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GEOLOGICAL REPORT OF THE HORWOOD-QUARTZ VEINS PENHORWOOD TOWNSHIP PORCUPINE DISTRICT, ONTARIO

FOR

ROSEVAL SILICA INC.

RECEIVED

APG - 0 1989

BY

MINING LANDS SECTION

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JEAN BÉRARD, Ph.D., Géologue,



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Summary of Conclusions and Recommendation

- 1) There are numerous veins of pure quartz in the area of metavolcanics but they are hard to find due to the scarcity of outcrops.
- 2) The area north of Quartz Site #2 seems to be the most promising for further search for quartz since it is in a continuous dome-shaped stretch half a mile long.
- 3) Other quartz veins deserve further exploration. These are located on figures 5 and 6.
- 4) Apart from the quartz, the ultrabasic rocks deserve further investigation due to the fact that there are komatilites with spinifex textures. Base and precious metals are often associated with these rocks.

1.0 - Introduction

The Geological Mapping of the claims held by Roseval Silica Inc. was undertaken by four geologists MM. Jean Bérard, François Côté, Alain Blanchette and Luc St-Pierre on behalf of the said company. This report and the accompanying maps are the result of a three week survey done from May the 18th to June the 4th, 1988.

1.1 - Geographic setting

The property called the "Roseval Quartz Deposit" is located in the South West quadrangle of Penhorwood Township in the Porcupine district of Ontario, between the latitudes 48°11' and 48°06' and the longitudes 82°07' and 82°11'. It is divided into two parts by CN railroad tracks (Fig. 1).

Penhorwood road, which branches off from Highway 101, about 48 km west of Timmins, permits an easy access to the area. (See access roads map, fig. 2). Horwood Lake Road can be used by four-wheel drive vehicules and it gives access to many of the smaller dirt roads in the south western part of the area.

From Penhorwood Road it is easy to reach the area using the Extender Barite Mine Road for the claims located to the north of the tracks whereas the Tionaga-Horwood road can be used to reach the claim to the south of the tracks.

Previous Geological work

Excerpt from R.G. Komarechka's report to Roseval Silica Inc. dated Nov. 26, 1987:

"Other than the work conducted at the Extender Barite Mine site the following work had been done on the quartz in the area.

Old timber covered trenches near the southwest end of the Site 1 vein structure were found in the preliminary mapping, as well as some old pits in quartz veins along the Extender Barite mine access road. No

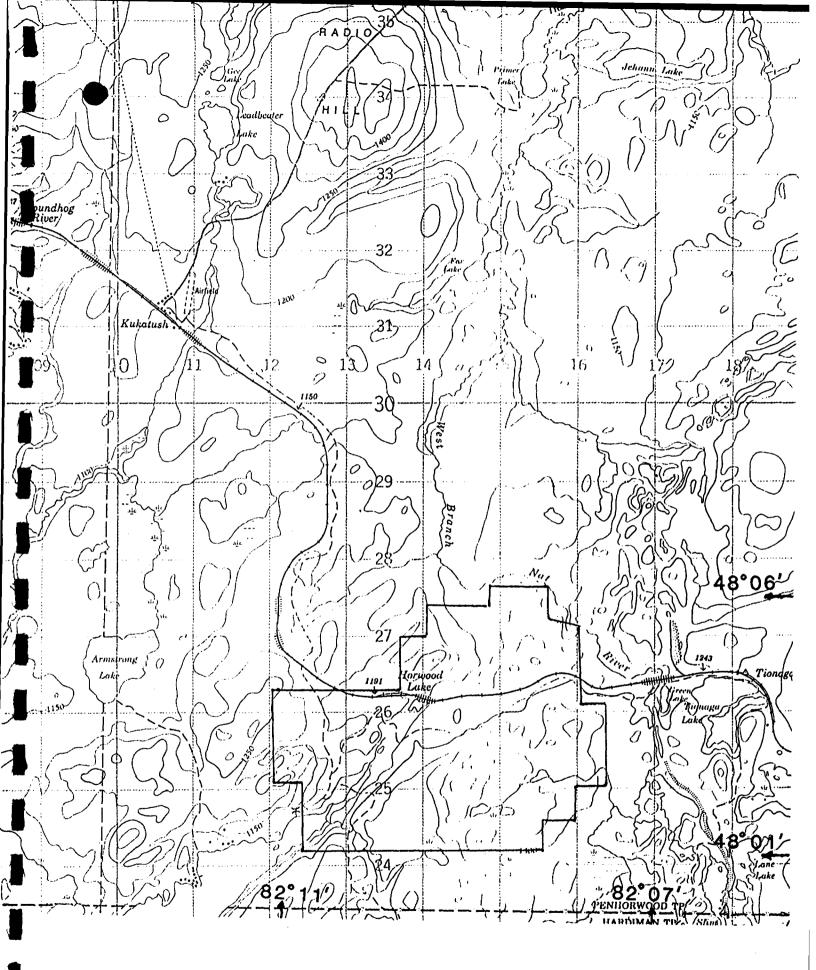


Figure 1 - Topography and Claim boundaries (Scale 1:50000)

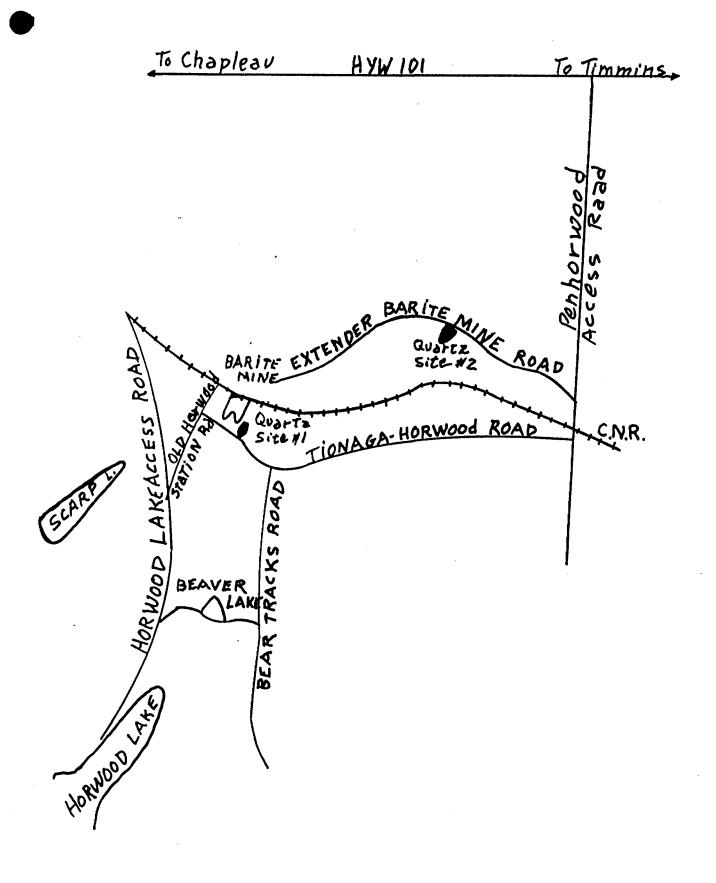


Figure 2 - Access roads to the area (not to scale)

information was available on these workings.

Fresher trenches across the Site 1 vein structure north of the old E - W Tionaga Horwood road were apparently stripped and blasted by Horwood Mining Limited in 1964-65. During this time the northeast end of the vein was also quarried and quartz chips for stucco were produced. The quarrry has been closed as of 1965 and no further work has since been done."

At the time of our visit Quartz Site #2 was producing and the Tionaga-Horwood road was being improved to give heavy machinery access to Quartz Site #1. Stripping along Barite Access road had been completed wherever quartz veins had been found; an area rich in quartz had been stripped to the North West of Quartz Site #2. The description of these workings is compiled in a report by R.G. Komarechka and no further mention is done in this report.

1.2 - Purpose of the project and procedures

The main object of the survey was to produce a geological map at a scale of 1:2400 to locate quartz veins and also to investigate other valuable minerals. Since no line had been cut and surveyed prior to the mapping, a rapid chain and compass road survey was done and linked to the railroad tracks. This type of survey is not accurate and for that reason the most interesting showings will be described as related to the chained roads. Aerial photographs were enlarged to the scale of about 1:2400 in order to locate the limits of the claimed areas and as a geographic control.

The geological mapping was done at 400' (120 m) intervals in the granodiorite of the south-east claims and at 200' (60 m) to 300' (90 m) intervals in the rest of the claims, depending on the abundance of the outcrops or the geological interest of the area. All of the outcrops encountered were reported on a base map at a scale of 1:2400, (1" = 200'). (Note: The inaccuracy of the chain and compass survey is related to the local presence of highly magnetic rocks in some places, especially in some facies of the lavas.)

Each traverse was done with a compass and a topofil (or measuring thread) using an appropriate correction factor. Travel through the bush was tedious due to fallen balsam trees and some marshy areas. The outcrops are scarse and hidden under vegetation. Lineaments observed on the aerial photographs were plotted on the map and also the swampy or low lying areas devoid of outcrop.

1.3 - Mining claims

Roseval Silica Inc. owns a group of 66 mining claims as shown on the accompanying index map (fig. 3). Those claims bear the following numbers:

966583 966584 966585 966586 966587	
984379 984383	
986588 986589	
994114 994260 994261 994625 994626 994627 994628 994629 994630 994631 994632 994633 994634 994635 994636 994637 994640 994641 994642 994643 994644 994645 994645 994650 994650 994653 994653 994653	
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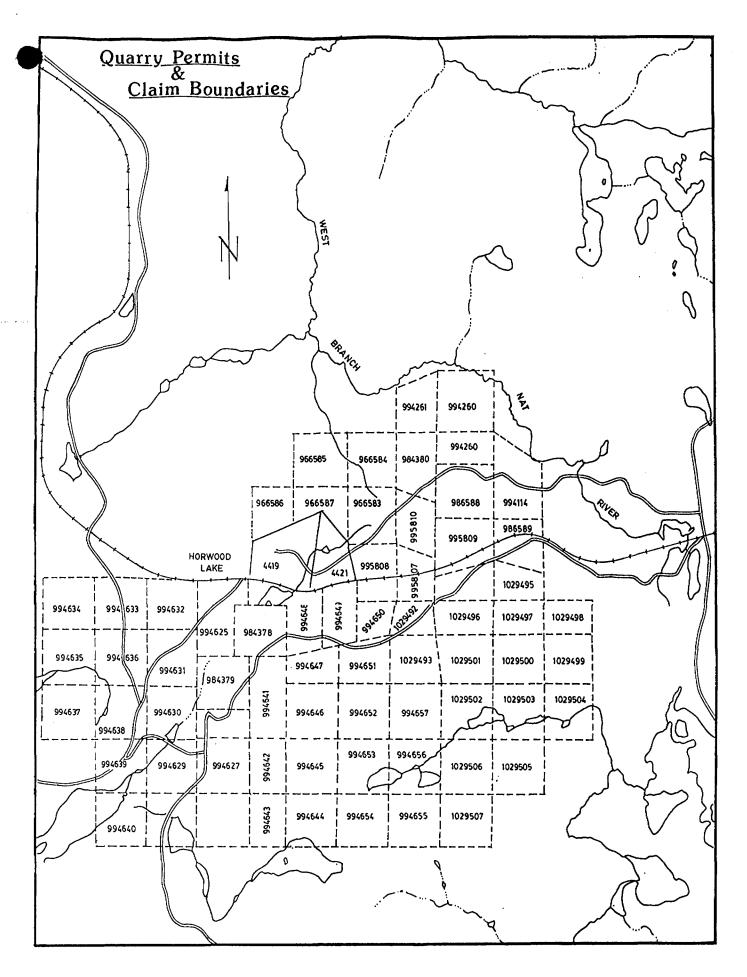


Fig. 3

2.0 - Regional geologic setting

Acidic to basic and ultrabasic lavas which occur in the northwestern and western parts of the area are the oldest rocks. They have been intruded by a granodiorite batholith and inclined towards the northwest with an average dip of 50°. Close to the intrusive the lavas have witnessed a higher degree of metamorphism whereas the lavas far away from the intrusive show only a low degree of metamorphism. The granodiorite batholith, found in the south and southeastern portion of the claims, is a mixture of many igneous and metamorphic rock inclusions and no attempt was done to separate the various facies due to the scarcity of outcrops. An area of quartz porphyry occur to the north west of the claims.

A younger intrusive granite has cut across the lavas. Altered granite is also found associated with numerous quartz veins which pinch an swell in many localities. Diabase dykes cut across all rock types.

Indication of faults are numerous where assemblages of milky quartz, epidote, pink orthoclase and chlorite are found in granitoid rocks. Talc rich lavas and sheared lavas are also indicative of faults.

3.0 - Geological description of the property - Petrology

3.1 - Volcanic rocks

The lavas encountered in the area of the claims vary in composition from rhyolite, andesite, basalt and ultrabasic. Rhyolites which are pale grey are found as scattered outcrops mixed with other lavas but they are less abundant than the intermediate or basic lavas. Sometimes in one outcrop it is possible to find many facies of lavas. To the west, north of Scarp Lake there is an area of ultrabasic lavas, or komatiite often showing spinifex. Similar rocks in Abitibi are often rich in nickel and gold. One outcrop of silica iron formation found about 1400 m WSW from Old Horwood Station is strongly magnetic and some strong magnetism is also felt on the compass near the "Station". This rock can be classified as a silicious iron formation and is very probably of sedimentary origin. It is composed primarily of quartz with 20% magnetite.

As we get close to the granodiorite batholith the lavas show a higher degree of metamorphism and it is recristallized to hornblende-actinolite facies, whereas in areas faraway from the intrusive the lavas are in the greenschist facies.

Within the lava flows metagabbros sills or very coarse grained lavas flows are found but it was impossible to trace these horizons laterally for lack of outcrop. Nevertheless it is easy to distinguish metagabbros (or metamorphosed coarse grained lavas) associated with the volcanic ensemble from late diabase-gabbro dykes which show no metamorphism or tectonic deformation.

3.2 - Granodiorite

Medium grey coarse grained (0.5 to 3.0 m) granodiorite covers half

of the map in the south east area. It is composed of feldspar, quartz and biotite. Some pink granite dykes cut across the batholith. Many xenoliths of earlier gneiss are found within the rockmass. This rock is younger than the lavas that have been uplifted and metamorphosed. Occasionally granodiorite occurs within the lava flows in the form of lenses or dykes as can be seen on the map.

3.3 - Altered granite

Sericite granite is always found in contact or at proximity of quartz veins. It is a fine grained, pinkish rock often rusty due to the oxidization of pyrite. Whenever encountered this granite was a clue for searching for quartz in the vinicity. R. Komarechka (1987) pertinently reports that "Its frequent presence adjacent to the northwest contacts of uplifted volcanic blocks and quartz adjacent to the northeast suggest a possible upward direction to the northeast at the time of intrusion".

On the other hand, all altered granites don't necessarily contain thick quartz veins but they are most often criss-crossed by quartz veinules.

On the accompanying map this altered granite was indicated as a separate unit because it is a primary indicator of possible quartz veins despite the fact that this granite is probably a satellite extension of the granodiorite to the south.

3.4 - Quartz Porphyry

The northwest claims are covered by this medium grained, quartz rich, pale grey, pink weathering rock which was classified as a quartz porphyry. The rock contains quartz porphyroblasts within a fine grained matrix containing chlorite, quartz and feldspar.

3.5 - Late Granite

A coarse grained (up to 5 mm) granite dyke cuts across the lavas south of Quartz Lake. This rock contains very little ferromagnesians (chlorite), traces of pyrite and magnetite.

3.6 - Diabase

Diabase dikes are the youngest intrusive rock in the area. They are found cutting all rock types like the granodiorite, the lavas and metagabbros, and the quartz porphyry.

4.0 - Pleistocene

Glacial fluting and striae are trending SSW. Eskers, kames and kettles are oriented N.S. near the ballast pit where the quartz is being stockpiled. For that matter the search of pure quartz angular erratics, as proposed by R.G. Komarechka, is most interesting for tracing back the major quartz veins.

Low lying areas such as those found near Nat River or just NNE of the Barite Mine are covered by thick sediments and no outcrop could be found. Other areas, like the ones around Horwood Lake, Horwood Access road and Old Horwood Station road, are covered by reworked glacial till and in those hilly areas no outcrop was found and the boulders are generally well rounded indicating a long glacial transportation.

5.0 - Structural geology

Faults

Long lineaments were observed on the aerial photographs especially in the granodiorite batholith. In the field such lineaments consist in scarps along which mineralized quartz veins are found associated with secundary minerals such as chlorite, calcite, epidote and pink orthoclase (Fig. 4).

In the lavas there are numerous evidences of late tectonic deformations. These can be detected by the presence of numerous slickensides, talc and sulphides, epidote and some K-feldspar. The emplacement of quartz veins could possibly be related to hydrothermal activities which might have occurred during these late tectonic activities involving granitic material or acidic lavas and tuffs. The origin of the quartz veins remains problematic to the author after a two week visit in this broad area. Nevertheless it is common that desilication of some rocks by metamorphism brings about the deposition of quartz veins.

A major fault oriented 45° can be inferred along the south shore of Scarp Lake where basic lavas occur to the south and ultrabasic spinifex komatiite occurs to the north.

Folds

Drag folds were occasionally found in the granodiorite where inclusions of biotite gneiss have been stretched and deformed.

Folds are less obvious, as a direct evidence, in lavas but looking at local variations in the strikes and dips it can be inferred that sharp foldings occur occasionally. Since the lavas show isoclinal folding it is difficult to interpret broad scale deformations especially in an area of scattered outcrops.

6.0 - Economic Geology

6.1 - Quartz veins

Numerous quartz veins were found during the traverses but they very seldom outcrop. On the countrary they had to be searched for under the moss and tree roots. Everytime the topography was undulating a thorough search indicated the proximity of bedrock but not necessarily quartz.

Northwest of Quarry Site #2, at about 550' from Barite road an area which has been cleared from soil and vegetation shows five quartz

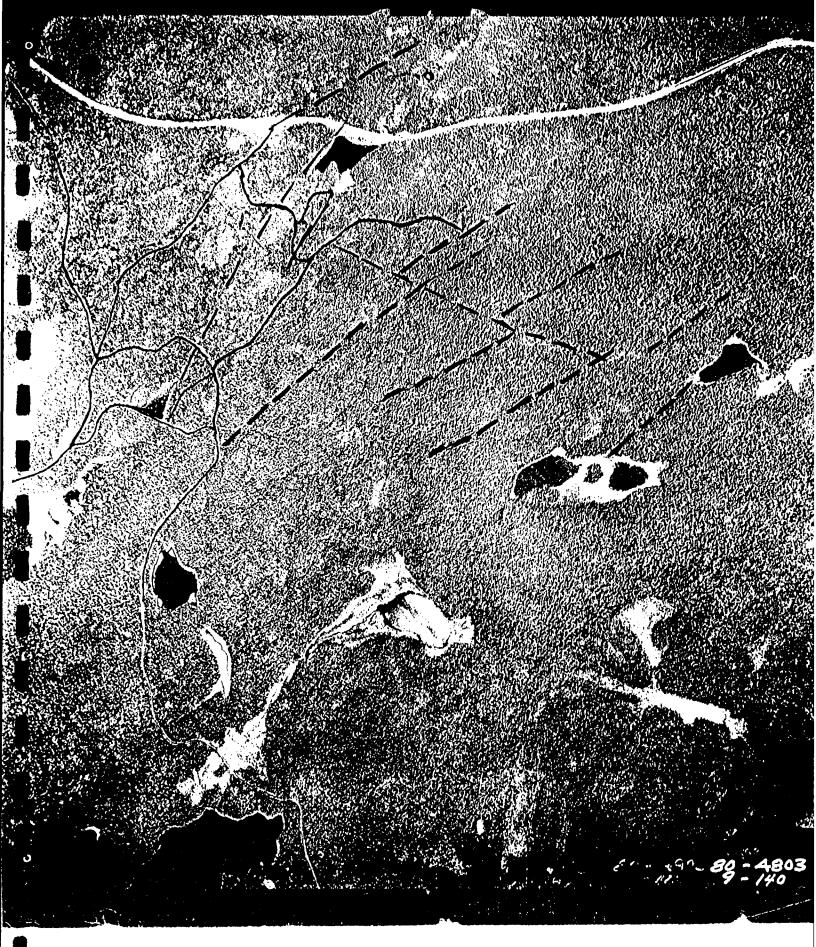


Figure 4 - Lineaments observed on aerial photographs

veins varying in thickness from 5' to 22'. An extent of these veins was also located to the southwest and the northeast forming a topographic dome oriented N 50° E. The length of this hill is about 2400'. This appeared to be the most promising area for further investigation because of its length and continuity (See Fig. 6, area A). A magnetic high accompanies this series of outcrops (Fig. 7).

The second most promising areas are indicated by C, D and F on fig. 5. The quartz was followed on a considerable distance, especially at D, but both areas deserve a thorough examination.

From the position of C and D, in regards to the high mesa of lava in between, and also due to the presence of highly sheared lava at the western base of that hill, one would be incline to think that this high hill is an overthrust klippe.

An area identified as B on fig. 6 should not be neglected because the quartz, seen under the moss, is wide and the local topography rises appreciably to the south. Area E, on fig. 5, seems to be the least interesting because the quartz is impure and the veins seem narrow.

Other quartz veins are indicated on the accompanying geological map but they are known since they have been cleaned open by bulldozer mainly along Barite road. Southwest-Northeast extension of these veins are quite probable in a pinch and swell fashion but they were not encountered in the bush for lack of outcrop.

6.2 - Other areas of possible economic interest

<u>Talc</u> was found in many places in the altered lavas but no major deposit was encountered because this rock is too weak to have withstood glacial and fluvial erosion.

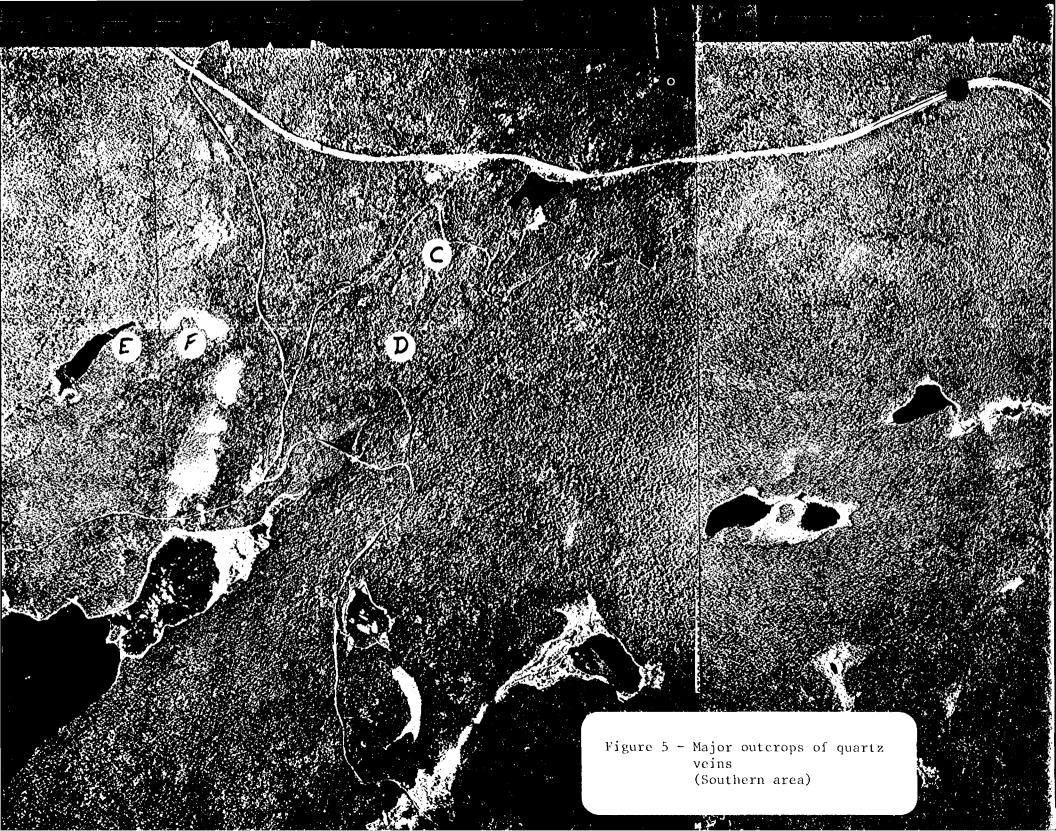
The <u>ultrabasic lavas</u> to the west are often marked by a fine grating called spinifex ("Pine Needle Rock" as designated by Canadian Johns-Manville Co. geologists, and called "Chicken Track Rock in Milne's Geological Report 97, Ont. Div. of Mines). These rocks were probably peridotites at the origin. There is at the present, much interest in the Noranda area for that rock type since it often contains gold, nickel, etc.

On figure 7 there is an excerpt of the aeromagnetic map showing a strong anomaly for that particular area encompassing an iron formation as found in one outcrop to the SW of Old Horwood station.

Thin mineralized (pyrite) quartz veins were found with the granodiorite batholith along some of the shear zones indicated on fig. 4. These shear zones form north-facing cliffs so that only the edge of the shear zones can now be seen; the actual shear zones are covered by overburden.

7.0 - Conclusions

After a quick geological survey of the 66 claims, accomplished by



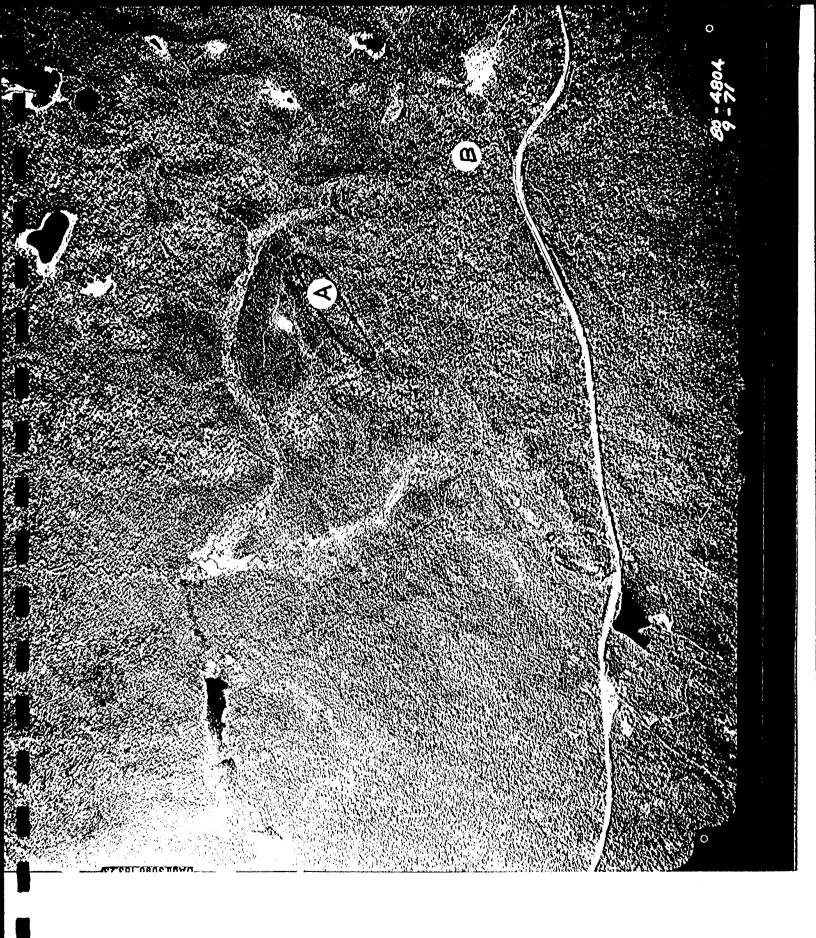


Figure 6 - Major outcrops of quartz veins (northern area)

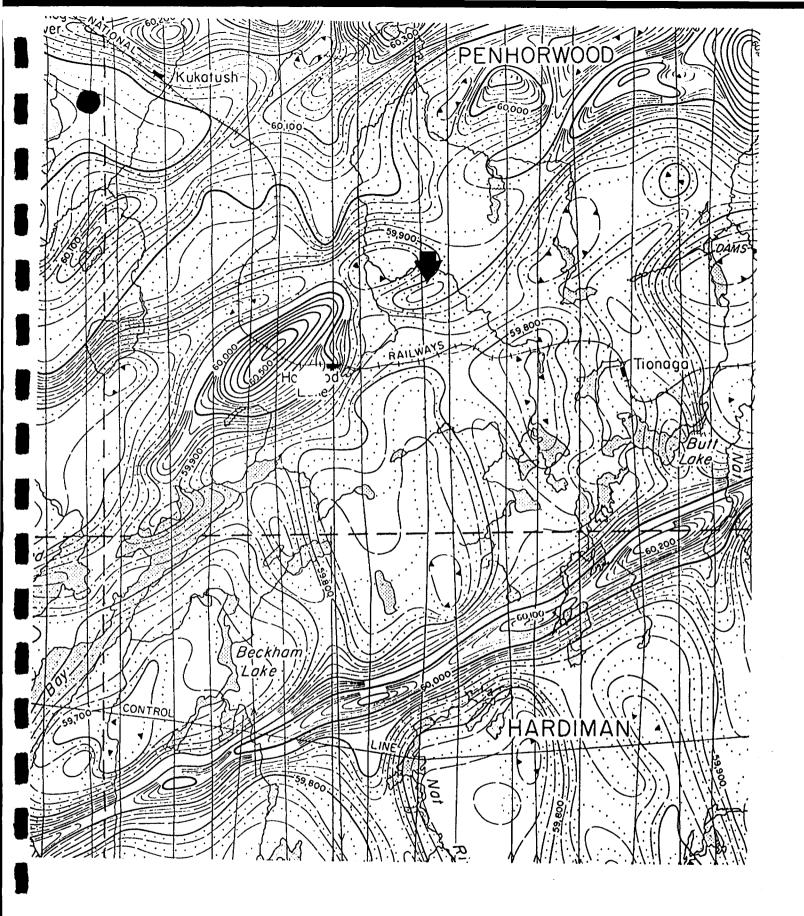


Figure 7 - Excerpt from the aeromagnetic map showing an anomaly where the strongly magnetic iron formation was found southwest of Old Horwood Station.

(Scale 1:63360)

two parties of two geologists, within a period of 14 work-days, a general view of the geological background of the area has been presented on a map at a scale of 1:2400. The main purpose of this survey was to locate the extent of known pure quartz veins and to find new ones. This has only been achieved in part due to the fact that a) outcrops are very scarce, b) quartz, despite its toughness and hardness, seldom constitute the crests of the hills as one might have expected, c) most often quartz had to be searched under vegetation in hilly areas and d) quartz only occurs in 6 or 7 of the 66 claims mapped.

Four interesting areas have been located as shown on fig. 5 and 6, these are identified a "A", "C", "D" and "F". In these sites quartz veins were cut by two or three traverses indicating a good continuity. Site "B" and "F" deserves further study. Site "E", which was already known, offers very little interest.

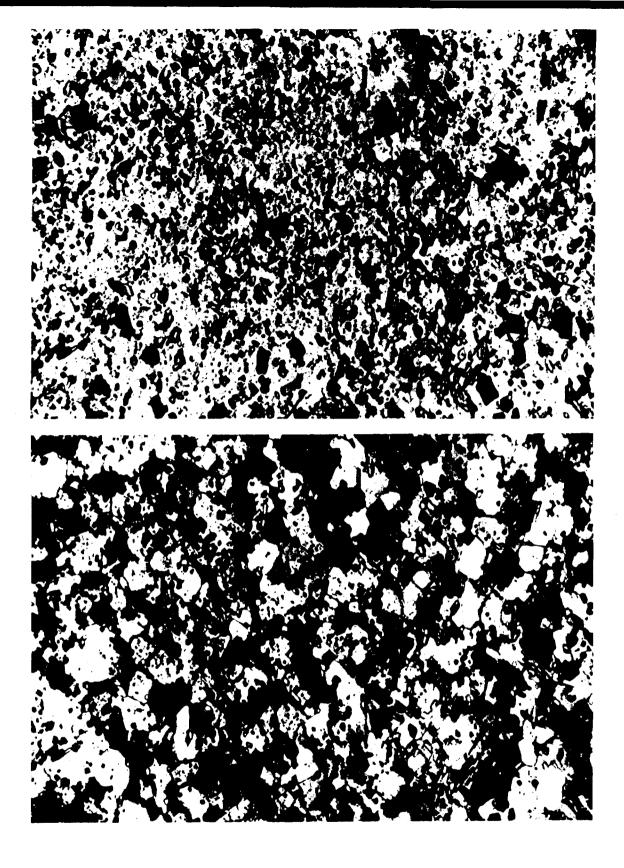
Ultramafic lavas which had previously been studied in the search for asbestos are komatiites. There was a renewed interest for these rocks in the search for nickel and associated metals and also gold. In our brief study no important mineralized zone was encountered.

Mineralized quartz was found accompanying the lineaments that cross the granodiorite batholith to the SE.

8.0 - Recommandation

- 1 Further trenching or uncapping is recommended in the most promising and accessible areas, primarily in areas "A", "B", "C" and "F".
- 2 Prior to uncapping a geologist (or a trained person) could possibly delineate the best zones along a close grid, something like 20' x 20'. This could be achieved with the use of a steel rod (10 to 12 mm in diameter, 1 m long and sharpened at one end) by probing through the moss or thin glacial deposits since the "sound and feeling" of quartz is different from that of the host rocks.
- 3 Geophysical methods are not strongly recommended but one should keep in mind that huge quartz veins
 - a) are non-radioactive whereas surrounding rocks have a radioactive background, especially the potassium bearing rocks:
 - b) are non-magnetic compared to background;
 - c) have a high velocity (for seismic surveys);
 - d) have a high resistivity.
- 4 Geophysics and geochemistry should be contemplated if further exploration is to be done in the ultrabasic lavas to the west where the aeromagnetic map shows an anomaly. This area has very probably been scrutinized by Asbestos Companies.
- 5 The claims in the quartz porphyry and in the granodiorite seem to offer no (or very little) interest at first sight.

Gérard



Photomicrographs in thin section of the siliceous iron formation found WSW of Old Horwood Station. Note the abundance of quartz and magnetite with some ferromagnesians. Plane and polarized light. 75X.

Apppendix 1

How to trace back the quartz veins found in our traverses? (Excerpts from field notes)

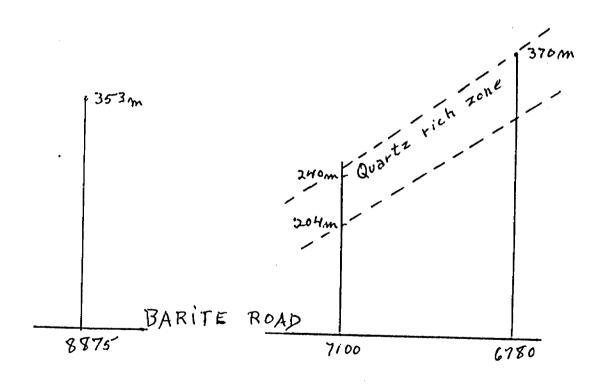
Site A

From footage 7100 on Barite road, going due north for 204 meters, quartz can be seen on a 2 meter high cliff, 30' in a E-W direction. To the east of the quartz there is lava with few thin (5') quartz veins. The dome-shaped hill is oriented 40° and blocks of quartz can be observed.

More quartz was found up at a distance of 240 meter as measured with a topofil from Barite road.

On the return leg, going south, more quartz was found at a distance of 370 meters north of footage 6780 on Barite road.

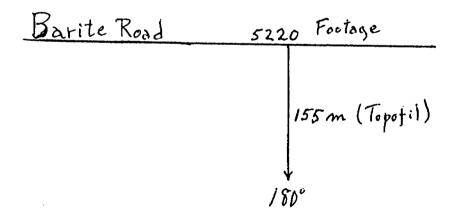
On an other return with an exit at 8875' on Barite road, quartz was found at 353 meters as read on the topofil.



JEAN BÉRARD, Ph.D., Géologue,

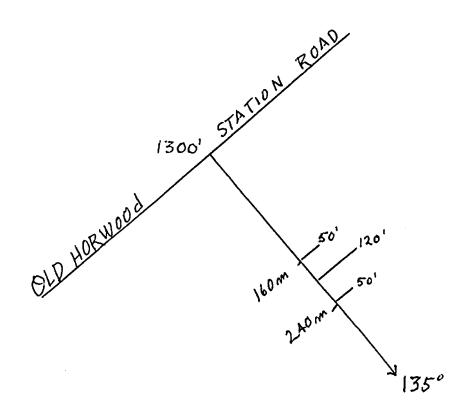
Site B

On Barite Road, going due south from footage 5220 (the Barite road was chained, in feet, from crossroad Penhorwood-Extender Barite) to 155 $_{\hbox{\scriptsize meter}}$ measured with a topofil. Outcrop at 35' to the west of traverse line. Size 10' x 10', under the moss, at the start of a small hill to the south, the outcrop is not visible without removing the moss.



Site C

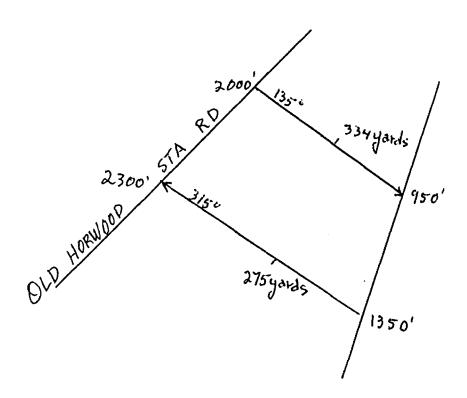
From footage 1300 on Old Horwood Station Road, going 135°, quartz was found at 50' NE of traverse line at a distance of 160 meters on the topofil. More quartz was found 120' NE of line at 190 m and 50' NE at 240 m.



Site D

From 1350 footage on Bear Tracks road, going 315°, quartz was found at 275 <u>yards</u>, 75' to the north of traverse line. Outcrop 70' in length, oriented about 30°, 20' in width, 30' high. This outcrop is midway between Bear Tracks road and Old Horwood Station road.

On the return leg, starting at 2000, footage on the Old Horwood Station road, quartz was found at 334 yards.



Certificate

- 1, Jean Bérard, certify as follows:
- 1. I am a geologist carrying my practice from Montreal, Quebec, and I reside at 119 Woodlawn, Dollard-des-Ormeaux, Province of Quebec.
- 2. I am a graduate of the University of Montreal (B.Sc., 1955); Yale University (M.Sc., 1957) and Laval University (Ph.D., 1959).
- 3. I have no direct or indirect interest in the company Roseval Mining Inc. or Roseval Silica Inc. or Horwood Quartz Veins property.
- 4. The present report is based on personal examination and on personal management of this exploration program.

Dated, at Montreal, Quebec, this 17th day of June 1988.

Jean Bérard, Ph.D., Geologist



Ministry of Northern Development and Mines

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

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Certification Verifying Repo	V	<u> </u>	J L	1 100	z run	-, -, -, -,		

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



Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

PgZof2

Instructions: - Please type or print.

If number of mining claims traversed

in the "Expend. Days Cr." columns.

Mining Act

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Do not use shaded areas below. Township or Area Type of Survey(s) GEOLOGICAL PENHORWOOD Prospector's Licence No. Claim Holder(s) ROSEUAL SILICA INC T-4950 Address De Brullon, Boucherville Quebec Date of Survey (from & to) 6 88 Total M
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Day | Mo. | Yr. | Day | Mo. | Yr. | 105 Survey Company JEAN BERARD PhD. Geo (... DOWARD des ORMEAUX, QUESEC HAAIZA JEAN BERARD 119 WOODLAWN Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence) Special Provisions Mining Claim Mining Claim Expend. Days Cr. Days per Claim Expend. Days Cr. Geophysical Number Prefix Profix Number For first survey: 56 Electromagnetic 1029503 Enter 40 days. (This includes line cutting) Magnetometer Radiometric For each additional survey: using the same grid: - Other Enter 20 days (for each) Geological 40 56 Geochemical 994260 56 Man Days Days per Claim 56 Geophysical Complete reverse side 56 Electromagnetic and enter total(s) here 56 Magnetometer 9843 Radiometric 984379 - Other Geological 16 Geochemical Days per Claim Airborne Credits Note: Special provisions Electromagnetic credits do not apply Magnetometer to Airborne Surveys. Radiometric Expenditures (excludes power stripping) Type of Work Performed Performed on Claim(s) Calculation of Expenditure Days Credits Total Total Expenditures **Days Credits** \$ 15 Total number of mining claims covered by this report of work. 56 Total Days Credits may be apportioned at the claim holder's For Office Use Only choice. Enter number of days credits per claim selected Total Days Cr. Date Recorded Mining Recorder in columns at right. Date JUNE 9 /89 Date Approved as Recorded Branch Director

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

Name and Postal Address of Person Certifying

Certification Verifying Report of Work

W	Ministry of Northern Development and Mines	
Ontario	ř.	

Certification Verifying Report of Work

Name and Postal Address of Person Crystying

or witnessed same during and/or after its completion and the annexed report is true.

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

W 8906-325

Mining Act

ictions: -

Please type or print. Aug 2.
If number of mining claims traversed 2. exceeds space on this form, attach a list. Note: -

Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.

- Do not use shaded areas below.

Type of Survey(s) GEOLOGI	ICAL	2	1 2	26	58	PEN	or Area HORWO	OOD	
Claim Holder(s)	ociete de	Cesti	0h	Mas	koors I	hc.		's Licence No.	THE SECRET SECRET SECRET SEC. (1971)
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150 De	Brullon	Bouch	ervi	lle	Quebec	18/8		Total Miles of line	
Survey Company JEAN B	erard PhD.	Genl			16 5 E	(160m & 10)	6 88	101al Miles of line	AVERSED
Name and Address of Author (o	f Geo-Technical report)					_	MO. 1 11. 1	¥ 4535 9	LUCLET
	RD 119 WO			DOC	UAND des	ORM	ERUX,	Quebec, H'	9A124
Credits Requested per Each C Special Provisions	T	ight Days per	Mini		ms Traversed (L	ist in nume		nce) ining Claim	Expend.
For first survey:	Geophysical	Claim	Pre	fix	Number	Days Cr.	Prefix	Number	Days Cr.
Enter 40 days. (This	- Electromagnetic	·	*	<u>P</u>	986588	56	JAIM C	anceued	
includes line cutting)	- Magnetometer				995809	56			_
For each additional survey:	- Radiometric				986585	56	100 c		
using the same grid: Enter 20 days (for each)	- Other				986586		33.7	are gaining shador deletation appearance about the same same same	
2710, 20 00,0 110, 000,0	Geological	40			986587	56	***	******	
	Geochemical			_	986584	56.			
Man Days	Geophysical	Days per Claim			086583	56.			
Complete reverse side	- Electromagnetic	Ciarrii		- (1)	995808	e (. 12	40:-	ALCOHOL:	= 80
and enter total(s) here	- Magnetometer				496810	56		21,1-2-00	
	- Radiometric				995807	<u> </u>	To the second	Artholdes	S
	- Other				901549	56			
	Geological			-	986589	96			
	Geochemical	10		-					-
Airborne Credits	Geochemes	Days per	190				10 A 10 A		
		Claim		<u> </u>			DE	CODDE	
Note: Special provisions credits do not apply	Electromagnetic		1.7					CORDE	: U
to Airborne Surveys.	Magnetometer					.,,,			<u> </u>
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xpenditures (excludes powe				KIG	Rimin A IC			,	
Type of Work Performed EC	CEIVED				to 1000		i		
Performed on Claim(s)	1 0 1989			ال	JN 18 1989		6. C (2.7)	***************************************	
JUL	10 1303		6	70 a	2 a.m.	67			
	ANDS SECTION								
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Total Expenditures		s Credits		4					义
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Instructions Total Days Credits may be an	portioned at the claim h	older's	40		. S ECT. 77		report of v و	work.	~ ' '9
choice. Enter number of days in columns at right.				I Days C	or Office Use Or Date Recorded	niy 1	Mining	orga A	
			Reco	orded	JUNE (3	3189		White	
JUNE 9/89 1	corduli Holdin or Ament (S	Signature)	141	DU	Date Approved a	s Recorded	Branch Di	ector	
	19/WV 6/ M9724416	1000	"		1/24/	$\cdots \sim 1$	n an ineil	-	ı

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work



Report of Work

(Geophysical, Geological, Geochemical and Expenditure

DOCUMENT No.Inst uctions: - Please type or print.

Aug 2

Mining Act

-	If number of mining claims traversed exceeds space on this form, attach a list.
Note: -	Only days credits calculated in the
	"Expenditures" section may be entered in the "Expend. Days Cr." columns.
	in the Expents. Days Cr. Coldinas.
_	Do not use shaded areas below.

Type of Survey(s)				Township	οι Διας
C. Inc	OCHCAL	2	1265	PEN	WHOR WOOD
Claim Holder(s)				` <u>``</u>	Prospector's Licence No.
Annual Control of the	ociete de	besti	n Maskours 3	fnc.	T-5171
Address 150 7	e Brullon	Bour	exillo Die	becalk.	{
			Date of Su		6 88 Total Miles of line Cut
Jean	Berard Phi). Gei	16 5 Day 1 Mg	(00 k to)	MO. Yr. FINGGED
Name and Address of Author (o	f Geo-Technical report)	,	1		
L JEAN BERARD					
Credits Requested per Each (Special Provisions	Geophysical	Days per	Mining Claims Traverse	Expend.	Mining Claim Expend.
For first survey:		Claim	Prefix Number	Days Cr.	Prefix Number Days Cr.
Enter 40 days. (This	- Electromagnetic		P 98658	6-50-0	LAIM CANCEUSD
includes line cutting)	- Magnetometer		* 99580	9 50/3	
For each additional survey:	- Radiometric		¥98658	5 50-3	
using the same grid:	- Other		98658		
Enter 20 days (for each)	Geological		Maria C	Y	
			98658	7 50.3	200
Man Days	Geochemical		98658	4 50.3	
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Complete reverse side and enter total(s) here	- Electromagnetic		99581	0 50.3	3
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	- Badiometric	}	7 00/50	0 602	
REC	CORDED		7-10658	2130.3	
	- Other				
	Geological	·			
10	N361c13m1989				
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Note: Special provisions	Electromagnetic				1.55
credits do not apply	Magnetometer				υ [1 0 1989
to Airborne Surveys.	Magnetometer				
	Radiometric		HURCOM STANLING	2000	MINING LANDS SECTION
Type of Work Performed DX	er stripping) CA=TING - REPOR	<u></u>	MECEN	MEM	
PREPIRATION ;	AIR PHOTOS	· /	KICHE	AIGIII	
Performed on Claim(s)	13001000			30	
SEE	ATTACHED		JUN 181	989	
REFORTS OF WORK	- 67 TOTA	L	@10:00 a.n.		
Calculation of Expenditure Days	s Credits	otal	(2) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		
Total Expenditures		Credits	35 Days Oul	Y TO REACH	15
\$ 755.00	÷ 15 = 5	0.3	t Max. Allowed) under a	Total number of mining
Instructions			Section MU9)		claims covered by this report of work.
Total Days Credits may be ap choice. Enter number of days		For Office Us	se Only	7 0 1 8	
in columns at right.			Total Days Cr. Date Recor	ded /	Mining Corfer
Date . Rec	conded Holder of Agent (E	(mature)	ALS NUNE	yed as Recorded	Branch Director
JUNE 9/89	gode Holder of Agent (la 1	So ~	vised wo	rk statement
Cartification Varifying Rano	et of Mark		215 50	71300	

or witnessed same during and/or after its completion and the annexed report is true. Name and Postal Address of Person Certifying

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work



Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

ONTARIG GEOLOGICAL SURVEY ASSESSMENT FILES **OFFICE**

MAR - 9 1990

RECEIVED

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

Telephone: (416) 965-488

Your File: W8906-324,325,326

Our File: 2.12658

March 4, 1990

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

Dear Sir:

Re:

Notice of Intents dated December 18, 1989 (Report of Work W8906.326 Only) & February 2, 1990 for Geological Surveys & Expenditures submitted on Mining Claims P 994625 et al in Penhorwood Township.

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

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

Yours sincerely,

W.R. Cowan

Provincial Manager, Mining Lands

Mines & Minerals Division

LS: pt Enclosure

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

Resident Geologist Timmins, Ontario

Roseval Silica Inc. Boucherville, Quebec

Robert Gerald Komarechka Sudbury, Ontario



Technical Assessment Work Credits

2.12658

Date Mining Recorder's Report of Work No.
W8906-324

Recorded Holder ROSEVAL SILICA INC.	
Township of Area	
PENHORWOOD TOWNSHIP	
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic days	P 994625 to 657 incl.
Magnetometer days	984378 to 380 incl.
Radiometricdays	994114
Induced polarizationdays	994260 - 61
Other days	994486
Section 77 (19) See "Mining Claims Assessed" column	1029492 to 507 incl.
Geologicaldays	
Geochemicaldays	
Man days Airborne	
Special provision 🖺 Ground 🐧	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
pecial credits under section 77 (16) for the following minit	ng claims
	•
credits have been allowed for the following mining claim: not sufficiently covered by the survey interpretation in the survey	sufficient technical data filed
— International control of the rount	
Note: No line cutting credits awa	rded for flagged lines



Technical Assessment Work Credits

Date 2.12658

Mining Recorder's Report of Work No. 225

	February, 2, 1990 W8906-325
Recorded Holder	
ROSEVAL SILICA INC.	
Township or Area DENIJODIJOOD TOUNGUID	
PENHORWOOD TOWNSHIP	The state of the s
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic days	
Magnetometer days	P 986583 to 589 incl.
Radiometricdays	995807 to 810 incl.
Induced polarization days	•
Other days	
Section 77 (19) See "Mining Claims Assessed" column	
Geologicaldays	
_	
Geochemicaldays	7
Man days 🗍 Airborne 📙	· g:
Special provision 🖸 Ground 💭	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
·	
 pecial credits under section 77 (16) for the following m	ining claims
	,
o credits have been allowed for the following mining cla	line
	insufficient technical data filed
	·
NOTE: No linecutting credits away	rded for flagged lines.
•	

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



Technical Assessment **Work Credits**

			2.12058
Date			Mining Recorder's Report of
Nec	12	1989	Mining Recorder's Report of W8906-326
Dec	10,	1303	1 40300-320

LA SOCIETE DE GESTION MASKOURS INC.	
PENHORWOOD TOWNSHIP.	
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromegnetic days	\$60.00 spent on Air Photos taken from Mining Claims:
Magnetometerdays	
Radiometric days	P 986589 995807
Induced polarizationdays	. 995809-810
Otherdays	
Section 77 (19) See "Mining Claims Assessed" column	
Geologicaldays	
Geochemicaldays	
Man days [] Airborne []	
Special provision Ground Ground	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	4 days credit allowed which may be grouped in accordance with Section 76(6) of the Mining Act R.S.O. 1980.
77 (50) (40)	
Special credits under section 77 (16) for the following mining claims	
lo credits have been allowed for the following mining claims	
not sufficiently covered by the survey insufficient technical data filed	
į	
	1
	Ţ

ROSEVAL SILICA INC 150 de BRULLON BOUCHERVILLE, QUEBEC J4B 2J2

Boucherville, November 6th 1989

RECEIVED

HOV 07 1989

MINING LANDS SECTION

Mr W. R. Cowan
Provincial Manager, Mining Lands
Mines and Mineral Division
Ministry of Northern Development and Mines
Mining Lands Section
3rd Floor, 880 Bay Street
Toronto, Ontario
MSS 128

Reference: Your File 2.12658

Geological Survey submitted on Mining Claims P 994634 and al

in Penhorwood Township.

Dear Mr Cowan,

Please find herewith the two copies of plans returned on September 21 1989, to add the claim lines and claim numbers.

I remain, yours very truly back bully

Gaetan Lavallee

Gaétan Lavallée

Roseval Silven Dre

Mr. M.R. Cowan Provinced Transger Minery Sords Section Menerally of Mulder Development + Marie 880 Bay St. 321 Floor Toyotor, Ortono

La Société de Gestion Maskours Inc.

150 DE BRULLON BOUCHERVILLE, QUÉBEC CANADA J4B 2J2

(514) 655-0157

MESSAG

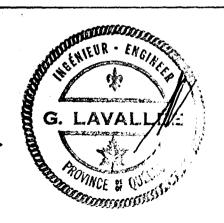
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- 2. One way of the invoices good week the ropy of work inversed which, reproduced on the book of the soul invoice.

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Saster Landle, P. Eng.

President of Poseral Silver In Provided of Streets de Gestier Brokens In President of Groutland Brokens Ive





LA SOCIÉTÉ DE GESTION MASKOURS INC.

150 DE BRULLON BOUCHERVILLE, P.Q. J4B 2J2

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PAYEZÀ L'ORDRE DE Jean Berard \$ 4,000.00 _/100 DOLLARS LA SOCIÉTÉ DE GESTION MASKOURS, INC. 1907 1914 BANQUE DE COMMERCE CANADIENNE IMPÉRIALE BOUCHERVILLE, QUÉBEC

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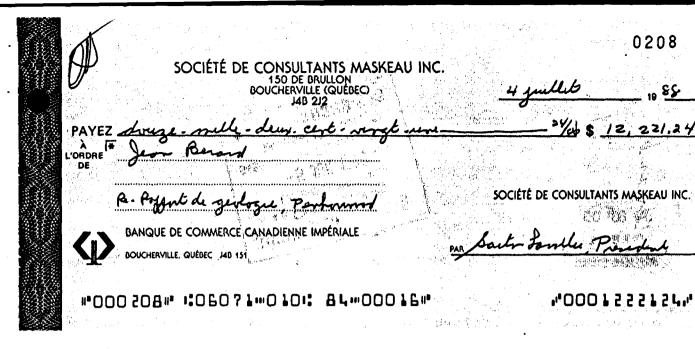
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JEAN BÉRARD, Ph.D., Géologue, 119 Woodlawn, Dollard des Ormeaux, Qc H9A 1Z4 (514) 340-4731

Le 9 juin 1988

Roseval Silica Inc. 150, de Brullon Boucherville (Québec) J4B 2J2 Attention: Monsieur Gaétan Lavallée, ing.

Honoraires professionnels pour cartographie des claims Horwood-Quartz Veins, Penhorwood Township Ontario du 16 mai au 6 juin 1988

Alain Blanchette 6460, du Héron Ste-Rose, Laval (Québec) H7L 3R4

Honoraires

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Total: 3 000,00 \$

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JEAN BÉRARD, Ph.D., Géologue, 119 Woodlawn, Dollard des Ormeaux, Qc H9A 1Z4 (514) 340-4731

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François Côté 10 840, Péloquin Montréal (Québec) H2C 2K8

Honoraires du 16 mai au 9 juin

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SOCIÉTÉ DE CONSULTANTS MASKEAU INC. 150 DE BRULLON BOUCHERVILLE (QUÉBEC) J4B 212 PAYEZ trois mille ung cent mate migt % \$ 3,580.00 ORDRE DE Contynglie dams Humal SOCIÉTÉ DE CONSULTANTS MASKEAU INC. BANQUE DE COMMERCE CANADIENNE IMPÉRIALE BOUCHERVILLE QUÉBEC MB 151

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SET SAINT-PAUL DE LA CROIX

SAINT-PAUL DE LA CROIX

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JAMES OF SAINT-PAUL 1988

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DE MONTRÉAL MINITERAL BUTA CENTE 12

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JEAN BÉRARD, Ph.D., Géologue, 119 Woodlawn, Dollard des Ormeaux, Qc H9A 1Z4 (514) 340-4731

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Honoraires professionnels pour cartographie des claims Horwood-Quartz Veins, Penhorwood Township Ontario du 16 mai au 6 juin 1988

Luc St-Pierre, géologue 3310, Foch Fabreville (Québec) H7P 3C6

> Frais de voiture (2 860 km à 0,25 \$/km) Honoraires

715,00 \$ 3 000,00 \$

Total:

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SOCIÉTÉ DE CONSULTANTS MASKEAU INC 150 DE BRULLON BOUCHERVILLE (QUÉBEC) J4B 2J2

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SOCIÉTÉ DE CONSULTANTS MASKEAU INC.

BANQUE DE COMMERCE CANADIENNE IMPÉRIALE

BOUCHERVILLE, QUÉBEC J4B 151

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CHONSTORY WILL WALLINGTON SOND SOND MENEY AUSE CAROINAL BBSI TINF 8-AISSE POPULAIRE DE 38 YE

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