226	< 1	0.02	4	< 10	2	< 2	< 1	2	< 0.01	< 10	< 10	< 1	< 10	< 2
19716	205	226	16	0.13	12	140	< 2	< 2	10	6	0.12	< 10	< 10	77	< 10	40
19717	205	226	1	0.06	21	620	< 2	< 2	1	36	0.06	< 10	< 10	9	< 10	8
19718	205	226	108	0.07	31	170	< 2	< 2	4	7	0.12	< 10	< 10	48	< 10	14
19719	205	226	< 1	0.15	46	160	2	< 2	8	11	0.09	< 10	< 10	51	< 10	28
19720	205	226	2	0.04	10	400	2	< 2	1	12	0.06	< 10	< 10	21	< 10	16
19721	205	226	3	0.03	22	140	2	< 2	4	23	0.08	< 10	< 10	49	< 10	16
19722	205	226	< 1	0.03	17	180	< 2	< 2	3	27	0.13	< 10	< 10	38	< 10	28
19723	205	226	1	< 0.01	4	100	< 2	< 2	< 1	16	< 0.01	< 10	< 10	3	< 10	6
19724	205	226	< 1	0.17	51	290	< 2	< 2	14	80	0.25	< 10	< 10	134	< 10	32
19725	205	226	< 1	0.03	29	100	< 2	< 2	1	7	0.06	< 10	< 10	18	< 10	4
19851	205	226	< 1	0.10	20	670	14	< 2	4	59	0.11	< 10	< 10	42	< 10	42
19852	205	226	< 1	0.15	28	170	< 2	2	12	9	0.16	< 10	< 10	85	< 10	20
19853	205	226	< 1	0.06	25	240	2	< 2	4	12	0.13	< 10	< 10	43	< 10	38
19854	205	226	< 1	0.06	52	430	< 2	< 2	7	7	0.25	< 10	< 10	87	< 10	76
19855	205	226	< 1	0.03	9	320	< 2	< 2	1	12	0.05	< 10	< 10	15	< 10	14

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: ROYAL OAK MINES INC. *
TIMMINS DIVISION
P.O. BOX 2010
TIMMINS, ON
P4N 7X7

Project : 2000
Comments: ATTN: M. STALKER

Page Number : 3-A
Total Pages : 3
Certificate Date: 24-AUG-95
Invoice No. : I9524910
P.O. Number : P211451
Account : JWW

CERTIFICATE OF ANALYSIS A9524910

SAMPLE	PREP CODE		Au ppb EXT-AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
19856	205	226	< 1	< 0.2	0.42	6	10	< 0.5	< 2	0.28	< 0.5	4	217	25	0.89	< 10	< 1	0.04	< 10	0.28	95
19857	205	226	2	0.8	0.95	8	130	< 0.5	< 2	1.32	< 0.5	22	56	272	4.05	< 10	< 1	0.06	< 10	0.64	480
19858	205	226	2	< 0.2	1.06	< 2	10	< 0.5	2	1.01	< 0.5	13	230	84	2.38	< 10	< 1	0.04	< 10	0.60	420
19859	205	226	4	< 0.2	2.05	< 2	320	< 0.5	< 2	0.28	< 0.5	21	259	26	4.17	< 10	< 1	1.65	10	1.28	645
19860	205	226	< 1	< 0.2	1.02	< 2	160	< 0.5	< 2	0.81	< 0.5	12	183	13	1.99	< 10	< 1	0.37	10	0.54	465
19861	205	226	< 1	< 0.2	0.89	2	20	< 0.5	< 2	0.93	< 0.5	12	244	17	2.18	< 10	< 1	0.26	10	0.50	475
19862	205	226	< 1	< 0.2	0.67	< 2	20	< 0.5	< 2	1.17	< 0.5	20	59	63	1.72	< 10	< 1	0.06	< 10	0.51	460
19863	205	226	< 1	< 0.2	2.00	< 2	70	< 0.5	2	2.18	< 0.5	19	258	74	2.91	< 10	1	0.28	< 10	1.01	660
19864	205	226	4	< 0.2	4.43	6	110	< 0.5	< 2	3.89	< 0.5	19	231	87	1.85	< 10	< 1	0.38	< 10	0.54	610
19865	205	226	< 1	< 0.2	0.82	8	< 10	< 0.5	< 2	1.34	< 0.5	2	129	39	1.10	< 10	< 1	< 0.01	< 10	0.09	175

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: ROYAL OAK MINES INC. *
TIMMINS DIVISION
P.O. BOX 2010
TIMMINS, ON
P4N 7X7

Project : 2000
Comments: ATTN: M. STALKER

Page Number : 3-B
Total Pages : 3
Certificate Date: 24-AUG-95
Invoice No. : I9524910
P.O. Number : P211451
Account : JWW

CERTIFICATE OF ANALYSIS A9524910

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
19856	205	226	< 1	0.03	16	80	2	< 2	1	7	0.04	< 10	< 10	21	< 10	8
19857	205	226	1	0.19	23	380	< 2	< 2	11	6	0.11	< 10	< 10	86	< 10	34
19858	205	226	< 1	0.10	18	80	< 2	2	8	4	0.10	< 10	< 10	73	< 10	26
19859	205	226	< 1	0.05	57	510	< 2	2	10	7	0.28	< 10	< 10	116	< 10	70
19860	205	226	< 1	0.12	34	390	< 2	< 2	6	11	0.14	< 10	< 10	53	< 10	40
19861	205	226	< 1	0.12	33	420	< 2	< 2	6	10	0.14	< 10	< 10	53	< 10	36
19862	205	226	2	0.12	21	450	< 2	2	8	8	0.22	< 10	< 10	80	< 10	30
19863	205	226	< 1	0.07	44	180	< 2	2	8	12	0.13	< 10	< 10	74	< 10	44
19864	205	226	< 1	0.18	49	190	< 2	8	10	46	0.16	< 10	< 10	100	< 10	24
19865	205	226	13	0.01	9	110	2	2	3	12	0.11	< 10	< 10	38	< 10	4

CERTIFICATION: Hart Bichler

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

To: ROYAL OAK MINES INC.
TIMMINS DIVISION
P.O. BOX 2010
TIMMINS, ON
P4N 7X7

Project : 2000
Comments: ATTN:RENE PRESSACCO

Page Number 1-B
Total Pages 1
Certificate Date 26-JUN-95
Invoice No. I-9519869
P.O. Number
Account

CERTIFICATE OF ANALYSIS A9519869

SAMPLE DESCRIPTION	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
19202	214	229	0.04	24	200	2	2	2	8	0.11	< 10	< 10	27	< 10	32

CERTIFICATION:

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

To: ROYAL OAK MINES INC.
TIMMINS DIVISION
P.O. BOX 2010
TIMMINS, ON
P4N 7X7

Project : 2000
Comments: ATTN:RENE PRESSACCO

Page Number 1-A
Total Pages 1
Certificate Date 26-JUN-95
Invoice No I-9519869
P.O. Number
Account

CERTIFICATE OF ANALYSIS A9519869

SAMPLE DESCRIPTION	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
19202	214	229	< 0.2	0.90	< 2	20	< 0.5	< 2	0.56	< 0.5	8	273	13	1.40	< 10	< 1	0.28	< 10	0.36	210	< 1

CERTIFICATION: _____

ROYAL OAK ANALYTICAL LABORATORY

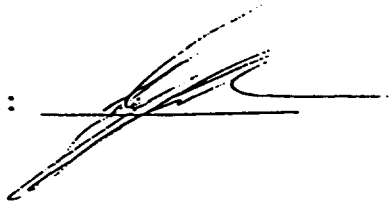
CERTIFICATE OF ANALYSIS

Exploration 5675-2000

Hole Number:
Date Assayed: 05/30/95
Week/Tray: 95MAY29/AF002

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	D19202		0.001	35
2	BLANK	Blank	0.001	35
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				

Geologist: MARY STALKER

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-2000

Hole Number:
Date Assayed: 11/06/95
Week/Tray: 95NOV06/AF007

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	D19551		0.006	205
2	D19552		0.001	35
3	D19553		0.001	35
4	D19554		0.001	35
5	D19555		0.001	35
6	D19556		0.001	35
7	BLANK	Blank	0.001	35
8	D19557		0.001	35
9	D19558		0.001	35
10	D19559		0.001	35
11	D19560		0.001	35
12	D19561		0.001	35
13	D19562		0.001	35
14	D19563		0.001	35
15	D19564		0.001	35
16	D19566		0.001	35
17	D19567		0.001	35
18	D19568		0.001	35
19	D19569		0.001	35
20	CONTROL	Control	0.100	3430
21				
22				
23				
24				

Geologist: M.STALKER

Chief Chemist:

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

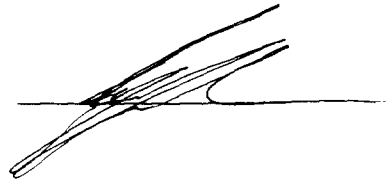
CERTIFICATE OF ANALYSIS

Exploration 5675-2000

Hole Number:
Date Assayed: 11/07/95
Week/Tray: 95NOV06/AF008

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	D19527		0.001	35
2	D19528		0.001	35
3	D19529		0.006	205
4	D19530		0.001	35
5	D19531		0.001	35
6	D19532		0.001	35
7	D19533		0.001	35
8	BLANK	Blank	0.001	35
9	D19534		0.012	410
10	CONTROL	Control	0.096	3290
11	D19535		0.004	135
12	D19536		0.001	35
13	D19866		0.001	35
14	D19867		0.001	35
15	D19868		0.001	35
16	D19570		0.001	35
17	D19572		0.001	35
18	D19573		0.001	35
19	D19574		0.001	35
20	D19575		0.004	135
21				
22				
23				
24				

Geologist: M. STALKER

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5600-1100

DATE: Oct 19/94

	SAMPLE NUMBER	Au oz/ton	Au ppb					
1	DXR 11601	.002	70					
2	02	.031	1060					
3	03	.015	515					
4	04	.001	35					
5	05	.002	70					
6	06	.001	35					
7	07	<.001	<35					
8	08	<.001	<35					
9	09	<.001	<35					
10	10	.001	35					
11	11	.002	70					
12	12	.001	35					
13	DXR 11613	.001	35					
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

lab16 P. Cook

Chief Chemist:

Ministry of Northern Development and Mines

Report of Work Conducted
After Recording Claim

Mining Act

MINING LANDS

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

2.16890

Instructions:
- Please type or print and submit in duplicate
- Refer to the Mining Act and Regulations for Recorder.
- A separate copy of this form must be comp
- Technical reports and maps must accompa
- A sketch, showing the claims the work is a

42C13SE0075 2.16890 WHITE LAKE AREA

900

Recorded Holder(s)	Client No.
Thomas Carroll & Daniel MacDougall optioned to Royal Oak Mines	116260 & 162098
Address	**Telephone No.**
PO Bag 2010, Timmins, Ont P4N 7X7	(705) 360 1141
Mining Division / **Township/Area**	**M or G Plan No.**
Thunder Bay / White Lake	G-0422 & G-0423
Dates Work Performed From: May 13, 1995 To: October 8, 1995	

Work Performed (Check One Work Group Only)

	Work Group	Type
X	Geotechnical Survey	Geological Mapping & Rock Sampling
	Physical Work, Including Drilling	
	Rehabilitation	
	Other Authorized Work	
	Assays	
	Assignment from Reserve	

RECEIVED
NOV 20 1996
MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs $ 19,092

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Mary F Stalker / Royal Oak Mines Inc	PO Bag 2010, Timmins, Ont P4N 7X7

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date	Recorded Holder or Agent (Signature)
	October 8, 1996	Mary F Stalker

Certification of Work Report

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

Name and Address of Person Certifying

Mary Stalker Royal Oak Mines Inc., P.O. Bag 2010, Timmins, Ont. P4N 7X7

Telephone No.	Date	Certified By (Signature)
(705) 360-1141	October 8, 1996	Mary F Stalker

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
$ 19,092		Deputy G J Allen	Thunder Bay Mining Division OCT 09 1996
	Deemed Approval Date: JANUARY 7, 1997	Date Approved	
	Date Notice for Amendments Sent		

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	1110122	9	324[illegible]	3600		
	✓ 782943	2	57[illegible]	800		
	✓ 782944	15	10501	6000	4501	
	✓ 1110123	8	152[illegible]	3200		
	✓ 1110124	3	324[illegible]	1200	2046	
	1110125	14	0	4292		
	Total Number of Claims:		Total Value Work Done: 1909[illegible]	Total Value Work Applied: 19092	Total Assigned From: 6547	Total Reserve:

RECEIVED
NOV 20 1996
MINING LANDS BRANCH

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (✓) one of the following:

1. ☑ Credits are to be cut back starting with the claim listed last, working backwards.
2. ☐ Credits are to be cut back equally over all claims contained in this report of work.
3. ☐ Credits are to be cut back as priorized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: **Examples of beneficial interest** are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patent[illegible]

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature

Date

11 (03/91)

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des mines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

W1946-554

2.16890

Personal information collected on this form is obtained under the authority of the **Mining Act**. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la **Loi sur les mines** et serviront à tenir à jour un registre des concessions minières. Adresser toute quesiton sur la collece de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	11644	
	Field Supervision Supervision sur le terrain		11644
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type: Petrography Research	456	
	Assaying	2007	
			2463
Supplies Used Fournitures utilisées	Type: Field Supplies	2102	
			2102
Equipment Rental Location de matériel	Type		
	Total Direct Costs Total des coûts directs		16209

2. Indirect Costs/Coûts indirects

** **Note:** When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type: Trucks & Fuel	1171	
			1171
Food and Lodging Nourriture et hébergement		1712	1712
Mobilization and Demobilization Mobilisation et démobilisation			
	Sub Total of Indirect Costs Total partiel des coûts indirects		2883
	Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)		
	Total Value of Assessment Credit (Total of Direct and Allowable indirect costs) / Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles		19092

RECEIVED
NOV 20 1996
MINING LANDS BRANCH

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Ministry may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Thunder Bay Mining Division

RECEIVED
OCT 09 1996

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.

2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
× 0.50 =	

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.

2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Évaluation totale demandée
× 0,50 =	

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Project geologist for Royal Oak Mines I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature	Date
Mary F Stalker	Oct 8, 1996

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

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

Telephone: (705) 670-5853
Fax: (705) 670-5863

December 5, 1996

Michael Weirmeir
Mining Recorder
435 James Street South
Suite B003
Thunder Bay, ON
P7E 6E3

Dear Sir or Madam:

Submission Number: 2.16890

Subject: Transaction Number(s): W9640.00554

After reviewing the Work Report(s) we have prepared this letter and the attached summary, which lists the results of our review. Requirements of the Assessment Work Regulation may not have been fully met. Please examine the summary to determine the next course of action concerning the identified Work Report(s).

NOTE: The 90 day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, is no longer in effect for this submission.

PLEASE NOTE ANY REQUESTED REVISIONS MUST BE SUBMITTED IN DUPLICATE.

If the anniversary dates for the mining claims affected by this correspondence have not passed, a number of options are available. Please contact the Mining Recorder to discuss these options.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705)670-5858.

Yours sincerely,

ORIGINAL SIGNED BY
Ron C. Gashinski
Senior Manager, Mining Lands Section
Mines and Minerals Division

Correspondence ID: 10409
Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.16890

Date Correspondence Sent: December 05, 1996 **Assessor:** Lucille Jerome

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9640.00554	1110122	WHITE LAKE (SOUTH), WHITE LAKE (NORTH)	Approval	December 03, 1996

Section:

17 Assays ASSAY
12 Geological GEOL

Correspondence to:

Mining Recorder
Thunder Bay, ON

Resident Geologist
Thunder Bay, ON

Assessment Files Library
Sudbury, ON

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

THOMAS JAMES CARROLL
Sault Ste Marie, Ontario

DANIEL MILTON MACDOUGALL
SAULT STE. MARIE, Ontario

Correspondence ID: 10409

NOTES

AREAS WITHDRAWN FROM DISPOSITION

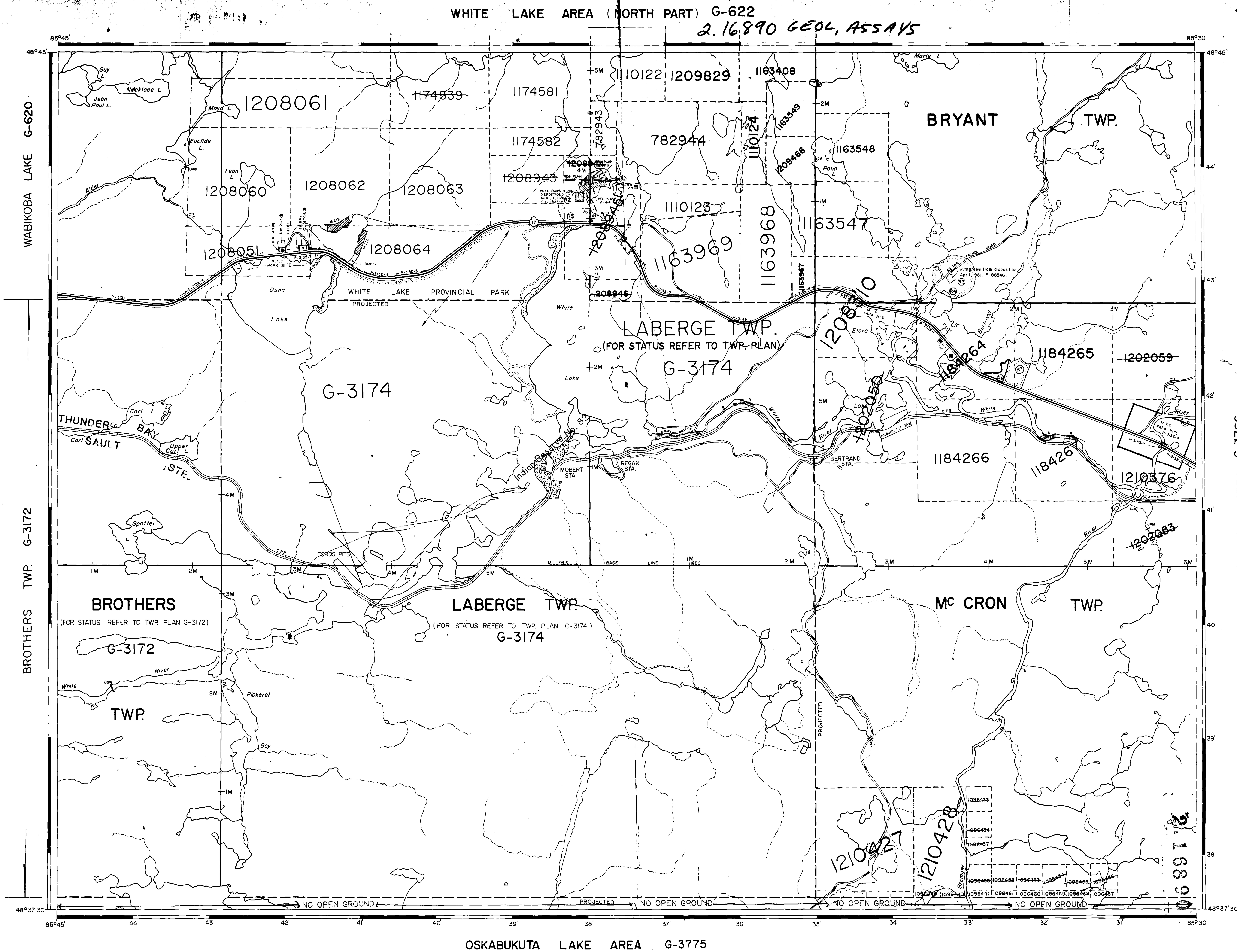
M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

	Description	Order No.	Date	Disposition	File
R1	CROWN RESERVE			S.R.O.	163006 v.I
R2	SEC.36/80	W.3/81	1/4/81	S.R.O.	188546
R3	SEC.36/80	W.8/81	1/4/81	S.R.O.	188546
R4	SEC.36/80	W.7/82	5/4/82	S.R.O.	188546
R5	SEC.36/80	W.10/82	7/4/82	S.R.O.	163006v.I
R6	SEC.36/80	W.TB-12/91	11/07/91	M&S	
R7	Pending application for surface Rights PLA May 30, 1991				

FLOODING RIGHTS ON WHITE RIVER AND WHITE LAKE TO CONTOUR ELEVATION 1080' TO ONT. HYDRO.

ALL MINING CLAIMS AROUND WHITE RIVER AND CONNECTING LAKES ARE SUBJECT TO SEC. 41 OF THE MINING ACT (R.S.O. 1970) FILE: 11390

NOTICE: The information that appears on this map has been compiled from various sources, and accuracy is not guaranteed. Those wishing to stake mining claims should consult with the Mining Recorder, Ministry of Northern Development and Mines, for additional information on the status of the lands shown hereon.



LEGEND

HIGHWAY AND ROUTE No.
OTHER ROADS
TRAILS
SURVEYED LINES:
TOWNSHIPS, BASE LINES, ETC.
LOTS, MINING CLAIMS, PARCELS, ETC
UNSURVEYED LINES:
LOT LINES
PARCEL BOUNDARY
MINING CLAIMS ETC
RAILWAY AND RIGHT OF WAY
UTILITY LINES
NON-PERENNIAL STREAM
FLOODING OR FLOODING RIGHTS
SUBDIVISION OR COMPOSITE PLAN
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES
TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	◓
" , MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	⬒
" , MINING RIGHTS ONLY	⬓
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	Ⓡ
CANCELLED	⊗
SAND & GRAVEL	⑥
LAND USE PERMITS FOR COMMERCIAL TOURISM, OUTPOST CAMPS	✓

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

AREA **WHITE LAKE**
(SOUTH PART)

M.N.R. ADMINISTRATIVE DISTRICT
TERRACE BAY/WAWA

MINING DIVISION
THUNDER BAY/ SAULT STE. MARIE

LAND TITLES/ REGISTRY DIVISION
THUNDER BAY

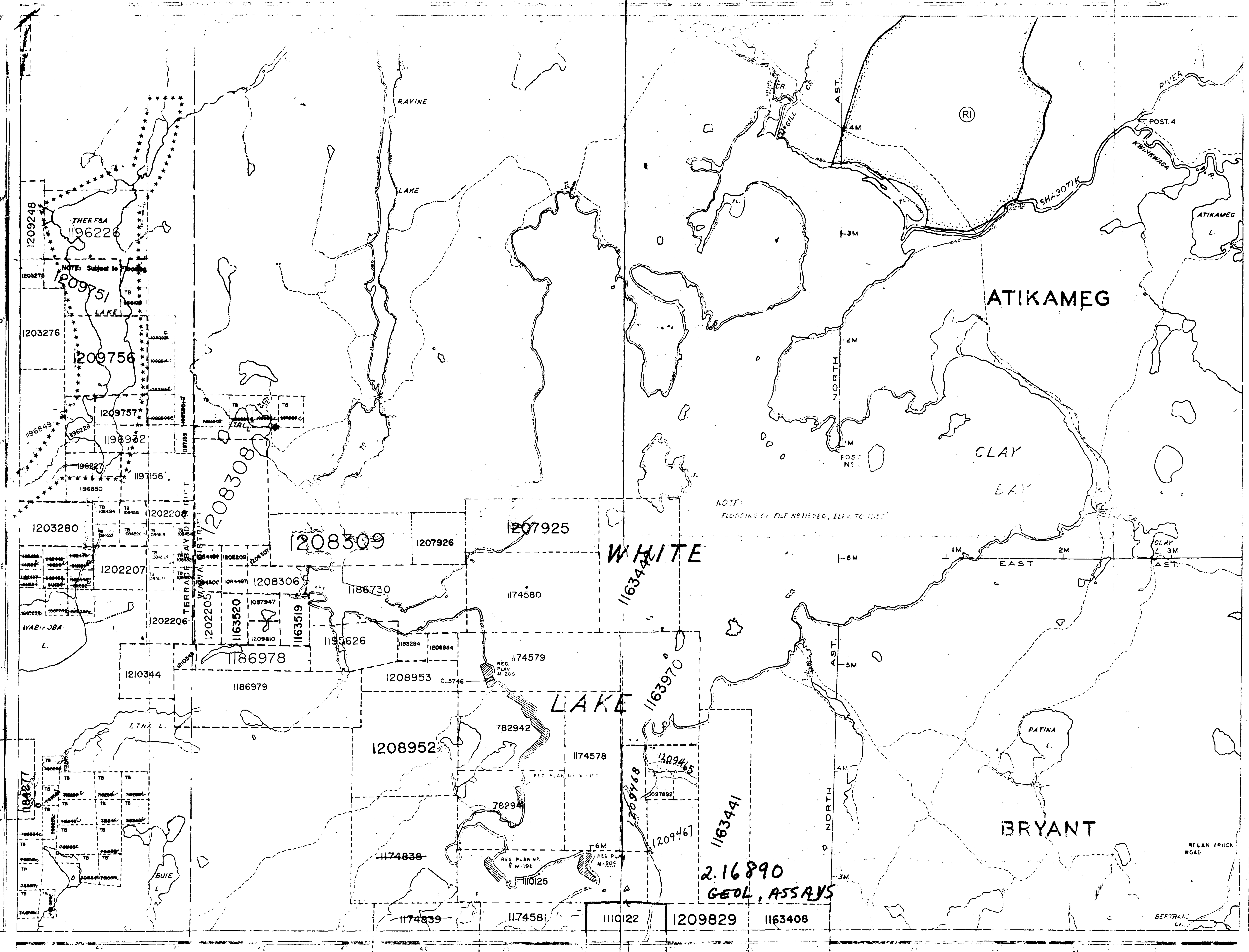
Ministry of Natural Resources — Land Management Branch
Ontario

Date AUGUST 1984
In service Nov. 04/94.

Number **G-623**

42C13SE0015 2.16890 WHITE LAKE AREA 200

OLGA LAKE G-604



WABIKOBA LAKE G-620

KWINKWAGA LAKE G-

WHITE RIVER (south part) G-623

Lands Surrounded by This Marking are Subject to Flooding and other rights, as per Sec. 189 Easement # 85-14. See White Lake N. Part Landroll.

REOPENED 0-TB 26.95 NWR

SURFACE & MINING RIGHTS WITHDRAWN FROM STAKING FOR WHITE LAKE PEATLANDS NATURE RESERVE ORDER W-TB-76/95 NWR, 95/10/11

THERESA LAKE SUBJECT TO FLOODING TO ELEVATION G.S.C. 323.75 METRES

FLOODING RIGHTS ON WHITE LAKE AND RAVINE LAKE TO CONTOUR ELEVATION 1082. H.E.P.C OF ONTARIO, 26th FEB 1952. File 113980.

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

TOPOGRAPHY

LAKES, RIVERS, ETC. FROM FOREST RESOURCES INVENTORY SHEET No. 487853.

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
  - TOWNSHIP, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER-IN-COUNCIL	OC
RESERVATION	
CANCELLED	
SAND & GRAVEL	

LAND USE PERMITS FOR COMMERCIAL TOURIST OUTPOST CAMPS

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS

RECEIVED 2.16890

MINING LANDS BRANCH

AREA

WHITE LAKE (north part)

M.N.R. ADMINISTRATIVE DISTRICT

TERRACE BAY / WAWA

MINING DIVISION

THUNDER BAY / SAULT STE. MARIE

LAND TITLES / REGISTRY DIVISION

THUNDER BAY

Ontario

FEBRUARY

42C13SE0075 2.16890 WHITE LAKE AREA

210

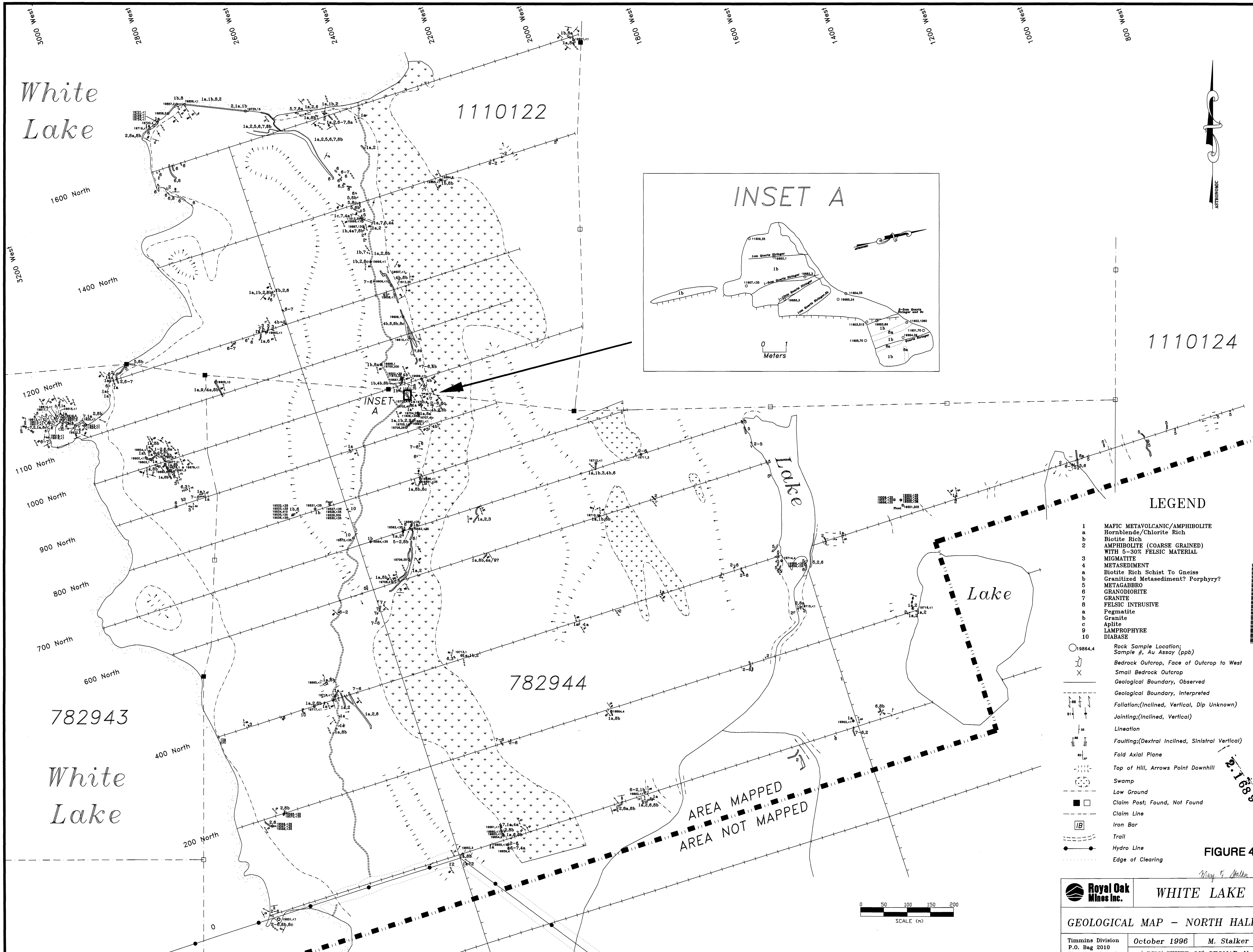
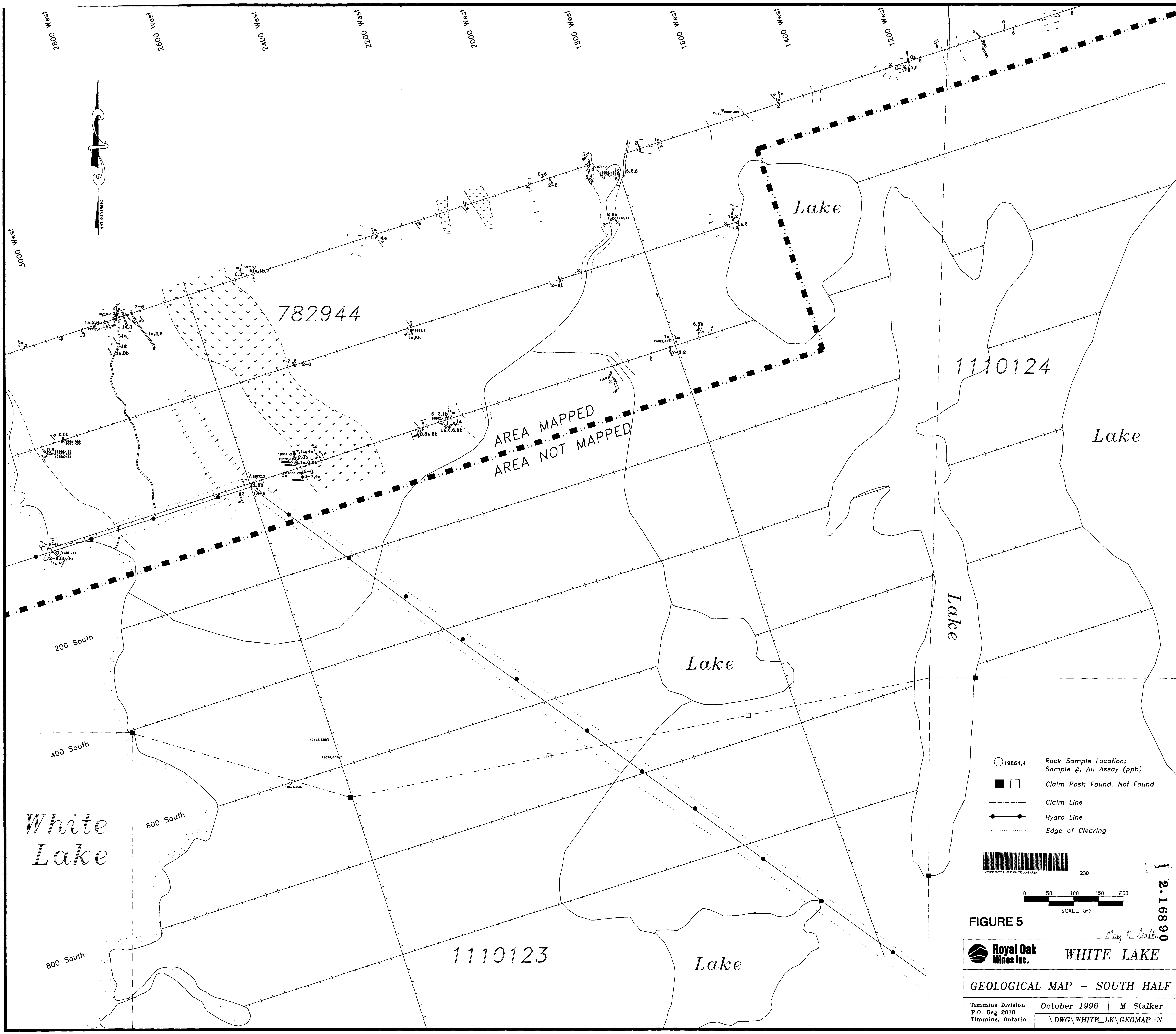

3000 West
2800 West
2600 West
2400 West
2200 West
2000 West
1800 West
1600 West
1400 West
1200 West
1000 West
800 West
3200 West
1600 North
1400 North
1200 North
1100 North
1000 North
900 North
800 North
700 North
600 North
400 North
200 North
White Lake
White Lake
Lake
Lake
1110122
1110124
782944
782943
INSET A
INSET A
Meters
1b
AREA MAPPED
AREA NOT MAPPED
LEGEND
1 MAFIC METAVOLCANIC/AMPHIBOLITE
a Hornblende/Chlorite Rich
b Biotite Rich
2 AMPHIBOLITE (COARSE GRAINED) WITH 5-30% FELSIC MATERIAL
3 MIGMATITE
4 METASEDIMENT
a Biotite Rich Schist To Gneiss
b Granitized Metasediment? Porphyry?
5 METAGABBRO
6 GRANODIORITE
7 GRANITE
8 FELSIC INTRUSIVE
a Pegmatite
b Granite
c Aplite
9 LAMPROPHYRE
10 DIABASE
19864,4 Rock Sample Location; Sample #, Au Assay (ppb)
Bedrock Outcrop, Face of Outcrop to West
Small Bedrock Outcrop
Geological Boundary, Observed
Geological Boundary, Interpreted
Foliation;(Inclined, Vertical, Dip Unknown)
Jointing;(Inclined, Vertical)
Lineation
Faulting;(Dextral Inclined, Sinistral Vertical)
Fold Axial Plane
Top of Hill, Arrows Point Downhill
Swamp
Low Ground
Claim Post; Found, Not Found
Claim Line
IB Iron Bar
Trail
Hydro Line
Edge of Clearing
SCALE (m)
0 50 100 150 200
2.16890
220
42C13SE0075 2.16890 WHITE LAKE AREA
Mary F. Stalker
Royal Oak Mines Inc.
WHITE LAKE
GEOLOGICAL MAP – NORTH HALF
Timmins Division
P.O. Bag 2010
Timmins, Ontario
October 1996
M. Stalker
\DWG\WHITE_LK\GEOMAP-N

FIGURE 4


2800 West
2600 West
2400 West
2200 West
2000 West
1800 West
1600 West
1400 West
1200 West
3000 West
ASTRONOMIC
782944
Lake
1110124
Lake
AREA MAPPED
AREA NOT MAPPED
Lake
Lake
200 South
400 South
600 South
800 South
White Lake
1110123
Lake
Rock Sample Location; Sample #, Au Assay (ppb)
Claim Post; Found, Not Found
Claim Line
Hydro Line
Edge of Clearing
0 50 100 150 200
SCALE (m)
2.16890
FIGURE 5
Royal Oak Mines Inc.
WHITE LAKE
GEOLOGICAL MAP - SOUTH HALF
Timmins Division
P.O. Bag 2010
Timmins, Ontario
October 1996
M. Stalker
\DWG\WHITE_LK\GEOMAP-N