2.17520



GEOPHYSICAL REPORT
ON THE HYNES PROPERTY
LANGMUIR TOWNSHIP,
PORCUPINE MINING DIVISION
NORTHEASTERN, ONTARIO

Prepared by: Paul Davis

April 1997



42A06SE0142 2.17520 LANGMUIR

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LIST OF FIGURES:	Figure 1:	Location Map	
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Total Field Magnetic Map POCKET MAPS:

> Contoured Total Field Magnetic Map Contoured 222 Hz In-Phase EM Map Contoured 222 Hz Quadrature EM Map Contoured 1777 Hz In-Phase EM Map Contoured 1777 Hz Quadrature EM Map Contoured 3555 Hz In-Phase EM Map Contoured 3555 Hz Quadrature EM Map



Introduction

Exsics Exploration Limited were retained by Outokumpu Mines Limited to complete a lincutting and geophysical program on a group of patents that were contained as part of an option agreement. The patents are in Langmuir Township of the Porcupine Mining Division of Northeastern Ontario.

The purpose of this program was to test the property's potential for favourable geological structures which would be suitable horizons for base metal deposition. The program commenced on the 21st of September and was completed on the 28th of September, 1996. A total of 5.2 kilometres of grid lines were cut and surveyed on the property. This report will deal with the results of the recent ground program.

Property Location

The Hynes property is located in the west-northwest section of Langmuir Township which is in the Porcupine Mining Division, District of Cochrane, in Northeastern Ontario (Figure 1). More specifically it is situated southeast of the southern tip of Night Hawk Lake and southeast of the Carshaw Mine site in Carman and Shaw Townships. The entire grid is situated approximately 21 kilometres southeast of the Town of South Porcupine (Figure 2).

Access to the property was ideal during the survey period. South Porcupine is serviced by Highway 101 East which travels east from the City of Timmins. A good gravel road, locally called the Langmuir Road, runs south-southeast off of Highway 101 East, through the Town of South Porcupine and eventually terminates at the south end of Night Hawk Lake. This same gravel road crosses the north boundary of the patent group. Access during the survey was by truck to within 3 kilometres of the grid. A short ATV ride allowed access to the northern section of the grid. Travelling time from Timmins to the grid is approximately 30 minutes.

Claim and Patent Group

The patent numbers which form the Hynes property are as follows:

P.19393	P.19666	P.19672	1204465
P.19394	P.19667	P.19673	
P.19396	P.19668	P.19674	
P.19397	P.19671	P.19675	

Personnel

The field crew directly responsible for the collection of all raw data were as follows:

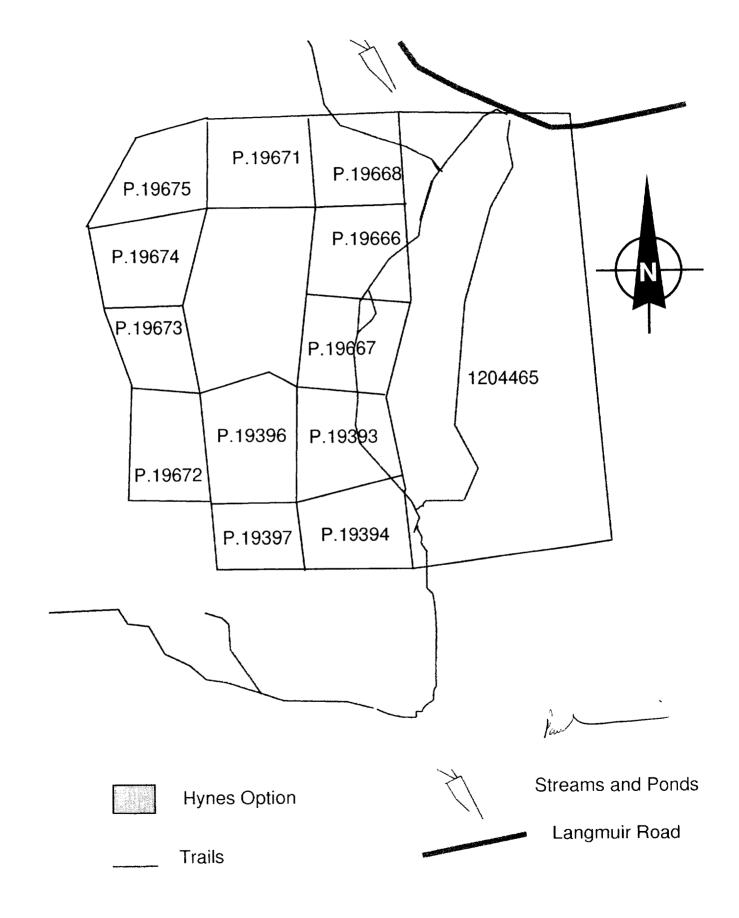
John DerWeduwen	South Porcupine, Ontario
Bruce Pigeon	South Porcupine, Ontario
Norm Collins	Timmins, Ontario

The work was competed under the direct supervision of J.C. Grant, all of the computer compilation was completed by P. Gauthier, and the geophysical interpretations were completed by J.C. Grant, all employees of Exsics Exploration Limited. Plotting of the data was completed by P. Davis of Outokumpu Mines Limited.

Figure 1. Location Map: Hynes Option

Mountjoy Township	Tisdale Township City of Timmins	Whitney Township	Cody Township	
Ogden Township	Deloro Township	Shaw Township	Carman Township	
Price Township	Adams Township	Eldorado Township	HYNES OPTION Langmuir Township	
Fripp Township	McArthur Township	Douglas Township		
Musgrove Township	Bartlett Township	Geikie Township	O	10km
Beemer Township	English Township	Zavitz Township		

Figure 2: Hynes Option- Property Outline



Ground Program

The ground program was completed in two phases. The first phase of the program was to cut a detailed metric grid across the property. This was done by establishing an east-west base line at the southern end of the property. This base line was cut at 230° from line 5900E to and including line 5000E. The line was chained with a 20 metre picket interval. Cross lines were then turned off this base line at 100 metre intervals and cut to the northwest at 320°. All of the cross lines were chained with 20 metre picket intervals. A total of 5.2 kilometres of grid lines were established on the property.

Phase two of the program was to complete a Total Field Magnetic survey as well as a Horizontal Loop Electromagnetic (HLEM) survey across the cut lines. The Magnetic survey was completed using the BRGM, OMNI IV system. Specifications for this system can be found as Appendix A of this report. The HLEM survey was completed using the Apex Parametric, MaxMin II system. Specifications for this system can be found as Appendix B of this report.

The following parameters were kept constant for each survey method throughout the survey period.

Magnetic Survey:

100 metres Line spacing 20 metres Station spacing 10 metres Reading interval

base station recorder Diurnal monitoring

30 seconds Record interval 58570 gammas Reference field 57500 gammas Datum subtract +/- 0.1 gammas Unit accuracy

The collected, corrected and levelled magnetic data was then plotted directly onto a base map at a scale of 1:5000 and then contoured at 50 gamma intervals where possible. A copy of this contoured base map is included in the back pocket of ths report.

HLEM Survey:

100 metres Line spacing 20 metres Station interval 20 metres Reading interval 120 metres Coil Seperation 60-70 metres Theoretical search depth

3555Hz, 1777Hz, 444Hz Frequencies recorded inphase and quadrature Parameters measured

components of the secondary

field

+/-0.5 percent Unit accuracy

The collected data was then plotted onto a base map, one base map for each frequency, and then profiled at 1cm to +/- 10 percent. AN interpretation for all of the conductive zones has been placed on these base maps were possible. The interpretation consists of the depth to source and the approximate conductivity of the zone. A copy of each of these maps is also included in the bac pocket of this report.

Survey Results

The surveys were successful in locating and outlining two conductive zones across the property. Both of these zones have been labelled and each will be discussed seperately and in detail.

Zone A:

This feature represents the strongest and most predominant structure on th grid. It generally strikes southwest-northeast form line 5200E to 5600E. Interpretation of the zone suggests the target is situated at a depth to source of 15 to 10 metres from west to east and that the zone has a conductivity range of 23 to 4 mhos from west to east. The zone lies to the north, but seperated from a strong magnetic high unit from line 5200E to 5600E and appears to be cut off to the east by the strong magnetic high unit.

Zone B:

This feature represents a weak questionable zone possibly an extension of Zone A. The zone lies to the north flank of a strong magnetic high unit. At this writing, the zone is too weak for a proper interpretation.

Magnetic Results:

The magnetic highs outlined on the grid appear to relate to the metamorphosed and serpentinized ultramafic rocks. These rocks have been cross cut by numberous faults and lineaments. A weaker magnetic high is associated with Zone A and could be related to a high percentage of magnetite hosted in a banded iron formation.

Conclusions and Recommendations

The surveys were successful in locating and outlining two conductive zones on the grid. Diamond drilling is recommended on Zones A and B. No further geophysical work is recommended at this time.

Sincerely,

Paul Davis Project Geologist

April, 1997



ownu iv Trie Line' Wagnetometer





Four Magnetometers in One
Self Correcting for Diurnal Variations
Reduced Instrumentation Requirements
25% Weight Reduction
User Friendly Keypad Operation
Universal Computer Interface
Comprehensive Software Packages



Specifications

Dynamic Range

Tuning Method

Automatic Fine Tuning

Display Resolution Processing Sensitivity Statistical Error Resolution

Absolute Accuracy

Standard Memory Capacity Total Field or Gradient Tie-Line Points

Base Station

RS 232 Serial I/O Interface Gradient Tolerance

Test Mode

Sensor

Gradient Sensors

Sensor Cable

Cycling Time (Base Station Mode)

Operating Environmental Range Power Supply

Battery Cartridge/Belt Life

Weights and Dimensions

Instrument Console Only NiCad or Alkaline Battery Cartridge NiCad or Alkaline Battery Belt Lead-Acid Battery Cartridge Lead-Acid Battery Belt

Sensor **Gradient Sensor**

(0.5 m separation - standard)

Gradient Sensor

(1.0 m separation - optional) Stan 1 System Complement

Base Station Option Gradiometer Option

18,000 to 110,000 gammas, Roll-over display feature suppresses first significant digit upon exceeding 100,000

Tuning value is calculated accurately utilizing a specially developed tuning algorithm

 \pm 15% relative to ambient field strength of last stored

value

0.1 gamma ± 0.02 gamma 0.01 gamma

± 1 gamma at 50,000 gammas at 23°C ± 2 gamma over total temperature range

1,200 data blocks or sets of readings 100 data blocks or sets of readings 5.000 data blocks or sets of readings

Custom-designed, ruggedized liquid crystal display with an operating temperature range from -40°C to +55°C. The display contains six numeric digits, decimal point, battery status monitor, signal decay rate and signal amplitude monitor and function descriptors.

2400 baud, 8 data bits, 2 stop bits, no parity 6.000 gammas per meter (field proven)

A. Diagnostic testing (data and programmable memory)

B. Self Test (hardware)

Optimized miniature design. Magnetic cleanliness is consistent with the specified absolute accuracy.

0.5 meter sensor separation (standard), normalized to gammas/meter. Optional 1.0 meter sensor separation available. Horizontal sensors optional.

Remains flexible in temperature range specified, includes

strain-relief connector

Programmable from 5 seconds up to 60 minutes in 1

second increments

-40°C to +55°C; 0-100% relative humidity; weatherproof

Non-magnetic rechargeable sealed lead-acid battery cartridge or belt; rechargeable NiCad or Disposable battery cartridge or belt; or 12V DC power source option for base station operation.

2,000 to 5,000 readings, for sealed lead acid power supply, depending upon ambient temperature and rate of

readings

2.8 kg, 238 x 150 x 250mm 1.2 kg, 235 x 105 x 90mm 1.2 kg, 540 x 100 x 40mm 1.8 kg. 235 x 105 x 90mm 1.8 kg, 540 x 100 x 40mm

1.2 kg, 56mm diameter x 200mm

2.1 kg, 56mm diameter x 790mm

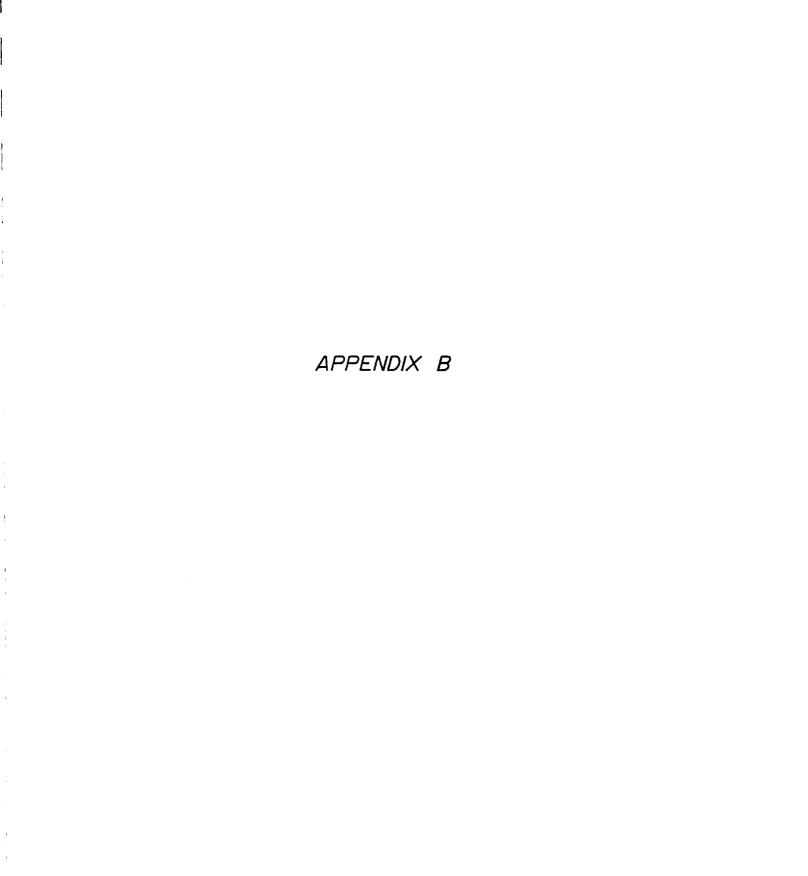
2.2 kg, 56mm diameter x 1300mm

Instrument console: sensor: 3-meter cable, aluminum sectional sensor staff, power supply, harness assembly. operations manual.

Standard system plus 30 meter cable Standard system plus 0.5 meter sensor E D A Instruments Inc. 4 Thorncliffe Park Drive Toronto, Ontario Canada M4H 1H1 Telex: 06 23222 EDA TOR Cable: Instruments Toronto (416) 425 7800

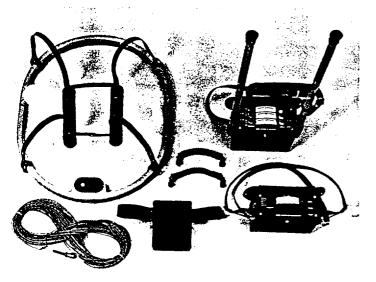
InUSA E D A Instruments Inc 5151 Ward Road Wheat Ridge, Colorado (303) 422 9112

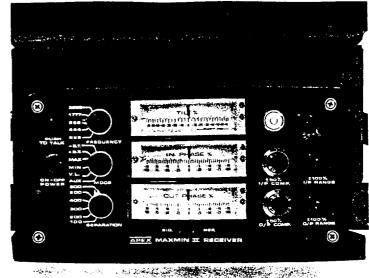
Printed in Canada



- Five frequencies: 222, 444, 888, 1777 and 3555 Hz.
- Maximum coupled (horizontal-loop) operation with reference cable.
- Minimum coupled operation with reference cable.
- Vertical-loop operation without reference cable.
- Coil separations: 25, 50, 100, 150, 200 and 250 m (with cable) or 100, 200, 300, 400, 600 and 800 ft.
- Reliable data from depths of up to 180m (600 ft).
- Built-in voice communication circuitry with cable.
- Tilt meters to control coil orientation.







5 4 5

lmar Land des 222,444,888,1777 and 3555 Hz.

Table 18 of Table (max: MAX: Transmitter coil plane and receiver coil plane horizontal (Max-coupled; Horizontal-loop mode). Used with refer cable.

> MIN: Transmitter coilplane horizontal and receiver coil plane vertical (Min-coupled mode). Used with reference cable.

> V.L.: Transmitter coil plane vertical and receiver coil plane horizontal (Vertical-loop mode). Used without reference cable, in parallel lines.

laii Becerations: 25,50,100,150,200 & 250m (MMI) or 100, 200, 300, 400,600 and

800 ft. (MMIF).

Coil separations in V.L.mode not restricted to fixed values.

Paramacara Read: - In-Phase and Quadrature components of the secondary field in MAX and MIN modes.

> - Tilt-angle of the total field in V.L. mode.

- Automatic, direct readout on 90mm (3.5") edgewise meters in MAX and MIN modes. No nulling or compensation necessary.

- Tilt angle and null in 90mm edgewise meters in V.L.mode.

logia Rangasi In-Phase:

leadouss:

±20%,±100% by push-

button switch.

Quadrature: ±20 %, ±100 % by push-

button switch.

Tilt: ±75% slope.

Null (V.L.): Sensitivity adjustable

by separation switch.

Resc William. In-Phase and Quadrature: 0.25 %

to 0.5%; Tilt: 1%.

Repease officy: ±0.25% to ±1% normally, depending

on conditions, frequencies and cail

separation used.

Transmitter Cutout: -222Hz : 220 Atm²

444Hz : 200 Atm² 888 Hz : 120 Atm² - 1777Hz: 60 Atm² - 3555 Hz : 30 Atm²

Receiver Batteries: 9V trans. radio type batteries (4).

Life: approx. 35hrs. continuous duty (alkaline, 0.5 Ah), less in cold

weather.

Transmitter

Battaries: 12V 6Ah Gel-type rechargeable

battery. (Charger supplied).

Reference Capte : Light weight 2-conductor teflon

cable for minimum friction. Unshielded. All reference cables optional at extra cost. Please specify.

Voice Link: Built-in intercom system for

voice communication between receiver and transmitter operators in MAX and MIN modes, via re-

ference cable.

Indicator Lights: Built-in signal and reference warn-

ing lights to indicate erroneous

readings.

Temperature Range: -40° C to $+60^{\circ}$ C (-40° F to $+140^{\circ}$ F).

Receiver Waight: 6kg (13 lbs.)

Transmitter Weight: 13kg (29 lbs.)

Shippina Weight: Typically 60kg (135lbs.), depend-

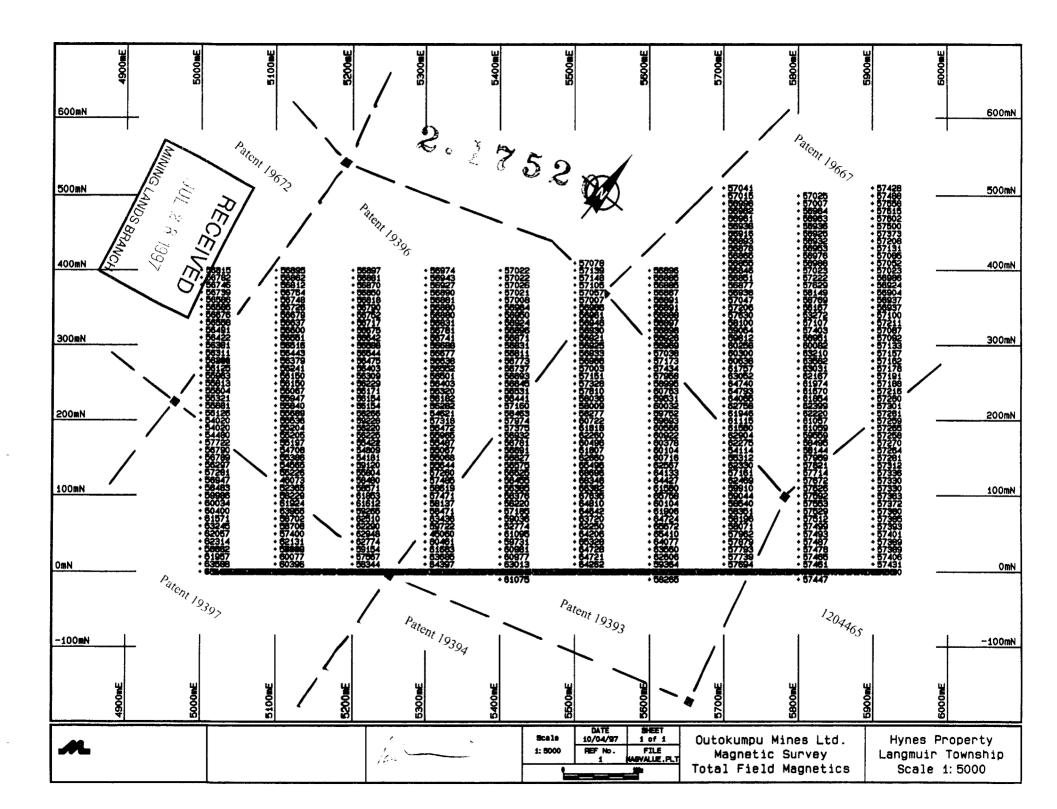
Specifications subject to change without notification

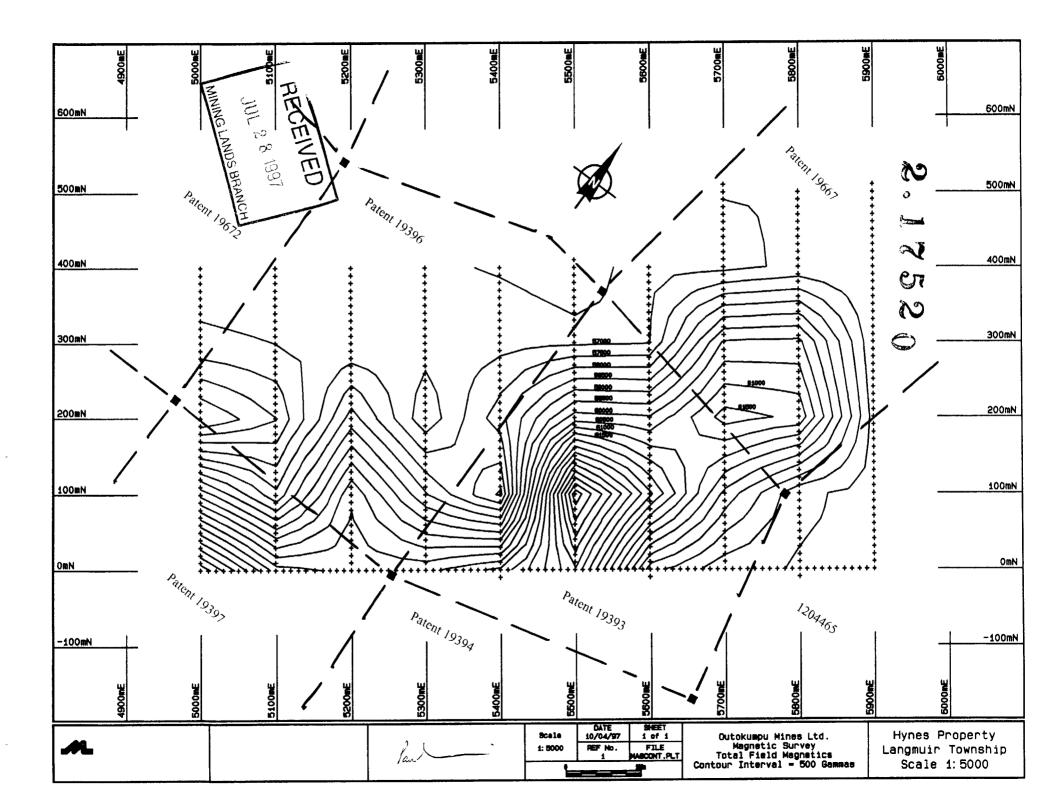
ing on quantities of reference cable and batteries included. Shipped in two field/shipping cases.

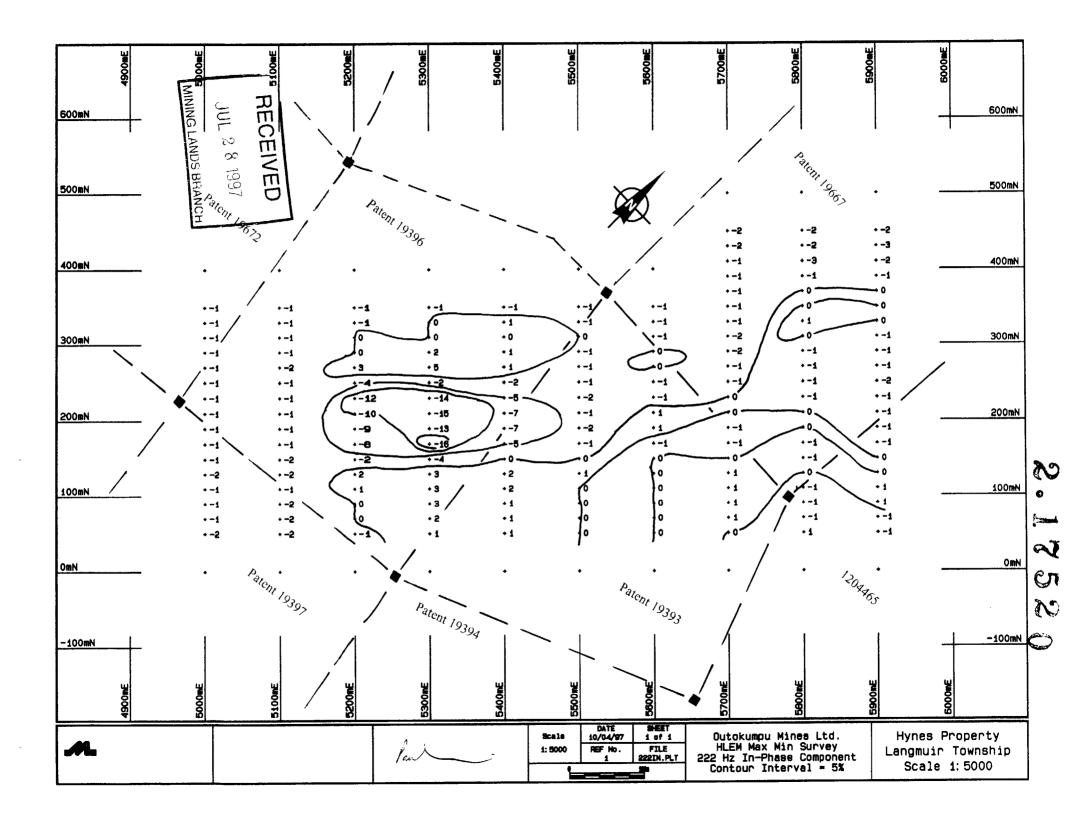
200 STEELCASE RD. E., MARKHAM, ONT., CANADA, L3R 1G2

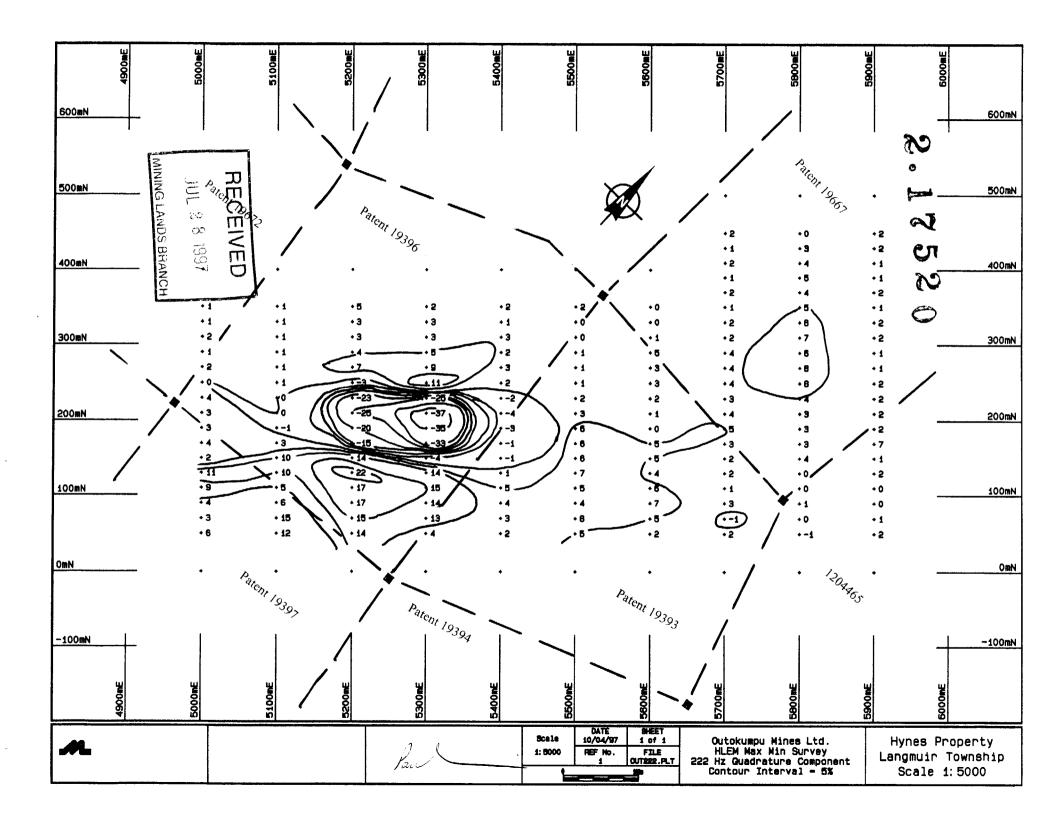
Phone: (416) 495-1612 Cables: APEXPARA TORONTO

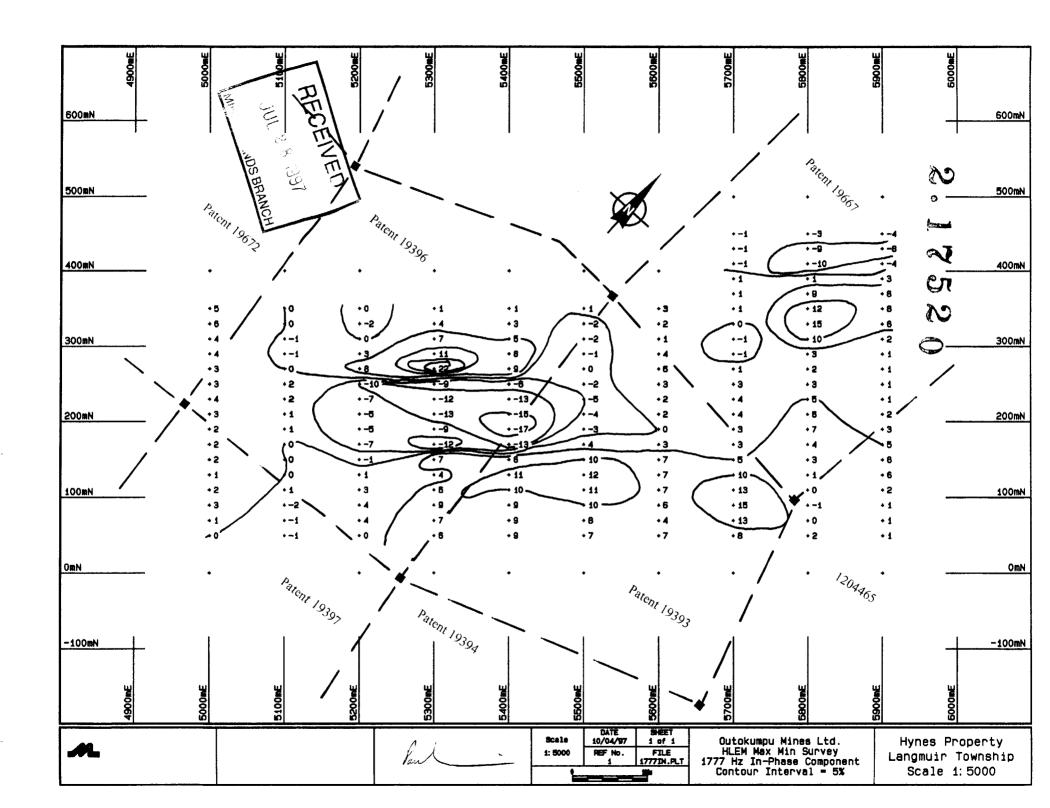
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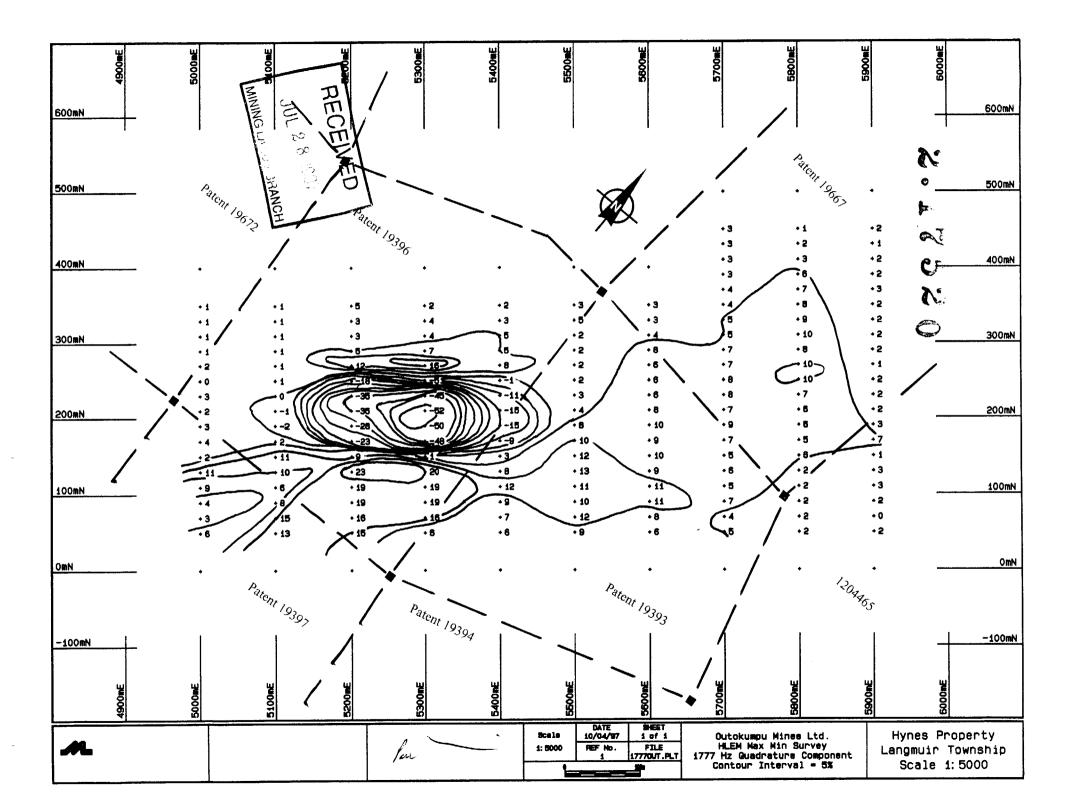


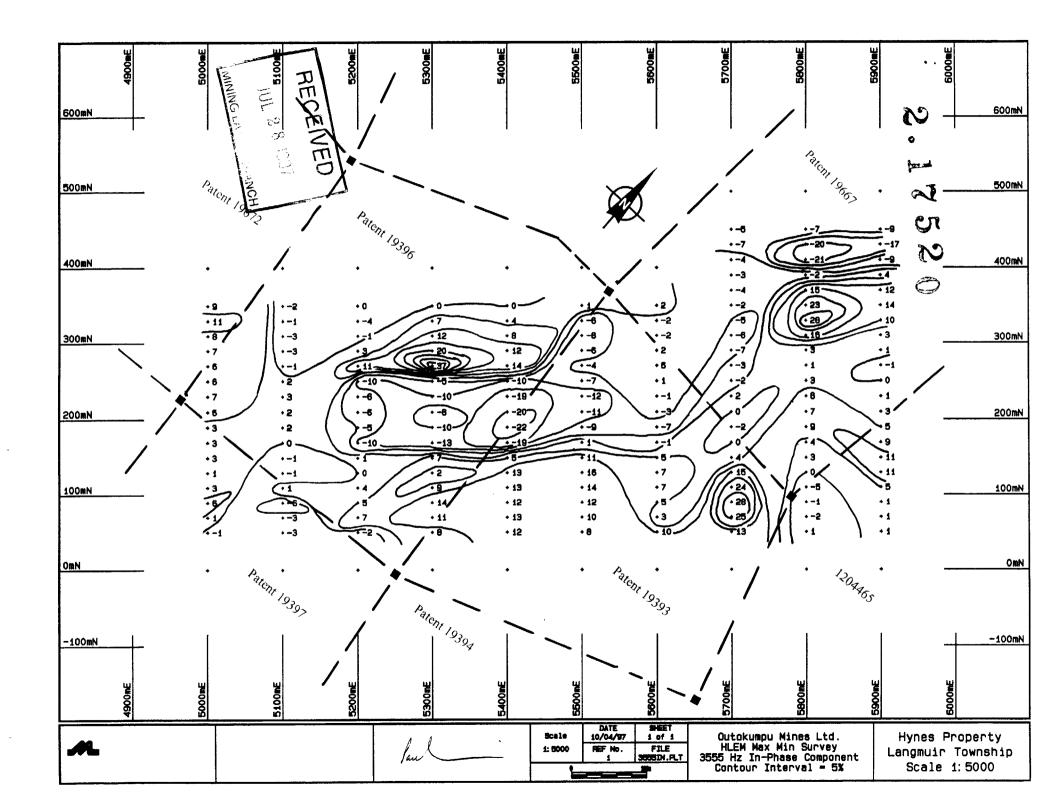


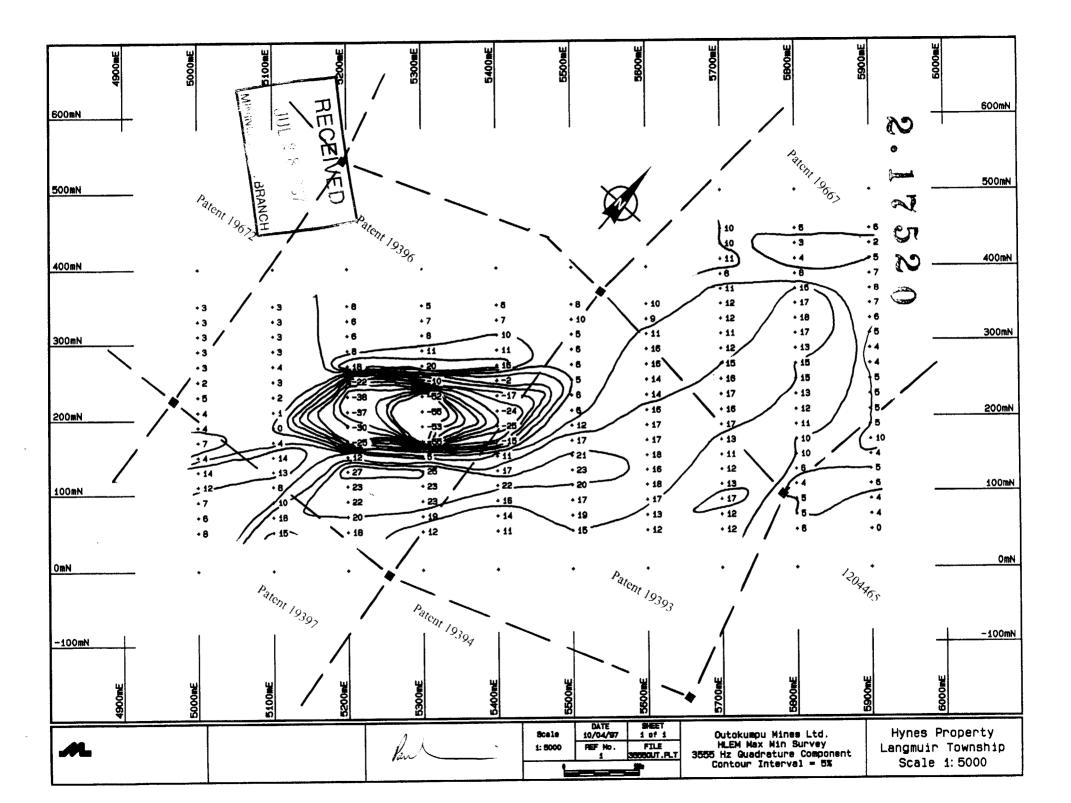








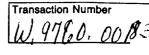






Report of Work Conducted After Recording Claim

Mining Act





Personal information collected or this collection should be directed Sudbury, Ontario, P3E 6A5, tele



900

ne used for correspondence. Quest and Mines, Fourth Floor, 159 Cedar s.

sment work or consult the Mining

Instructions: - Please ty

- Refer to t

Recorder.

	earate copy of this form nical reports and maps ratch, showing the claims			
Recorded Holder(s)	· · · · · · · · · · · · · · · · · · ·			Client No.
1	umpa Mines Ltd.			178525
Address f.o. Box 1/23	, Timmins , Ont. , P.	4N7H9		Telephone No. (705) 244~5024
				M or G Plan No.
Porcupine	<u></u>	Lang		G-3226
Dates Work From: Performed	Sept 21/96		To: Sept 2	8/96
Work Performed (Che	eck One Work Group Or	nly)		
Work Group			Туре	
Geotechnical Survey	,			
Physical Work, Including Drilling	Line Cutting, Ma	g Survey, Max	-Min Suvey	
Rehabilitation				
Other Authorized Work				
Assays				
Assignment from Reserve				
holder cannot v		ned in the statemen	nt of costs within 30	
Exsres Exploration	Ltd.	1.0. Box 1880	Timmins, Out.	P4N 7XI
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				he the Comment
(attach a schedule if ned Certification of Benef	cessary) icial Interest * See No	ote No. 1 on reve		AMING LANGS 1997
	work was performed, the clain current holder's name or held ur older.		Jan 10197	Recorded Holder of Agent (Signature)
Certification of Work	Report			
I certify that I have a perso its completion and annexe Name and Address of Person	d report is true.	et forth in this Work rep	ort, having performed the	work or witnessed same during and/or after
•	angon Mines Ltd.	P.O. Box 1123, T	Certified By (Signature)	N 7H9
(705) 264-5024	Jan 10197		Paul	•
For Office Use Only	1	\		
Total Value Cr. Recorded	Date Recorded	Mining Recor		RECEIVED
	Deemed Approval Date	Date Approve	ю	APR 16 1997
	Date Notice for Amendments	Sent		B
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241 (03/91)																		•	Work Report Number for Applying Reserve
Total Number of Claims							1						-						Claim Number (see Note 2)
·		-																,	Number of Claim Units
Total Value Work Done																			Value of Assessment Work Done on this Claim
Total Value Work Applied											$5 \gtrsim 0$								Value Applied to this Claim
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Total Assigned From							-				~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	,				VE	5		Value Assigned from this Claim
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Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented	Signature	Date
or leased land at the time the work was performed.	Paul	Ja-10/97

Work Report Number	Claim Number	Number of Units	Value of Assessment	Value Applied	Value Assigned	Reserve Work
G. 6000034	Patent 19393	1	500	0	500	0 🗸
6.6000236	Patent 19396	1	1105	0	1105	0 /
6.6000337	Patent 19667	1	955	0	955	0 /
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Page 1



Ministry of Northe:n Development and Mines

Ministère du Développement du Nord et des mines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction W. 97160. 00183

2.160~0

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

1. Direct Costs/Coûts directs

Туре	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		37.37
Contractor's and Consultant's	Type Line Cutting	1,378	
Fees Droits de l'entrepreneur	Magnetre Survey Magnetre Survey There - Min Survey	520	
et de l'expert- conseil	Mas-Min Survey	752	2,650
Supplies Used Fournitures utilisées	Туре		
Rental	Туре		
Location de matériel			
	Total Dire	ect Costs	

2. Indirect Costs/Coûts indirects

Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts Indirects ne sont pas admissibles en tant que travaux d'évaluation.

Туре	Descri	ption	Amount Montant	Totals Total global
Transportation Transport	Туре			
]
	,			
Food and Lodging Nourriture et hébergement				
Mobilization and Demobilization Mobilisation et démobilisation				•
	Sub To Total partiel		rect Costs indirects	1
Amount Allowable (i Montant admissible	not greater than (n'excédant pas	20% of Dir 20 % des c	ect Costs) coûts directs)	
Fotal Value of Asset Total of Direct and A ndirect costs)				

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.

Total des coûts directs

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 effet uée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentes.

Filing Discounts

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

otal Value of Assessment Credit	Total Assessment Claimed
× 0.50 =	

Pertification Verifying Statement of Costs

hereby certify:

at the amounts shown are as accurate as possible and these costs ere incurred while conducting assessment work on the lands shown the accompanying Report of Work form.

at as	Project beologist	l am	authorized
	(Recorded Holder, Agent, Position in Company)		44

make this certification

Remises	pour	dépôt

2.650

Les travaux déposés dans les deux an Suivant leur achévement sont remboursés à 100 % de la valeur totale susmentionée du crédit d'évaluation.

 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	Évaluation totale demandée		
× 0	Macalliviani		
4	(e) 4)		
Attestation de l'état des co	APR 16 1997		
J'atteste par la présente :	TA CINI		
que les montants indiqués sont	effectuer les travaux d'évaluation		
sur les terrains indiqués dans la fo	rmule de rapport de travail ci-joint.		
Et qu'à titre de	ie suis autorisé		
(titulaire enregistré, représentant, poste occupé dans la compagnie)			

Ė	faire	cette	attestation.	

Signature	Date
Paul	Jan 10/97

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

August 6, 1997

Paul Davis OUTOKUMPU MINES LTD. P.O. BOX 1123 TIMMINS, Ontario P4N - 7



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

Telephone: (888) 415-9846 (705) 670-5863

Fax:

Dear Sir or Madam:

Submission Number: 2.17520

Status

Subject: Transaction Number(s):

W9760.00183 Deemed Approval

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

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

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

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at beneteau_s@torv05.ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

ORIGINAL SIGNED BY

Blair Kite

Supervisor, Geoscience Assessment Office

~ Ha

Mining Lands Section

Work Report Assessment Results

Submission Number:

2.17520

Date Correspondence Sent: August 06, 1997

Assessor:Steve Beneteau

Transaction Number **First Claim**

Number

Township(s) / Area(s)

Status

Approval Date

W9760.00183

19393

LANGMUIR

Deemed Approval

July 15, 1997

Section:

14 Geophysical MAG14 Geophysical EM

Correspondence to:

Resident Geologist South Porcupine, ON

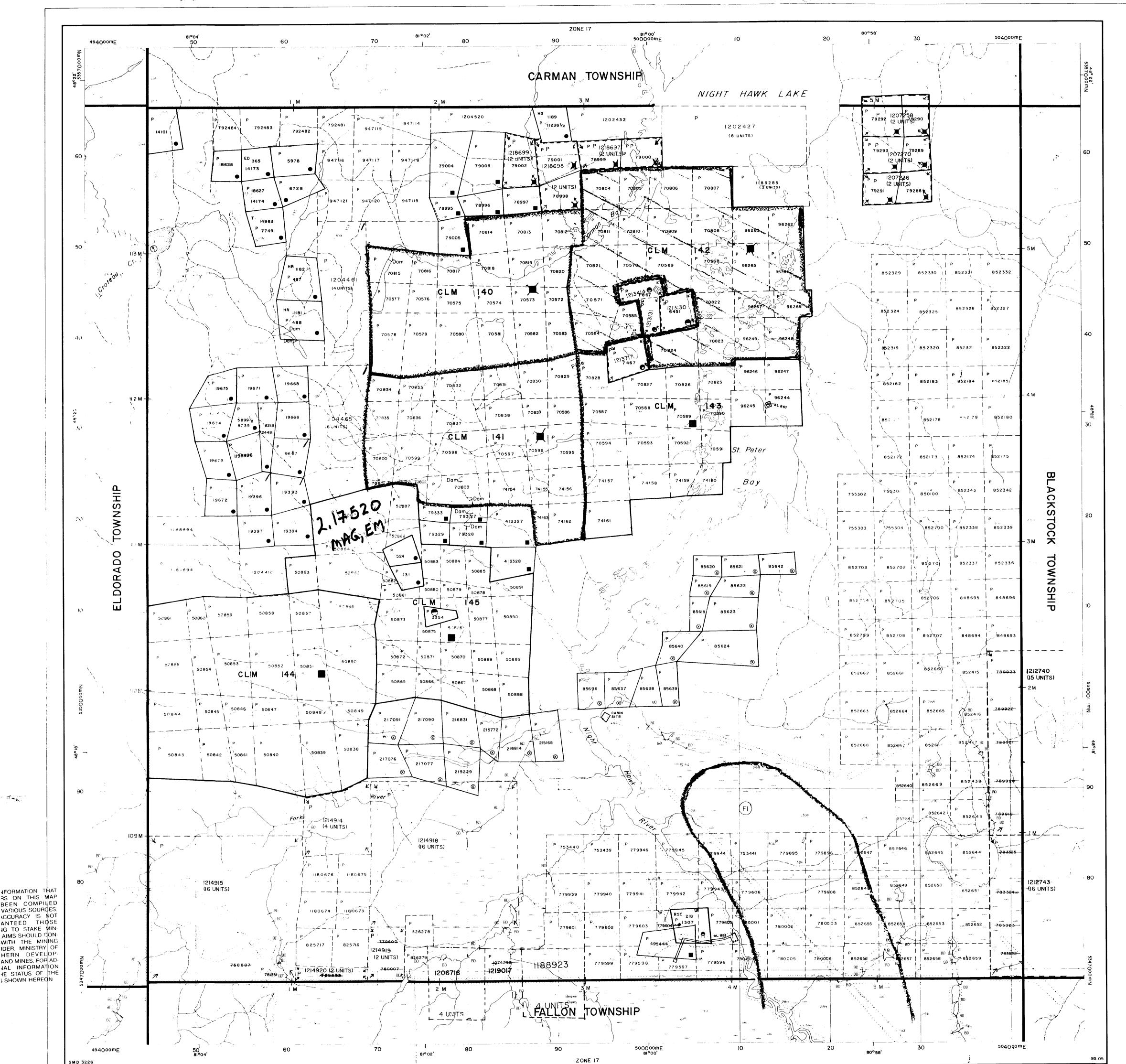
Assessment Files Library Sudbury, ON

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

Paul Davis

OUTOKUMPU MINES LTD.

TIMMINS, Ontario



T.

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ANTEED THOSE IG TO STAKE MIN

Resources and Mines

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INDEX TO LAND DISPOSITION

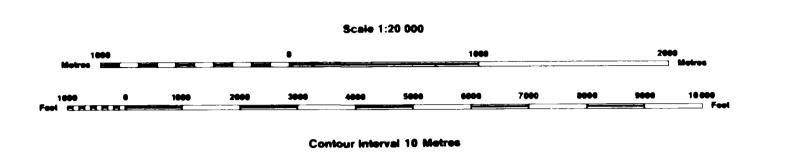
G-3226

LANGMUIR

M.N.R. ADMINISTRATIVE DISTRICT **TIMMINS** MINING DIVISION

PORCUPINE LAND TITLES/REGISTRY DIVISION

COCHRANE



AREAS WITHDRAWN FROM DISPOSITION

SYMBOLS

THIS TWP IS SUBJECT TO FOREST ACTIVITY IN 1991 FURTHER INFORMATION AVAILABLE ON FILE.

NOTES THIS TOWNSHIP LIES WITHIN THE MUNICIPALITY OF THE CITY OF

DISPOSITION OF CROWN LANDS

Surface & Mining Rights Mining Rights Only. Surface & Mining Rights Surface Rights Only Mining Rights Only

ACTIVATED JULY 18,1995 BY:	

m Map base and land disposition drafting by Surveys and Mapping

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