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ROYAL OAK MINES INC.

SHOAL LAKE - CLYTIE BAY AREA

CLAIM 1218878

GEOLOGICAL REPORT

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RECEIVED

JUL - 9 1998

GEOSCIENCE ASSESSMENT OFFICE

Peter G. Harvey, H.B.Sc., F.G.A.C.

Project Geologist

Eastern Canada Exploration

July 8, 1998

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1.0 INTRODUCTION

Geological mapping, rock sampling and the recutting of claim lines was completed on claim 1218878 during June, 1998. The claim is located in the Clytie Bay area of Shoal Lake which is near Kenora, Ontario, and it covers about 1.0km of a quartz diorite/mafic volcanic contact which is considered favourable for gold mineralization.

2.0 OWNERSHIP

Claim 1218878 is 100% held by Royal Oak Mines Inc., P.O. Bag 2010, Timmins, Ontario, P4N 7X7.

3.0 LOCATION and ACCESS

Claim 1218878 is located in the Clytie Bay area of Shoal Lake (G-2642), and it is about 50km south-west of Kenora, Ontario. Access to the claim is via the Rush Bay/Echo Bay Road south from the Trans-Canada Highway to the Clytie Bay landing, and then via boat about 1.5km south to the claim. Refer to Figure 1.

4.0 PREVIOUS WORK

The area of claim 1218878 was worked between 1899 and 1900 when Crown Point Mining Co. sank three shafts, did some lateral development work, and processed 150 tons of ore grading 0.67opt Au/ton (Davies and Smith, 1988).

In 1968 Olympia Mines did electromagnetic and magnetometer surveys which outlined a strong, linear northeast trending anomaly about 1.0km northeast of the Crown Point Mine area. This anomaly was then tested with six diamond drill holes. The holes cored diorite, which was locally sheared, and contained traces of chalcopyrite and pyrrhotite (Ennis, 1968).

The most extensive recent work on the property was done for Sherritt Gordon Mines Ltd. in 1980. This work consisted of geological mapping, prospecting, trenching and sampling, and it was focussed in the area of the three shafts sunk by Crown Point Mining. All samples from this area were assayed for gold and returned low values, ie below 0.020opt Au. One sample assayed 0.060opt Au from a shear zone near the Main Shaft. A 14m wide shear zone, contained entirely within quartz diorite, is located about 200-300m southeast of the shafts. This wide shear zone returned values of 0.020opt Au/ton over 9.0m. Additionally, some of the core from the 1968 drilling done by Olympia was sampled, and returned values of 0.17% nickel over 1.6m and 0.12% copper over 1.3m (Harder and Morse, 1980).

5.0 REGIONAL GEOLOGY AND MINERALIZATION

The Shoal lake area, including Clytie Bay, was mapped by J.C. Davies in 1982 and his work was published by the O.G.S. as Map 2422. Claim 1218878 lies on the western margin of the Canoe Lake stock, a massive quartz diorite body which has intruded the mafic volcanic and intrusive units (basalt, gabbro and peridotite) which form a northeast trending sequence along the eastern part of Shoal Lake. Smith and Thomas (1986) also mapped the area, and refer to these units as the Cedar Island Formation, shown in Figure 2.

Claim 1218878 covers about 1.0km of the fault controlled contact between the Canoe Lake Stock and the mafic volcanics of the Cedar Island Formation. This contact is considered to be amenable for gold mineralization as several gold occurrences are known to exist along it in the Bag Bay area (Figure 2), including the Crown Point Mine which is partially on the claim.

Three shafts were developed as the Crown Point Mine, the northernmost of which is referred to as the Contact Shaft as it lies directly on the quartz diorite/mafic volcanic contact. It is not known how much, if any, of the historic production reported from the mine came from this shaft. Sherritt Gordon did some work in this area, including blasting and sampling new trenches which expose shear zones in the mafic volcanics. These shears trend at 070 degrees and are developed as zones of chlorite schist which are up to several metres wide, and contain cm scale quartz veinlets along with trace amounts of coarse grained pyrite.

The other two shafts and the lateral work done by Crown Point were within the quartz diorite, and Davies and Smith (1988) state that 'gold mineralization on the property is restricted to thin, weakly to moderately silicified, weakly pyritiferous, east-trending shear zones within quartz diorite, and in a fault slice consisting of fine-grained basalt which is in contact with porphyritic gabbro'.

Therefore, both the mafic volcanics and the quartz diorite are considered to be prospective for gold mineralization, and this led to the mapping and sampling done on the claim in 1998.

6.0 1998 PROGRAM

Between June 22 and 26, 1998, the contact between the quartz diorite of the Canoe Lake Stock and the mafic volcanics of the Cedar Island Formation within claim 1218878 was mapped by the author and sampled by Paul Collins of Timmins, Ontario. Additionally, physical work consisting of the recutting of claim lines along the portion of the claim boundary that occurs on land was also done. A total of nine traverses were completed across the contact and a total of 25 samples were taken from five of the traverses from both the quartz diorite and the mafic volcanics. Traverses were completed by pace and compass lines at about 100m intervals originating along the southern boundary of the claim. The area of the contact is generally of high ground with minimal overburden cover and was therefore suitable for mapping. Table 1 is a list of the Geological Units mapped on the claim, Figure 3 is a 1:4000 scale Geological Map of Claim 1218878.

a) Geology

I) Canoe Lake Stock

The Canoe Lake Stock as mapped is a massive, white weathering quartz diorite which, along the southern edge of claim 1218878, forms a series of 070 degree trending ridges. These ridges parallel a dominant fracture/joint system in the quartz diorite oriented at 070-90.

The unit is composed of 45-70% andesine, up to 40% quartz and less than 20% mafic minerals, which are mainly chlorite (Davies, 1987). Davies (1987) also notes that the stock is distinctly different from the other stocks in the area, as it has a high degree of alteration and fracturing, abundant porphyry dikes, fractured controlled contacts and locally disseminated sulphides, and he concludes that in some respects the Canoe Lake Stock resembles intrusions associated with porphyry copper deposits.

During mapping it was noted that the margin of the stock is altered in a zone about 30m wide along the contact with the mafic volcanics. The quartz diorite here weathers to a pale rusty brown colour and contains abundant randomly orientated chlorite lined tabular fractures. It contains trace to 3% amounts of fine grained pyrite occurring both as fine disseminated grains and as discontinuous stringers.

ii) Cedar Island Formation

Basalts of the Cedar Island Formation are well exposed immeadiatly north of the Canoe Lake Stock. These mafic volcanics are generally dark green, very fine grained and are comprised mainly of chlorite. When observed 50m or more from the contact with the quartz diorite, they are generally massive and featureless, however closer to the contact the mafics become increasingly more schistose and areas of chlorite schist a few metres across are common. Several trenches in the area of the Contact Shaft expose this chlorite schist where discontinuous quartz stringers and coarse pyrite grains also occur within it.

An intrusive unit consisting of a massive, medium grained gabbro was observed while recutting the northern boundary of the claim, as shown in Figure 3.

b) Sampling

A total of 25 rock samples were obtained during the 1998 program. Sampling was concentrated in both the quartz diorite and the mafic volcanics in the immediate area of the contact for a distance of about 1.0km eastward from the shore of Clytie Bay.

Samples were sent to Chemex Labs for both gold analysis (30g FA/AA finish) and an ICP 9g standard aqua regia leach with an ICP finish for Ag, Co, Cu, Fe, Mn, Mo, Ni, Pb, and Zn. Table 2 is the Certificate of Analysis from these samples.

c) Recutting of Claim Lines

The lines delineating the land portion of claim 1218878 were recut and all posts were located and flagged. The geographic and geological features noted while doing this work are shown in Figure 3. The remainder of the claim is water covered, the Number 3 post is on the shore of Clytie Bay as shown in Figure 4.

7.0) CONCLUSIONS AND RECOMMENDATIONS

The fault controlled contact between the Canoe Lake Stock and the Cedar Island Formation mafic volcanics was mapped and sampled for a distance of about 1.0km. A 30m wide altered zone along the margin of the stock was observed and found to contain abundant chlorite lined fractures and trace to 3% pyrite, suggesting this zone has been subjected to a mineralizing event.

Samples obtained during the program were analysed for ten elements, and the results are given in Table 2. Gold values were all in the ppb range, the highest value of 70ppb was from the pyrite bearing chlorite schist taken from the old trenches near the Contact Shaft. Copper values were also all in the ppb range, the highest value was also from the old trenches. It is of interest to note that samples from the quartz diorite were all 1ppb Cu, however in the 30m wide altered zone they averaged 33.6ppb and ranged up to 157ppb.

Disseminated pyrite is found associated with the gold deposits and occurrences in the area, including the Crown Point Mine, in both the mafic volcanics and the quartz diorite, as well as in the altered zone along the margin of the Canoe Lake Stock. It is therefore recommended that Induced Polarization surveys be completed in selected areas along the margin of the stock and any resultant anomalous zones be tested by diamond drilling.

REFERENCES

Davies, J.C. 1987

OGS Open File Report 5242 p.38-41

Geology of the Shoal Lake - Western Peninsula Area

District of Kenora

Davies, J.C. and Smith, P.M. 1988

OGS Open File Report 5695 p.75-77

The Geological Setting of Gold Occurrences in the Lake of The Woods Area

Ennis, G.F. 1968

Kenora Assessment File 52/E10 SW P-2

Olympia Mines Diamond Drill Logs S-1 to S-6

Harder, D.G. and Morse, R.H. 1980

Kenora Gold Project

Crown Point Claims (Fairservice Option)

Geological and Trenching Report for Sherritt Gordon Mines Ltd.

Smith, P.M. and Thomas, D.A. 1986
OGS Miscellaneous Paper 132, p.242-251
Interrelationship of gold mineralization and the Canoe Lake Stock,
Northwestern Lake of the Woods Area

STATEMENT OF QUALIFICATIONS

- I, Peter G. Harvey, of 134 Eric Crescent, City of Timmins, Ontario, do hereby certify that:
- 1) I graduated from Lakehead University, Thunder Bay, Ontario in 1985, with an Honours Bachelor of Science Degree in Geology.
- 2) I am a Fellow of the Geological Association of Canada.
- 3) I have practised my profession as a geologist in Canada through my employment with several mining companies since 1985.
- 4) I am a salaried employee of Royal Oak Mines Inc.
- 5) I am the author of this report which is based on information available to me from both personal observations and from other sources (as referenced) at the time of writing.
- 6) I have no interest, nor do I expect to receive any interest, direct or indirect, from any company holding property in the area described.

Dated this 8th day of July 1998

Peter G. Harvey Project Geologist Royal Oak Mines Inc.

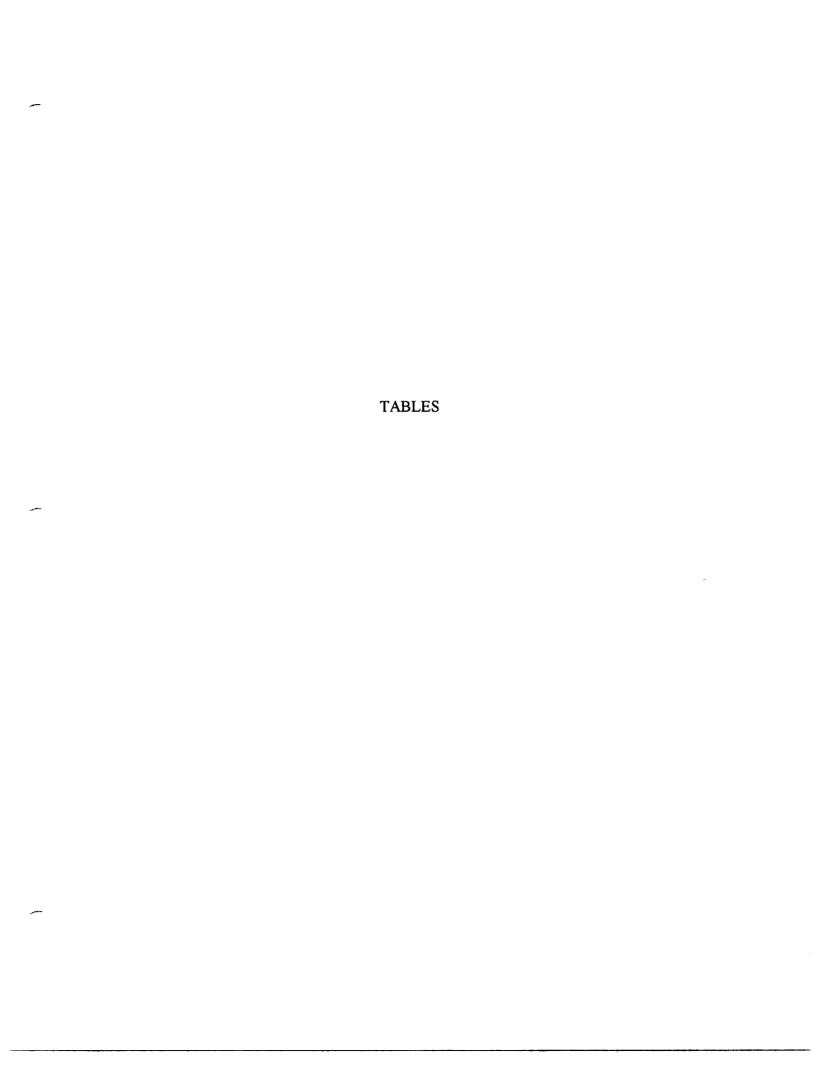


TABLE 1

GEOLOGICAL UNITS

ROCK TYPES

Felsic Intrusives (Canoe Lake Stock)

QD

Quartz Diorite

QD-A

Altered Quartz Diorite

Mafic Volcanics and Intrusives (Cedar Island Formation)

BAS

Basalt

CLS

Chlorite Schist

GAB

Gabbro

MINERALIZATION

ру

pyrite



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

S175 Timberlea Blvd., Mississauga Ontario, Canada L4W 2S3 PHONE: 905-624-2806 FAX: 905-624-6163

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

Project: 2004 Comments: ATTN: PETER HARVEY

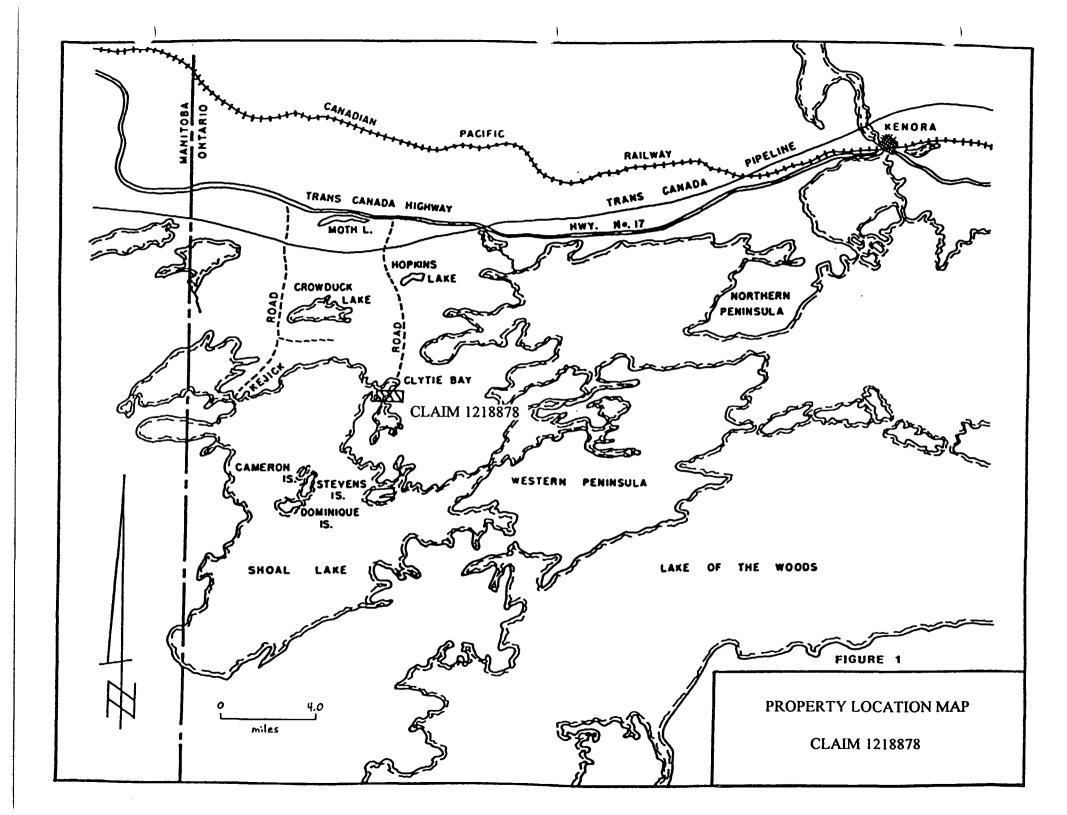
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AX 45168 AX 45169	255 29		< 0.2	i ii	83	5.41	875	< 1	155	< 2	110
AX 45170	255 29		< 0.2	وَ	1	2.66	585	< 1	18	< 2	5 (
X 45171	255 29		< 0.2	31	81	6.38	1260 1295	1	90 64	< 2 < 2	12 13
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AX 45173 AX 45174	255 29		< 0.2	19	5	3.34	685	< I	43	< 2	7
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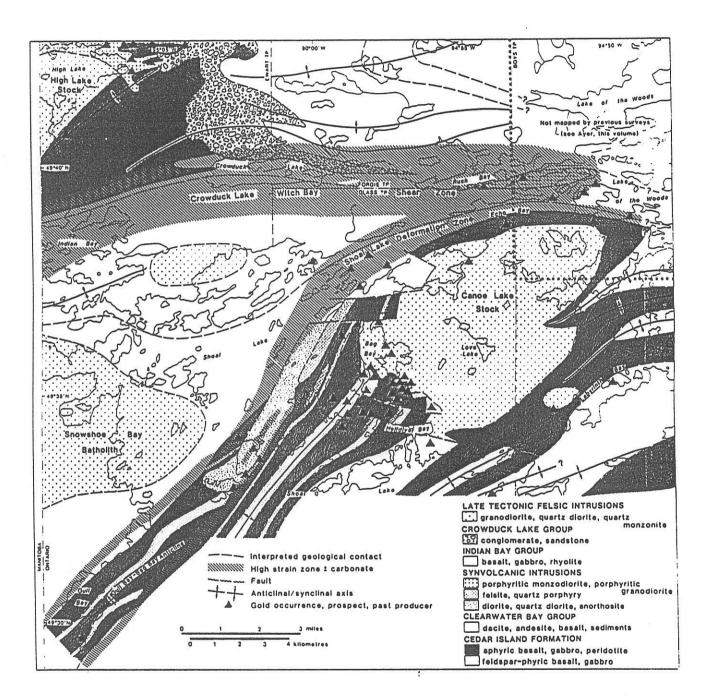
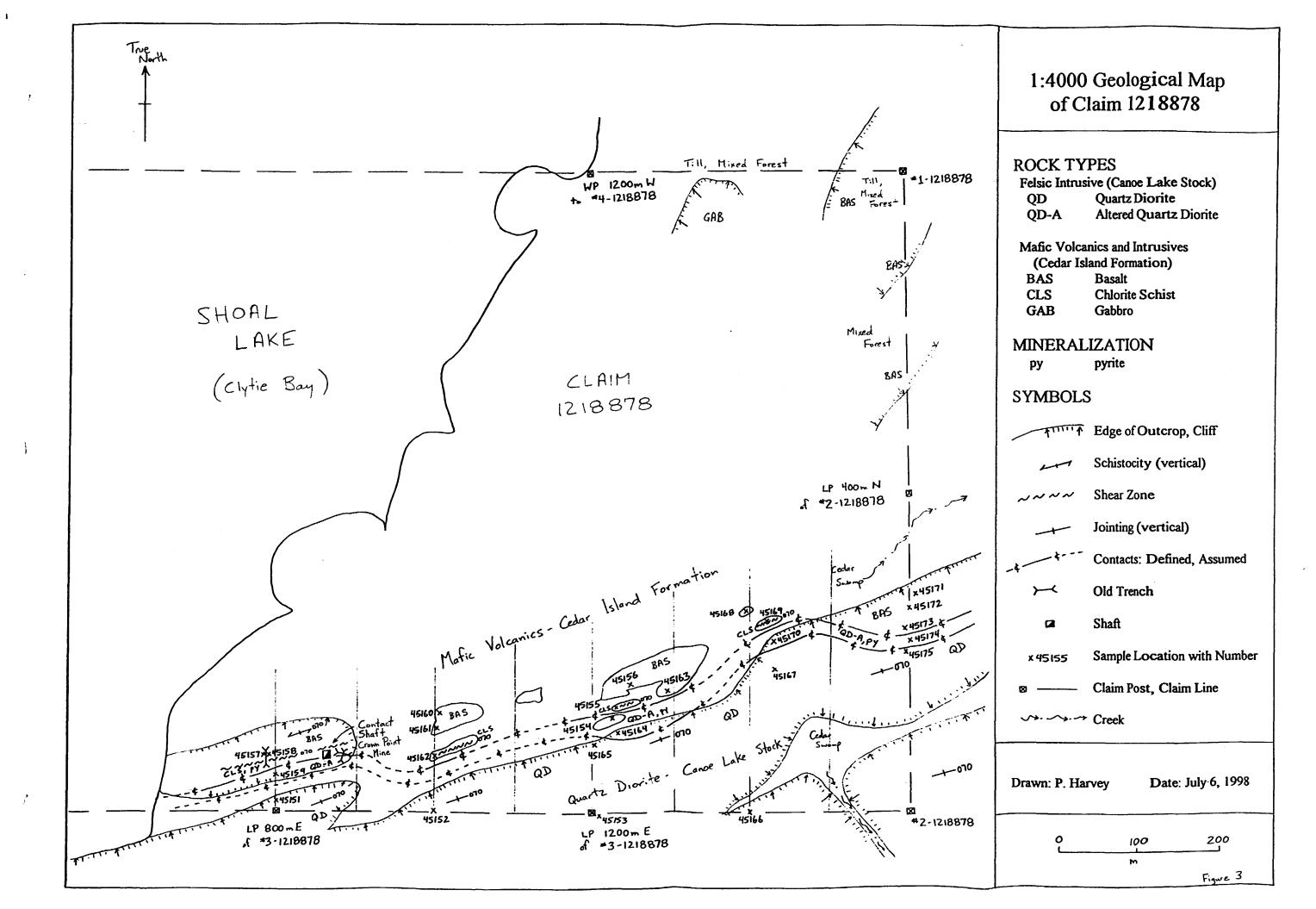
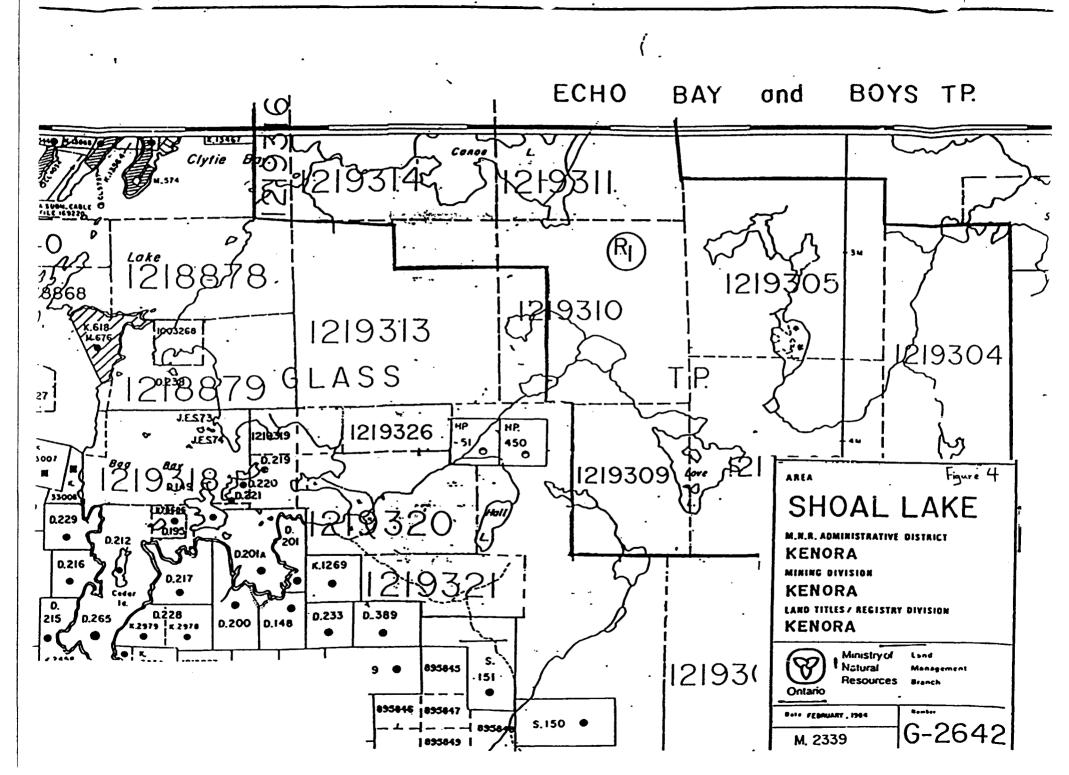


Figure 2

Generalized Geology of the Shoal Lake-High Lake-Echo Bay Area

(from Smith and Thomas, 1986)







Declaration of Assessment Work Performed on Mining Land

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Transaction Number (office use) 1.9810.00106



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bsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, this sent work and correspond with the mining land holder. Questions about this collection nent and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 685.

Instructions: - For work performed on Crown Lan - Please type or print in ink.	ds before recording a claim, u	se form 0240.
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- complete and attach a Sta	irface rights holders before star tement of Costs, form 0212; ntiguous mining lands that are l	ting work;
3. Person or companies who prepared the te	chnical report (Attach a list if	necessary)
Name Reter Harvey		Telephone Number 705 - 360 - 1141
Address % Royal Onk Mines Inc.	as above	Fax Number 705 - 360 - 1532
Name		Telephone Number
Address	RECORDED	Fax Number
Name	JUL - 9 1998	Telephone Number
Address		Fax Number
4. Certification by Recorded Holder or Agent I, teter (tarvey (Print Name) this Declaration of Assessment Work having cause completion and, to the best of my knowledge, the	, do hereby certify that I have ed the work to be performed or	personal knowledge of the facts set forth in witnessed the same during or after its
Signature of Recorded Holder or Agent	(1)	Date July 8 198
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Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

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Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
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Mining Act, Subsection 95(2) and 99(3), R.S.O. 1999

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Approved for Recording by Mining Recorder (Signature)

Date Approved

Total Value of Credit Approved

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Statement of Costs for Assessment Credit

W.9810.00 109

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Wark Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drifting, late- metres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
Geologist	_5 days 8 days	\$250 /day	F1250-2000
Assostant	4 days	\$ 150 / day	* 600
Samples - Analysis	25 Samples	28"	* 702
		SSOCIATIO	
	(3 days repret	3 7000	\$ \
	WRITING)	8 1.1.2	FIRE
	RC.	(3) (1) (d)	4000
Associated Costs (e.g. supplie	s, mobilization and demobilization).	FELLOW	
Compe R	ental 2 Jays	30/day	\$ 60
		<u> </u>	
Trans	portetion Costs		
Travel Timmins to Sheel 1	ake and Return		
1350 km x 2 = 2			\$810
Food	and Lodging Costs		
Men	ls, Hotal		\$614
	RECORDED	<u> </u>	
	JUL - 9 1998	of Assessment Work	34036
		a .	8 4781
Note: - Work older than 5 years is not - A recorded holder may be request for verification and/or oc Minister may reject all or part of	vired to verify expenditures claimed in interestion/clarification. If verification and/	this statement of costs to correction/clarification	within 45 days of a
Certification verifying costs:	, do hereby certify, that the	· ·	
(please print tyl reme)		A despendition in white him	THE MENTOR HIGHCONDO ON
reasonably be determined and the		donist	I am authorized
the accompanying Declaration	DOTEM or project Ge	to company position with signing s	t am authorized
the accompanying Declarational to make this certification.	JUL -9 1998	donist	uthorized
the accompanying Declarational to make this certification.		donist	nutreray) I am authorized
the accompanying Declaration to make this certification.	JUL 9 1998 CIENCE ASSESSMENT	deniet te conjustiny position with signing s	J. y 8 '98
the accompanying Declaration to make this certification. GEOS JUL 14 '98 89:32	JUL 9 1998 GIENCE ASSESSMENT OFFICE GEORGE G	domist to confidently position with signing is	J. y 8 '98
the accompanying Declaration to make this certification. GEOS JUL 14 '98 89:32	JUL 9 1998 CIENCE ASSESSMENT	domist to confidently position with signing is	J. y 8 '98
the accompanying Declaration. to make this certification. GEOS SUL 14 '98 09:32 eject all or part of the ass /erifying costs:	JUL - 9 1998 GIENCE ASSESSMENT OFFICE SESSITION WORK SUDMINION.	demist to company position with signing s	Tly 8 '98 PAGE 82
the accompanying Declaration. to make this certification. GEOS JUL 14 '98 09:32 eject all or part or the ass verifying costs:	JUL 9 1998 GIENCE ASSESSMENT OFFICE TO hereby certify, tha	t the amounts she	TILY 8 '98 PAGE. 02
the accompanying Declaration. to make this certification. GEOS JUL 14 '98 09:32 eject all or part or the ass verifying costs:	JUL 9 1998 GIENCE ASSESSMENT OFFICE TO hereby certify, tha	t the amounts she	TILY 8 '98 PAGE. 02
the accompanying Declaration. to make this certification. GEOS BILL 14 '98 09:32 eject all or part of the ass verifying costs: (please print full name) determined and the cost	JUL -9 1998 GIENCE ASSESSMENT SESSMENT WORK SUDMILLEU. do hereby certify, that is were incurred while conduction.	t the amounts sho	Dy 8 '98 Dy Roce. 22 Dwn are as accurate work on the lands
the accompanying Declaration. to make this certification. GEOS JUL 14 '98 09:32 eject all or part or the ass verifying costs:	JUL 9 1998 GIENCE ASSESSMENT OFFICE TO hereby certify, tha	t the amounts sho	Dy 8 '98 Dy Roce. 22 Dwn are as accurate work on the lands

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines



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

Telephone: (888) 415-9846 (877) 670-1555

Visit our website at:

Submission Number: 2.18653

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

Dear Sir or Madam:

September 29, 1998

TIMMINS, ONTARIO

ROYAL OAK MINES INC.

Peter Harvey

P4N 7X7

P.O. BAG 2010

Status

Subject: Transaction Number(s):

W9810.00106 Deemed Approval W9810.00107 Deemed Approval

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

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

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

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

Yours sincerely,

ORIGINAL SIGNED BY

Blair Kite

Supervisor, Geoscience Assessment Office

Mining Lands Section

Work Report Assessment Results

Submission Number:

2.18653

Date Correspondence Sent: September 29, 1998

Assessor: Bruce Gates

Transaction Number

First Claim

Number Township(s) / Area(s)

Status

Approval Date

W9810.00106

1218878

SHOAL LAKE

Deemed Approval

September 28, 1998

Section:

10 Physical PRECUT

Transaction Number

First Claim Number

Township(s) / Area(s)

Status

Approval Date

W9810.00107

1218878

SHOAL LAKE

Deemed Approval

September 28, 1998

Section:

12 Geological GEOL

Correspondence to:

Resident Geologist

Kenora, ON

Assessment Files Library Sudbury, ON

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

Peter Harvey

ROYAL OAK MINES INC.

TIMMINS, ONTARIO

ROYAL OAK MINES INC.

TIMMINS, ONTARIO

