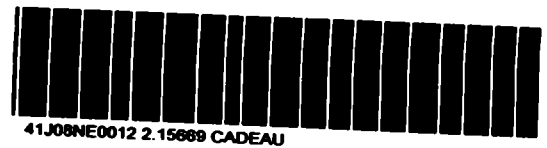
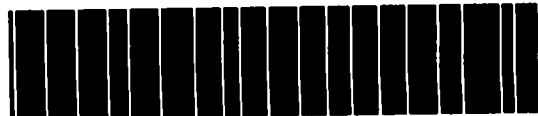


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**Application**                      **2. 156 69**  
**For**  
**Grant 1994**  
**Under**  
**The Ontario Mineral Incentive Program**  
**(O.M.I.P.)**



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**Illustrations**

<b>1. Location map</b>	
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<b>3. D.D.H. sections</b>	<b>(A1 0009 to A1 0014)</b>
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<b>9. D.D.H. logs</b>	<b>(16 pages)</b>

Incentive Office  
Mining and Land Management Branch  
Ministry of Northern Development and Mines  
5<sup>th</sup> Floor, 933 Ramsey Lake Road  
Sudbury, Ontario  
P3E 6B5

Attention: Ed Solonyka

**Re: Application for Grant 1994  
O.M.I.P. #94-082**

Dear Sir:

On behalf of Quartec Mineral Development Inc. I am enclosing the corporation's application for Grant 1994. This grant application is the result of the company's proposed mineral exploration program (submitted on the O.M.I.P. application for designation form, March 22, 1994) having been successfully approved May 11, 1994.

This detailed exploration program would not be possible without financial assistance from the Ontario Government's O.M.I.P. program.

The subject areas (M-12 and M-19) evaluated and discussed in this report were previously investigated for base and precious metals. A very limited Quartz exploration program was also carried out on the M-12 location in 1987 (see section on previous work). The M-12 and M-19 locations are two of the several properties investigated in 1992 and both were selected as targets for detailed work during the 1994 field season. Of these two selected targets M-12 was chosen as the primary area of exploration.

Exploration activities were carried out for the period April 18, 1994 through June 28, 1994.

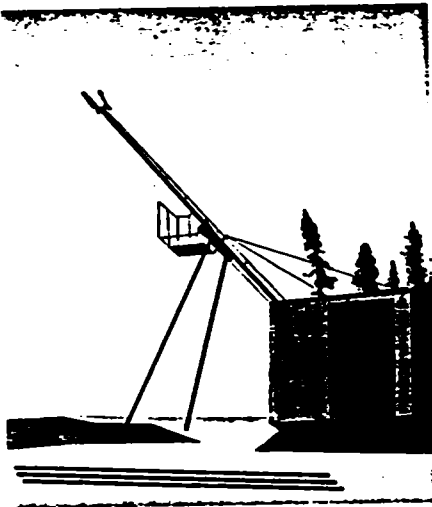
The project was designed to investigate and to assess the economic potential of High Purity Quartz, unfortunately the M-12 exploration study did not meet the expectation of initial preliminary Quartz samples. The final results indicated that although satisfactory in low titanium content there existed high iron and aluminum metals. The M-12 project is now disqualified for the production of silicon metal.

However, the results of M-12 did prove that the product can still be used for smelter flux.

I respectfully submit this application for grant 1994.

Yours truly,

N.A. Cecutti, President



# ONTARIO MINERAL INCENTIVE PROGRAM (OMIP) APPLICATION FOR GRANT 1994

OMIP File No.

94 - 082

### INSTRUCTIONS:

**PLEASE READ THE GUIDEBOOK BEFORE COMPLETING THIS FORM.**

Please type or print and submit completed form and supporting documentation to:

Incentives Office  
Ministry of Northern Development and Mines 5th Floor,  
933 Ramsey Lake Road, Sudbury, ON P3E 6B5

- Grassroots Exploration Project
- Advanced Exploration/Industrial Minerals Predevelopment Project (S. Ontario)

### Applicant's Identification and Location

Name QUARTEC MINERAL DEVELOPMENTS INC.

Address 487 BOUCHARD STREET

City SUDBURY Province ONTARIO Postal Code P3E 2K8

Person to contact NORM CECUTTI Position PRESIDENT Telephone (705) 522-2400

### Source of Funding of Project

(Individuals, Flow-Through or Corporate Funding)

List names and addresses of principals with proportions of funding. Attach list if space is insufficient.

ROYAL BANK OF CANADA - DURHAM STREET, SUDBURY - RENE QUESNELLE	\$60,000
SHAREHOLDER - QUARTEC MINERAL DEVELOPMENTS INC.	7,079
ONTARIO MINERAL INCENTIVE PROGRAM (OMIP)	23,121
	<u>\$90,200</u>

### Associates or Affiliated Companies That Have Also Applied for OMIP Assistance

List names and addresses

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Project Name QUARTEC LOW TiO<sub>2</sub> QUARTZ

Personal information collected on this form is obtained under the authority of the Ontario Mineral Exploration Program Act, RSO 1990, sections 2.3 and 4 and the Ontario Mineral Incentive Program Regulation, sections 4, 5 and 6 inclusive. The financial and technical information will be used for the purpose of determining the eligibility of the applicant to receive financial assistance for a designated project. Other information, such as statistical information about the individual projects will be used to determine the overall effectiveness of the program. It may be disclosed for those purposes and I consent to its disclosure for such a purpose. Questions about this collection should be directed to Supervisor, Incentives Office, Mining and Land Management Branch, Ministry of Northern Development and Mines, 5th Floor, 933 Ramsey Lake Road, Sudbury, ON P3E 6B5, telephone (705) 670-5824, toll free 1-800-265-0834.

**Project Expenditure Detail (Continued) (If space is insufficient, attach a separate sheet)**

**ADVANCED EXPLORATION/INDUSTRIAL MINERALS PREDEVELOPMENT**

Underground Diamond Drilling, Mobilization, \_\_\_\_\_ meters @ \$ \_\_\_\_\_ /meter \$ \_\_\_\_\_  
 Logging Core, Assaying, Map and Report  
 Preparation and Associated Costs

Bulk Sampling, Assaying, Map and Report \_\_\_\_\_ tonnes @ \_\_\_\_\_ /tonne \$ \_\_\_\_\_  
 Preparation and Associated Costs

Shaft Sinking, Drifting, Other Lateral Work, \_\_\_\_\_ meters @ \_\_\_\_\_ /meter \$ \_\_\_\_\_  
 Geological Mapping, Sampling, Assaying, Map  
 and Report Preparation and Associated Costs.

Metallurgical and Ore Compaibility Studies, \$ \_\_\_\_\_  
 Report Preparation and Associated Costs

Industrial Minerals Laboratory Studies, \$ \_\_\_\_\_  
 Report Preparation and Associated Costs

Industrial Minerals Marketing Studies, \$ \_\_\_\_\_  
 Report Preparation and Associated Costs

**Total Eligible Expenses** A=\$ \_\_\_\_\_  
**Overhead = 5% of A** B=\$ \_\_\_\_\_  
**Gross Eligible Expenses (A + B)** C=\$ \_\_\_\_\_  
**Grant (30% of C)** \$ \_\_\_\_\_

**Maximum Grant - \$300,000 per Applicant**

**Supplemental Information**

<b>LABOUR</b>	<b>Local</b>	<b>Outside</b>
Number of persons employed	_____	_____
Number of person days labour	_____	_____
Wages paid	_____	_____



Ministry of Northern Development and Mines

The Ontario Mineral Incentive Program

Ministère du Développement du Nord et des Mines

Programme ontarien d'encouragement à l'exploration minière

# Designated Program Certificate

## Certificat d'enregistrement à titre de programme désigné

Application Number /  
N° d'enregistrement  
OM 94-082

Applicant - Name/Nom du demandeur

Quartec Mineral Developments Inc.

Street Name and Number / Adresse (rue et numéro)

487 Bouchard Street

City, Town/Ville, Localité

Sudbury

Province

Ontario

Postal Code/Code postal

P3E 2K8

The above named applicant's proposed mineral exploration program submitted on an OMIP Application for Designation form, and having met the requirements of the Ontario Mineral Incentive Program, has been approved and herewith certified and duly registered as a Designated Program.

Le présent certificat atteste que le projet de programme d'exploration minière, proposé par le demandeur au moyen d'une formule de demande d'enregistrement en vertu du POEEM, satisfait aux exigences du Programme ontarien d'encouragement à l'exploration minière et est approuvé et dûment enregistré à titre de programme désigné.

Period of designation is from

Year année	Month mois	Day jour	to à	Year année	Month mois	Day jour
94	01	01	AU	94	12	31

L'agrément porte sur la période du

Budgeted Total Expenses

\$77,070

Montant total des dépenses prévues

Eligible Expenses

\$77,070

Dépenses admissibles

Maximum Grant (30% of Eligible Expenses)

\$23,121

Montant maximum de la subvention (30% des dépenses admissibles)

Supervisor, Incentives / Superviseur, Programme d'encouragement

Date

May 11, 1994

Note:

Applicants must notify the Minister within 30 days if the exploration work is discontinued before the proposed work is completed. Any applicant who fails to notify the Minister shall be ineligible to apply for further incentives under the OMIP Act, 1989 for a period of three years from the expiry of the designated project.

Les demandeurs doivent informer le ministre dans un délai de 30 jours de toute suspension des travaux d'exploration survenant avant l'exécution au complet du programme proposé. Tout demandeur qui omet d'informer le ministre en cas de suspension des travaux perd pour une période de trois ans, à compter de l'expiration de la période d'enregistrement du projet, le droit de demander d'autres subventions en vertu de la Loi de 1989 sur le Programme d'exploration minière de l'Ontario.

Remarque:

*E. P. [Signature]*

Original - Applicant/demandeur  
Copy/copie - File/Dossier

0149(01/93)

### Location and Access

M-12 is located in Cadeau township (Sudbury Mining Division) and is covered by mining claim block #1179609 and work permit #E066/94. The property consists of some 120 acres.

M-19, located in Boon township (Sudbury Mining Division), consists of some 320 acres. It is covered by mining claim block #1179415.

The areas are bounded by latitude  $46^{\circ} 20'N$  to  $46^{\circ} 24'N$  and longitude  $82^{\circ} 11'W$  to  $82^{\circ} 14'W$  (see location map)

Access to the areas are via hwy 17 (west) for a distance of 60 miles from Sudbury to the town of Massey, thence along the wide and well travelled gravel secondary highway #553.

From the 12 mile point on #553, the M-12 site is reached by turning west on a narrow gravel road for 1.8km.

From the 17 mile point on #553, the M-19 site is reached by travelling approximately .53km due east through the woods or along a trail at the 18 mile marker .80km east and .40km south.

## Topography

The relief of the area varies. Higher elevations are mainly the result of weather resistant rocks, which are normally exposed as dome shaped bodies. These bodies generally trend east-west. Glacial striae observed showed groves at NE 38 43 . Some of the dome shaped resistant rocks show almost vertical dip and therefore rough topography was observed in these areas. The lower ground is underlain with quartzite and schist, while the higher ground is of diorite hard quartzite and granite.

## General Geological Setting

The area lies north of the Murray fault and is underlain by archean granite, keewatin, greenstone and huronian sediments. The area hosts several mafic intrusions which were emplaced into archean plutonic rocks (algonian granite and parisien lake synite) and mafic to felsic metavolcanics (Jensen 1990).

In places gabbro occurring as dikes, stocks and sills intruding the greenstone.

Gabbro dykes and sills are generally medium to coarse grained and trend east and, south east. Where they intrude the metavolcanic rock the foliation observed is believed to be caused by regional metamorphism.

Field observations indicate that the metamorphosed greenstone is intruded by granite in most instances while in other cases the granite occurs with greenstone. The granite exhibits distinct pink and grey colours. The pink granite contains a large proportion of plagioclase. It is medium grained and highly feldspathic. The grey granite is also medium grained and contains a higher proportion of mafic material, inclusions of granite gneiss (probably by migmatization of quartzite) were observed. Greenstone in the area varies from green to black in colour and is in places interbedded with metasediments. It is shaly, highly silicified and contains disseminated pyrite and chalcopyrite.

Huronian Quartzites, orthoquartzite and slates are shattered in places and invariably contain disseminated pyrite and chalcopyrite mineralisation.



## Previous Work

### M-12 Location:

A number of very old pits and trenches were observed, especially in the east end of the property. As these pits and trenches were filled in it was not possible to determine dimensions.

It would appear that these old openings were made to trace sulfide mineralisation. They were all opened in the vicinity of Quartz/Greenstone (Diorite) contact and in the area of shear zones. Fine disseminated pyrite, chalcopyrite and marcasite grains were found around old pits and trenches.

It is not known who established old pits and trenches prior to September 1969 when Massey prospector Stan Withers established 2 shallow pits at location at extreme east end.

In October 1987 Carmen Ward of Massey, Ontario and G. Lavallee of Montreal, Quebec drilled 26 airtract holes along the strike of the West Quartz body. It is reported that these holes were established to collect dust samples, which were assayed at S.K.W.'s Quebec lab. The intention was to establish reserves of high purity Quartz. The holes, drilling method, and sampling procedures were not well controlled. It is believed that the samples were contaminated.

### M-19 Location

Again, several old pits and trenches were found at this location. These openings were made on gossens zones. None of the old gossens zone had dimension greater than 20ft X 6ft. Minerals found around the openings (oxidised zone) were pyrite, chalcopyrite, pyrrhotite and pentlandite. (massive to disseminated)

Most of the old workings (pits/trenches) were carried out by L.T. Withers of Massey, Ontario (verbal communication with Carmen Ward - 1994)

## Study Method

### M-12 Location

In this location a good trail was established around the quartz body of interest (see Quartz location map). The complete area was then stripped, in order to provide rock exposure. An off-set east-west base line for a length of 1,700ft was established (along strike) and picketed at 100ft intervals.

North-south compass lines were established and flagged. This reference was used to map the geology and structural features.

### M-19 Location

A reference base line was established, (see sample map) for a length of 1,800ft and flagged at 100ft intervals. This base line was established for prospecting and sampling purposes as no detail geological mapping was carried out at this location.

## Project Geology

### M-12 Location

A body of Quartz interrupted by greenstone (greenschist, diorite) with a strike length of 2,000ft, and width varying from 60ft to 120ft was mapped. The quartz occurs as a sill like body between granite, granite gneiss and gabbro to the south and greenstone and pink granite bodies to the north. In the west zone the white quartz appears as a massive body intermixed in sections with pods and stringers of diorite, the same condition exists on the easterly zone.

The central zone from O + 50 east to 4 + 30 east the quartz body is fractured and is intersected by altered greenstone dykes and sometimes vertical slabs. In other areas the quartz is broken up by a series of narrow parallel and subparallel bands of greenschist intrusions.

This quartz body striking in an east west direction with a steep dip ( $80^{\circ}$  -  $85^{\circ}$ ) exhibits a white to rusty-whitish colour and is medium grained in the fractured sections and clean white to pinkish colour, it is coarse grained in the massive sections. In the vicinity of O + 12 ft to 35 ft the quartz vein appears sheeted, and is interlayered with altered chlorite bands. There are several narrow shear zones in this vicinity and they are in most cases parallel to foliation. Mapping revealed that in places where dykes cut the quartz, the result is fracturing and schistosity. Furthermore throughout the entire body most of the quartz occurs as a thin layer capping the greenstone.

## Structural Geology - 12 Mile Site

The quartz is in a discontinuous ridge striking approximately  $120^{\circ}$ . The north side slopes steeply into the overburden at slopes greater than 45. The south side has low exposed faces disappearing into the overburden. The overburden to the south slopes southward and has the occasional granite outcrop.

Zones of dark chloritic schist cut through the quartz at strikes varying from  $90^{\circ}$  to  $110^{\circ}$  magnetic azimuth. The schist zones vary in width up to one meter and dip almost vertical. They form shallow eroded trenches in places, especially where intersected by fractures. Vertical fractures at strikes of  $50^{\circ}$  and  $160^{\circ}$  cut the quartz.

The quartz varies in colour from white to pink to green to dark grey. Chloritic inclusions occur between the schist zones.

### Summary of diamond drilling

At the Mile 12 site eight diamond drill holes were drilled between May 27<sup>th</sup>, and June 28<sup>th</sup>, 1994. The total length of the drilling was 423.8ft which includes 38ft of casing. The size of all holes was BQ. The location of the holes is shown on drawing D4-0002.

The following table shows the individual details of the holes.

Hole	Dip	Azimuth	Length	Casing	Start	Finished	Collar Location
M1	-45	205	86.5'	5'	27 May	3 June	17.85mN -30 mE
M2	-70	205	43.0'	4'	4 June	7 June	18.15mN -30 mE
M3	-45	205	32.0'	4'	10 June	13 June	13.4 mN -48 mE
M4	-90	-	42.0'	5'	14 June	15 June	14.2 mN -48 mE
M5	-45	205	80.5'	5'	16 June	21 June	-2.0 mN 37.8mE
M6	-90	-	19.6'	5'	21 June	22 June	-7.8 mN 37.8mE
M7	-45	25	65.2'	5'	23 June	27 June	-5.8 mN 60.6mE
M8	-45	205	55.0'	5'	27 June	28 June	-4.7 mN 43.5mE

Here Azimuth is measured from magnetic north. The collar locations were measured along a baseline originating at NAD coordinates 17 - 406007mE 5131351mN in a direction 115 from magnetic north.

### Summary of Plugger, Jackleg and Blasting

At the Mile 12 site 420 plugger holes were drilled and blasted to establish 14 pits. The holes were drilled on 3ft centre for an average depth of 8ft. The total pit area drilled and blasted was 102 sq metres. The blasting produced broken rock volume of 115 cubic meters. It should be noted that 113 drill holes established were not blasted. The location of the area of holes blasted is shown on drawing D4-0002.

### Sampling

A total of 16 samples were taken from the D.D. Holes and sent to Falconbridge and S.K.W. labs for analysis.

Sample numbers, intersections and results are listed on core log sheets.

## **Stripping, Clearing and Trail Construction on M-12 Property**

A program to clear brush and strip overburden from the quartz body on M-12 was initiated on May 3, 1994 the purpose of which was to expose the outcrop and to allow detailed geological mapping. The method of operation consisted of a three man crew cutting and clearing with chain saws. This was followed up by stripping with a backhoe (where possible) and manual stripping of thin overburden with hoes. A total area of 16 Ha of brush was cleared for the purpose of removing overburden, and the mobilization of equipment throughout the site. Also a total area of 50217m<sup>2</sup> of overburden was removed to expose the outcrop. A result of this project was 622m of trail to allow the movement of the backhoe, diamond drill and blasting equipment along the work site. The work above entailed 79 days of work.

The associated greenstone (greenschist/diorite) is medium to fine grained and varies in colour from fresh green to a very dark green. It appears that the siliceous solution given off when the diorite magma cooled found lines of weakness along bedding planes of the argillaceous greenstone and deposited the disseminated pyrite and chalcopyrite found. In places the greenstone is eroded to rubble but the quartz in all cases obviously invaded the greenstone, resisted erosion, and stand out as knobs.

### **M-19 Location**

This area was not mapped. While sampling the quartz body, rock types observed were felsic metamorphosed rocks, feldspathic granite, gabbro and anorthosite.

## Observations and Conclusions

The program was carried out from April 18, 1994 to June 28, 1994.

Geological services were provided by John Clark P.Eng. of Massey, Ontario who was assisted by Ed Rose P. Geol. of Trefstone Corp. and several trainee field assistants.

M-12 quartz body strikes east-west for 2,000ft with an average width of 90ft.

The geological survey and drilling revealed that for the most part the excellent quartz observed on surface has thickness of no more than 6ft and is in fact a cap over greenstone. (detail mapping, trenching and possibly diamond drilling need to be carried out on the M-19 site).

Although the  $TiO_2$  samples values (see drill log) are low and within the limits required by the silicon metal customer, the high  $Al_2O_3$  and  $Fe_2O_3$  content disqualify the quartz for the production of silicon metal.

The exposed area of quartz on the three ridges at the 12 mile site is 9173 sq meters, a quarrying depth of 12 meters gives a total rock volume of 110,076 cu metres or 286,716 tonnes.

From the diamond drill holes it is estimated 45% of this is quartz taking out the zones of schist giving a total reserve of quartz of 129,000 tonnes.

The quartz material is suitable for smelter flux, concrete products and landscape material.

By June 28, 1994 it appeared that the product was not suitable for the primary market of high silica quartz. At that time exploration ceased. No diamond drilling was done on the East end of the property. If diamond drilling did occur on the East end and if holes drilled were deeper than the probability of increased reserves for a secondary market would be greater than 129,000 tonnes.

## Project Expenditure Details

### Prospecting, Map and Report Preparation

i)	<u>Wages</u>	Chris Huchenski - 28 days	
		Steve Huchenski - 5 days	
		Markus Zoepel - 3 days	
		Norm Rinta - 5 days	
		Total wages	\$ 5,260.52
ii)	<u>Supervision</u>	Ed Rose	1,000.00
iii)	<u>Room and Board</u>	East Bull Lake Lodge, meals	1,085.57
iv)	<u>Equipment</u>	Nova Rental (Rental of Bush Quad)	<u>4,515.00</u>
			<u>\$11,861.09</u>

### Line Cutting, Chaining Picketing Grid Layout

i)	<u>Wages</u>	Chris Huchenski - 6 days	\$ 603.69
ii)	<u>Supervision</u>	John Clark	<u>1,000.00</u>
			<u>\$ 1,603.69</u>

### Layout Survey

<u>Sub Contract</u>	Wiseman Mining Consultants Ltd. Prepare site plans and collect field data	<u>\$10,000.00</u>
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### Geological Surveys, Maps

	Ed Rose	\$ 1,000.00
	John Clark	<u>4,000.00</u>
		<u>\$ 5,000.00</u>

### Surface Samples

	John Clark	<u>\$ 2,000.00</u>
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**Stripping, Trenching**  
**Pits, Map and Reports**

i) <b><u>Wages</u></b>	Larry Palmer	- 18 days	
	Chris Huchenski	- 8 days	
	Steve Huchenski	- 10 days	
	Duane Gamble	- 15 days	
	Norm Rinta	- 21 days	
	Markus Zoepel	- 3 days	
		<b>Total wages</b>	
ii) <b><u>Supervision</u></b>	John Clark		<b>1,000.00</b>
iii) <b><u>Equipment</u></b>	Backhoe	Nova Contracting	<b>10,147.50</b>
	Chain Saws, etc.	Nova Rentals	<b>988.90</b>
		Mai Ward	<b>4,320.76</b>
iv) <b><u>Miscellaneous</u></b>	Miscellaneous		<b>3,301.61</b>
	R. Mailleau		<b><u>480.00</u></b>
			<b><u>\$26,098.44</u></b>



**Surface Drilling**  
**Mobilization, Logging Core**

i)	<b><u>Wages</u></b>	Guy Viel - 32 days Larry Palmer - 18 days Chris Huchenski - 7 days Steve Huchenski - 19 days Duane Gamble - 18 days Norm Rinta - 6 days  Total Wages	          <b>\$9,171.03</b>
ii)	<b><u>Supervision</u></b>	John Clark	1,000.00
iii)	<b><u>Room and Board</u></b>	East Bull Lake Lodge, meals	1,085.58
iv)	<b><u>Equipment</u></b>	Hydracore 28 Diamond Drill Gardner Denver Plugger Compressor  McDowell Equipment Rental Hydracore Miscellaneous Jim's Blasting	          9,210.34 1,331.30 3,329.04 3,207.68
v)	<b><u>Job Site</u></b>	Travel costs, supplies etc.	<u>3,301.61</u> ✓
			<b><u>\$31,636.58</u></b>

**Assaying, Map and Reports**

Ed Rose	\$1,000.00
John Clark	<u>1,000.00</u>
<b><u>\$ 2,000.00</u></b>	
Total Project Expenditures	<b><u>\$90,199.80</u></b>

W 00216

John Clark P.Eng. Geologist

Telephone (705) 865-2818

105 First Street  
Massey  
Ontario  
POP 1P0

**2.15669**

27 July 1994

To:  
Mr. Norm Cecutti, C.A.  
President  
Quartec Mineral Developments Inc.  
2008 Lasalle Blvd.  
Sudbury

Here is a list of drawings I have supplied for the site work done in Cadeau and Boon Townships North of Massey.

Drawing #	Title	Scale
A1-0009	12 MILE SITE DIAMOND DRILL HOLES	1:1000
A1-0010	12 MILE SITE DRILL HOLES M1, M2	1:100
A1-0011	12 MILE SITE DRILL HOLES M3, M4	1:100
A1-0012	12 MILE SITE DRILL HOLES M5, M6	1:100
A1-0013	12 MILE SITE DRILL HOLE M7	1:100
A1-0014	12 MILE SITE DRILL HOLE M8	1:100
D4-0001	12 MILE SITE LOCATION OF QUARTZ EXPOSURE	1:5000
D4-0002A	12 MILE SITE SITE WORK COMPLETED	1:1000
D4-0003	12 MILE SITE GEOLOGY WEST SITE AREA	1:500
D4-0004	12 MILE SITE GEOLOGY EAST SITE AREA	1:500
D4-0005	19 MILE SITE WORK AND SAMPLE LOCATION	1:5000

The size of A1 drawings being 8.5" x 11.0", and D4 being 22" x 34"

A1-0009 is a plan showing the location and direction of all the diamond drill holes drilled on the 12 Mile Site.

A1-0010 to A1-0014 are sections through the diamond drill holes showing the dip and some interpretation to the surface.

D4-0001 is a map showing the location of the 12 Mile Site quartz and claim relative to Highway 553 North of Massey.

D4-0002A shows the work completed at the 12 Mile Site. This includes bush cutting, overburden stripping, trail making, line marking, pit and face drilling and blasting, plugger/jackleg holes drilled that were not blasted and diamond drilling.

D4-0003 shows the surface geology of the Western half of the 12 Mile Site quartz exposure.

D4-0004 shows the surface geology of the Eastern half of the 12 Mile Site quartz exposure.

D4-0005 is a map of the 19 Mile Site in Boon Township showing the location of chip samples taken from the surface and the base line marked.

Yours truly,

*John Clark*

DECLARATION

I, John Clark, of the town of Massey, Ontario, Canada, hereby state:

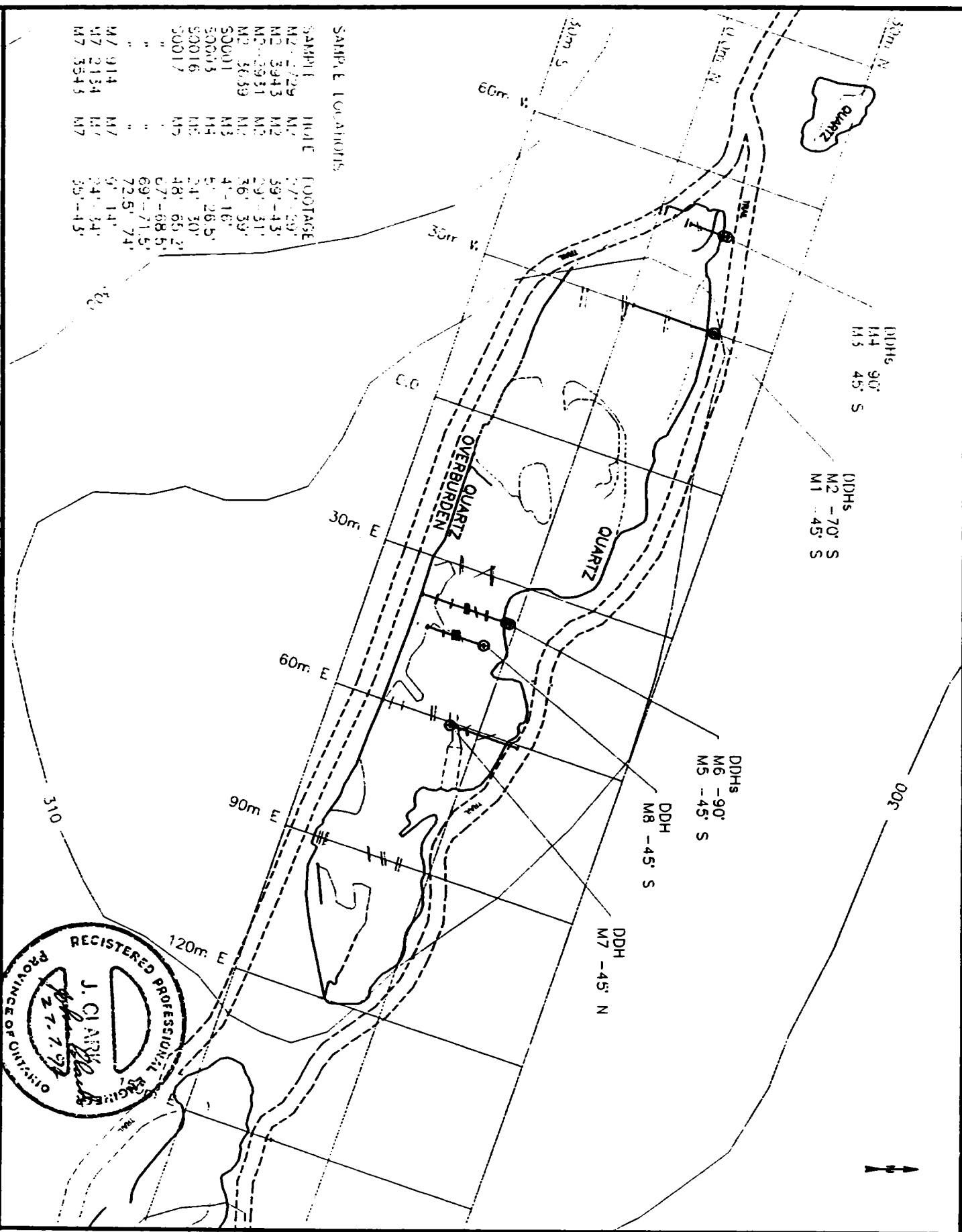
1. that I am a Professional Engineer registered in the Province of Ontario as a Geologist and that my licence to practice is not now, and never has been, in a state of suspension or revocation,
2. that I have practised my profession as a Geologist continuously since 1971 and as a Professional Engineer since 1974,
3. that I have received the degree of Bachelor of Science in Geology from Queen's University in Canada,
4. that I do not now have, and do not anticipate receiving, any direct or indirect financial interest in the property referred to in this report.

Respectfully submitted,

*John Clark*

27. 7. 94

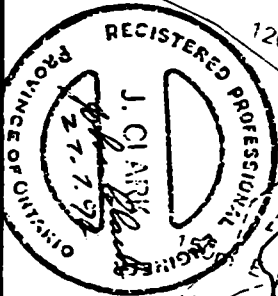
John Clark

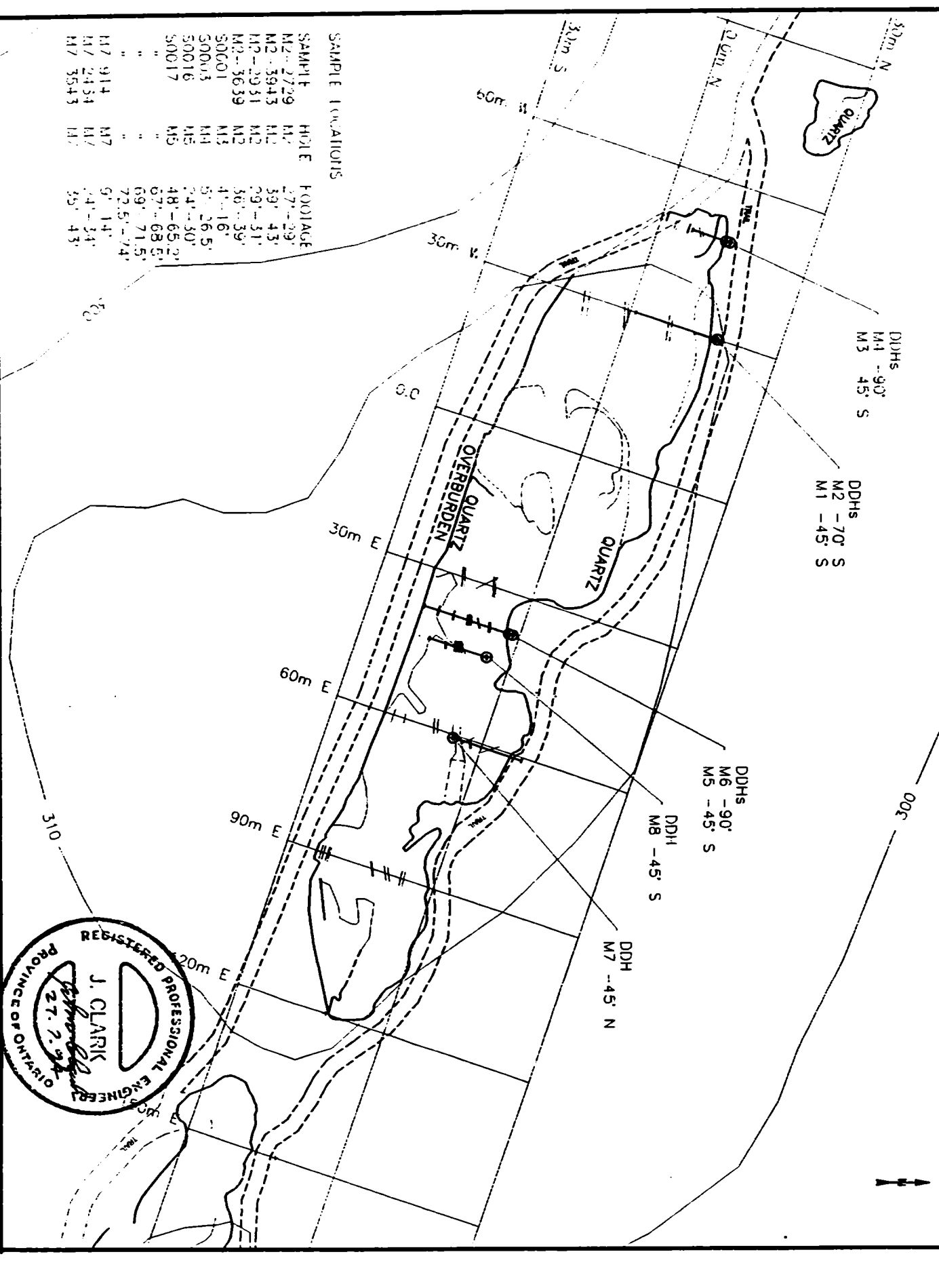


SAMPLE LOCATIONS

SAMPLE	HOLE	FOOTAGE
M1	M1	27'-29'
M2	M2	39'-43'
M3	M3	29'-31'
M4	M4	36'-39'
M5	M5	4'-16'
M6	M6	5'-26.5'
M7	M7	24'-30'
M8	M8	18'-65.2'
M9	M9	67'-68.5'
M10	M10	69'-71.5'
M11	M11	72.5'-74'
M12	M12	5'-14'
M13	M13	24'-34'
M14	M14	35'-43'

QUARTEC MINERAL DEVELOPMENTS INC.		DRAWN BY	J. CLARK	DATE	30.6.94	SCALE	1:1000	SHEET	12 MILE SITE
									DIAMOND DRILL HOLES
		FILE	A1	DWG NUMBER	0009	REV			





SAMPLE LOCATIONS

SAMPLE	HOLE	FOOTAGE
M2-2729	M2	27'-29'
M2-3943	M2	39'-43'
M2-2931	M2	29'-31'
M2-3639	M2	36'-39'
50001	M3	4'-16'
50003	M4	5'-26.5'
50016	M5	24'-30'
50017	M5	48'-65.2'
"	"	67'-68.5'
"	"	69'-71.5'
"	"	72.5'-74'
M7 914	M7	9'-14'
M7 2434	M7	24'-34'
M7 3543	M7	35'-43'

QUARTEC MINERAL DEVELOPMENTS INC.

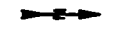
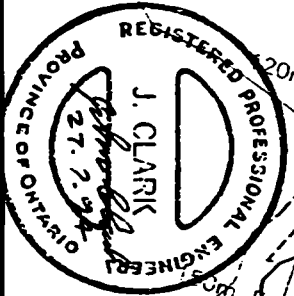
DRAWN BY J. CLARK

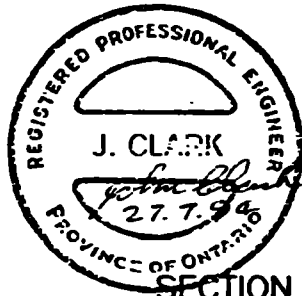
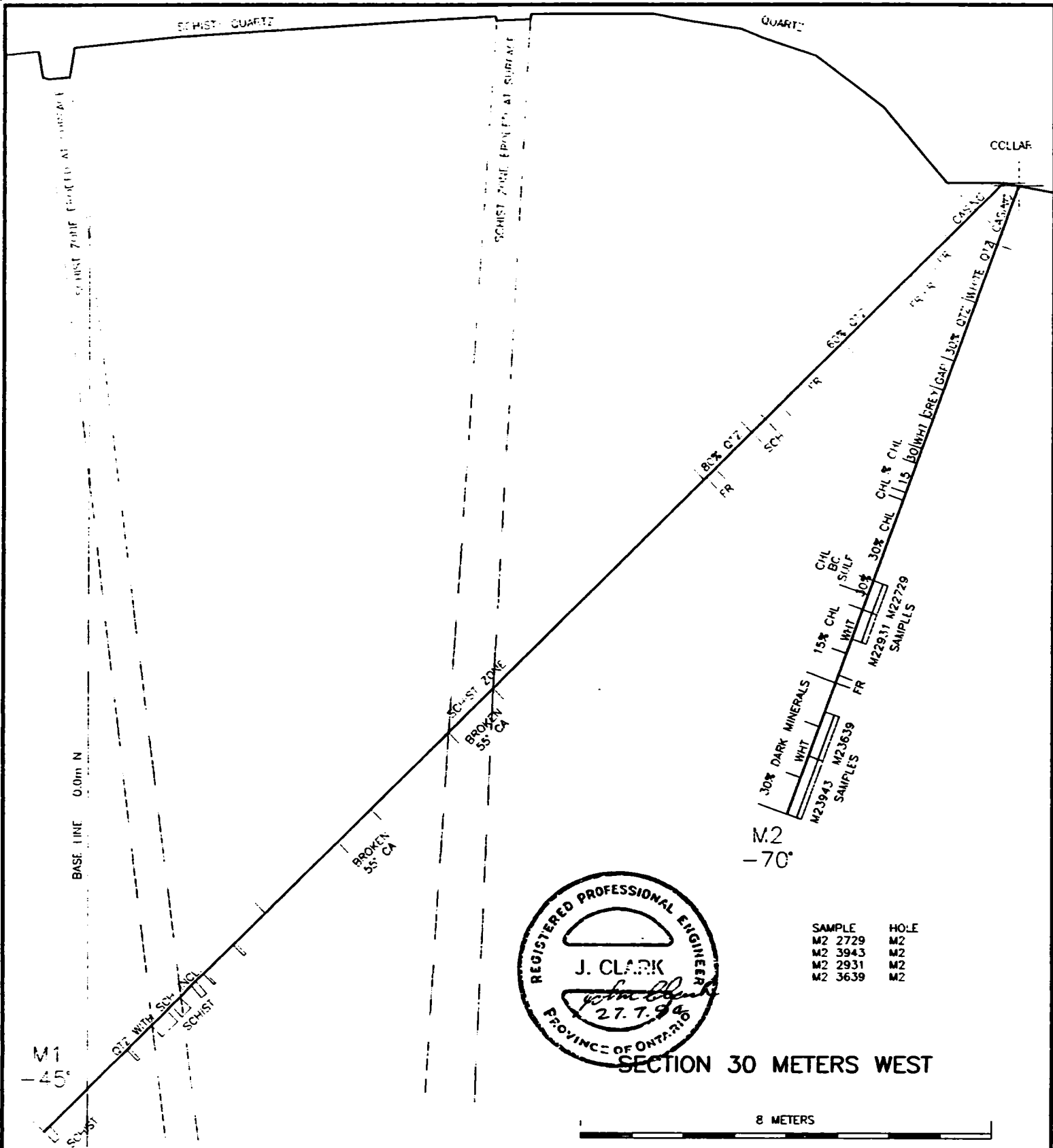
DATE 30.6.94

SCALE 1:1000

TITLE 12 MILE SITE DIAMOND DRILL HOLES

FILE A1 DWG NUMBER 0009

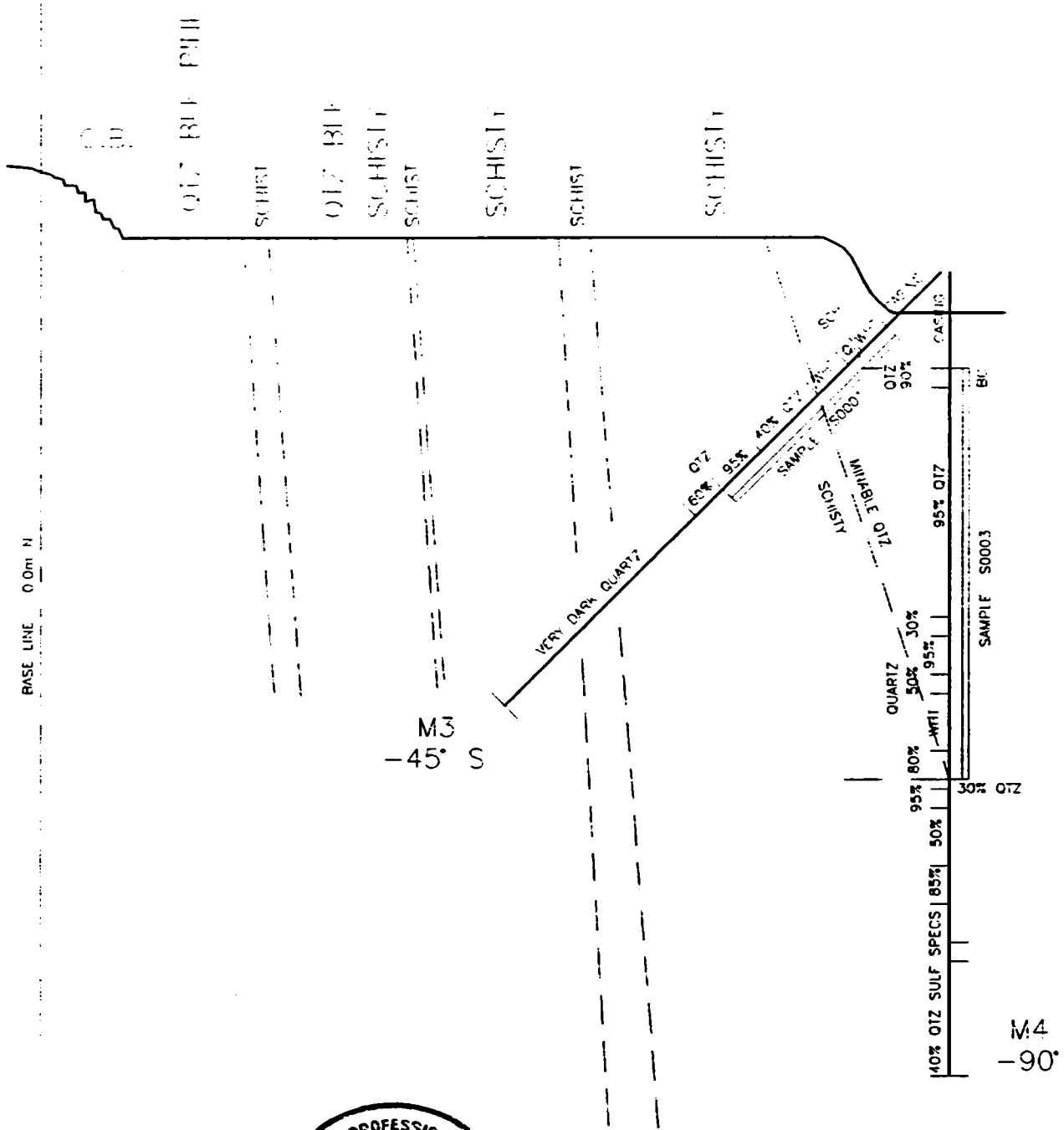




SAMPLE	HOLE
M2 2729	M2
M2 3943	M2
M2 2931	M2
M2 3639	M2

SECTION 30 METERS WEST

<b>QUARTEC MINERAL DEVELOPMENTS INC.</b>	SCALE	1:100	TITLE <b>12 MILE SITE</b> <b>DRILL HOLES M1, M2</b>	FILE	NUMBER	REV
	DRAWN BY	J.CLARK		A1	0010	
	DATE	30.6.94				



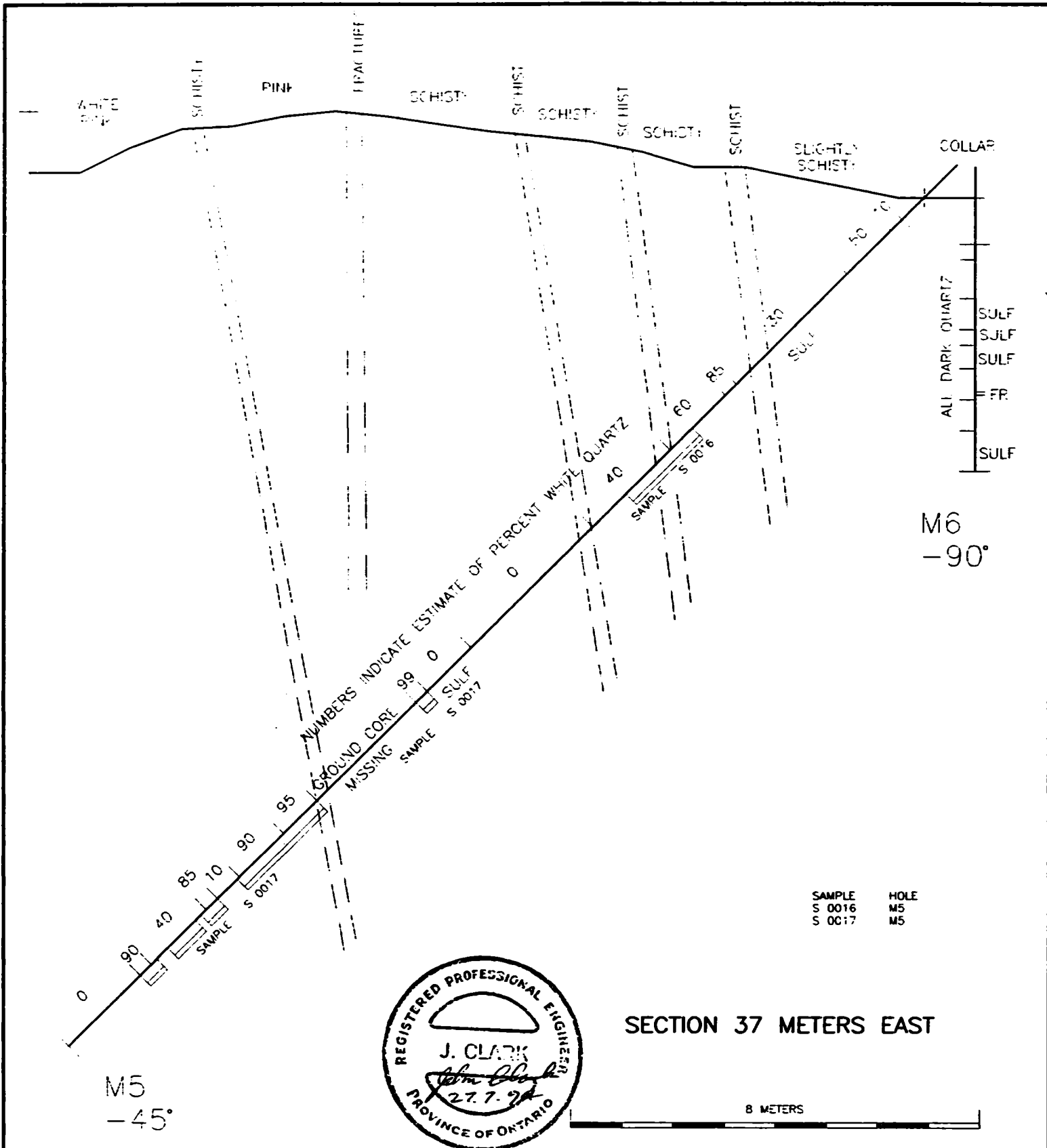
SAMPLE HOLE  
 S 0001 M3  
 S 0003 M4



SECTION 48 METERS WEST

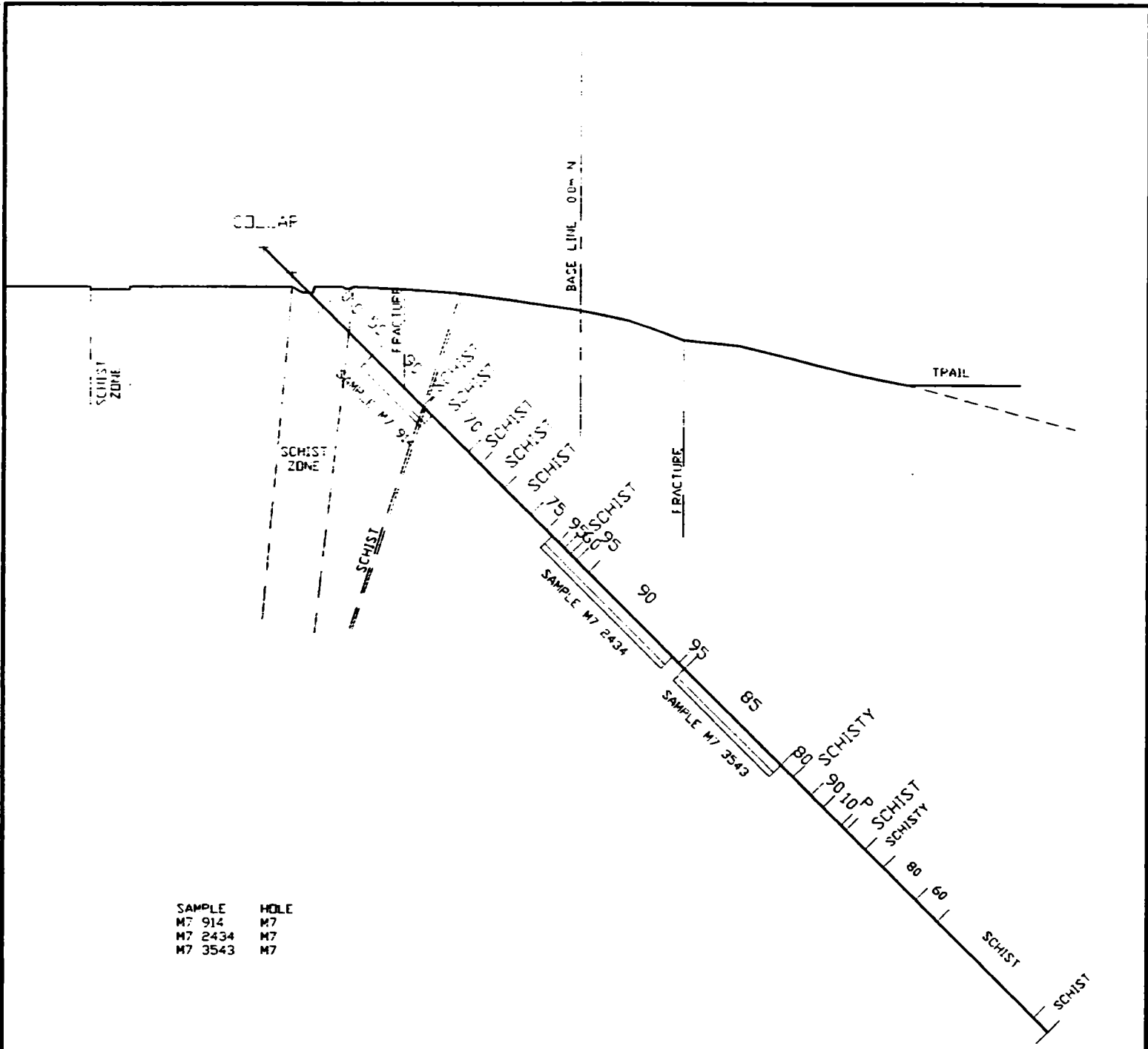
8 METERS

<b>QUARTEC MINERAL DEVELOPMENTS INC.</b>	SCALE	1:100	TITLE <b>12 MILE SITE</b> <b>DRILL HOLES M3, M4</b>	FILE	NUMBER	REV
	DRAWN BY	J.CLARK		A1	0011	
	DATE	30.6.94				

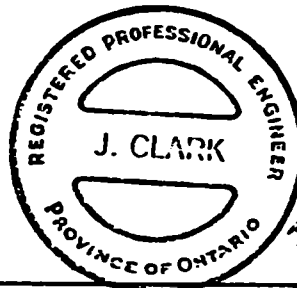


<b>QUARTEC MINERAL DEVELOPMENTS INC.</b>	SCALE	1:100	TITLE <b>12 MILE SITE</b> <b>DRILL HOLES M5, M6</b>	FILE	NUMBER	REV
	DRAWN BY	J.CLARK		<b>A1</b>	<b>0012</b>	
	DATE	30.6.94				



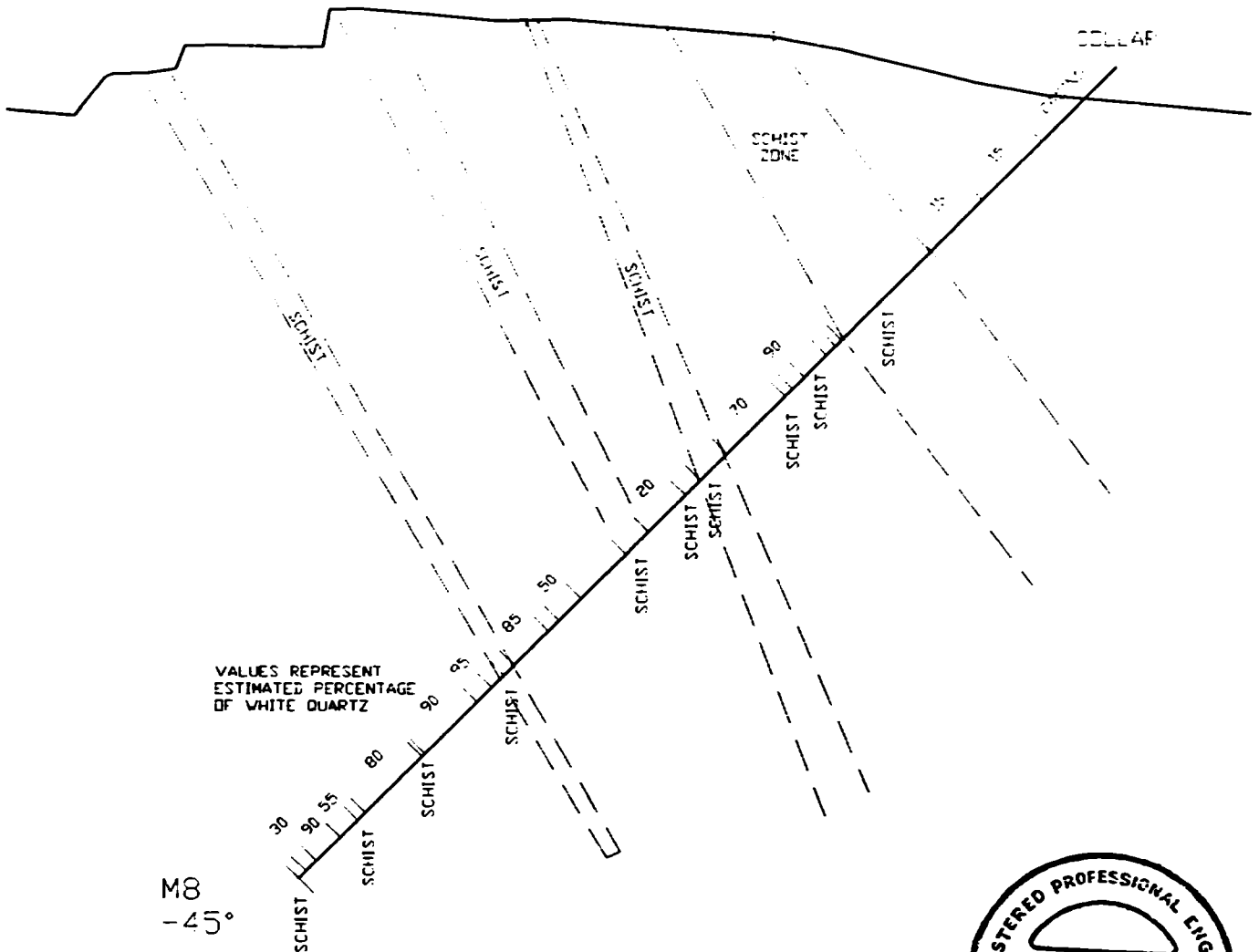


SECTION 60 METERS EAST



M7  
-45°  
*John Clark*  
27.7.94

QUARTEC MINERAL DEVELOPMENTS INC.	SCALE	1:100	TITLE 12 MILE SITE DRILL HOLE M7	FILE	NUMBER	REV
	DRAWN BY	J.CLARK		A1	0013	
	DATE	30.6.94				



M8  
-45°

VALUES REPRESENT  
ESTIMATED PERCENTAGE  
OF WHITE QUARTZ



SECTION 43.5 METERS EAST



QUARTEC MINERAL DEVELOPMENTS INC.	SCALE	1:100	TITLE 12 MILE SITE DRILL HOLE M8	FILE	NUMBER	REV
	DRAWN BY	J.CLARK		A1	0014	
	DATE	30.6.94				

# DIAMOND DRILL LOG

## QUARTEC MINERAL DEVELOPMENTS INC.

HOLE No. M1 LOCATION MILE 12 DIP -45 AZIMUTH <sup>MAG.</sup>205° DATE STARTED 27 May 1994

LENGTH 86.5 FEET/METERS ft

DATE COMPLETED 3 June 1994

NORTH 17.85m EAST -30m ELEVATION ..... LOGGED BY JC, ER PAGE 1 of 2

From	To	Description	Sample No.						
0	5 ft	casing							
5'	21.5'	White quartz with chloritic sections Dark sections 40%							
5'	7'	fractured							
8'	8.4'	fractured							
9'	9.5'	fractured							
19.5'	20.2'	fractured							
21.5'	22.7'	Dark schist with minor quartz stringers							
22.7'	27.0'	quartz. chloritic sections 20%							
26.0'	26.8'	fractured							
27.0'	66.5'	schist zone with minor quartz stringers							
46.0'	50.0'	badly broken core along schist planes at 55° CA.							
57.0'	60.0'	"							
66.5'	86.5'	quartz with schist inclusions E.O.H. 25% of sample is dark schist as follows							



DIAMOND DRILL LOG  
**QUARTEC MINERAL DEVELOPMENTS INC.**

HOLE No. M 2 LOCATION MILE 12 DIP -70° AZIMUTH 205° DATE STARTED 4 June 1994

LENGTH 43.0 FEET/METERS ft. DATE COMPLETED 7 June 1994

NORTH 18.15m. EAST -30m. ELEVATION ..... LOGGED BY ER JC PAGE 1 of 2

From	To	Description	Sample No.					
0	4'	CASING						
4'	27'	Quartz						
4'	8'	white quartz						
8'	12'	30% dark quartz chl. string inclusions						
12'	14'	No core Gap - reported by driller						
14'	16'	grey section						
16'	18'	white						
18'	19'	30% chl.						
19'	21'	15% chl						
21'	21.5'	broken chl. zone						
21.5'	27'	dark 30% chl.						
27'	28'	30% chl. minor sulphides broken core						
28'	34'	15% chl.						



DIAMOND DRILL LOG  
**QUARTEC MINERAL DEVELOPMENTS INC.**

HOLE No. M3 LOCATION Mile 12 DIP -45° AZIMUTH 205° DATE STARTED 10 June 1994

LENGTH 32.0 FEET/METERS ft DATE COMPLETED 13 June 1994

NORTH 13.4m EAST -48m ELEVATION ..... LOGGED BY JC PAGE 1 of 1

From	To	Description	Sample No.	% Fe <sub>2</sub> O <sub>3</sub>	% Al <sub>2</sub> O <sub>3</sub>	% CaO	% TiO <sub>2</sub>
0	4'	CASING					
4'	5.8'	white quartz					
5.8'	6.0'	chl. schist					
6.0'	6.8'	quartz. some schist					
6.8'	9.0'	white quartz					
9.0'	13.2'	quartz. 60% dark minor sulfide - marcasite					
13.2'	16.0'	quartz 5% dark					
16.0'	18.0'	quartz 40% dark					
18.0'	32.0'	very dark quartz					
"	"	fractures 45°-65° CA chl ff. minor sulf blebs and fine disseminated sulf					
		SAMPLED:					
4'	16'	FLUX SAMPLE	S 0001	0.225	0.410	0.017	0.004
18'	32'	COMPOSITE SAMPLE FOR METAL ASSAYS	S 0002				

# DIAMOND DRILL LOG

## QUARTEC MINERAL DEVELOPMENTS INC.

HOLE No. M14 LOCATION MKE 12 DIP -90° AZIMUTH ..... DATE STARTED 14 June 94

LENGTH 42.0' FEET/METERS 12.8 DATE COMPLETED 15 June 94

NORTH 14.2m EAST -48m ELEVATION ..... LOGGED BY Jc PAGE 1 of 2

From	To	Description	Sample No.						
0	5'	CASING							
5'	6'	quartz 10% dark broken core							
6'	18'	quartz 5% dark							
18'	19'	quartz 70% dark							
19'	21'	quartz 5% dark							
21'	22'	quartz 50% dark broken. sulfide specs							
22'	25'	quartz white							
25'	26.5'	quartz 20% dark sulfide blebs							
26.5'	27'	quartz 70% dark white metallic specs							
27'	28'	quartz 5% dark							
28'	31'	quartz 50% dark							
31'	33'	quartz 15% dark							
33'	42'	quartz 60% dark sulfide specs							





# DIAMOND DRILL LOG

## QUARTEC MINERAL DEVELOPMENTS INC.

HOLE No. M5 LOCATION MILE 12 DIP -45° AZIMUTH 205° DATE STARTED 16 June 74

LENGTH 80.5' FEET/METERS fr

DATE COMPLETED 21 June 74

NORTH -2m EAST 37.8m ELEVATION ..... LOGGED BY JC PAGE 1 of 2

From	To	Description	Sample No.						
0	5'	CASING							
5'	6'	quartz 90% dark broken - 2" max length some pink mins.							
6'	10'	quartz 50% dark chl fractures 1"-2" apart 40-50° CA							
10'	20'	quartz 70% dark broken chl fractures CA ~ 45° sulf at 14.5', qtz white 10'-11'							
20'	21'	quartz 15% dark, some pink broken							
21'	26'	quartz 40% dark banded sulfide specs at 21.5'							
26'	33'	quartz 60% dark sulf specs at 26', 30', 32.5'							
33'	44'	quartz black, schisty broken							
44'	48'	quartz black schisty badly broken, < 1" sulf 46'-47'							
48'	49'	quartz white calcopryite specs							
49'	58'	Ground core - missing							
58'	61'	quartz white 5% dark badly broken							
61'	65.5'	quartz 10% dark slightly schisty							





# DIAMOND DRILL LOG

## QUARTEC MINERAL DEVELOPMENTS INC.

HOLE No. M7 LOCATION Mite 12 DIP -45° AZIMUTH 25° DATE STARTED 23 June 94

LENGTH 65.2' FEET/METERS ft

DATE COMPLETED 27 June 94

NORTH -5.8m EAST 60.6m ELEVATION ..... LOGGED BY JC PAGE 1 of 3

From	To	Description	Sample No.					
0'	5'	CASING						
5.0'	6.0'	dark schist. 2" pieces disseminated sulf in bands						
6.0'	7.0'	schist. badly broken						
7.0'	9.0'	dark quartz 50% dark banded						
9.0'	13.2'	white quartz 90% qtz						
13.2'	13.3'	schist						
13.3'	13.5'	white quartz						
13.5'	15.0'	dark chl. schist						
15.0'	17.0'	dark quartz. 30% dark						
17.0'	18.0'	dark schist						
18.0'	20.0'	dark schist CA 50°						
20.0'	22.2'	schist badly broken						
22.2'	23.5'	quartz 25% dark mica						

# DIAMOND DRILL LOG

## QUARTEC MINERAL DEVELOPMENTS INC.

HOLE No. M7 LOCATION Mile 12 DIP -45° AZIMUTH 25° DATE STARTED 23 June 1994

LENGTH 65.2 FEET/METERS ft

DATE COMPLETED 27 June 1994

NORTH -5.8m EAST 60.6m ELEVATION ..... LOGGED BY JC PAGE 2 of 3

From	To	Description	Sample No.					
23.5'	24.5'	pink quartz badly broken						
24.5'	25.0'	quartz 5% dark						
25.0'	25.5'	schist						
25.5'	26.0'	quartz 40% dark						
26.0'	27.0'	quartz 5% dark broken < 1"						
27.0'	34.5'	quartz 10% dark broken < 2"						
34.5'	35.0'	quartz 5% dark						
35.0'	43.0'	quartz 15% dark						
43.0'	44.0'	quartz banded 20% dark						
44.0'	45.5'	quartz schisty badly broken CA 15°						
45.5'	46.5'	quartz 10% dark						
46.5'	48.0'	quartz, schisty, 90% dark diss sulf in schists						
48.0'	48.4'	quartz band slightly pink						



# DIAMOND DRILL LOG

## QUARTEC MINERAL DEVELOPMENTS INC.

HOLE No. M 8 LOCATION MILE 12 DIP -45° AZIMUTH 205° DATE STARTED 27 June 94  
 LENGTH 55' FEET/METERS ft DATE COMPLETED 28 June 94  
 NORTH -4.7m EAST 43.5m ELEVATION ..... LOGGED BY JC PAGE 1 of 3

From	To	Description	Sample No.						
0	5'	CASING							
5'	9'	Dark. 85% black badly broken							
9'	12.5'	schisty 85% black							
12.5'	18.5'	schist							
18.5'	18.9'	missing driller reported sand							
18.9'	19.5'	broken core 90% black							
19.5'	21.0'	schist							
21.0'	21.8'	quartz 10% black							
21.8'	22.3'	schist							
22.3'	26.2'	pink quartz 30% dark mins							
26.2'	28.0'	schist, broken disks CA 75°							
28.0'	29.0'	schist							
29.0'	31.5'	quartz. 80% dark minerals							



DIAMOND DRILL LOG  
**QUARTEC MINERAL DEVELOPMENTS INC.**

HOLE No. M8 LOCATION MILE 12 DIP -45° AZIMUTH 205° DATE STARTED 27 June 74

LENGTH 55' FEET/METERS ft DATE COMPLETED 28 June 74

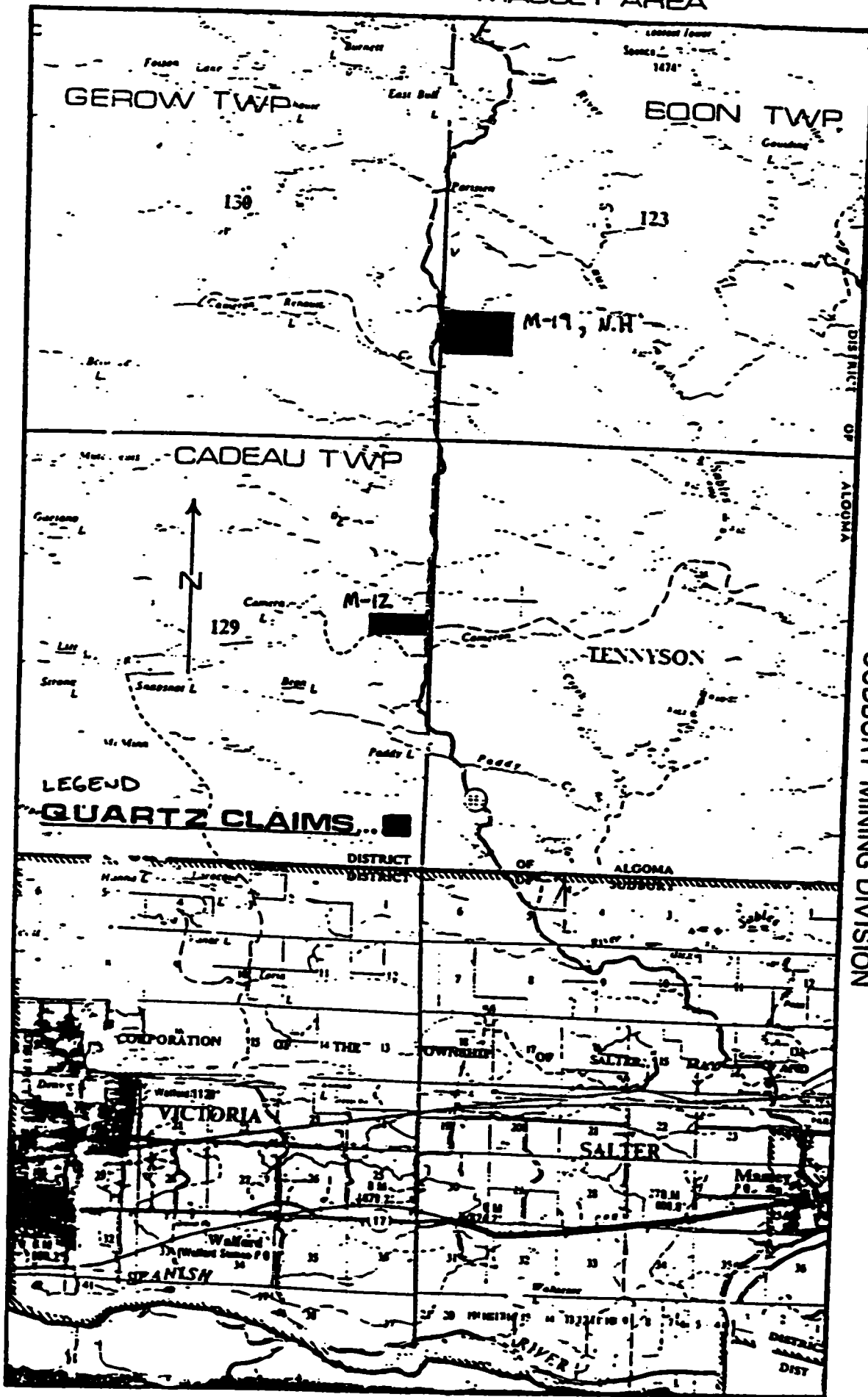
NORTH -4.7m EAST 43.5m ELEVATION ..... LOGGED BY JC PAGE 2 of 3

From	To	Description	Sample No.						
31.5'	33.0'	schist							
33.0'	36.0'	broken schisty							
36.0'	37.5'	quartz. 50% dark							
37.5'	38.2'	schisty. broken							
38.2'	40.5'	quartz 15% dark							
40.5'	41.2'	schist							
41.2'	42.0'	quartz 15% dark							
42.0'	43.0'	quartz. white broken							
43.0'	46.5'	quartz 10% dark							
46.5'	46.7'	schist							
46.7'	50.5'	quartz. 20% dark banded							
50.5'	51.0'	schist							
51.0'	52.2'	quartz 45% dark bands							



LOCATION MAP

SUBBURY MINING DIVISION



# NOVA

Site 37, Box 28, RR#2  
Sudbury, Ontario  
P3E 4M9

## CONTRACTING

Tel: (705) 522-6686

TAX REG. NO. R11574910

SOLD TO Quotec Mineral Developments Corp  
c/o Chris Huchenski

SHIP TO \_\_\_\_\_

ADDRESS \_\_\_\_\_ VIA \_\_\_\_\_

OUR NUMBER	64860
DATE	May 14/94
CUSTOMER'S ORDER	
SALESMAN	
F.O.B.	#2

INVOICE

DATE	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL
	Backhoe Work			
May 3	6 hrs			
May 4	8 hrs			
May 5	6 1/2 hrs			
May 6	7 hrs	53 1/2 hrs	\$45/hr	= 2407.50
May 9	6 hrs			GST 168.53
May 10	9 hrs			2576.03
May 12	8 hrs			
May 13	3 hrs			
	53 1/2 hrs			

DUP & QUOTE  
Thank You

# NOVA

Site 37, Box 23, RR#2  
Sudbury, Ontario  
P3E 4M9

## CONTRACTING

Tel: (705) 522-6686

TAX REG. NO.

R111524910

SOLD TO

Quartec Mineral Developments Inc  
487 Bouchard St. Sudbury

SHIP TO

P3E 2K8.

ADDRESS

VIA

OUR NUMBER

54865

DATE

May 28/94

CUSTOMER'S ORDER

SALESMAN

TERMS

F.O.B.

INVOICE

DATE	DESCRIPTION	TIME	AMOUNT
	Backhoe Work - Massey		
May 18	7 hrs		
May 19	8 1/2 hrs		
May 20	8 hrs		
May 21	7 1/2 hrs		
May 24	4 hrs	58 hrs x \$45/hr =	2610.00
May 25	6 hrs	GST	182.70
May 26	9 hrs		2792.70
May 27	8 hrs		
	58 hrs	Paid Jan 16/94 \$80 Due & owing Thank You	

BLUPE DC 31

# NOVA

Site 37, Box 28, RR#2  
Sudbury, Ontario  
P3E 2K9

## CONTRACTING

Tel: (705) 522-6636

TAX REG. NO.

R11584910

SOLD TO

Quater. Mineral Developments Inc

407 Bouchard St. SUDBURY

SHIP TO

P3E 2K8

ADDRESS

VIA

OUR NUMBER 64869

DATE

June 13/94

CUSTOMER'S ORDER

SALESMAN

TERMS

F.O.B.

INVOICE

DATE	DESCRIPTION	QUANTITY	AMOUNT
	Backhoe Work - Massey		
May 30 - June 10	as per Chris		
	38 hrs. x \$45/hr		1710.00
		GST	119.70
			1829.70
	Dye & crimp.		
	Thank You		

FORM DC 31

# NOVA

Site 37, Box 28, RR#2  
Sudbury, Ontario  
P3E 4M9

## CONTRACTING

Tel: (705) 522-6686

TAX REG. NO.

R111564910

SOLD TO

Quanta Mineral Developments

407 Bouchard St. Sudbury, Ont

SHIP TO

P3E 2K8

ADDRESS

VIA

OUR NUMBER

64879

DATE

June 25/94

CUSTOMER'S ORDER

SALESMAN

TERMS

F.O.B.

INVOICE

DESCRIPTION				
Backhoe Work - Massey				
June 13-18	37 hrs	PD	July 14/94	\$121
June 20-24	39 hrs	PD	July 16/94	\$144
	<u>76 hrs</u>			
76 hrs x \$45/hr =				3420 00
			GST	239 40
				<u>3659 40</u>
see owing				
Thank You				

BLUPLATE DC 31

# NEVA

CONTRACTING INC.

617 JUPITER COURT  
SUDBURY, ON P3E 5N1

OUR NUMBER	36907
DATE	Oct. 6/94
CUSTOMER'S ORDER	
SALESMAN	
TERMS	
F.O.B.	

TAX REG NO R111567910  
 SOLD TO Quarte Mineral Developments  
c/o Norma Cecutti 487 Bouchard St.  
 SHIP TO SUDBURY, Ont P3E 2K8  
 ADDRESS \_\_\_\_\_ VIA \_\_\_\_\_

INVOICE

QTY	DESCRIPTION	PRICE	AMOUNT
	Bachhoe Work - Massey		
	Oct. 1-2/94		
	13 hrs x \$45/hr		585.00
		GST	40.95
			<u>625.95</u>
	Due & owing		
	Pd Oct 12/94 \$148		



# Wiseman Mining Consultants Ltd.

R.R. 3, SITE 18, BOX 41 - SUDBURY, ONTARIO P3E 4N1 - (705) 522-8502

## INVOICE

DATE OF INVOICE: May 20, 1994

Customer: NORM CECUTTI

487 Bouchard St.,  
Sudbury, Ontario.  
P3E 2K8

*Paul 4/27 24/5/94  
#28*

Re: CADEAU TOWNSHIP

Description:  
Per estimate and report dated: May 20, 1994

To prepare site plans and collect field data for reports  
necessary for proving the viability of operating a quarry.

---

Total estimated cost of project: \$ 8,000.00 + \$560.00 G.S.T.

This advance invoice is for:	\$ 5,000.00
G.S.T.	\$ 350.00
	-----

<u>Total of this invoice:</u>	<u>\$ 5,350.00</u>
-------------------------------	--------------------

WISEMAN'S G.S.T. NO. R122799943

PLEASE MAKE CHEQUE PAYABLE TO: WISEMAN MINING CONSULTANTS LTD.

# Wiseman Mining Consultants Ltd.

R.R. 3, SITE 18, BOX 41 - SUDBURY, ONTARIO P3E 4N1 - (705) 522-8502

052094.3

## INVOICE

DATE OF INVOICE:

Customer: NORM CECUTTI

487 Bouchard St.,  
Sudbury, Ontario.  
P3E 2K8

*Paid by 3/84  
\* 52*

Re: CADEAU TOWNSHIP

Description:

Per estimate and report dated: May 20, 1994

To prepare site plans and collect field data for reports  
necessary for proving the viability of operating a quarry.

---

Total estimated cost of project: \$ 8,000.00 + \$560.00 G.S.T.  
Paid by cheque: \$5,350.00 (with thanks)

This invoice is for:	\$ 3,000.00
G.S.T.	\$ 210.00
	-----
<u>Total of this invoice:</u>	<u>\$ 3,210.00</u>

WISEMAN'S G.S.T. NO. R122799943

PLEASE MAKE CHEQUE PAYABLE TO: WISEMAN MINING CONSULTANTS LTD.

# Wiseman Mining Consultants Ltd.

R.R. 3, SITE 18, BOX 41 - SUDBURY, ONTARIO P3E 4N1 - (705) 522-8502

052094.4

## INVOICE

DATE OF INVOICE: July 25, 1994

Customer: NORM CECUTTI

487 Bouchard St.,  
Sudbury, Ontario.  
P3E 2K8

Re: CADEAU TOWNSHIP

Description:  
Per estimate and report dated: May 20, 1994

To prepare application for Aggregate Permit.

---

Total estimated cost of project: \$ 2,140.00  
Work completed as required. Project completed.

This invoice is for:		\$ 2,000.00
	G.S.T.	\$ 140.00
		-----
<u>Total of this invoice:</u>		<u>\$ 2,140.00</u>

WISEMAN'S G.S.T. NO. R122799943

PLEASE MAKE CHEQUE PAYABLE TO: WISEMAN MINING CONSULTANTS LTD.

# R.E. MAILLOUX CONSTRUCTION



(A DIVISION OF #44238 ONT. LTD.)

MAILLOUX ROAD, WALFORD ONTARIO POP 2E0 Tel: (705) 844-2509 • Fax: (705) 844-2281

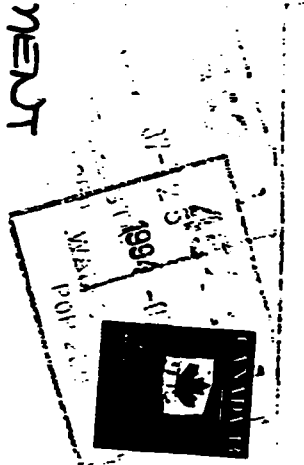
Sold to QUARTEL MINERAL DEVELOPMENT INC  
487. BOUCHARD ST  
SUDBURY ONTARIO P3E2K8

**INVOICE**  
**№ 0289**

DATE	TAX NO.	TERMS	CUSTOMER P.O. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
	R11649884			12	HR. EXCAVATOR RENTAL	8000	960.00
					<i>Paul Ayshford #136</i>	955	67.20
						<b>TOTAL</b>	<b>\$1027.50</b>

3% PER MONTH ADDED ON OVERDUE ACCOUNTS

Woodland Printers (705) 844-2112



# R.E. MAILLOUX CONSTRUCTION



(A DIVISION OF 84238 ONT. LTD.)

MAILLOUX ROAD, WALFORD ONTARIO POP 2E0 Tel: (705) 844-2509 • Fax: (705) 844-2281

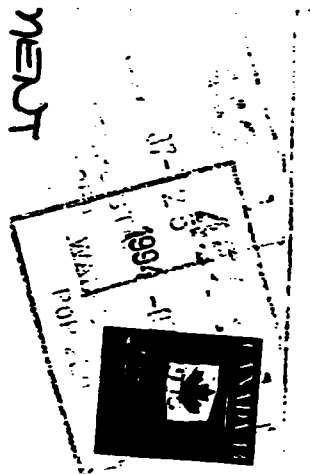
Sold to QUARTEL MINERAL DEVELOPMENT INC  
487. BOUCHARD ST  
SUDBURY ONTARIO P3E2K9

**INVOICE**  
 No 0289

DATE	TAX NO.	TERMS	CUSTOMER P.O. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
	R11649884			12	HR. EXCAVATOR RENTAL	8.000	96.00
					<i>Paul Ayshid #134</i>	9.50	67.20
					TOTAL		\$1027.50

3% PER MONTH ADDED ON OVERDUE ACCOUNTS

Woodland Printers (705) 844-3132



FL 963

### ASSAY REQUEST FORM

FALCONBRIDGE ANALYTICAL CHEMISTRY

DATE: JUNE 15/94 ACCOUNT # 22-822 REPORT TO: MIKE HUMPHRIES

SAMPLE I.D. Description	NI	Cu	Co	Fe	S	SiO2	Al2O3	AU	PE	Pd	ppm
OM# 3753											
	req'd					%	%	ppm	ppm	ppm	ppm
	est										
M2 2729	assay					93.70	1.61	<.02	<.02	.02	
OM# 3754	req'd										
	est										
M2 2931	assay					91.15	.61	<.02	<.02	.02	
OM# 3755	req'd										
	est										
M2 3639	assay					73.95	1.73	<.02	<.02	<.02	
OM# 3756	req'd										
	est										
M2 3943	assay					93.95	1.75	<.02	<.02	<.02	
OM# 3757	req'd										
M5-575-475	est										
	assay										
OM# 3758	req'd										
	est										
S 0002	assay										
OM# 3759	req'd										
	est										
S 0004	assay										
OM# 3760	req'd										
	est										
S 0005	assay										
	req'd										
	est										
	assay										
	req'd										
	est										
	assay										

Notes:

FL 953

### ASSAY REQUEST FORM

FALCONBRIDGE ANALYTICAL CHEMISTRY

DATE: JUNE 15 1994 ACCOUNT # 22-822 REPORT TO: MIKE HUMPHREY

SAMPLE I.D. Description	NI	Cu	Co	Fe	S	SI02	Al <sub>2</sub> O <sub>3</sub>	AVI	PE	PD	DDM
DM # 3753											
	req'd						%	%	ppm	ppm	ppm
	est										
M2 2729	assay					93.70	1.61	<.02	<.02	.02	
DM # 3754	req'd										
	est										
M2 2931	assay					91.15	.61	<.02	<.02	.02	
DM # 3755	req'd										
	est										
M2 3639	assay					73.95	1.73	<.02	<.02	<.02	
DM # 3756	req'd										
	est										
M2 3943	assay					93.95	1.75	<.02	<.02	<.02	
DM # 3757	req'd										
M5-575-475	est										
	assay										
DM # 3758	req'd										
	est										
S 0002	assay										
DM # 3759	req'd										
	est										
S 0004	assay										
DM # 3760	req'd										
	est										
S 0005	assay										
	req'd										
	est										
	assay										
	req'd										
	est										
	assay										
	req'd										
	est										
	assay										

Notes:

FL 963

# ASSAY REQUEST FORM

FALCONBRIDGE ANALYTICAL CHEMISTRY

DATE: June 10/94

ACCOUNT # 22-822

REPORT TO: Mike Humphries

SAMPLE I.D. Description		Ni	Cu	Co	Fe	S	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	An	Pt	Pd	ppm
		%	%				%	%	ppm	ppm	ppm	
<del>3439</del>	req'd											
	est											
	assay											
M-12E OM 3743	req'd	✓	✓				✓	✓	✓	✓	✓	
	est											
	assay	.018	.95				88.75	1.72	.05	<.02	.04	
M1-1218 OM 3744	req'd											
	est											
	assay						91.25	1.99	<.02	<.02	.04	
3439 OM 3745	req'd											
	est											
	assay						63.15	10.2	<.02	<.02	.02	
4650 OM 3746	req'd											
	est											
	assay						69.90	8.76	<.02	<.02	.17	
3945 OM 3747	req'd											
	est											
	assay						81.20	4.95	<.02	<.02	.46	
5761 OM 3748	req'd											
	est											
	assay						67.75	9.45	<.02	.02	.03	
6667 OM 3749	req'd											
	est											
	assay						68.10	9.04	<.02	<.02	.02	
7173 OM 3750	req'd											
	est											
	assay						66.95	9.49	<.02	.02	.06	
7477 OM 3751	req'd											
	est											
	assay						76.50	6.73	<.02	.05	.36	
	req'd											
	est											
	assay											

tes:

ASSREQ WIC





**FALCONBRIDGE LIMITED**  
Smelter Complex

**FAX**

Plants Office - Fax No. (705) 693-2153

TO: Norm Cecutti

FROM: M. A. Hughes

Copies To: .....

.....

.....

.....

No. of Pages 3.....  
(including cover sheet)

Message:

Norm!

As demand

M.A.H.

(Contact 705-693-2761 - ext. 3840, 3912, 3842 if any problems with fax)

Project Expenditur



41J08NE0012 2.15000 CADEAU

020

Prospecting, Map and Report Preparation

i) <u>Wages</u>	Chris Huchenski - 28 days Steve Huchenski - 5 days Markus Zoepel - 3 days Norm Rinta - 5 days	- 28 days - 5 days - 3 days - 5 days	<i>where is prosp report?</i>	
	Total wages	<u>41 days</u>		\$ 5,260.52 NO
ii) <u>Supervision</u>	Ed Rose			1,000.00 NO
iii) <u>Room and Board</u>	East Bull Lake Lodge, meals			1,085.57 ind
iv) <u>Equipment</u>	Nova Rental (Rental of Bush Quad)			<u>4,515.00</u> <i>direct ok. 72 days on site</i>
				<u>\$11,861.09</u>

Line Cutting, Chaining  
Picketing Grid Layout

i) <u>Wages</u>	Chris Huchenski - 6 days			\$ 603.69 <i>linecutting ok.</i>
ii) <u>Supervision</u>	John Clark <i>forget it.</i>			<u>1,000.00</u> &
				<u>\$ 1,603.69</u>

Layout Survey

<u>Sub Contract</u>	Wiseman Mining Consultants Ltd. Prepare site plans and collect field data		<i>for what?</i>	<u>\$10,000.00</u> &
---------------------	--	--	------------------	----------------------

Geological Surveys, Maps

	Ed Rose			\$ 1,000.00 <i>To K.</i>
	John Clark			<u>4,000.00</u>
				<u>\$ 5,000.00</u>

Surface Samples

<i>where 6 are previously claimed for E. Rose</i>	John Clark			<u>\$ 2,000.00</u> &
---	------------	--	--	----------------------

79 report

Stripping, Trenching  
Pits, Map and Reports

i) <u>Wages</u>	Larry Palmer	- 18 days
	Chris Huchenski	- 8 days
	Steve Huchenski	- 10 days
	Duane Gamble	- 15 days
	Norm Rinta	- 21 days
	Markus Zoepel	- 3 days
	Total wages	<u>75</u>

\$ 5,859.67 <sup>Leap</sup> <sup>skate</sup> <sup>OK #78/day</sup>  
1,000.00 <sup>=250 = 4</sup> <sup>79 days</sup>

ii) <u>Supervision</u>	John Clark	
iii) <u>Equipment</u>	Backhoe	Nova Contracting - backhoe
	Chain Saws, etc.	Nova Rentals
		Mai Ward

10,147.50 OK.  
988.90 OK.  
4,320.76 operator <sup>≈ 150 day</sup> <sup>≈ 30 days</sup>

iv) <u>Miscellaneous</u>	Miscellaneous	
	R. Mailleau	

\$ 3,301.61 <sup>double whamy?</sup>  
480.00 ?

\$26,098.44

3 programs

drilling: 9171.03 ✓  
1000.00 ✓  
blasting: 9270.34 ✓  
1331.30 ✓  
3329.04 ✓  
3207.68 ✓

Indirect  
1085.58 ✓  
3301.61 ✓

4387.19 ✓ Indirect.

Stripping: 5859.67 ✓  
1000.00 ✓  
- dates worked? 10,147.50 ✓  
988.90 ✓  
quad. 4320.76 ✓  
4515.00 ✓

#59,072.10 Direct

linecut

603.69 ✓ 59,689.91

2nd geology 1000.00  
Clark  
drill logs 4000.00  
field geology maps 5000.00 ✓

72 days on calendar

Surface Drilling  
Mobilization, Logging Core

*plugger holes*

*32 days x 3 men x 92 = 9108*

i) <u>Wages</u>	Guy Viel	- 32 days
	Larry Palmer	- 18 days
	Chris Huchenski	- 7 days
	Steve Huchenski	- 19 days
	Duane Gamble	- 18 days
	Norm Rinta	- 6 days
		<i>100 2/3</i>
	<b>Total Wages</b>	

*9108*  
*close*  
*\$92/day*  
**\$9,171.03** - *drilling*

ii) Supervision John Clark

**1,000.00** *drilling*

iii) Room and Board

East Bull Lake Lodge, meals

**1,085.58** *indirect*

iv) Equipment

Hydracore 28 Diamond Drill  
Gardner Denver Plugger  
Compressor

McDowell Equipment Rental *drill equip*  
Hydracore *drill*  
Miscellaneous - bits, oil, gas  
Jim's Blasting

*\$9,210.34* *drilling*  
*1,331.30* *drilling*  
*3,329.04* *drilling*  
**8,207.68**

v) Job Site

Travel costs, supplies etc.

**3,301.61**

**\$31,636.58**

Assaying, Map and Reports

*6 samples on M-19 where all artifacts*

Ed Rose

**\$1,000.00** *Q*

John Clark

**1,000.00** *Q*

**\$ 2,000.00**

**Total Project Expenditures**

**\$90,199.80**

*drilling & plugger*

*9171 Wages*  
*1000 Supervision*

*9210 equip*

*1331 equip*

*3329 equip supplies*

**24,041**

215669 - Quatec Mineral Dev.

- 0.55km of line-cutting  
↳ 6 surface sample  
(need certificate)

TO M19 project

$$0.55 \text{ km} \times 250/\text{km} = 138$$

if get 6 samples  
Assay cert.

- phys. #90,180
- d.d.h. + logging <sup>in</sup>
- stripping, clearing
- geol
- prosp.
- trench filling & repair of stripped area (MNR approved)

→ m-12 & m-19.

'87  
quartz exp.

studied in '92.

both worked in 94.

April 18/94 to June 28/94.

m-12 1179609 (3) (120 acres) Cadoux Ip.

m-19 1179415 (8) (320 acres) Boon Ip.

(M-12) trail around quartz body.

- stripped

↳ 1700' or 0.52 km pickets.

N-S compass lines - flagged

- geology summary.

8 d.d.h. 424'

120 pugged holes @ 8'  
3360'

16 sampled - Falanbridge  
SKW.

2 v  
minerals

(M-19)

↳ 1800' 0.55 km.

prosp, sampling.

21,041  
6.35/ft.

M-12.

start May 3,

clear brush - 3 man crew w. chainsaws  
strip overburden - backhoe.  
- manual hoe

(16 Ha cleared)

50217 m<sup>2</sup> - exposure of outcrop.

(19) days of work.

622 m of trail.

Geol: John Clark.  
Ed Rose  
several trainees

216669.

Nova Rental  
682-0613  
(Lively)

Backhoe

Chain Saws . 30/24 hrs  
120/7week  
Bush Quad } 1mo \$60  
runner }

110/24

440/7days

1320/4week

Chain saws \$30/24 hrs, \$20/7day week,  
\$360/1mo (4weeks)

Bush Quad 9x7 \$110/24 hrs, \$440/7day week  
\$1320 4week (mo)

Do not rent Backhoe.

---

①

2.15669

M-12 - 120 acres

M-19. 320 acres.

- Total area of Bush cleared = 16,420 sq.m

base line = 1800 feet.  
= 549 m

- overbush cleared = 5,027 sq.m

= 0.55 Km  
- no detailed geol. mapping carried out.

- New trail/road.  
622 m

Total area of rock blasted = 102 sq metres.  
Total volume of rock blasted = 115 cu m.

+ 0.4 Km for  
Drill/blast  
pit

number of jackleg holes drilled but not blasted = 36

0.55 Km  
0.820 Km  
0.40 Km  

---

1.77 Km

Number of plugger holes drilled but not blasted = 77

established E-W base line = 1770 ft.  
= 519 m

cross line N-S = 300 m

TOTAL LINE = ~820 m

- Mapped 2000 feet long = 610 m  
120 feet wide = 37 m

∴ totalled dist flagged, picketed, grid layout = 1.77 Km



M-12

M-19

D.O.H. - eight holes  
- total length = 423.8 ft  
= 129m.

@25/ft = 10,595

420 plugger holes &  
blasted to establish  
14 pits.  
3 ft centers x 8 ft.

distance 420 x 3 ft = 1260 feet.  
= 384m = 0.4km

420 holes x 8 ft = 3,360 ft @ <sup>17</sup>/<sub>25</sub> / ft = 53,120  
= 1024m.

16 samples were taken for assay.

16 samples

812 Al<sub>2</sub>O<sub>3</sub> x 10<sup>4</sup> each + 5 each of G = 180.  
812 Pb, Ag, Au. x 20 each + 5 each of G = 300

43 Fe<sub>2</sub>O<sub>3</sub>, Al<sub>2</sub>O<sub>3</sub>, CaO + TiO<sub>2</sub> x 27 each + 5 of G = 128  
Tot. geol/assay 1608

Ed Rose

68,323.

John Clark

(3)

Total line cutting, chaining  
 Property grid layout.

M-12 property

420 plugged holes at 3 ft centers = 1260 feet = 384m = 0.4 km  
 E-W base line 1,700 ft (519m) + N-S cross line 300m = 0.82 km

M-19 property

base line 1,800 feet = 549m = 0.55 Km.

GRAND TOTAL = 0.4 km + 0.82 km + 0.55 km = 1.77 km

charged \$1,603.69  $\therefore$  cost/km = \$906  
 accept. limit = \$250-400

(4)

2.15669

# Potential Deficiencies / Reductions

## Prospecting, map + Report Generation

Wages	41 days Total	Charged	5,260.52.
Supervision			1,000.00
Acron + Bond			1,085.57.
Equip. Rental			<u>4,515.00</u>
			11,861.09.

Def/Red.

Do not need  
M.A. required  
for prospecting  
work.

## Line Cutting, chaining, picketing and layout.

Wages	603.69.
Supervision	<u>1000.00</u>
	1603.69

Total line cut, grid  
layout includes  
plastic pattern = 1.77/km

Cost is high  
allow 40% cost  
should be 708  
total cost 1603.69

$\therefore$  cost/km = \$906      accept 250-400/km

## Layout Survey

Sub Contracted

Wiseman Mining Consult. Ltd.  
prepare site plans + collect field  
data.  
charged \$10,000

3:00pm Jan 20/95  
Ed Rose - called on Behalf  
of Quantez Mineral  
Dev. Corp.

- went over Def. +  
Reductions. → seemed  
OK with them → wanted  
to know how long he  
would keep claims in  
Boon + Cadman Twp  
wrt the present redcut.  
stated in my letter. I  
sent him to Min Records  
in Sud. to get most  
up to date info ~~skp~~

missing 2.15669.

- Assay Certificates
- copy of second page  
of ~~the~~ MS drill log  
on Mile 12 site.
- Chip sample locations  
no-data.

**REQUIREMENTS OF GEOTECHNICAL SUBMISSIONS FOR ASSIGNMENT CREDIT**

2.15669

File No.  
Report of Work No.

Type of Survey  
Township or Area

**Report**

- ✓ 1. Typewritten, suitable for reproduction.
- ✓ 2. Table of Contents.
- ✓ 3. Identify mining claims and names and addresses of holders.
- ✓ 4. Location and means of access.
- ✓ 5. Key map showing claims in relation to topographic features, township boundaries, established survey lines.
6. Author's signature and date of completion.
7. Name of person/s who supervised survey.
- ✓ 8. Dates during which survey work was performed.
- ✓ 9. Summary of exploration and development work performed on claims.
10. All assays and analyses with appropriate certificates.
- \* 11. Statement of qualifications.
- ✓ 12. Interpretation of anomalous values and recommendation for further exploration.
14. List of references or bibliography.

**Maps**

- ✓ 1. Scale between 1:10 and 1:5000 or in the case of a regional survey, between 1:500 and 1:250,000, utilizing a graphic or bar scale.
- ✓ 2. North arrow indicating whether bearing is astronomic or magnetic.
- ✓ 3. Shows lakes, rivers and other notable topographic features including railways, roads, trails, powerlines, and buildings.
- ✓ 4. Shows claim posts and boundary lines, township boundary lines, lot and concession lines, grid lines, traverse lines.
- ✓ 5. Survey stations and markers in relation to topographic features.
- ✓ 6. Claim numbers of all claims covered by the survey.
7. Printed name of author of accompanying report.

REQUIREMENTS OF GEOLOGICAL SURVEY REPORTS AND MAPS

File No.  
Report of Work No.  
Township or Area

**Reports**

1. Contain a table of rock types, lithologies and formations with their descriptions and illustrated on any accompanying maps and illustrations.
2. Describe the regional geology.
3. Give descriptions of significant geological structures.
4. Identify the character, attitudes and dimensions of any veins, mineralization and alteration found during the survey.
5. Identify the sources of geological data contained in the report if obtained from sources other than the survey being reported.

**Maps**

1. Contain a table of rock types, lithologies and formations, with a descriptive list of the symbols used.
2. Show outcrops designated by a letter or number corresponding to the rock type, lithologies and formations.
3. Show the character of the overburden including boulder, clay, gravel or sand, and the distribution of swamp, muskeg and forest cover areas along all lines traversed, particularly where no outcrop is found and identified.
4. Show all observed and interpreted folds, schistosity, actual and indicated faults, attitudes of flows and stratified rocks, including strikes and dips, and the direction in which they face, locations and attitudes of actual and interpreted contacts and other structural features.
5. Show zones of shearing, alteration or mineralization and veins.
6. Show the location of trenches, test pits, shafts and adits.
7. Show the location, direction and dip of drill holes.

17.

✓ The result of beneficiation, geochemical testing or other special studies of assaying and analyses are eligible for assessment work credit if the results;

(a) ✓ include a summary listing all types of work performed, the costs involved for such work, and the mining claim numbers on which the work was carried out;

f

(b) where assays or analyses are reported, include the assay certificates and a plan at a scale of between 1: 5 000 and 1: 10 clearly identifying the location of each sample by number, letter or grid co-ordinate designation and show the assay results; and

(c) where assays or analyses are reported for core or non-core drilling, indicate the intervals in metres at which the samples were taken.

✓ 16. (1) Exploratory drilling by core or non-core method, including diamond or core drilling, and other drilling such as percussion, reverse circulation and auger drilling, is eligible for assessment work credit if the holder of the claim submits legible drill hole logs, suitable for photographic reproduction, in duplicate, a drilling plan and a drill hole section.

16. (2) The drill hole logs shall,

- ✓ (a) identify the hole by number;
- ✓ (b) give the mining claim numbers on which the hole is drilled;
- ✓ (c) indicate the location of the drill hole collar in relation to the grid line co-ordinates, claim posts and identifiable geographic reference points;
- ✓ (d) indicate the angle and azimuth of the hole;
- ✓ (e) indicate the size of the core, or the diameter of the drill hole if bored other than by core drilling;
- ✓ (f) state the starting and completion dates of the drilling;



16. (2) ~~(g)~~ state the name of the drill contractor; ~~(gabled Fibers)~~  
~~(h)~~ state the storage location of the core or drill sample material; ~~(post holes on)~~  
~~(i)~~ indicate the thickness of overburden in the core drilling holes;  
~~(j)~~ adequately describe all geological units encountered in terms of their thickness, composition, colour, textures, structure, grain size, degree of sorting, mineralization and alteration, as appropriate;  
~~(k)~~ indicate the total depth of penetration of the drill hole in bedrock and unconsolidated material;  
~~(l)~~ indicate the location and type of all samples taken for assay or physical tests;  
~~(m)~~ state the date of completion of the log;  
~~(n)~~ contain the printed name and signature of the author of the logs; and  
~~(o)~~ provide a legend of all symbols or abbreviations used in the logs.

16. (3) The drilling plan map shall be on durable paper, suitable for photographic reproduction, and shall,

- ~~(a)~~ be at a scale between 1: 5000 and 1: 10;  
~~(b)~~ contain a graphic or bar scale and show the magnetic north and the declination;  
~~(c)~~ show all lakes, streams and other notable topographic features, and all relative cultural features such as railroads and hydro lines;  
~~(d)~~ accurately show all claim boundaries, claim posts, township boundary lines, roads, lot and concession lines, base lines, picket lines and survey stations where identifiable, in relation to topographic features; and  
~~(e)~~ show the location of drill hole collars and the numbers, angles and depths of all drill holes in relation to clauses (2) (c), (d) and (e) in such a manner that relocation of the hole is simplified.

16. (4) The drill hole section shall be on durable paper, suitable for photographic reproduction, and shall,

- ~~(a)~~ indicate the rock types or type of material intersected;  
~~(b)~~ be at a scale between 1: 5000 and 1: 10;  
~~(c)~~ contain a bar or graphic scale;  
~~(d)~~ give the astronomic azimuth of the hole;  
~~(e)~~ show co-ordinate lines corresponding with those shown on the drilling map;

16. (4) (f) ✓ indicate the total length of the hole;  
(g) ✓ contain a legend for codes or symbols corresponding to unconsolidated materials, mineralization and structure;  
(h) ✓ show the location of the unconsolidated materials and mineralization designated by code or symbol corresponding to those mentioned in clause (g);  
~(i) indicate the mining claim number on which the hole is drilled; and  
(j) ✓ show the number and angle of the drill hole.
16. (5) Overburden drilling designed specifically to sample unconsolidated materials is eligible for assessment work credit if the holder of the claim submits legible drill hole descriptive logs, a drilling plan map and a drill hole graphic section.
16. (6) The drill hole descriptive logs shall be suitable for photographic reproduction, in duplicate, and shall,
- (a) describe the stratigraphy of the materials encountered as to type of material, thickness, colour, textures, structure, grain size, degree of sorting and mineralization; and
  - (b) describe the type of bedrock penetrated, if reached.
16. (7) The drilling plan map shall be on durable paper, suitable for photographic reproduction, and shall,
- (a) be at a scale between 1: 5000 and 1: 10;
  - (b) contain a graphic or bar scale and show the north direction indicating whether astronomic or magnetic;
  - (c) show all lakes, streams and other notable topographic features, and all railways, roads, trails, power lines, pipelines and buildings;
  - (d) accurately show all claim boundary lines, claim posts, township boundary lines, lot and concession lines, base line, picket lines and survey stations in relation to topographic features;
  - (e) show any co-ordinate lines established for reference purposes;
  - (f) show the location of the drill hole collars, the numbers and angles of all drill holes in relation to topographic features and survey, grid and co-ordinate lines; and
  - (g) show survey stations and markers in such a manner that they can be located on the ground by persons unfamiliar with the area.

16. (8) The drill hole graphic section shall be on durable paper, suitable for photographic reproduction, and shall,

- (a) illustrate the overburden, the rock types and mineralization intersected;
- (b) contain a graphic or bar scale;
- (c) give the azimuth direction of the hole indicating whether astronomic or magnetic;
- (d) show co-ordinate lines corresponding with those shown on the drilling plan map and UTM co-ordinates if possible;
- (e) indicate the total length of the hole;
- (f) contain a legend indicating by letters, numbers or symbols the unconsolidated materials and mineralization intersected in the hole;
- (g) show the location of the unconsolidated materials and mineralization designated by letters, numbers or symbols corresponding with those in the legend mentioned in clause (f);
- (h) show the number of the mining claim on which the hole is drilled; and
- (i) show the number of the drill hole.

16. (9) A holder of a mining claim who performs a program of diamond drilling or overburden drilling on it is eligible for an assessment work credit, in addition to that claimed elsewhere under this section, of 4 per cent of the cost of the drilling program if the appropriate resident geologist is advised that the holder does not wish to retain the core and samples.

16. (10) The holder of the mining claim shall,

- (a) dispose of the core and samples in an appropriate manner under the conditions of the holder's work permit issued under the Public Lands Act or the Forest Fires Prevention Act; or
- (b) if clause (a) does not apply and the resident geologist so requests, deliver the core and samples at the holder's sole expense to the nearest core library or to another location designated by the resident geologist.

10. (1) The types of physical work eligible for assessment work credit are,
- (a) manual and mechanical overburden stripping;
  - (b) bedrock trenching;
  - (c) shaft sinking;
  - (d) driving adits;
  - (e) open cutting;
  - (f) digging pits;
  - (g) recutting claim lines once every five years; and
  - (h) dewatering of underground workings.
10. (2) Physical work submitted for assessment work credit shall be supported by,
- (a) a brief report of work outlining,
    - (i) the nature of the rocks and the mineralization exposed,
    - (ii) all assay results of any samples taken,
    - (iii) the type of equipment used,
    - (iv) the hours and dates that the equipment was used and the hourly rates for each, and
    - (v) where there is any recutting of claim lines, the location of claim lines, claim posts and geographic, geologic and exploration features; and
  - (b) a legible, uncoloured, detailed map of the working on durable paper at a scale between 1: 5 000 and 1: 10 suitable for photographic reproduction, showing,
    - (i) the location of trenches and stripping areas in relation to the mineral disposition boundaries, claim lines, claim posts and topography, and any survey, grid or co-ordinate lines, survey stations, roads or trails,
    - (ii) the dimensions of workings, trenches and stripping,
    - (iii) the plan of sampling, and
    - (iv) a graphic or bar scale and the north direction and indicating whether the bearing is astronomic or magnetic.
10. (3) Line cutting and ground control surveys are eligible for assessment work credit only if accompanied by a report of a geological, geophysical, geochemical or other survey performed on the lines.
10. (4) Subsequent line cutting and ground control surveys are not eligible for assessment work credit unless new lines have been cut or the existing grid re-established for that survey.
10. (5) The grid or picket lines on the surveys shall be established and located with respect to base lines, claim posts and readily identifiable topographic features.

9. Prospecting work performed after the recording of a mining claim is eligible for assessment work credit at a rate of \$ 150 per day if the holder of the claim submits,

- (a) a work report describing in detail the nature and content of the work and the observations made during performance of the work;
- (b) a plan of the mining claim drawn in ink on durable paper at a scale of between 1: 100 and 1: 5 000 showing,
  - (i) the location of all traverses,
  - (ii) the location of all outcrops investigated and rock types, mineralization, and trenches,
  - (iii) any established survey lines and stations,
  - (iv) any roads, trails and any other distinctive topographic features,
  - (v) a graphic or bar scale and the north direction and indicating whether the bearing is astronomic or magnetic,
  - (vi) the dates on which the work was performed,
  - (vii) the license numbers and printed names and signatures of persons who performed the work,
  - (viii) the mining claim clearly identified by outline and claim post locations, and
  - (ix) the character of the overburden including boulders, clay, gravel, sand and the distribution of swamp, muskeg and forest cover areas along all lines traversed particularly where no outcrop is found and identified; and
- (c) within 60 days after the submission of the report referred to in clause (a), the location, sample numbers and results of all sampling and assays performed.

# Report of Work Conducted After Recording Claim

Mining Act

MINING LANDS

Transaction Number

W4470.00216

Personal information collected on this form is obtained under the authority of the  
this collection should be directed to the Provincial Manager, Mining Lands, 1  
Sudbury, Ontario, P3E 6A5, telephone (705) 670-7284.



41J08NE0012 2.15668 CADEAU

900

- Instructions:
- Please type or print and submit in duplicate.
  - Refer to the Mining Act and Regulations for requirements of Mining Assessment Work or without the Recorder.
  - A separate copy of this form must be completed for each Work Group.
  - Technical reports and maps must accompany this form in duplicate.
  - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder <b>QUARTER MINERAL DEVELOPMENT INC</b>		Client No. <b>300434</b>
Address <b>487 BOUCHARD ST.</b>		Telephone No. <b>705 522-2700</b>
Mining Division <b>SUDBURY</b>	Township/Area <b>CADEAU BOON</b>	M or G Plan No. <b>G2950/63180</b>
Date Work Performed From: <b>APRIL 18/94</b>	To: <b>JUNE 28/94</b>	

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	
Physical Work, including Drilling	<b>D.D.H./Logging CLEARING, STRIPPING, GEO. MAPPING, PROTECTING</b>
Rehabilitation	<b>TRENCH FILLING &amp; REHAB STRIPPED AREA (ATTACHED)</b>
Other Authorized Work	<b>SECTION 18 ONLY</b>
Assays	
Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ **90,180**

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
<b>AUTHORS: JOHN CLARK</b>	<b>105 FIRST ST. MASSER O.N.T. P.O.P 1P0</b>
<b>NORM CECUTTA</b>	<b>487 BOUCHARD ST. SUD. ONT.</b>

RECORDED

OCT - 7 1994

(attach a schedule if necessary)

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

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date <b>oct/7/94</b>	Recorded Holder or Agent (Signature) 
--	-------------------------	--

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 <b>ED ROSE</b>		
Telephone No. <b>705 524-7567</b>	Date <b>oct/7/94</b>	Certified By (Signature) 

For Office Use Only

Total Value Cr. Recorded <b>Applied 714,891</b> <b>Revised 75,289</b>	Date Recorded <b>Oct. 7/94</b> Deemed Approval Date <b>June 1995</b> Date Notice for Amendments Sent	Mining Recorder 	Received Stamp <b>SUDBURY MINING DIV. RECEIVED</b> <b>OCT 07 1994</b> A.M. 
---	--	---------------------	---



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

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute 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<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs **CADREAU TWP.**

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	15 000	
	Field Supervision Supervision sur le terrain	3 000	18 000
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type <b>GEOLOGICAL</b>	8 000	
	<b>SITE PLAN LAYOUT.</b>	10 000	
	<b>MINES BLASTING</b>	3 208	21 208
Supplies Used Fournitures utilisées	Type <b>BITS OIL, GAS</b>	3 329	
	<b>HYDROCORR</b>	1 331	
			4 660
Equipment Rental Location de matériel	Type <b>D.D. eqpt</b>	9 210	
	<b>BACKHOE</b>	10 148	
	<b>BLADE CHAIN SAWS</b>	9 325	28 683
<b>Total Direct Costs Total des coûts directs</b>			<b>72 551</b>

2. Indirect Costs/Coûts indirects **CLIENT # 300434**

\*\* 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	3 002	
			3 002
Food and Lodging Nourriture et hébergement		1 954	1 954
Mobilization and Demobilization Mobilisation et démobilité		3 782	3 782
<b>Sub Total of Indirect Costs Total partiel des coûts indirects</b>			<b>8 738</b>
<b>Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)</b>			<b>8 738</b>
<b>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)</b>			<b>81 289</b>

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
81 289	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 A GRANT I am authorized (Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

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

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

à faire cette attestation.

Signature [Signature] Date oct 7/95



for Assessment Credit  
État des coûts aux fins du crédit d'évaluation

W8470.0016

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, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute 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<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

BOON  
Temp

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	5895	6895
	Field Supervision Supervision sur le terrain	1000	
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type Geological	1000	1000
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type QUADE CHAIN SANS	525	525
Total Direct Costs Total des coûts directs			8420

2. Indirect Costs/Coûts Indirects

CLIENT #  
300434

\*\* 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 Pick up	300	300
Food and Lodging Nourriture et hébergement		171	171
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			471
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			471
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)			8891
Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			8891

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
8891	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 AGENT I am authorized  
(Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

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

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

à faire cette attestation.

Signature [Signature] Date oct/7/95

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

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

Telephone: (705) 670-5841  
Fax: (705) 670-5863

February 06, 1995

Our File: 2.15669  
Transaction #:W9470.00216

Mining Recorder  
Ministry of Northern Development  
and Mines  
933 Ramsey Lake Road  
3rd Floor  
Sudbury, Ontario  
P3E 6B5

Dear Mr. Denomme:

**RE: APPROVAL OF NOTICE OF DEFICIENCY/REDUCTION ISSUED ON MINING CLAIMS  
1179609 & 1179415 IN BOON & CADEAU TOWNSHIPS**

The deficiencies outlined on the notice of reduction/deficiency dated December 20, 1994 have been rectified. Accordingly, the allowable assessment credit for this submission is \$63,459.00.

The approval date is February 03, 1995.

If you require additional assistance in this matter please contact Steven Beneteau at (705) 670-5858.

ORIGINAL SIGNED BY:



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

SBB  
SBB/jl  
Enclosure:

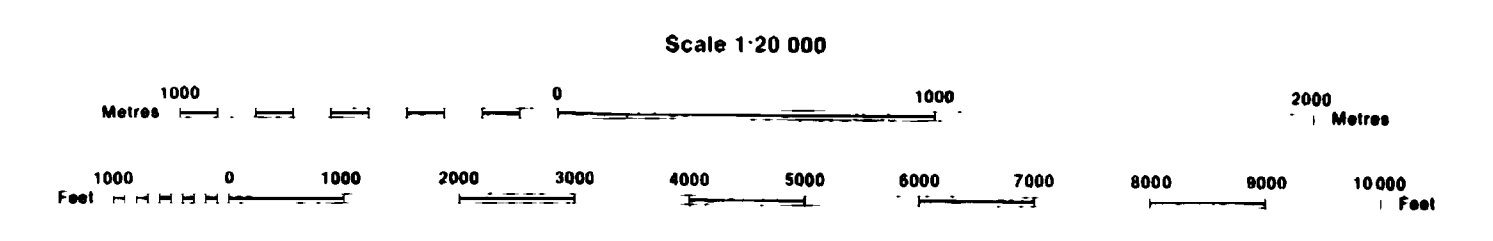
cc Assessment Files Office  
Sudbury, Ontario

Resident Geologist  
Sudbury, Ontario

INDEX TO LAND DISPOSITION

PLAN  
G-3180  
TOWNSHIP  
BOON

M.N.R. ADMINISTRATIVE DISTRICT  
ESPANOLA  
MINING DIVISION  
SUDBURY  
LAND TITLES/REGISTRY DIVISION  
ALGOMA



OMIP APPLICATION 1994 QUARZEL MINERAL DEVELOPMENTS INC.

AREAS WITHDRAWN FROM DISPOSITION

MRO - Mining Rights Only  
SRO - Surface Rights Only  
M + S - Mining and Surface Rights

Description	Order No	Date	Disposition	File
SEC 36/80	W 2/83	5/2/83	SRO	17084
SEC 36/80	W98/86		MBS	
SEC 185(I)	W S 50/93	93/09/02	MBS	195150
SEC 185(I)	W.S. 51/93	93/09/15	MBS	195150

SYMBOLS

- Boundary
- Township Meridian Baseline
- Road allowance, surveyed
- shoreline
- Lot/Concession, surveyed
- unsurveyed
- Parcel surveyed
- unsurveyed
- Right-of-way, road
- railway
- utility
- Reservation
- Cliff, Pit, Pile
- Contour
- Interpolated
- Approximate
- Depression
- Control point (horizontal)
- Flooded land
- Mine head frame
- Pipeline (above ground)
- Railway single track
- double track
- abandoned
- Road, highway, county, township
- access
- trail, bush
- Shoreline (original)
- Transmission line
- Wooded area
- M17, N.H. QUARZEL DEPOSIT...

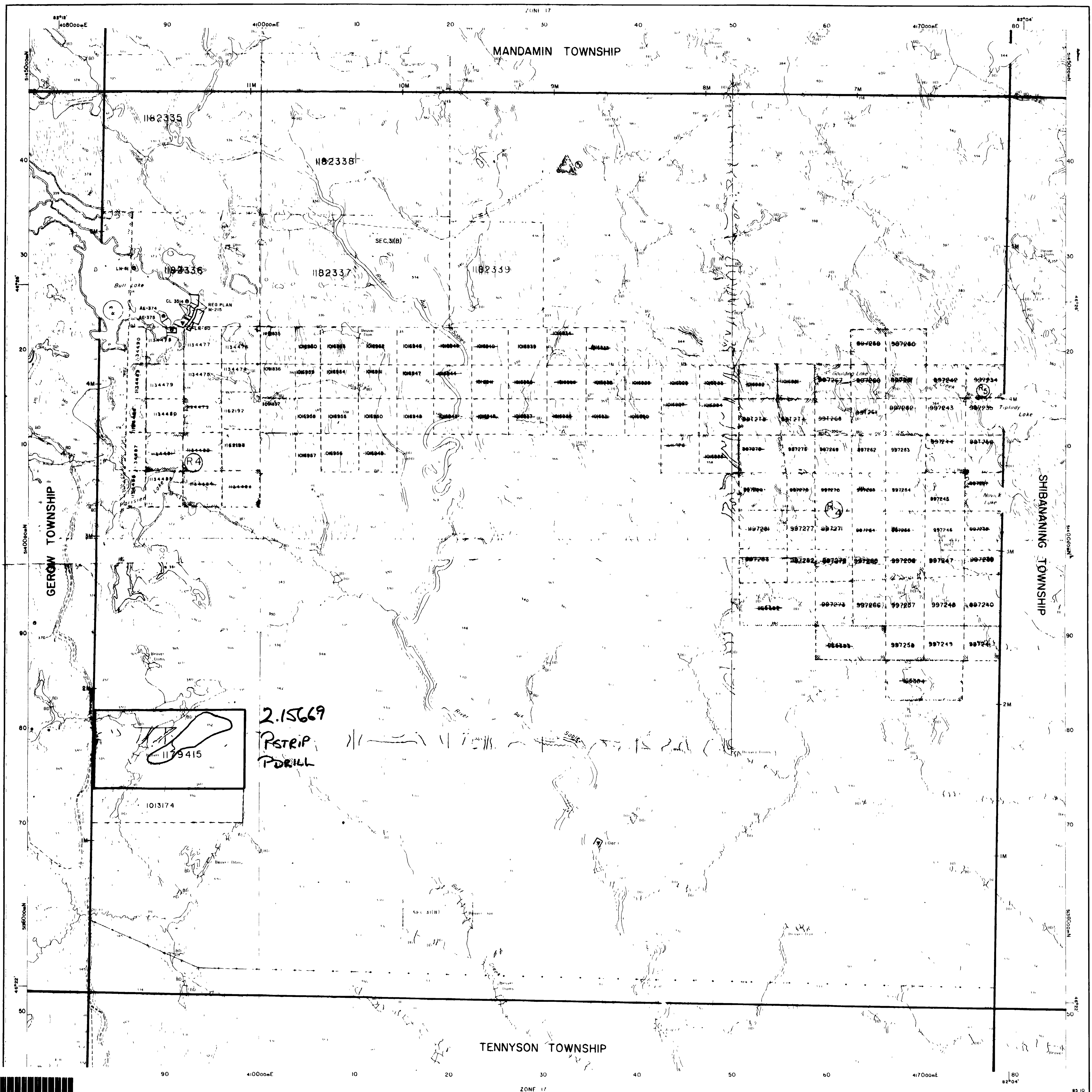
TOWNSHIP SUBJECT TO FORESTRY OPERATIONS

DATE OF ISSUE  
MAR 23 1994  
SUDBURY  
MINING RECORDER'S OFFICE

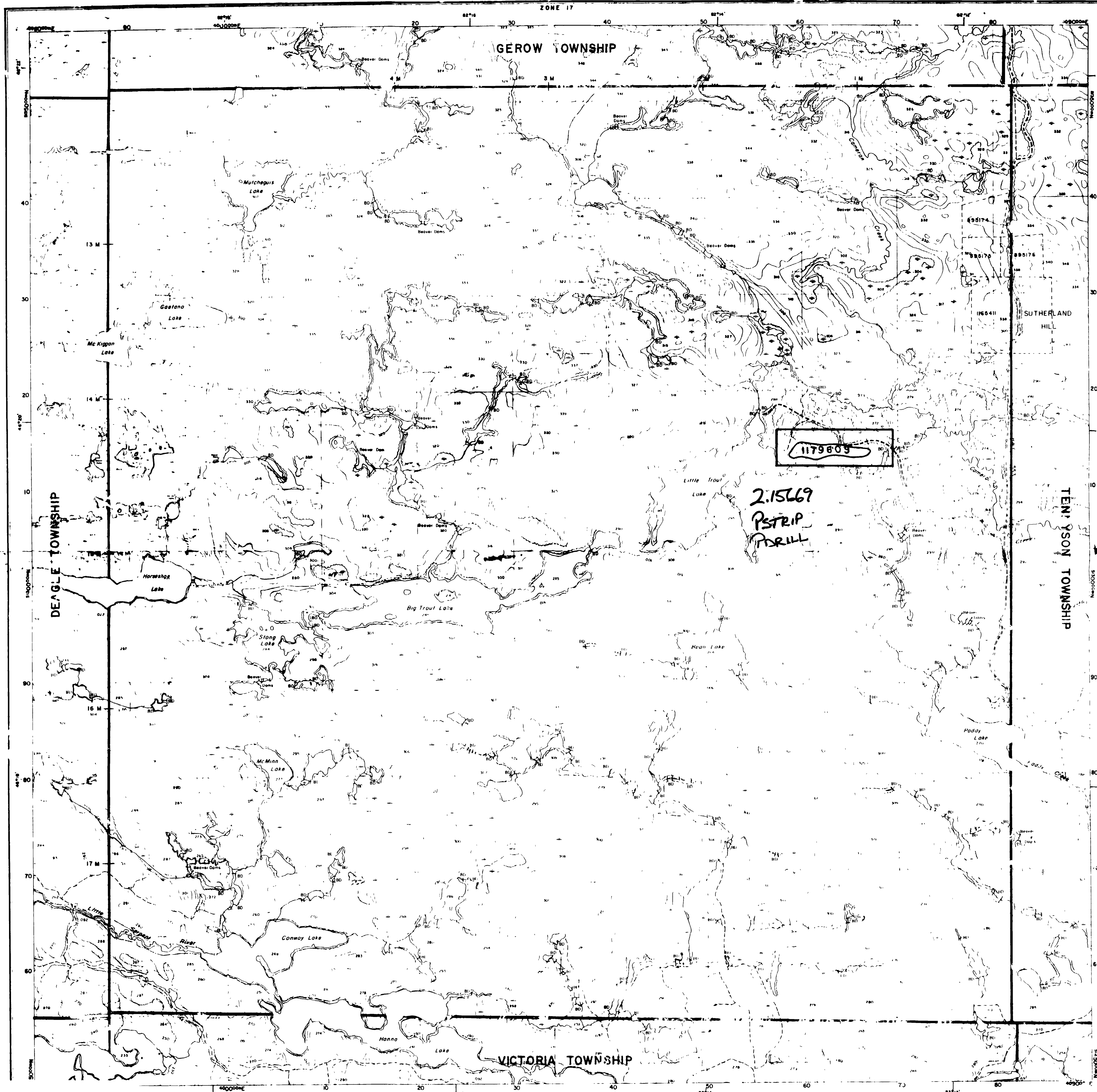
DISPOSITION OF CROWN LANDS

- 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
- Cancelled
- Reservation
- Sand & Gravel

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



2.15669  
RSTRIP  
PDRILL

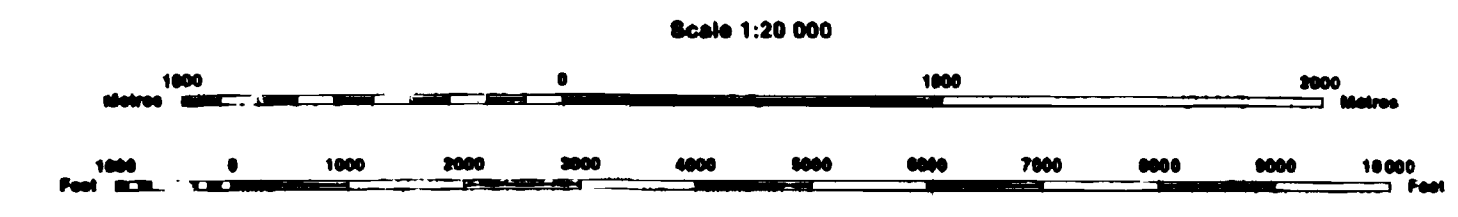


### INDEX TO LAND DISPOSITION

PLAN  
**G-2950**  
 TOWNSHIP

M.N.R. ADMINISTRATIVE DISTRICT  
**ESPANOLA**  
 MINING DIVISION  
**SUDBURY**  
 LAND TITLES/REGISTRY DIVISION  
**ALGOQUA**

## CADEAU



OMP APPLICATION 1994 QUARTEZ MINERAL DEVELOPMENTS INC

**AREAS WITHDRAWN FROM DISPOSITION**  
 MRO - Mining Rights Only  
 SRO - Surface Rights Only  
 M + S - Mining and Surface Rights

### SYMBOLS

- Boundary
  - Township, Meridian, Baseline
  - Road allowance, surveyed
  - shoreline
  - Lot/Concession, surveyed
  - unsurveyed
  - Parcel, surveyed
  - unsurveyed
  - Right-of-way, road
  - railway
  - utility
  - Reservation
  - Cliff, Pit, Pile
  - Contour
    - Interpolated
    - Approximate
    - Depression
  - Control point (horizontal)
  - Flooded land
  - Mine heap, trench
  - Pipeline (above ground)
  - Railway, single track
  - double track
  - abandoned
  - Road, highway, county, township
  - access
  - trail, bush
  - Shoreline (original)
  - Transmission line
  - Wooded area

**DATE OF ISSUE**  
 March 25 1994  
 SUDBURY  
 MINING RECORDER'S OFFICE

### DISPOSITION OF CROWN LANDS

- 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
- Cancelled
- Reservation
- Sand & Gravel

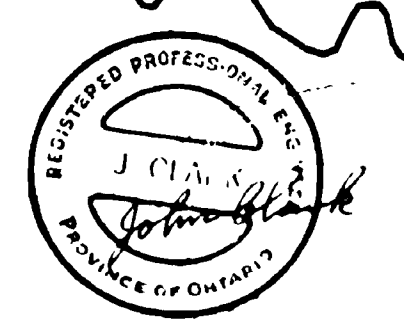
THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

IN SERVICE AUGUST 19, 1992

Map base and land disposition drafting by Surveys and Mapping Branch, Ministry of Natural Resources

The disposition of land, location of lot fabric and parcel boundaries on this index was compiled for administrative purposes only





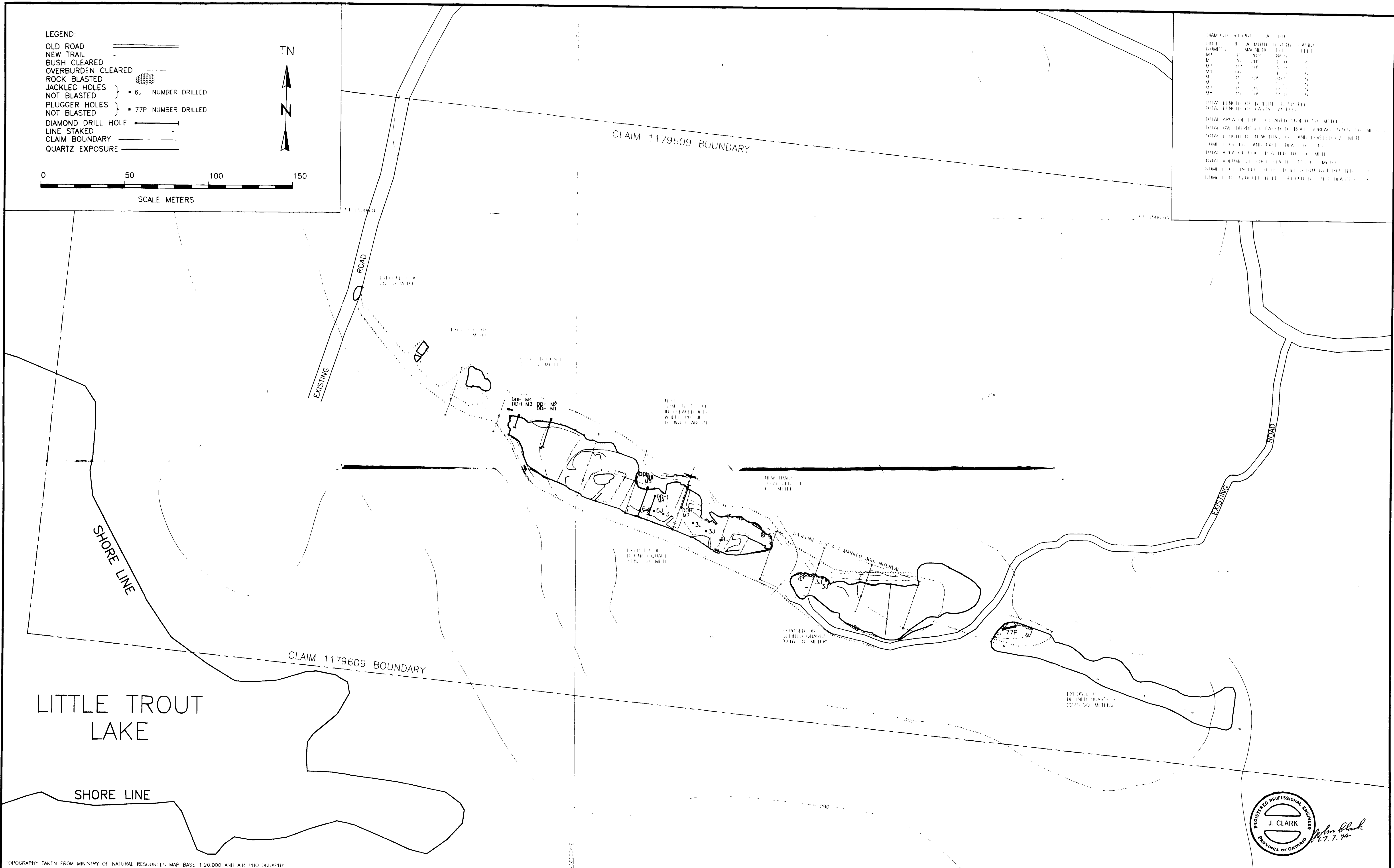
<b>QUARTEC MINERAL DEVELOPMENTS INC.</b>	SCALE	1:5000	TITLE <b>12 MILE SITE          LOCATION OF QUARTZ EXPOSURE</b>	FILE	D4	DWG. NUMBER <b>0001</b>
	DRAWN BY	J. CLARK				
	DATE	7.7.94				



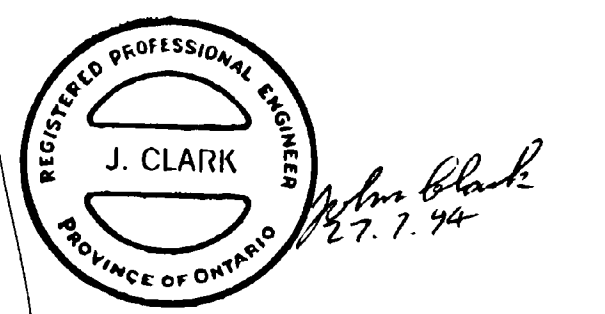
- LEGEND:
- OLD ROAD
  - NEW TRAIL
  - BUSH CLEARED
  - OVERBURDEN CLEARED
  - ROCK BLASTED
  - JACKLEG HOLES } • 6J NUMBER DRILLED
  - NOT BLASTED
  - PLUGGER HOLES } • 77P NUMBER DRILLED
  - NOT BLASTED
  - DIAMOND DRILL HOLE
  - LINE STAKED
  - CLAIM BOUNDARY
  - QUARTZ EXPOSURE



DIAMETER	DEPTH	NUMBER	TYPE
M1	30'	1	DRILLED
M2	30'	1	DRILLED
M3	30'	1	DRILLED
M4	30'	1	DRILLED
M5	30'	1	DRILLED
M6	30'	1	DRILLED
M7	30'	1	DRILLED
M8	30'	1	DRILLED
TOTAL NUMBER OF DRILLED HOLE: 8			
TOTAL LENGTH OF DRILLED HOLE: 240 FEET			
TOTAL AREA OF BUSH CLEARED: 16,400 SQ. METERS			
TOTAL OVERBURDEN CLEARED TO ROCK: 5,000 SQ. METERS			
TOTAL LENGTH OF NEW TRAIL: 400 METERS			
TOTAL AREA OF ROCK BLASTED: 11			
TOTAL AREA OF QUARTZ EXPOSURE: 100 METERS			
TOTAL NUMBER OF QUARTZ EXPOSURE: 10			
TOTAL NUMBER OF JACKLEG HOLES DRILLED: 10			
TOTAL NUMBER OF PLUGGER HOLES DRILLED: 10			



TOPOGRAPHY TAKEN FROM MINISTRY OF NATURAL RESOURCES MAP BASE 1:20,000 AND AIR PHOTOGRAPHY



<b>QUARTEC MINERAL DEVELOPMENTS INC.</b>	SCALE	1:1000	REVISION 'A' PLUGGER AND JACKLEG HOLES ADDED 26.7.94 J.C.	12 MILE SITE SITE WORK COMPLETED	FILL	D4	DWG NUMBER	0002	REV	A
	DRAWN BY	J. CLARK								
	DATE	7.7.94								



LEGEND

QUARRY / EXPOSURE

TRAIL

FAULT

SCHIST ZONE

RUSH

ROCK TYPE'S

QUARTZ Q1Z

WHITE QUARTZ WQ

GREEN QUARTZ GQ

ORANGE/PINK Q1Z PO

DARK GREY Q1Z DWQ

FELDSPATHIC Q1Z FQ

CLARITY QUARTZ CQ

CHLORITE SCHIST ZONE CSZ

ERODED ER

LIGHT LT

DARK DK

GRANITE GR

QUASAZ QU

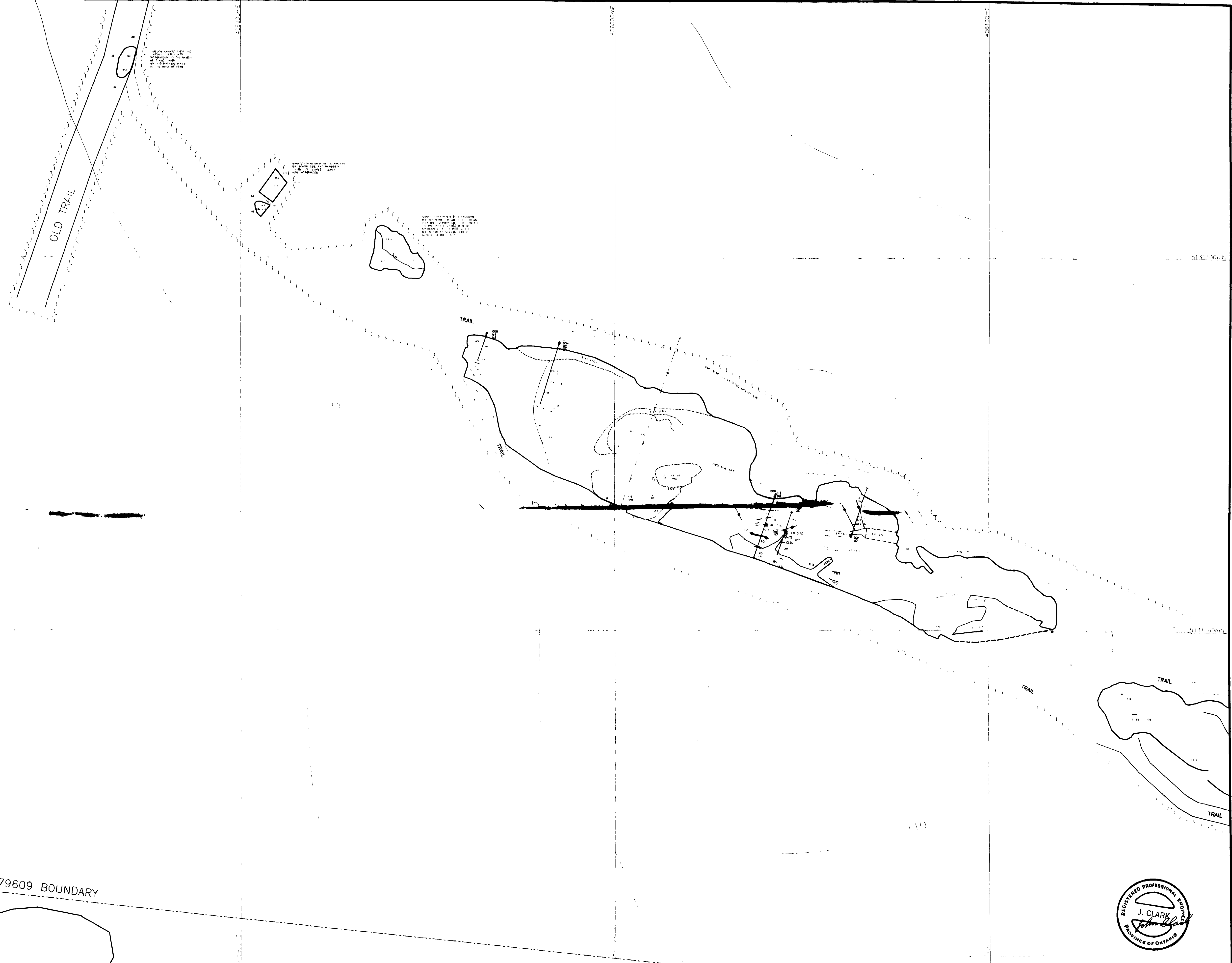
OVERHUNG OB

0 10 20 30 40 50

SCALE METERS

↑ N

↑ Z



<b>QUARTEC MINERAL DEVELOPMENTS INC.</b>	SCALE	1:500	12 MILE SITE GEOLOGY WEST SITE AREA	FILE	D4	2.15669
	DESIGNED BY	J. CLARK		TWO-TIMBER	0003	
	DRAWN	8.7.94		PE-V		



LEGEND

QUARTZ EXPOSURE	---
TRAIL	---
FRACTURE	---
SCHIST ZONE	---
TRASH	---

ROCK TYPE	SYMBOL
QUARTZ	Q1Z
WHITE QUARTZ	WQ
GREEN QUARTZ	GD
ORANGE/PINK Q1Z	PO
DARK GREY Q1Z	DGO
FELDSPATHIC Q1Z	FO
SCHISTY QUARTZ	Q1Y
CHLORITE SCHIST ZONE	Q1SC
FRODED	FR CLS.
LIGHT	LT
DARK	DK
GRANITE	GR
DIAFASIT	DB
OVERHUNG	OB

0 10 20 30 40 50

SCALE METERS



2.15669



C MINERAL  
MENTS INC.

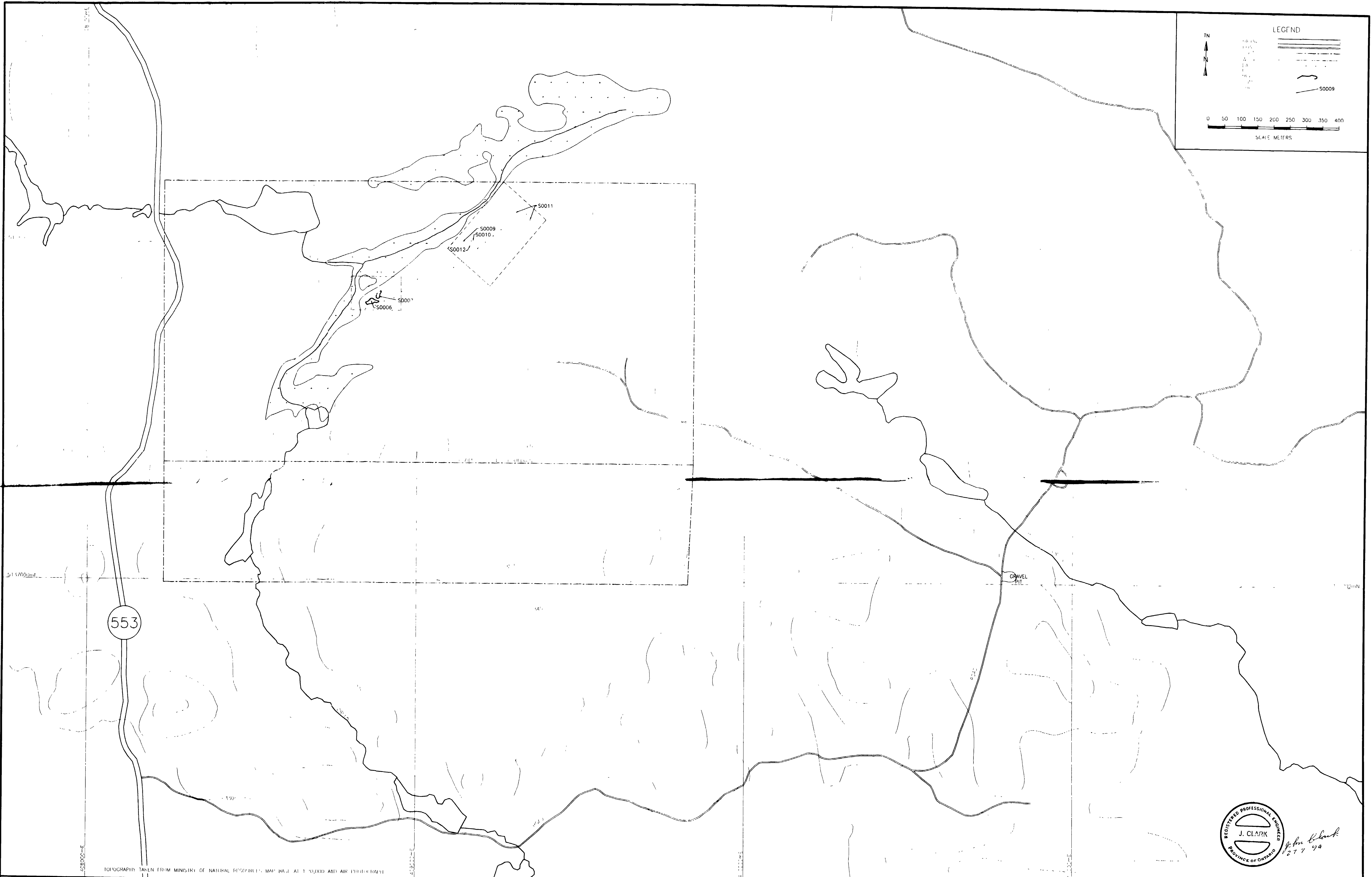
SCALE	1:500
DRAWN BY	J. CLARK
DATE	9.7.94

TITLE

12 MILE SITE  
GEOLOGY EAST SITE AREA

FILE	D4	DWG NUMBER	0004	REV
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LEGEND

0 50 100 150 200 250 300 350 400  
SCALE METERS

553

GRAVEL PIT

REGISTERED PROFESSIONAL ENGINEER  
J. CLARK  
277 98  
PROVINCE OF ONTARIO

QUARTEC MINERAL DEVELOPMENTS INC.

SCALE	1:5000
DRAWN BY	J. CLARK
DATE	25.7.94

19 MILE SITE  
WORK AND SAMPLE LOCATION

FILE	D4	DWG. NUMBER	0005
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