



42A03SE8378 2.14882 HUTT

010

2.14882

GEOLOGICAL SURVEY REPORT

SUBMITTED FOR ASSESSMENT WORK CREDIT

SEMPLE and HUTT TOWNSHIPS

TIMMINS RESIDENT GEOLOGISTS DISTRICT, ONTARIO

RECEIVED

JAN 26 1993

MINING LANDS BRANCH

**Mike Noseworthy
Peter Harvey**

Royal Oak Mines Inc.

18 December, 1992



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Appendix 3	Geological Legend

(1)

I. INTRODUCTION and WORK DONE

Work consisting of linecutting and geological mapping was completed on a group of 28 claims within Semple and Hutt Townships held by Royal Oak Mines Inc. (1425 West Pender St., Vancouver, B.C., V6G 2S3) during the fall of 1992. A list of the claims is included in Appendix 1.

FORPRO Resources Ltd. of South Porcupine, Ontario, established a grid over the claim group between September 18 and October 8, 1992. A total of 44.8 km of lines were cut at 100 m intervals, with stations established at 25 m intervals to be used for locational control during the geological mapping.

M. Noseworthy of Royal Oak Mines Inc. supervised the linecutting work. Field work and geological surveys were completed on the claim group by P. Harvey and M. Noseworthy of Royal Oak Mines Inc. between September 11 and October 30, 1992.

II. LOCATION and ACCESS

The claims are located about 50 km south of South Porcupine, Ontario, and straddle the boundary between Semple and Hutt Townships near the northern portion of the townships. Refer to Figure 1 and Figure 2.

The area can be reached by travelling south from South Porcupine along the Langmuir Road to where it intersects the Wicks Road (Hwy 566), which extends west from Matachewan. The Langmuir Road continues south past the intersection to provide access to the eastern portion of the claims, and the Wicks Road provides access to the northern portion. Bush roads along, and branching off from, the Hydro Line Corridor provide access to the interior of the claim group.

III. REGIONAL GEOLOGY

Bright (1984) completed a map and report covering the claim group and surrounding area, the following is a summary taken from this work.

The area is in the west-central part of the Abitibi Metavolcanic-Metasedimentary Belt in the Superior Province of the Canadian Shield. The geology in and around the claim group consists of isoclinally folded mafic-felsic metavolcanics, with minor units of iron formation and ultramafics. Metamorphism is that of lower greenschist facies, and away from the claim group it reaches higher grades near granitic intrusions as seen in western Semple Township. Northwest-trending diabase dikes form the youngest bedrock in the area.

ADDENDUM

Lithologies Present in the Map Area

The stratigraphy is dominated by massive to pillowd high Fe-tholeiitic basalts which are variably tectonized and altered by varying degrees of chloritization, carbonitization and sericitization. Variolitic textures and local minor hyaloclastite-glass is developed in these medium to dark green mafic volcanics. Pink to white, fine to medium grained leucoxene is also locally exhibited in this lithologic unit. Locally dark phenocrysts of pyroxene (?) are present in the high Fe-tholeiite. These "spotted" units might represent high Mg-tholeiites. In areas of intense bleaching (ie. sericite and carbonate alteration), where no leucoxene is discernable, it is impossible to determine the exact nature of the protolith without wholerock geochemistry. Minor disseminated pyrite is locally present in this rock type.

A light grey-green mafic volcanic is locally present on the property. This unit locally exhibits amygdules and is essentially massive and uniform but variably tectonized. Local flow-breccia textures can be discerned in some of the limited outcrop exposure. This unit may be of a high Mg-tholeiitic composition.

Mafic-intermediate-felsic, fine grained tuffs and lapilli-tuffs (local stretched ghost-like fragments) occur near the south part of the property. These rocks are variably sericitized and locally pink-tinted (hematite and/or albite alteration) and exhibit variable modal percentages of quartz-eyes and albite phenocrysts. The albite may be green, green-yellow or white. Locally this unit exhibits a conchoidal fracture in areas of moderate to high silica and or albite content (ie. aphanitic albite). Local banding can be discerned in the rocks with conchoidal fracture. These latter rocks are mineralized with trace pyrite. Coarse pyrite fragments or clots with associated silicification are present in specimen no. 53. Agglomeratic-type textures are locally present in this intermediate-felsic package, however it is possible that the fragmental texture is tectonic in nature. This lithologic unit has also been subjected to folding and shearing as has the mafic volcanics located further to the north.

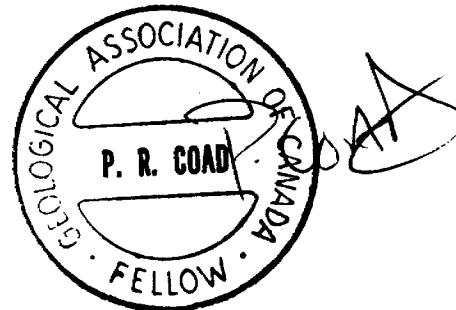
A diabase-gabbroic lithology was locally mapped and is marked by random stubby pyroxene crystals which float in a plagioclase-rich matrix. Weathered outcrop surfaces exhibit a weak orange-brown tint.

A syenite unit was mapped at the location of specimen no. 14. This unit is pink-red, medium grained and albitic. Local wisps of leucoxene are present and it is possible that this unit represents an albitized high Fe-tholeiite. This station is mineralized with 0.5% fine grained pyrite.

Recommendations for Future Work

Upon receipt of wholerock geochem data from X-ray Assay Laboratories in Toronto, it is recommended that the data be used to differentiate between the possible high Mg-tholeiite and high Fe-tholeiites to better define the stratigraphy on the property. The data should also be used to quantify the degree of alteration present in the

intermediate to felsic volcanics. At this time a decision will be made concerning the completion of a ground geophysical program.



March 2, 1993
Paul Coad

IV. GEOLOGY OF THE CLAIM GROUP

The claims are underlain by mafic-felsic metavolcanics, with bedding generally trending eastwards, changing to north-east in the western portion of the claims. This observation supports the fold closures off to the west of the claim group indicated by Bright (1984, Map 2291).

The bedrock contained within the claim group is predominantly mafic volcanics, being either pillowd or massive in texture. Intercalated with the mafic volcanics are mafic-intermediate and intermediate-felsic varieties. A few outcrops of weakly serpentinized ultramafics were also mapped.

The mafic to felsic volcanic sequence in the area appears to form a gradational succession, making contacts between units difficult to discern. This complication is further hampered by the common pervasive carbonate and silica alteration within the mafic volcanics, which tends to bleach the mafics to give them the look of an intermediate volcanic. Establishing contacts between these flows based only on field observations is therefore a subjective exercise.

Bright (1984, p. 6) encountered a similar problem, and notes that many of the units mapped in the field as dacite are, in reality, much more mafic in composition when additional work consisting of thin section examination and chemical analysis are performed on selected samples.

Previous work on the claim group consisted of packsack holes drilling by Hollinger in 1962-1963 to test the conductive pyritic-graphitic horizon located parallel to the creek and along the north shore of Marceau Lake. No significant gold or base metal values were reported from this horizon (Bright, 1984, p. 44). This pyritic-graphitic horizon is only indicated by drilling, and does not outcrop, and was therefore not examined in this mapping program.

Bright (1984, p. 44) notes that quartz-stringer zones associated with pyritic felsic dikes located immediately west of Marceau Lake have been prospected for gold, but with no success. This area was mapped during the course of the program, but more detailed work (mechanical stripping, detailed mapping and sampling) would be required to fully evaluate this setting for its economic potential.

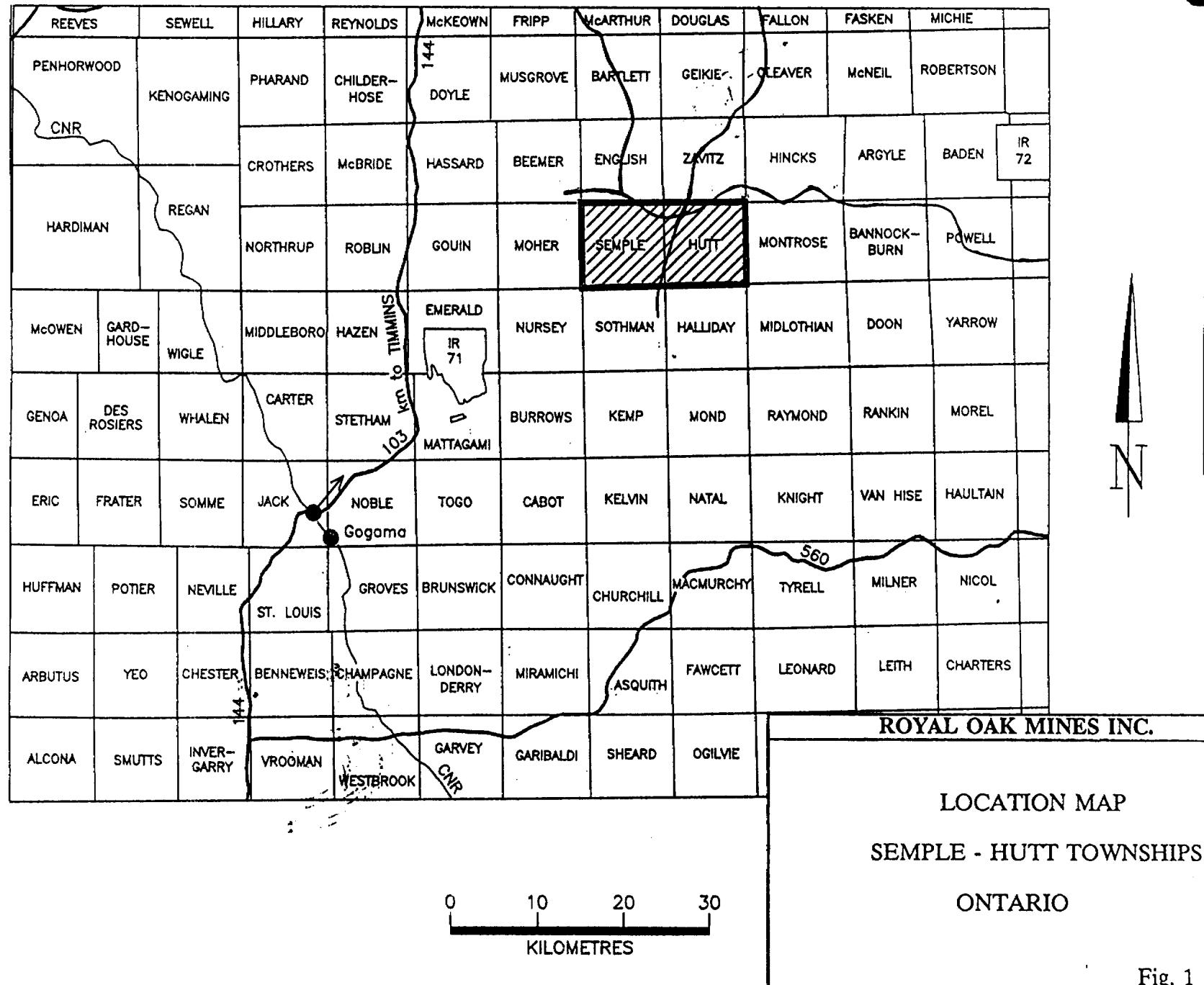
(3)

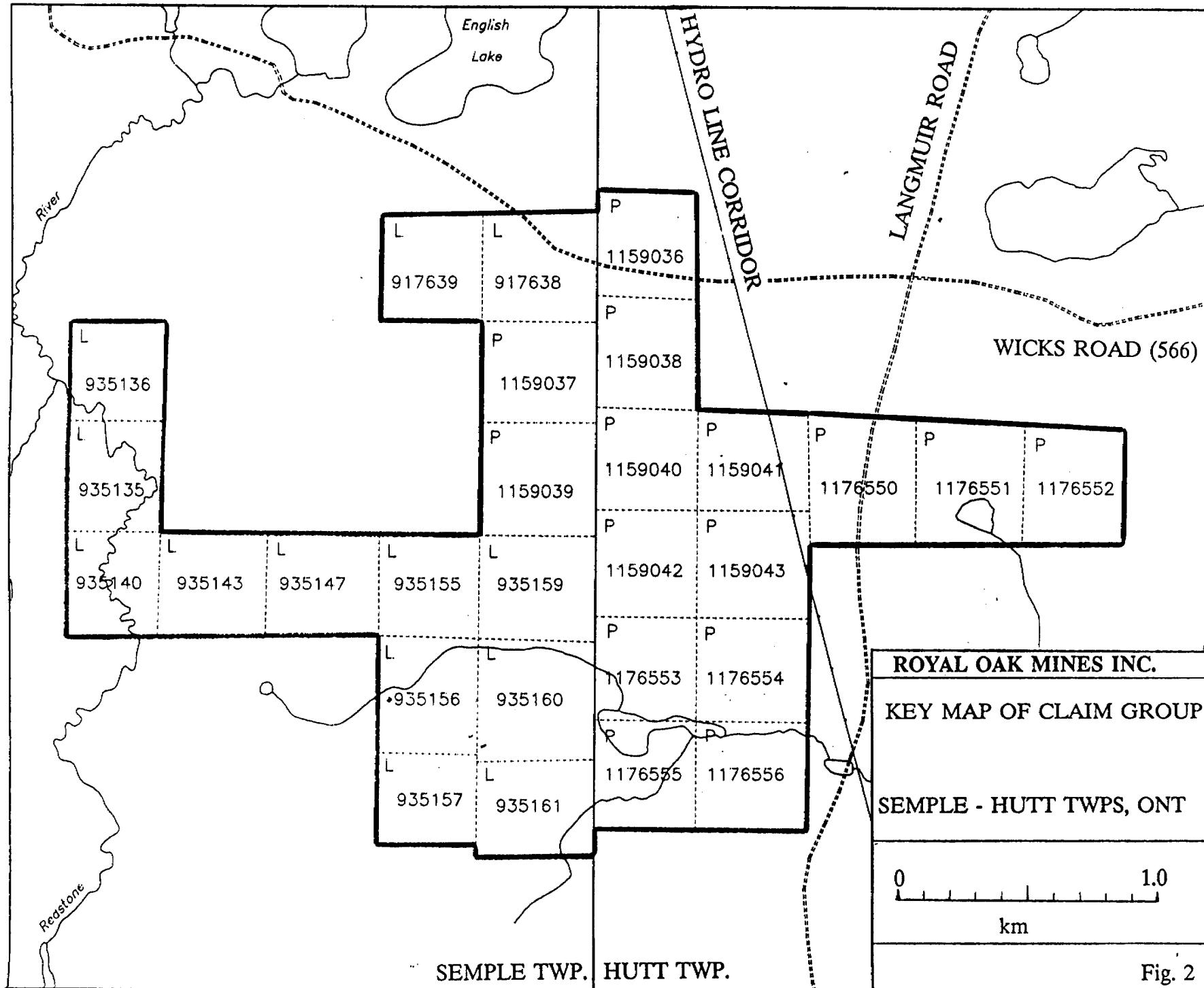
List of References

Bright, E.G.

- 1984: **Geology of the Ferrier Lake-Canoeshed Lake Area, District of Sudbury, Ontario.** Geological Survey Report 231, 60 p. Accompanied by Maps 2289, 2290, 2291, scale is 1:31680

ILLUSTRATIONS





APPENDICES

APPENDIX 1

List of Claims

Semple Twp.

935136
935135
935140
935143
935147
935155
935156
935157
917639
917638
1159037
1159039
935159
935160
935161

15 claims

Hutt Twp.

1159036
1159038
1159040
1159042
1176553
1176555
1159041
1159043
1176554
1176556
1176550
1176551
1176552

13 claims

Total Group - 28 claims

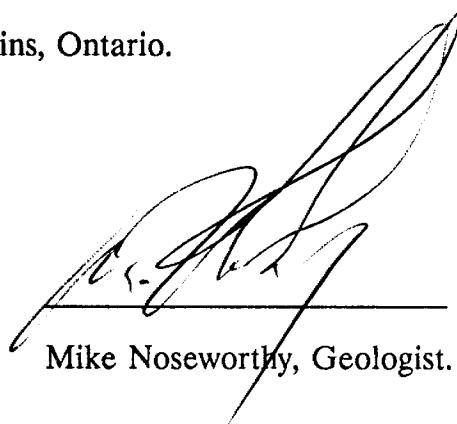
APPENDIX 2a

Statement of Qualifications

I, Mike Noseworthy, of the City of Timmins, Province of Ontario, do hereby certify that:

- 1) I received a B.Sc. degree, Geology Major, from Concordia University in 1987.
- 2) I have been employed as a geologist by various mining companies since 1987.
- 3) I am a co-author of this report.
- 4) I have no direct interest in, 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 18 day of December, 1992, Timmins, Ontario.



Mike Noseworthy, Geologist.

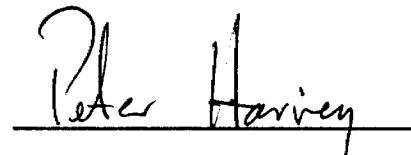
APPENDIX 2b

Statement of Qualifications

I, Peter Harvey, of the City of Timmins, Province of Ontario, do hereby certify that:

- 1) I received a B.Sc. degree (Honours) in Science, Geology Major, from Lakehead University in 1985.
- 2) I have been employed as a geologist by various mining companies since 1985.
- 3) I am a co-author of this report.
- 4) I have no direct interest in, 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 18 day of December, 1992, Timmins, Ontario.



Peter Harvey, Geologist.

APPENDIX 4

Geological Legend

LEGEND

12 OLIVINE DIABASE

11 QUARTZ DIABASE

10 HURONIAN SEDIMENTS

10a Arkose
10w Wacke
10erg Argillite
10c Conglomerate

9 MATACHEWAN DIABASE

8 FELSIC INTRUSIVE ROCKS

8 Unsubdivided
8qp Quartz porphyry
8fp Feldspar porphyry
8qfp Quartz feldspar porphyry
8f Felsite, p (porphyritic), qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)
Bbft Hornblende-biotite trondhjemite
Bpm Porphyritic monzonite
Bqd Granodiorite
Bpg Porphyritic granodiorite
Btg Laucocretic granodiorite
Bhd Hornblende diorite
Bqd Quartz diorite
Bp Porphyry
Ba Apophyllite
Bs Syenite
Bg Granite or quartz-rich syenite
Bt Trachyte

K denotes Keeewatin
T denotes Timiskaming

7 MAFIC INTRUSIVE ROCKS

7 Unsubdivided
7a Anorthosite
7d Diorite
7g Gabbro
7gg Quartz gabbro
7pg Pegmatoidal gabbro
7l Lamprophyre
7ib Intrusive breccia
7n Nipissing-type diabase sills

6 ULTRAMAFIC INTRUSIVE ROCKS

6 Unsubdivided
6s Serpentized diorite-peridotite
6ph Pyroxene-hornblende
6c Carbonatized
6tm Talc-magnesite

5 SEDIMENTS

5 Unsubdivided
5a Argillite
5c Conglomerate
5g Greywacke
5sl Slate
5p Porphyritic, ap (quartz-eye porphyritic), pp (plagioclase-porphyritic)
5d Debris flow
5q Quartzite
5ew Quartz wacke
5or Graphite
5ch Chert
5ag Agglomerate
5t Tuffaceous-sediment
5s Silstone
5ss Sandstone
5sch Schist
5sh Shear
5ex Exhalite
5phyl Phyllite
GFZ Graphitic Fault Zone

4 INTERMEDIATE-FELSIC VOLCANICS

4d Dacite
4rd Rhodacite flows
4dt Dacite tuffs
4dp Dacite pyroclastics
4dd Agglomerate-breccia conglomerate
4dt Dacite lapilli tuff
4dm Dacite massive flow
4p Intermediate-felsic pyroclastics
4r Rhylolite-undifferentiated
4sch Intermediate-felsic schist
4sh Shear
4rm Massive rhyolite
4rt Rhyolite tuff
4rl Rhyolite lapilli tuff
4ra Rhyolite agglomerate
sp (quartz-eye porphyritic)
4phyl Phyllite

P denotes Primitive
E denotes Evolved

3 CALCO-ALKALIC MAFIC VOLCANICS (MAFIC-INTERMEDIATE VOLCANICS)

3 Unsubdivided
3a Andesite
3m Massive
3p Pillow
3lt, 3ht Tuff, lapilli-tuff
3b Breccia
3c Carbonatized
3m Amphibolitized
3pb Pillow brc
3sh Shear

2 THOLEIITIC VOLCANICS

2 Unsubdivided
2m Massive
2p Pillowed
2a Amygdaloidal
2apl Amygdaloidal pillow lava
2v Vitrified
2t Tuff, lapilli-tuff
2b Breccia
2c Carbonatized
2pb Pillow Breccia
2h Hydroclastite
2og Agglomerate
2am Amphibolitized
2acf Spherulitic, chicken-feed
2ch Schistose
2sh Shear
2f Dominantly Fe-tholeiite
2M Dominantly Mg-tholeiite
2AL Dominantly Al-tholeiite
2l Dominantly Icelandite

1 KOMATITIC VOLCANICS

1 Unsubdivided
1s Serpentized, massive, polysulfured, peridotitic komatiite
1ox Olivine-spinifex textured peridotitic komatiite flows
1px Pyroxene-spinifex textured basaltic komatiite flows
1mb Massive basaltic komatiite
1m Massive
1p Pillowed
1c Carbonatized peridotitic komatiite
1t Talcose
1b Basaltic komatiite
1cb Carbonatized basaltic komatiite

IRON FORMATION

IfO Oxide
IfS Sulphide (py-po)
IfC Carbonate
IfJ Jasper
BF Bonded iron formation
IfChL Chlorite-rich
IfGr Graphitic

SULPHIDES

DS Disseminated sulphides
SS Stringer sulphides
MS Massive sulphides
SMS Semi-massive sulphides

OXIDES

Mt Magnetite (80-100%)
QAV Quartz ankerite veining

ALTERATION

These abbreviations are used after lithology, if desired

3m,a	Would denote a massive calc-alkalic mafic
chl	Chloritic
chy	Cherty
a or aere	Sericitic
sil	Silicified
ank	Ankerite
cc	Calcite
c	Carbon
cb	Carbonate
h	Hematite
alb	Albitized
fu	Fuchsite
mt	Magnetite
sh	Sheared
tcb	Talc carbonate schist
tcs	Talc chlorite schist
gr	Graphitic
arg	Argillaceous
sch	Schist
gt	Garnet
oxid	Oxidized
bi	Bleached
spd	Epidote
serp	Serpentinized
* where computer space permits, use ser	

TEXTURE

fg	Fine grained
mg	Medium grained
cg	Coarse grained
br	Breccia
frag	Fragments
pf	Primary fragmentals
tf	Tectonic fragmentals
qp	Quartz phryic
qfp	Quartz feldspar phryic
fp	Feldspar phryic
pyr	Pyroclastic
bed	Bedded
bnd	Banded



Ministry of
Northern Development
and Mines

Report of Work Conducted After Recording Claim

Mining Act

11111110 L41111

Transaction Number

W9260.00172

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. 14882

- 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 complete.
 - Technical reports and maps must accompany.
 - A sketch, showing the claims the work is assigned to.



42A03SE8378 2.14882 HUTT

900

Recorded Holder(s)	ROYAL OAK MINES INC.	Client No.	136226
Address	P.O. Bag 2010, TIMMINS ONT P4N 7X7	Telephone No.	705-360-1141
Mining Division	Porcupine	Township/Area	M or G Plan No.
From:	Sept 2, 1992	To:	Dec 29, 1992

Work Performed (Check One Work Group Only)

Work Group	Type
✓ Geotechnical Survey	Geological Survey
Physical Work, Including Drilling	
Rehabilitation	RECEIVED
Other Authorized Work	JAN 26 1993
Assays	
Assignment from Reserve	MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs \$ 22,400

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
Mike Noseworthy	c/o ROYAL OAK MINES INC - address above
Peter Harvey	11
	RECORDED

(attach a schedule if necessary)

Receipt _____

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)
	Dec. 29 1992	Peter Harvey

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

Peter Harvey	% ROYAL OAK MINES INC - address above.
Telephone No. 705-360-1141	Date Dec 29, 1992

Certified By (Signature)

Peter Harvey.

For Office Use Only

Total Value Cr. Recorded <i>\$22,400</i>	Date Recorded <i>Dec 30/92</i>	Mining Recorder <i>G. White</i>	Received Stamp PORCUPINE MINING DIVISION RECEIVED Counter DEC 30 1992 1035
Deemed Approval Date <i>MAR. 30/93</i>	Date Approved <i></i>	Date Notice for Amendments Sent <i></i>	

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	935136	1
	935135	1
	935140	1
	935143	1
	935147	1
	935155	1
	935156	1
	935157	1
	917639	1
	917638	1
	1159037	1
	1159039	1
	935159	1
	935160	1
	935161	1
	CONTINUED	

**Total Number
of Children**

Total Value Work Order

**Total Value
Work Analysis**

**Total Assigned
From**

Total Pages

Creditors 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 prioritize 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 prioritized 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.

bit 2: If Work has been per-

Block 2: If work has been performed on patented or leased land

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

Please complete the following:

Signature	Date
-----------	------

**Nombro total
di chiamate**

**Nombro total
de Clientes**

Valeur totale des travaux effectués

Value totale des travaux qui a été effectué

**Total
population**

Riserva totale

Les crédits que vous réclamez dans le présent rapport peuvent être réduits. Afin de diminuer les conséquences défavorables de telles réductions, veuillez indiquer l'ordre dans lequel vous désirez au'elles soient appliquées à vos claims. Veuillez cocher (✓) l'une des options suivantes :

1. Les crédits doivent être réduits en commençant par le dernier claim sur la liste.

2. Les crédits doivent être réduits également entre tous les claims figurant dans le présent rapport.

3. Les crédits doivent être réduits selon l'ordre donné en annexe.

Note 1 : Exemples d'

Note 1 : Exemples d'intérêts bénéficiaires : cessions non enregistrées, ententes sur des options, protocoles d'entente, etc. relatifs aux créances

<p>Je certifie que le titulaire enregistré possèdeait un intérêt bénéficiaire sur le terrain faisant l'objet de lettres patentes ou d'un bail, au moment où les travaux ont été exécutés.</p>	<p>Signature</p>	<p>Date</p>
--	-------------------------	--------------------



Ministry of
Northern Development
and Mines

Méthode du
Développement du Nord
et des mines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Transaction No./N° de transaction

W9260.0017

Mining Act/Loi sur les mines

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, Mining 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 question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaire	Labour Main-d'œuvre	10,517	
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fee Droits de l'entrepreneur et de l'expert- conseil	Type Linecutting	10,759	
Supplies Used Fournitures utilisées	Type Field Gear	98	
Equipment Rental Location de matériel	Type RECEIVED		
	JAN 26 1993		
	MINING LANDS BRANCH		
Total Direct Costs Total des coûts directs			

Total Direct Costs
Total des coûts directs

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 Vehicle Lease	1,026	
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partie des coûts indirects			
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)

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 Minister 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.

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
x 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	Evaluation totale demandée
	x 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 Peter Harvey, Geologist I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification.

Signature Peter Harvey Date Dec 29, 1992



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Branch
Geoscience Approvals Section
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

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

March 24, 1993

Our File: 2.14882
Transaction #W9260.00177

Mining Recorder
Ministry of Northern Development
and Mines
60 Wilson Avenue
1st Floor
Timmins, Ontario
P4N 2S7

Dear Sir/Madam:

**Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS
935136 ET AL. IN SEMPLE AND HUTT TOWNSHIPS**

The Deficiencies in the Geological Survey submitted in the above Report of Work have been rectified.

The Geological survey has been approved under section 12 of the Mining Act Regulations.

The assessment work credit form originally submitted has been approved as of March 9, 1993.

Please indicate this approval on your records.

If you have any questions regarding this correspondence contact Ted Anderson of the Mining Lands Branch at (705) 670-5856.

Yours sincerely,

Ron C. Gashinski
Senior Manager, Mining Lands Branch
Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY
GIS - ASSESSMENT FILES

MAR 30 1993

RECEIVED

Assessment Files Library
Toronto, Ontario

D TMK
TAA/jl
Enclosures:

cc: Resident Geologist
Thunder Bay, Ontario

LEGEND

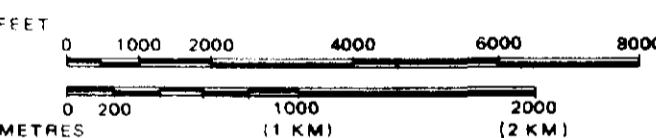
HIGHWAY AND ROUTE NO.	
OTHER ROADS	
TRAILS	
SURVEYED LINES:	TOWNSHIPS, BASE LINES, ETC.
	LOTS, MINING CLAIMS, PARCELS, ETC.
UNSURVEYED LINES:	
	LOT LINES
	PARCEL BOUNDARY
	MINING CLAIMS ETC.
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
NON-PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	
SUBDIVISION OR COMPOSITE 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	◎

(F) THIS TWP. IS SUBJECT TO FOREST ACTIVITY IN 1992/93. FURTHER INFORMATION AVAILABLE ON FILE.

SCALE: 1 INCH = 40 CHAINS



RECEIVED

JAN 31 1993

TOWNSHIP

HUTT

M.N.R. ADMINISTRATIVE DISTRICT

TIMMINS

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

SUDBURY



Ministry of
Natural
Resources
Ontario

Ministry of
Northern Development
and Mines

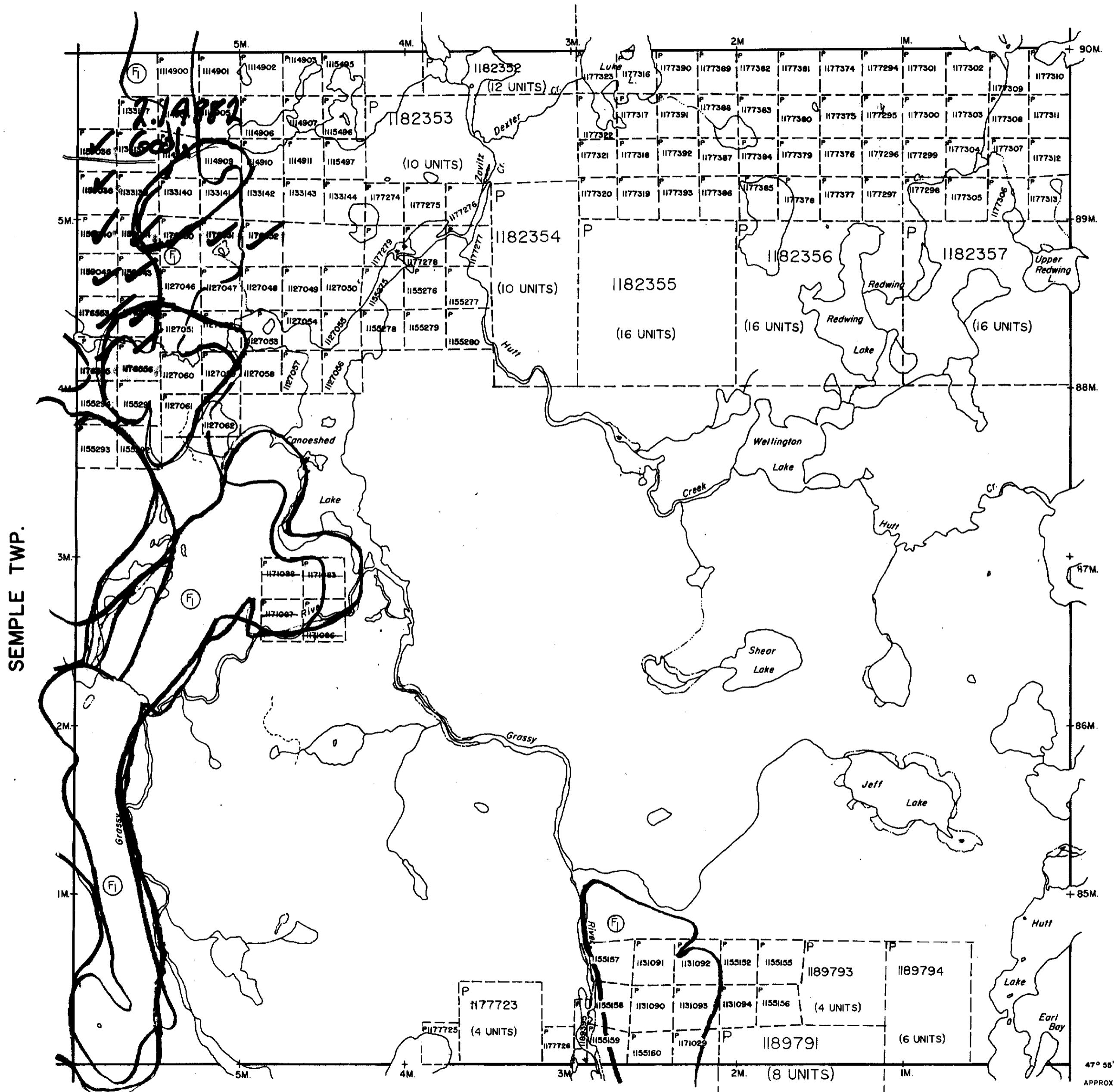
Date JUNE, 1992

ACTIVATED JULY 16, 1992
BY D.C.

CHECKED BY G.W.

G-3948

ZAVITZ TWP.



42A03SE8378 2.14882 HUTT

200

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

(R) THIS TWP. SUBJECT TO FOREST ACTIVITY IN 1992/93
FURTHER INFORMATION ON FILE.

(F) THIS TWP. IS SUBJECT TO FOREST ACTIVITIES IN 1991/92
FURTHER INFORMATION AVAILABLE ON FILE.

Areas withdrawn from staking under Section 43
of the Mining Act(R.S.O. 1970)

Order	File	Date	Disposition
(R) W.I. / 78	168543	10 / 4 / 78	S.R.O.

RECEIVED
JAN 21 1993

ACTIVATED APRIL 24, 1990 D.C.

LEGEND

P or *	(P)
PATENTED LAND	(P)
PATENTED FOR SURFACE RIGHTS ONLY	(S)
LEASE	(L)
LICENSE OF OCCUPATION	(L.O.)
CROWN LAND SALES	(C.S.)
LOCATED LAND	(Loc.)
CANCELLED	(C.)
MINING RIGHTS ONLY	(M.R.O.)
SURFACE RIGHTS ONLY	(S.R.O.)
HIGHWAY & ROUTE NO.	(17)
ROADS	—
TRAILS	—
RAILWAYS	—
POWER LINES	—
MARSH OR MUSKEG	—
MINES	—

*used only with summer resort locations or when space is limited

TOWNSHIP OF

SEMPLE

DISTRICT OF
SUDBURY

PORCUPINE
MINING DIVISION

SCALE : 1 INCH = 40 CHAINS (1/2 MILE)

DR. R.W. NOBLE

PLAN NO. **M-1100**

DATE APR. 22, 71

ONTARIO
DEPARTMENT OF MINES
AND NORTHERN AFFAIRS

MOHER TWP. M-868

ENGLISH TWP. M-787

HUTT TWP. M-943

SOTHMAN TWP. M-1121

