

1115SE0070 0033A1 RATHBUN

©1©
www.suy of Natural Resources
RECEIVED

DEC 7 1983

NORTHEASTERN REGION

MAGNETOMETER SURVEY

OF

MINING CLAIM

538642

RECEIVED

UEC 9 1983

MINING LANDS SECTION

IN

RATHBUN TWP.

OF

RECEIVED

DEC 7 1983

^M. 7|8|9|10|11|12|1|2|1|2|3|4|5|6

SUDBURY MINING DISTRICT

REINO, L. VIITALA.

Reins. L. Vitala.

NOV. 30, 1983,

C- 32251,

Qual. 2.3916



			41115SE0070	0033A1	RATHBUN
י יד דכו או	O TO	COMMENT			

TABLE OF CONTENT	Ø10C	PAGE
INTRODUCTION		1
METHOD		2
CONCLUSION		3
WORK PERMIT		4
INDEX MAP		5
CLAIM MAP - RATHBUN TWP		6
MAGNETOMETER READINGS AND CLAIM GRID MAP		7
MAGNETOMETER CONTOURS MAP		8
MAGNETOMETER PROFILES		9,10
REPORT OF WORK, GEOPHYSICAL		11

## INTRODUCTION

The Magnetometer survey was chosen to determine the relative magnetic characteristics of the two main rock-types within this claim area. Gabbroic outcrops dominate this area, with fine-grained metasediments comprising the south and southeasterly portions. Northeasterly striking Quartz - Carbonate veins intrusively cut both of the rock types.

Correlation with a conductive-axis located earlier by a VLF-survey was confirmed.

This information will be used in conjunction with magnetometer results from Claims 574572 and 574573 to produce a larger map.



A flux-gate McPhar M-700 Magnetometer was used in this survey. The unit was standardized by reading Base station 5509 at the Old Crystal mine site. This bench mark was established by the Ministry of Natural Resources as a control station in this area. It is located on gabbroic outcrop. Readings were taken before and after each daily set of readings to ensure control.

Stations were flagged with tape after chaining with Brunton compass and chain. Each line has a shore-line marker which was used as reference for the lake readings. Stations on water were measured by use of a canoe and orientation with the shore-line markers. Lines 1,2,4,6,8, and 9 were surveyed completely with support readings taken on other lines running from north to south.

Care was taken to free the operator of any metallics and readings were taken when meter was stable with the eye bubble level at bulls eye position. The M-700 has a needle deflection style reading in various scales of Gammas. Battery power stayed in the "Green" throughout the survey.

## CONCLUSIONS

Generally this claim (538642) can be divided in two regions of different magnetic strength. The north-west region, mainly gabbroic rock type measures around 11500 Gammas, whereas the second region, south-east, consists of metasediments intruded by north-east striking Quartz - Carbonate veins and veinlets, and measured higher at 12000 and 13000 Gammas. These values are not anomolous but show relative values in concentrations.

In an earlier VLF-survey, a conductive-axis running NE under the water portion between the South boundary island and the mainland to the North was detected. This axis resulted in the highest magnetometer readings within this claim boundary.

Metallics are apparently more concentrated by the intrusive vein systems in the metasediments than the Gabbroic host rock. Some of these concentrations could be fault-related along Lake Matagasi in and along secondary fault lines or even in stock works systems.

This magnetometer survey indicates that further investigation of the veining systems within the Metasediments is warranted.

Qualifications on file with:

Mr. F.F. Anderson, Director Land Management Branch, Whitney Block, Rm 6450, Queens park, Toronto M7A-1W3



900

Initial Check

ossal Rathbun Initial Check	900	Dec 28, 1983 Mary: Elle Anderson.
Assessed		Apr. 17/84- D.K.
Approved Reports of Wor sent out	·k	
Notice of Intent filed		
Approval after Notice o sent out	of Intent	
Duplicate sent to Resid Geologist	lent	
Duplicate sent to A.F.R	2.0.	

## Work Permit (178)

4

Distribution Part 1 - Permittee

2 - File

3 - Field Office

4 - Other

Under The Forest Fires Prevention Act and the regulations, and subject to the limitations thereof and subject also to the terms and conditions herein, this permit is issued to:

Name of Permittee

REINO L. VIITALA

Post Office Address

RR#17, Site 25, Thunder Bay

To conduct an operation from the 5th day of November, 1983 to and including the 30th day of November, 1983 to and including the 30th day of November, 1983, on the following work permit area:

RATHBUN Township - Lots 5,6 Con.IV
Mining Claims 574572,575573,538642

For the purpose of Geophysics (Magnetometer)

### Subject to the following conditions

- 1. The Permittee shall keep this permit or a true copy thereof on the work permit area.
- 2. The person in charge of the operation conducted under this permit shall produce and show this permit or the true copy kept on the work permit area to any officer whenever requested by the officer.
- 3. Other conditions:

Place of Issue

McFarlane Lake Sudbury District Date of Issue

| | /

of Issuing Officer

**Important** 

Separate authority must be obtained before cutting any timber and before doing any burning.

This permit does not authorize the permittee to carry on operations on privately held land, as such authority can be given ally by the owner of the land.

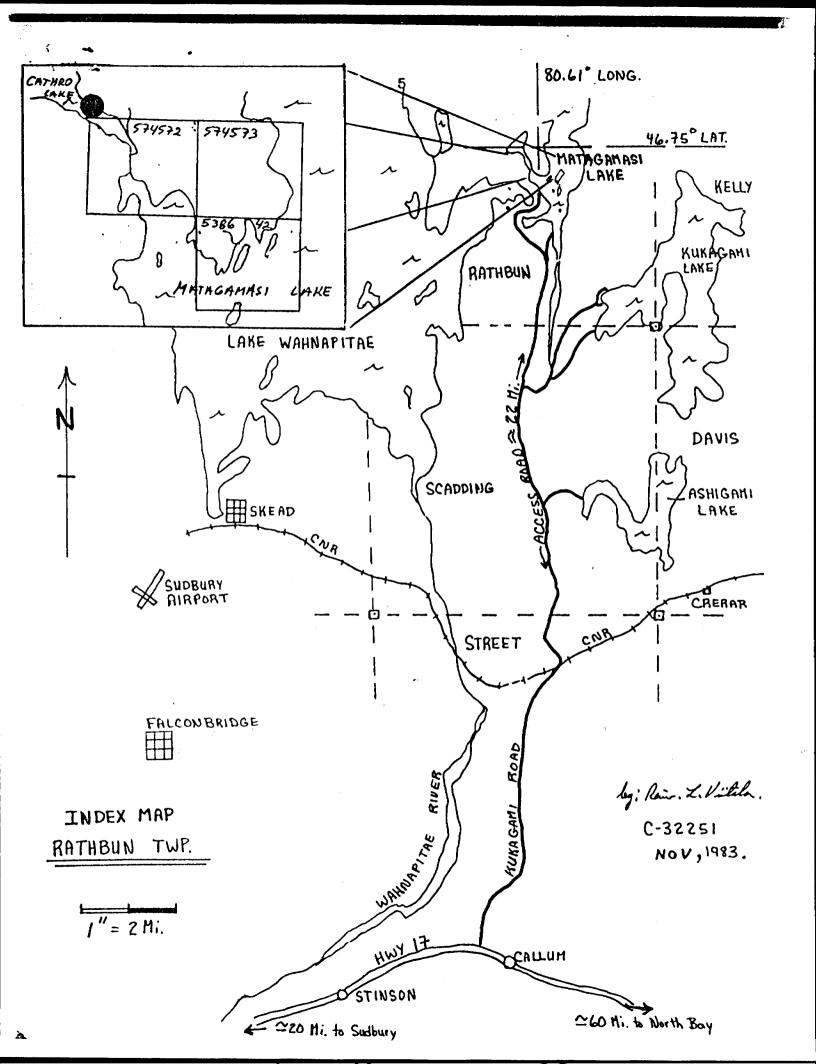
Oct.25, 1983

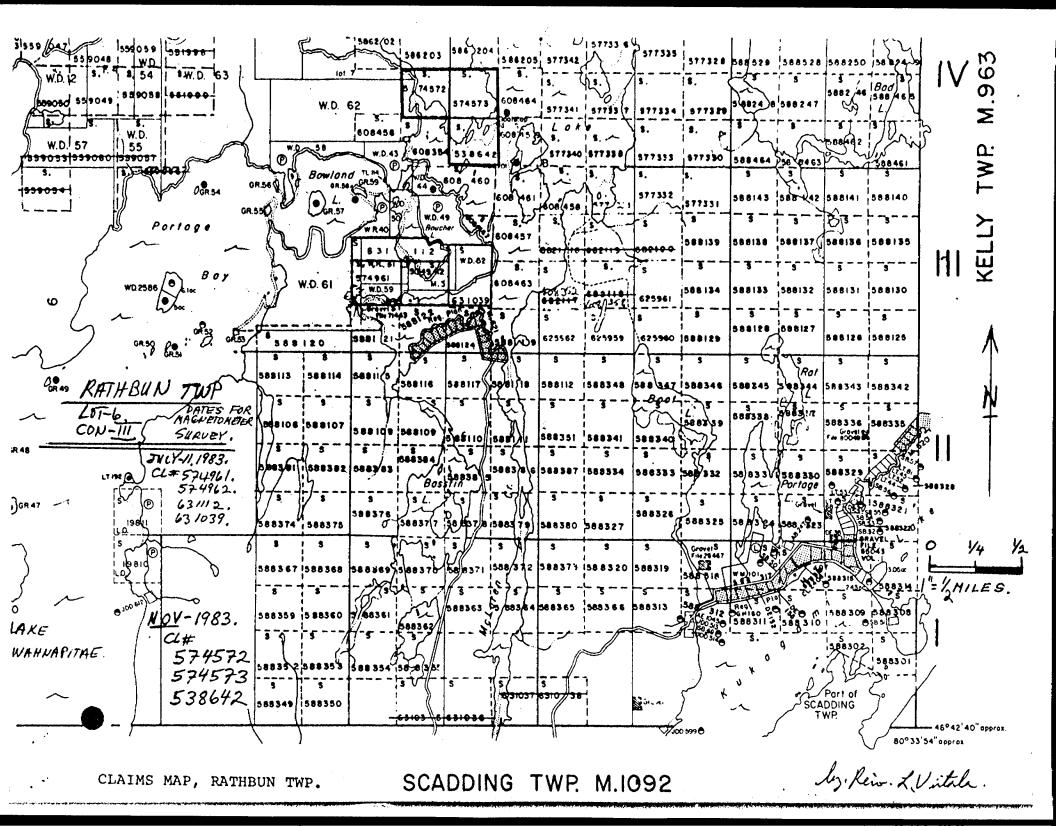
199 (2/77)

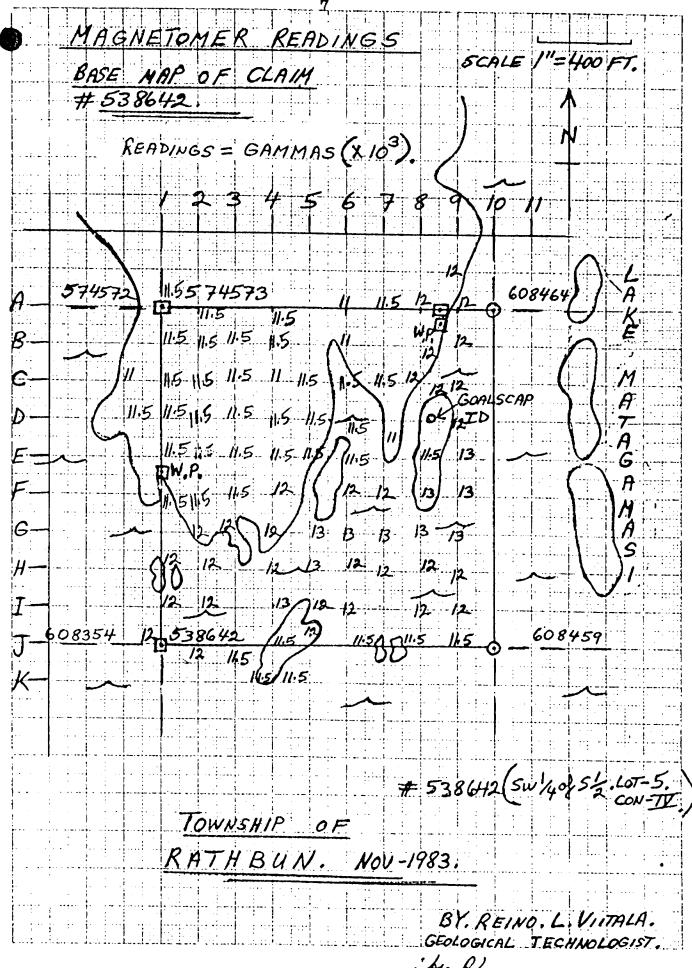
#### Extracts from The Fores: Fires Prevention Act

- Section 15. (1) Except under the authority of a work permit, no possibility of some shall, in or within 1,000 feet of a forwoodland,
  - (a) carry on any logging, mining or industrial operation;
  - (b) clear land;
  - (c) construct a dam, bridge or camp;
  - (d) operate a mill for the purpose of manufacturing timb-; or
  - (e) carry on any operation liable to cause the accumulation of slash or debris.
- (2) A work permit may be limited as to duration and area, but in any event it expires with the 31st day of March next following the date of issue and may contain such terms and conditions as the issuing officer deems necessary.
- (3) An officer may in the interest of forest protection cancel or suspend a work permit at any time.
- (4) Where an officer finds an operation mentioned in subsection 1 being conducted without a work permit, he may order that the operation shall cease until a work permit has been obtained and any person carrying on an operation after such order has been made is, in addition to any penalty imposed, subject to a fine of \$100 for each day such operation is continued without a work permit.
- (5) Where a person carries on an operation mentioned in subsection 1 through a servant, contractor, subcontractor or someone on his behalf, he shall obtain any permit required under this Act and he shall be deemed to have committed any offence against this Act or the regulations committed by his servant, contractor, subcontractor or person acting on his behalf in carrying out the operation.

and artifula a trioritier flooring. For this payon is seen to be earlied

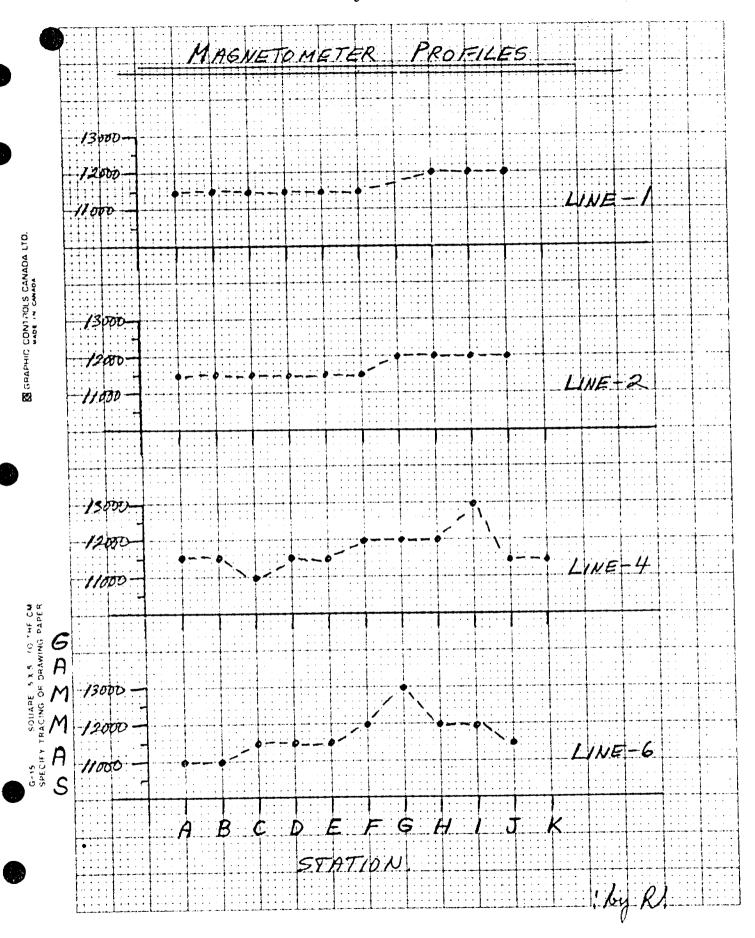


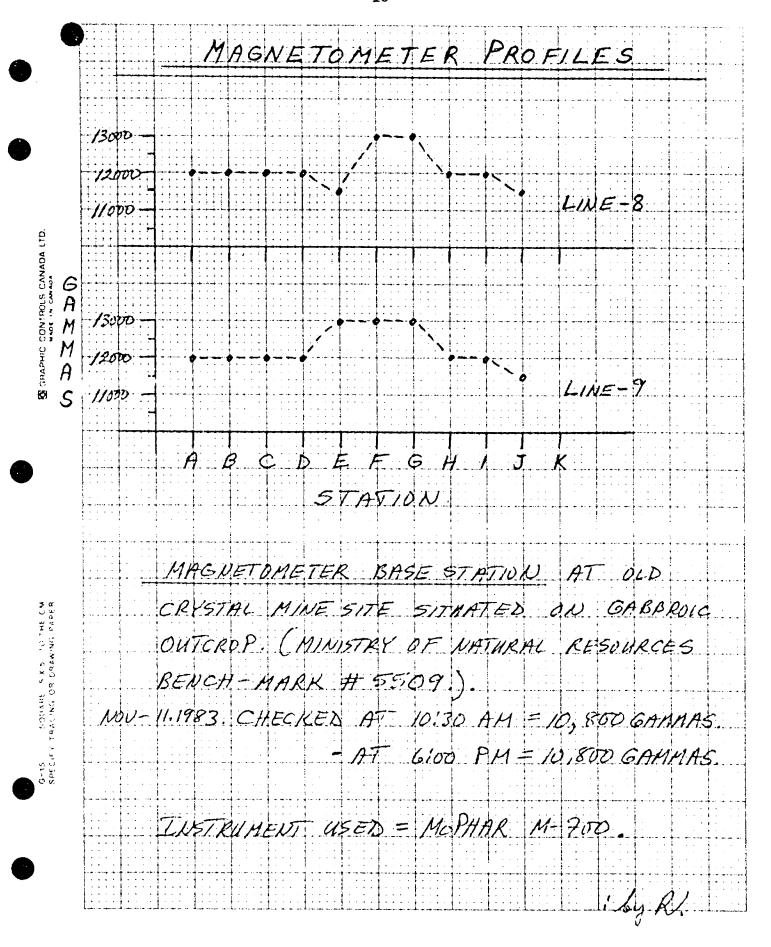




iby D.

# 538642:  MAGNETOMETER  CONTOURS.  MAGNETOMETER  CONTOURS.  11 115 115 115 115 115 115 115 115 115								-				
# 538642:  MAGNE TOME TER  CONTOURS  574572 574573 us	1	BASE M	AP OF	CLAIM			50	ALE	/"=	400	FT.	
CONTOURS  574572 574573 15 11 16 168464) A  11 11 5 115 115 115 115 115 115 115 11							1		/	<b>\</b>		
CONTOURS  574572 574573 15 11 16 168464) A  11 11 5 115 115 115 115 115 115 115 11	M	AGNE	TOME	TER	:		1			<b>V</b>		
574572 574573,15  11 11 15 115 115 115 115 115 115 115					25.						- 1	
												بر
										$\wedge$		;-
	5	74572	574	573 <sub>0</sub> c	1	, 2		60	8464	( )	A	
			115 115					9 -			K	
11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5		<b>~</b> /			14	4			/			
# 11,000 GAMMAS.  # 13,000 TOWNSHIP OF  RATHBUN. NOV-1983.					1/15	145	Ga	SCAF		· · · · ( · ·	A	
# 5386H2 (Sw/40) 5/2 .Lot-5.  RATHBUN. NOV-1983.		lan.			135		B	>		$( \ )$	A	
608354 53864 1000 4538642 608459  = 11,000 GAMMAS,  = 11,500  = 12,000  TOWNSHIP OF  RATHBUN, NOV-1983.				5	7/4		3			$\overset{\smile}{\sim}$	G	·
608354 538612 (ISS) US AS US 608459  = 11,000 GAMMAS.  = 11,500 = 12,000 # 538642 (SW/40) S/2.LOT-5. CON-TY  RATHBUN. NOV-1983.  BY. REINO. L. VIITALA.			3 115 11	5 12	12.	120 (3	) 1/ <del>(</del> 13	<b>A</b>			W	
608354 538612 (ISS) US AS US 608459  = 11,000 GAMMAS.  = 11,500 = 12,000 # 538642 (SW/40) S/2.LOT-5. CON-TY  RATHBUN. NOV-1983.  BY. REINO. L. VIITALA.	1 1	-7	120		3. 13 713	13	3 12		!. <u>.</u>		S	
= 11,000 GAMMAS, = 11,500 = 12,000 # 538642 (SW140) S1, LOT-5. CON-IV RATHBUN. NOV-1983.		(	120 /2	12	3-12	12 12	/2	-		-	) [	
= 11,000 GAMMAS, = 11,500 = 12,000 # 538642 (SW140) S1, LOT-5. CON-IV RATHBUN. NOV-1983.			12 12		h		- de	•				
# 538642 (SW 140) S1, LOT-5.  # 538642 (SW 140) S1, LOT-5.  # CON-TY  RATHBUN. NOV-1983.  BY. REINO. L. VIITALA.	608	354	3386	F (1150)	115	13	1	<b>♦</b> —	608	459		
# 538642 (SW 140) S1, LOT-5.  # 538642 (SW 140) S1, LOT-5.  # CON-TY  RATHBUN. NOV-1983.  BY. REINO. L. VIITALA.				(119) 1	5							
# 538642 (SW 140) S1, LOT-5.  # 538642 (SW 140) S1, LOT-5.  # CON-TY  RATHBUN. NOV-1983.  BY. REINO. L. VIITALA.												/
RATHBUN. NOV-1983.  BY. REINO. L. VIITALA.				5,				/_		/		
RATHBUN. NOV-1983.  BY. REINO. L. VIITALA.	200 0 500		<b>A</b>			#.	5386	12 (Su	1/40	\$55	CON	-3. -TV
BY. REINO. L. VIITALA.		7,0,00	TOWN									
			KATH	BUN	1. N	ov -19	83.		· · · · · · · · · · · · · · · · · · ·	1		•
							RY	0 1-11	2 /	Vii	70//	1
lis R'.							GEOLOG	ICAL .	,			







Ministry of Natural Resources Ássessment Work Breakdown

Market and the state of the sta

2.6138

1.	Type of Survey MAGNETOMETER - GEOPHYSICAL
2.	Township or Area RATHBUN TWP. LOT-52 CON-IV.
3.	Numbers of Mining Claims Traversed by Survey $1-538642$
	Number of Miles of Line Cut Albertal ETABLEHED GRID Flown
<b>*</b> 5.	Number of Stations Established84
*6.	Make and type of Instrument Used FLUX-GATE ACPUAR M-700 MAONETOMETER
<b>*</b> 7.	Scale Constant or Sensitivity GAUNTS (4103)
*8.	Frequency Used and Power Output
9.	Summary of Assessment Credits (details on reverse side)  Total 8 hour Technical Days (Include Consultants, Draughting etc.)
	Total 8 hour Line-Cutting Days
	$\frac{28}{1000000000000000000000000000000000000$
	The dates listed on this form represent working time spent entirely within the limits of the above listed claims  Check  If otherwise, please explain
	Dated: apr 7/84. Signed: Reio X. Vital
	Dated: agen 7/84. Signed: Reion L. Vittle  Notet - To reasses survey to # of mandages warked  from previous expanditives assessment, File 2,6138.
	Note: (A) * Complete only if applicable.  (B) Complete list of names, addresses and dates progresses side.  (C) Submit separate breakdown for each type of survey. Living (D) Submit in duplicate.
	APR 1 6 1984
	MINING LANDS SECTION

# Details of Assessment Work Breakdown

FIELD WORK				Number of	
Type of Work N	ame & Address	Dates Worke	<u>d</u>	8 hour day	<u>/ 8</u>
1)-Plagging echnining	Rejuo Vima	LA NOV-11	1983		
STATIONS ALLING	SHIRLEY REMINE	w ww-ll,	1983		.
OLD GRID-LINES. 2) - MAGNETOMETER.	READINGS-KEIN	O VITALA - NIV	-12,11983	1	•
CONSULTANTS					<b>ل</b> ه .
Name & Address Da	tes Worked (specify	in field or offic	e)	Number of 8 hour day	/ S
		·			. ]
DRAUGHTSMAN, TYPING, OTHER	S (specify)			Number of	
Name & Address	Type of Work	Dates Worke	<u>d</u>	8 hour day	<u>/ S</u>
REIND, L. VIITALA - CO	MRUHTUUUS S.T.) 1APS .	PING-Dec. 4.	1983	/	
		TOTAL 8 HOUR TO	ECHNICAL DAYS	4	
LINE-CUTTING				Number of	
Name Addre	88	Dates Worked		8 hour day	<u>'S</u>
					.
		TOTAL 8 HOUR LINE	-CUTTING DAYS		



1593 (81/10)



Geotechnical Report Approval 2.6138

Mining Lands C								
	-109	nice can	rcelled ch weakdawn	egues a	nd recei	pt .		
	~ ^	Caviles b	neak dawn	si man	days	and # s	credits rea	avested
		7.111-22		8	7	7		/
		and the same of th	and a supplication of the					
			and the state of t					
			and the second s					
· · · · · · · · · · · · · · · · · · ·						<u>,</u>		
To: Geophysic	· M1.1	2. Barlu	U					
Comments								
	<u> </u>		mananta reside représenta di semantano, moment de semant					
					·		andre Maghalandakin dayaan aaray da dayaan da da ahaa	
		والمراقبة	·					
1								
Approved		h to see again w	dth corrections		Date	13/84	Signature	Zh
					Dete	13/84	Signature	Zh
			C. Krusta		Date	13/84	Signature	Zolu
To: Geology -					Dete	13/84	Signature	Zh
To: Geology -					Dete	13/84	Signature	Zh
To: Geology -					Date	13/84	Signature	Zhu_
To: Geology -					Date	13/84	Signature	Z.lu
To: Geology -					Date	/ 3/8F	Signature	2.60
To: Geology -	Expenditur	es Mr. (	C. Krusta		Date	13/84	Signature	2.60
To: Geology - Comments	Expenditur		C. Krusta			/ 3/8F		2.60
To: Geology - Comments  Approved To: Geochemi	Expenditur	es Mr. (	C. Krusta			/ 3/8F		2.60
To: Geology - Comments	Expenditur	es Mr. (	C. Krusta			13,/84		2.60
To: Geology - Comments  Approved To: Geochemi	Expenditur	es Mr. (	C. Krusta			/ 3,/8F		2.60
To: Geology - Comments  Approved To: Geochemi	Expenditur	es Mr. (	C. Krusta			/ 3,/8F		2.60
To: Geology - Comments  Approved To: Geochemi	Expenditur	es Mr. (	C. Krusta			/ 3,/8F		2.60
To: Geology - Comments  Approved To: Geochemi	Expenditur	es Mr. (	C. Krusta			/ 3,/8F		2.60
To: Geology - Comments  Approved To: Geochemi	Expenditur	es Mr. (	C. Krusta			/ 3,/8F		2.60