

41014SW0005 2.5185 COCHRANE

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NOV 15 1982

**MINING LANDS SECTION**

KAPUSKASING RESOURCES LTD.

COCHRANE TOWNSHIP PROSPECT

GEOLOGICAL, PROSPECTING AND GEOPHYSICAL SURVEYS

NOVEMBER 10, 1982

HARPER CONSULTING SERVICES INC.

KAPUSKASING RESOURCES LTD.  
COCHRANE TOWNSHIP PROSPECT  
GEOLOGICAL, PROSPECTING AND GEOPHYSICAL SURVEYS

INTRODUCTION

This report covers geological, geophysical, and prospecting surveys carried out on a group of twelve claims located in Cochrane Township, Porcupine Mining Division, Ontario and owned by Kapuskasing Resources Ltd., License T1077. The surveys were done between July and October 1982.

The line cutting was done by Gaston Graton of Wawa, Ontario. The survey and prospecting work was done by John R. Lill, P.Eng., John Essery, and H. Grant Harper, P.Eng., the author of this report.

PROPERTY AND LOCATION

The property consists of twelve contiguous mining claims numbered as follows:

P588989 to P588996 inclusive, and  
P647539 to P647542 inclusive.

The claims are located in the central part of Cochrane Township, Porcupine Mining Division. The property lies approximately 12km northeast of Chapleau, Ontario and 2½km north of Highway 101.

#### ACCESS AND FACILITIES

Access to the property is via the Kanipahow Lodge Road which leads northward from Highway 101 some 5km east of the Junction of Highways 101 and 129. A short distance north of Highway 11 the Kanipahow Road forks with the right fork leading along an unimproved logging road to the property, a distance of about 1-3/4 miles. This road is suitable for 4-wheel drive vehicles and perhaps pick-up trucks during exceptionally dry periods.

The only facilities on the property are the baseline and the 400 ft. grid of picket lines.

#### HISTORY AND DEVELOPMENT

The general area of Cochrane Township and the subject claims have very little mining history almost none of which has been documented. Government publications are limited to a few

generalized reports based on road surveys and data assemblage programs. The AFRO files and the Resident Geologist's files contain no information on Cochrane Township other than a plan of a group of trenches lying adjacent to the subject claims on the south side. The existence of these trenches indicates that the area has been prospected to some degree.

### GENERAL GEOLOGY

The geology of the property was mapped with the aid of cut lines and air photographs. Outcrops are sparse and small although the amount of overburden is relatively light, especially near the hilltops. The topography is rough and the bush is difficult to travel. An elementary Table of Formations follows.

#### Table of Formations

Recent	eskers, sand, gravel.
GREAT UNCONFORMITY	
Precambrian	diabase dikes
Intrusive contact	syenite, granite.
Intrusive contact	amphibolite, iron formation, amphibolite gneisses.

The amphibolites and amphibolite gneisses (hornblende, biotite, feldspar, quartz) are probably intercalated sediments and possibly lava flows which have been metamorphosed to the amphibolite facies. No limey beds were recognized but, considering the sparseness of outcrops, it would not be surprising if one were to intersect limey beds during a drill program. The rocks are reminiscent of the Grenville Series. The formations trend slightly north of east and dip nearly vertical or slightly to the south.

Although the granites appear ordinary, some of the syenites have a distinctive appearance in that they resemble the oligoclasites of the Beaver Lodge Area of northern Saskatchewan. Where the oligoclasite (?) rocks are dusted with hematite, some low grade radioactivity was detected.

The diabase dikes have a northerly strike and respond magnetically. Magnetic anomalies which trend with the general east-west strike of the formation appear to be due to pyrrhotite which is a constituent in the weak iron formation which occurs within the sediment.

The air photos of the area clearly outline a major strike fault trending through the property and onward toward the east. To the west the location of this structure becomes confused by a series of glacial deposits. The VLF survey responded to the structure and to its subsidiary and parallel structure. The VLF

response has an intensity which suggests that part of the structure at least is graphitic. Other parts are known to correlate with sulphide zones within iron formation.

#### VLF SURVEY

The VLF Survey located two major conductors, one of which has subsidiary echelon and branches. Locally the conductors are very strong clearly indicating local conditions of either graphite or a strong electrolyte. Their discontinuity and echelon suggest the possibility of graphitic horizon within a sedimentary sequence.

At its western end the northern VLF conductor is flanked by a magnetic anomaly. Prospecting in this area has disclosed weak iron formation.

#### MAGNETIC SURVEY

The general level of magnetic background is low and above normal intensities are irregular but distributed in accordance with the known geological pattern. Maximum intensities are up to 15,000 gammas over a background of about 500 gammas. These intensities are unusual, and few anomalies exceed 3,000 gammas.

One set of non-conformable anomalies fall into a pattern associated with mapped areas of diabase intrusion.

The second set of anomalies is conformable with the enclosing rocks. The mapping and prospecting data associate these anomalies with zones of sulphide mineralizations.

#### RADIOMETRIC SURVEY

The radiometric survey produced some interesting results in that weakly radioactive rocks and zones were discovered. These appear to be the first discoveries in the area which occur outside the carbonatite complexes lying to the southeast and northeast of Cochrane Township.

The radiometric survey was done with a total count instrument so one cannot tell if the radioactivity detected is due to uranium and/or thorium. The intensity is sufficiently strong to eliminate K40 as the principal cause. The instrument was carried while mapping rather than during the prospecting process and therefore there has been little or no prospecting for radioactivity.

The radiometric results are shown on the radiometric map and on the geologic map. Those on the radiometric map were taken at hip level and reflect the general level of radioactivity throughout the surveyed area. Those shown on the geologic plan

represent rock surface readings and are recorded as the number of times background count. The best count recorded was 6 times background which is really quite low. Some hand specimens ran 1.5 and 2 times background. The stronger radioactivity was sometimes associated with the typical "red alteration" or hematization associated with Bancroft and Beaver Lodge types of uranium mineralization. All of the results recorded here are very preliminary in nature and are useful only as a guide to future work.

#### PROSPECTING SURVEY

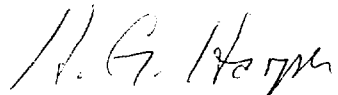
A preliminary prospecting survey was done by John Essery. Altogether 32 rock samples were collected and returned to Toronto. Each of these was carefully examined and 27 were assayed for gold and/or silver. The results are plotted on the geologic plan. The assay results range from Nil to 0.015 ounces per ton in gold with only trace and nil results in silver. Of the 27 samples assayed, 16 returned measurable quantities of gold. These tend to be concentrated within the sulphide rich zone and adjacent to the major fault structures.



CONCLUSIONS AND RECOMMENDATIONS

1. Preliminary surveying by geologic, VLF electromagnetic, magnetic, radiometric, and prospecting methods have indicated modestly favourable results which warrant further evaluation as herein recommended.
2. All anomalous areas and the areas of known radioactivity warrant detailed prospecting and sampling before the leaves emerge in the Spring of 1983. This will require the services of an experienced 2 or 3 man crew for several days.
3. Locally VLF and magnetic anomalies co-exist and locally VLF anomalies occur near sulphide; such areas should be surveyed in detail using a McPhar VHEM unit in either the horizontal or vertical loop configuration depending on topography.

HARPER CONSULTING SERVICES INC.



---

H. G. Harper, P.Eng.  
President.

Toronto, Ontario  
November 10, 1982.



X-RAY ASSAY LABORATORIES LIMITED  
1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4  
PHONE 416-445-5755 TELEX 06-986947

CERTIFICATE OF ANALYSIS

TO: KAPUSKASING RESOURCES LTD.  
ATTN: H.G. HARPER  
98 UNIVERSITY AVENUE, SUITE 806  
TORONTO, ONTARIO M5J 1T6

CUSTOMER NO. 184  
DATE SUBMITTED  
6-AUG-82

REPORT 15591

REF. FILE 11295-U5

16 ROCKS

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU OZ/TON	FA	0.001
CU %	XRF	0.010
AG OZ/TON	FA	0.100

DATE 24-AUG-82

X-RAY ASSAY LABORATORIES LIMITED  
CERTIFIED BY 

SAMPLE	AU OZ/TON	CU %	AG OZ/TON
1233 Co-1	0.004	--	NIL
1234 -2	0.002	--	NIL
1235 -3	0.003	--	TRACE
1236 - <del>5</del>	TRACE	--	TRACE
<del>1237 -8</del>	0.005	--	TRACE
1238 -9	0.002	--	TRACE
1239 -10	0.009	--	TRACE
1240 -13	NIL	--	TRACE
1241 -14	0.001	--	TRACE
1242 -16	TRACE	--	TRACE
1243 -17	0.013	--	TRACE
1244 -18	0.007	--	TRACE
1245 -19	NIL	--	TRACE
1246 -28	NIL	0.37	NIL
1247 -30	TRACE	--	TRACE
1248 -32	NIL	0.15	NIL

Cochrane Twp.

X-RAY ASSAY LABORATORIES LIMITED  
1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4  
PHONE 416-445-5755 TELEX 06-986947

CERTIFICATE OF ANALYSIS

TO: KAPUSKASING RESOURCES LTD.  
ATTN: F.G. HARPER  
88 UNIVERSITY AVENUE, SUITE 806  
TORONTO, ONTARIO M5J 1T6

CUSTOMER NO. 184

DATE SUBMITTED  
10-SEP-82

REPORT 15930

REF. FILE 11874-06

9 ROCKS

WERE ANALYSED AS FOLLOWS:

AU OZ/TON	METHOD	DETECTION LIMIT
	FA	0.001

DATE 23-SEP-82

X-RAY ASSAY LABORATORIES LIMITED  
CERTIFIED BY 

SAMPLE	AG OZ/TON
✓CC-4	0.002
✓CC-6	0.001
✓CC-7	TRACE
✓CC-11	0.001
✓CC-12	0.001
✓CC-1F	0.015
✓CC-20	NIL
✓CC-23	0.001
✓CC-29	0.001

# 420 P-588989 The Mining Act 2.5185

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

Type of Survey(s) VLF electromagnetic, Magnetic, Radiometric, Geologic. Township or Area Cochrane.  
 Claim Holder(s) Kapuskasing Resources Ltd. Prospector's License No. T 1077  
 Address Suite 806 - 88 University Ave, Toronto.  
 Survey Company H John R. Lill P. Eng. Date of Survey (from & to) 5 7 82 12 11 82 Total Miles of Line Cut 12.8  
 Name and Address of Author (of Geo-Technical report) H.G. Harper 314 Hendon Ave, Willandale

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	20
	- Magnetometer	20
	- Radiometric	20
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	40
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Geological	
	Geochemical	
	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
P	588 989				
	588 990				
	588 991				
	588 992				
	588 993				
	588 994				
	588 995				
	588 996				
	647 539				
	647 540				
	647 541				
	647 542				

**RECEIVED**  
NOV 19 1982  
MINING LANDS SECTION

Expenditures (excludes power stripping)  
 Type of Work Performed  
 Performed on Claim(s)  
 Calculation of Expenditure Days Credits  
 Total Expenditures \$ 15 + 15 = 30 Total Days Credits  
 Instructions  
 Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

**RECORDED**  
NOV 18 1982  
Receipt No. ....

Total number of mining claims covered by this report of work. 12

Date Nov 12/82 Recorded Holder or Agent (Signature) pa. H.G. Harper.

For Office Use Only  
 Total Days Cr. Recorded 1200 Date Recorded Nov 18/82 Mining Recorder  
 Date Approved as Recorded 83:06:29 Director

Certification Verifying Report of Work  
 I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.  
 Name and Postal Address of Person Certifying H G Harper



Report of Work  
(Geophysical, Geological,  
Geochemical and Expenditures)

#429



41014SW0005 2.5185 COCHRANE

900

The Mining Act **K-588989** - in the expend. days cr. column. Do not use shaded areas below.

Type of Survey(s) Prospecting, Sampling, Assaying Township or Area Cochrane

Claim Holder(s) Kapuskasing Resources Ltd. Prospector's Licence No. T 1077

Address Suite 806 88 University Ave, Toronto

Survey Company John Essery - prospector Date of Survey (from & to) 5 7 82 to 12 11 82 Total Miles of line Cut 12.8

Name and Address of Author (of Geo-Technical report) H.G. Harper 314 Hendon Ave, Willandale

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	
Man Days  Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
Airborne Credits  Note: Special provisions credits do not apply to Airborne Surveys.	- Other	
	Geological	
	Geochemical	
Airborne Credits	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.
P	588989	4.2
	588990	4.2
	588991	4.2
	588992	4.2
	588993	4.2
	588994	4.2
	588995	4.2
	588996	4.2
	647539	4.2
	647540	4.2
	647541	4.2
	647542	#

**RECEIVED**  
NOV 19 1982  
MINING LANDS SECTION

Expenditures (excludes power stripping)

Type of Work Performed Sampling & assaying

Performed on Claim(s) all claims

Calculation of Expenditure Days Credits

Total Expenditures \$ 329.50 ÷ Total Days Credits 15 = 22

For Office Use Only

Total Days Cr. Recorded 22 Date Recorded Nov. 18/82 Mining Recorder [Signature]

Date Approved as Recorded 83.06.29 Branch Director [Signature]

Instructions  
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date Nov 12/82 Recorded Holder or Agent (Signature) H.G. Harper

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying H.G. Harper  
314 Hendon Ave Willandale

Date Certified Nov 12/82 Certified by (Signature) H.G. Harper

**RECORDED**  
NOV 18 1982  
Receipt No. ....

Total number of mining claims covered by this report of work. 12

See Reverse







GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations 598 Number of Readings 2392
Station interval 100' Line spacing 400'
Profile scale 1" = 30%
Contour interval variable

MAGNETIC

Instrument McPhar M700 A
Accuracy - Scale constant 5 gamma. maximum
Diurnal correction method Check back on base & control stations
Base Station check-in interval (hours) 1/2 hour
Base Station location and value L12E - 0+00 - 500 X

ELECTROMAGNETIC

Instrument Ronka EM16
Coil configuration fixed horizontal & vertical
Coil separation N/A
Accuracy +/- 1%
Method: [X] Fixed transmitter [ ] Shoot back [ ] In line [ ] Parallel line
Frequency Cutler, Maine - 17.86 kHz
Parameters measured Vertical in phase & out of phase components

GRAVITY

Instrument
Scale constant
Corrections made
Base station value and location
Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument
Method [ ] Time Domain [ ] Frequency Domain
Parameters - On time Frequency
- Off time Range
- Delay time
- Integration time
Power
Electrode array
Electrode spacing
Type of electrode

SELF POTENTIAL

Instrument \_\_\_\_\_ Range \_\_\_\_\_

Survey Method \_\_\_\_\_

Corrections made \_\_\_\_\_

RADIOMETRIC

Instrument McPhar TC 33A Scintillometer

Values measured total gamma counts per second

Energy windows (levels) 0.1 max.

Height of instrument hip level Background Count 55 cps

Size of detector 1.5" diam. x 1.5" high = 2.65 ins.<sup>3</sup>

Overburden sand, gravel, clay, - less than 10' except in deep valleys.  
(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey Geologic + Prospecting

Instrument John R Lill, P.Eng., H.G. Harper, P.Eng., John Essery, Prospector

Accuracy \_\_\_\_\_

Parameters measured Rock types, strikes, dips, veining, alteration, samples & assays.

Additional information (for understanding results) \_\_\_\_\_

AIRBORNE SURVEYS

Type of survey(s) \_\_\_\_\_

Instrument(s) \_\_\_\_\_  
(specify for each type of survey)

Accuracy \_\_\_\_\_  
(specify for each type of survey)

Aircraft used \_\_\_\_\_

Sensor altitude \_\_\_\_\_

Navigation and flight path recovery method \_\_\_\_\_

Aircraft altitude \_\_\_\_\_ Line Spacing \_\_\_\_\_

Miles flown over total area \_\_\_\_\_ Over claims only \_\_\_\_\_

Jan 27/83

Mining Lands Comments

~~- All cheque Receipts ok.~~

To: Geophysics

Mr Barlow

Comments

Approved  Wish to see again with corrections

Date April 29/83

Signature Ryan Paul

To: Geology - Expenditures

Mr Kustka

Comments

Approved  Wish to see again with corrections

Date March 18/83

Signature CKustka

To: Geochemistry

Comments

Approved  Wish to see again with corrections

Date

Signature

LD

1982 11 19

2.5185

Mining Recorder  
Ministry of Natural Resources  
60 Wilson Avenue  
Timmins, Ontario  
P4N 2S7

Dear Sir:

We have received reports and maps for a Geological and Geophysical (Electromagnetic, Magnetometer and Radiometric) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 588989 et al in the Township of Cochrane.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with you prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours very truly,

E.F. Anderson  
Director  
Land Management Branch

Whitney Block, Room 6450  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: 416/965-1380

DW:sc

cc: Kapuskasing Resources Limited  
Toronto, Ontario

cc: Mr. M.G. Harper  
Willowdale, Ontario

# HARPER Consulting Services Inc.

H. Grant Harper P. Eng., President  
Consulting Engineer & Geologist

314 Hendon Avenue  
Willowdale, Ontario M2M 1B2  
(416) 225-7412

November 12, 1982.

Mr. F.W. Matthews, Special Projects,  
Mr. Fred Pooley, OMEP,  
Mining Recorder, Porcupine Mining Division,  
John Tokarsky, Corporate Secretary.

Gentlemen,

Please note the following respecting the a Report entitled Kapuskasing Resources Ltd, Cochrane Township Prospect, Geological, Prospecting, and Geophysical Surveys and dated November 10, 1982.

- 1.- Two copies submitted to Mr. Matthews' Office;
- 2.- One copy submitted to Mr. Pooley's Office;
- 3.- One copy submitted to Mr. Tokarsky's Office;
- 4.- Report of Work forms covering this Report submitted to the Mining Recorder's Office, Porcupine Mining Division.

Yours truly,

*H.G. Harper*

**RECEIVED**

NOV 15 1982

**MINING LANDS SECTION**



Natural Resources

(Geophysical, Geological, Geochemical and Expenditures)

The Mining Act

Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns. - Do not use shaded areas below.

Type of Survey(s) *VLF electromagnetic, Magnetic, Radiometric, Geologic.* Township or Area *Cochrane.*

Claim Holder(s) *Kapuskasing Resources Ltd.* Prospector's Licence No. *T 1077*

Address *Suite 806 - 88 University Ave, Toronto.*

Survey Company *H John R. Lill P. Eng.* Date of Survey (from & to) *5 7 82 12 11 82* Total Miles of line Cut *12.8*

Name and Address of Author (of Geo-Technical report) *H.G. Harper 314 Hendon Ave, Willandale*

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	20
	- Magnetometer	20
	- Radiometric	20
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	40
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Geophysical	Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	588 989				
	588 990				
	588 991				
	588 992				
	588 993				
	588 994				
	588 995				
	588 996				
	647 539				
	647 540				
	647 541				
	647 542				

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$  + 15 =  Total Days Credits

Total number of mining claims covered by this report of work. 12

Instructions  
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date *Nov 12 1982* *Kapuskasing Resources Ltd.*  
Recorded Holder or Agent (Signature) *pa. H.G. Harper.*

For Office Use Only

Total Days Cr. Recorded  Date Recorded  Mining Recorder

Date Approved as Recorded  Branch Director

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying *H.G. Harper Ltd.*

The Mining Act

"Expenditures" section may be entered in the "Expend. Days Cr." column. Do not use shaded areas below.

Type of Work Performed: Prospecting, Sampling, Assaying

Holder(s): Kapuskasing Resources Ltd.

Location: Suite 806 88 University Ave, Toronto

Survey Company: John Essery - prospector

Name and Address of Author (of Geo-Technical report): H.G. Harper 314 Hendon Ave, Willowdale

Township or Area: Cochrane

Inspector's Licence No.: T 1077

Date of Survey (from & to): 5 7 82 to 12 11 82

Total Miles of line Cut: 12.8

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	- Electromagnetic	
	- Magnetometer	
	- Radiometric	

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
P	588 989	4			
	588 990	4			
	588 991	4			
	588 992	4			
	588 993	4			
	588 994	4			
	588 995	4			
	588 996	4			
	647 539	4			
	647 540	4			
	647 541	4			
	647 542	4			

Expenditures (excludes power stripping)

Type of Work Performed: Sampling & assaying

Performed on Claim(s): all claims

Calculation of Expenditure Days Credits

Total Expenditures: \$ 329.<sup>50</sup> ÷ 15 = 22 ← See Reverse

Total Days Credits: 22

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date: Nov 12 / 82

Recorded Holder or Agent (Signature): H.G. Harper

Total number of mining claims covered by this report of work: 12

For Office Use Only

Total Days Cr. Recorded: \_\_\_\_\_ Date Recorded: \_\_\_\_\_ Mining Recorder: \_\_\_\_\_

Date Approved as Recorded: \_\_\_\_\_ Branch Director: \_\_\_\_\_

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying: H.G. Harper

Date Certified: \_\_\_\_\_ Certified by (Signature): \_\_\_\_\_



## Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey <i>Prospecting</i>							
Technical Days		Technical Days Credits		Line-cutting Days	Total Credits	No. of Claims	Days per Claim
4	X	7	=	28	+	[ ]	=
				28	÷	12	=
						2	

Type of Survey							
Technical Days		Technical Days Credits		Line-cutting Days	Total Credits	No. of Claims	Days per Claim
[ ]	X	7	=	[ ]	+	[ ]	=
				[ ]	÷	[ ]	=
						[ ]	

Type of Survey							
Technical Days		Technical Days Credits		Line-cutting Days	Total Credits	No. of Claims	Days per Claim
[ ]	X	7	=	[ ]	+	[ ]	=
				[ ]	÷	[ ]	=
						[ ]	

Type of Survey							
Technical Days		Technical Days Credits		Line-cutting Days	Total Credits	No. of Claims	Days per Claim
[ ]	X	7	=	[ ]	+	[ ]	=
				[ ]	÷	[ ]	=
						[ ]	

---

# TOKARSKY CORPORATE SERVICES LIMITED

SUITE 806  
88 UNIVERSITY AVENUE  
TORONTO, ONTARIO  
M5J 1T6  
TELEPHONE: 593-6608

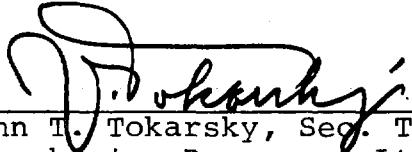
November 11, 1982.

TO WHOM IT MAY CONCERN:

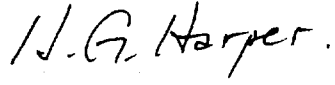
This is to certify that the attached invoices from X-RAY ASSAY LABORATORIES LTD. totalling \$329.50 have been paid and are applicable to assays for gold, silver, copper, lead and zinc, and to spectographic rock analysis of surface and drill core samples from the Cochrane Township property of Kapuskasing Resources Ltd.

All of the analytical results have been submitted previously on drill core logs and prospecting maps or are attached.

Per:

  
John T. Tokarsky, Sec. Treas.  
Kapuskasing Resources Ltd.

Per:

  
H. Grant Harper, President  
Kapuskasing Resources Ltd.



**DISPOSITION OF CROWN LANDS**

TYPE OF DOCUMENT	SYMBOL
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	OC
RESERVATION	⊙
CANCELLED	⊕
SAND & GRAVEL	⊗

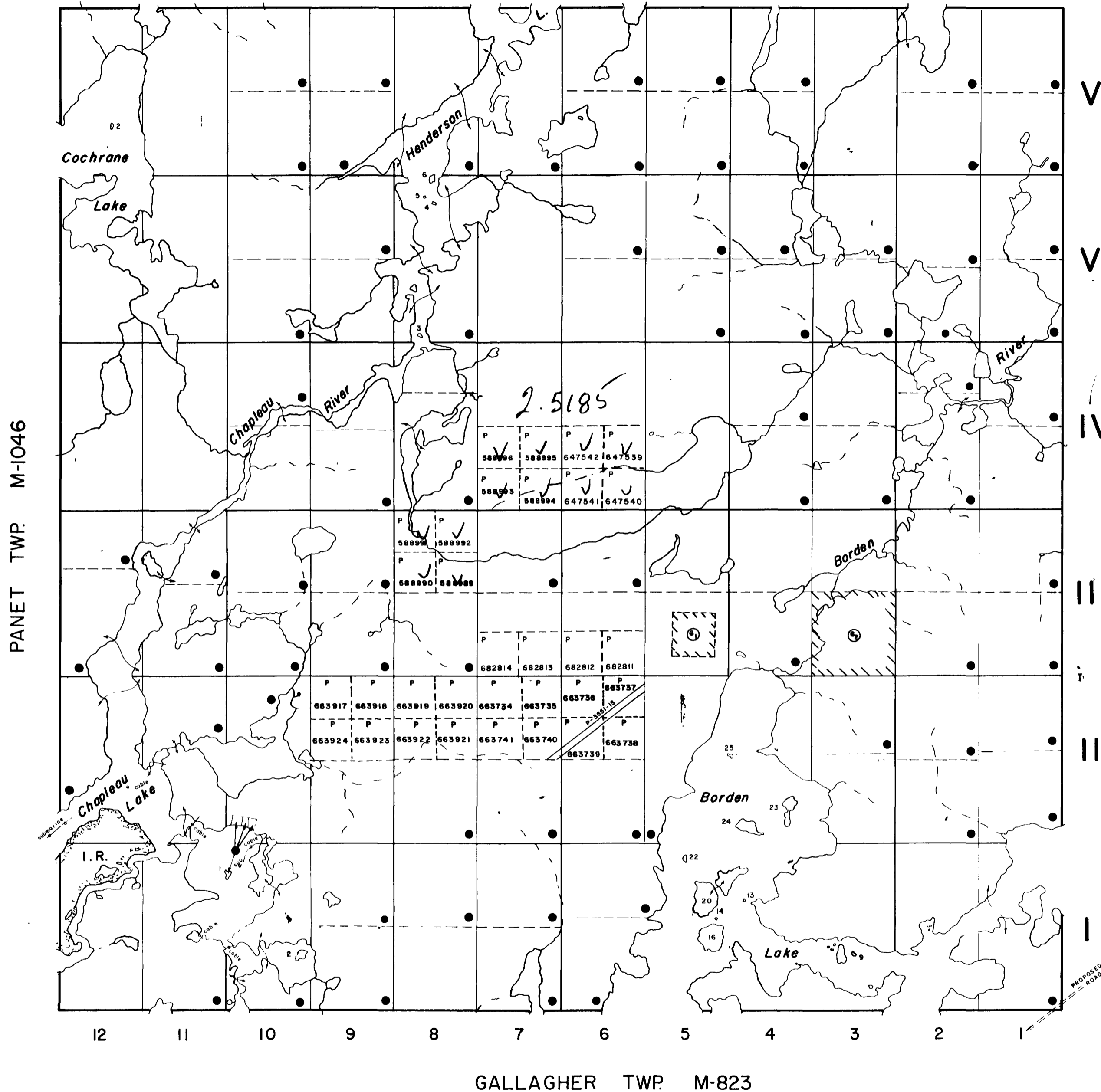
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1

**SAND & GRAVEL**

- ⊗ GRAVEL FILE 58008
- ⊕ MTC PIT NO 961 FILE 117961

**RESERVATIONS**

D'ARCY TWP. M-749

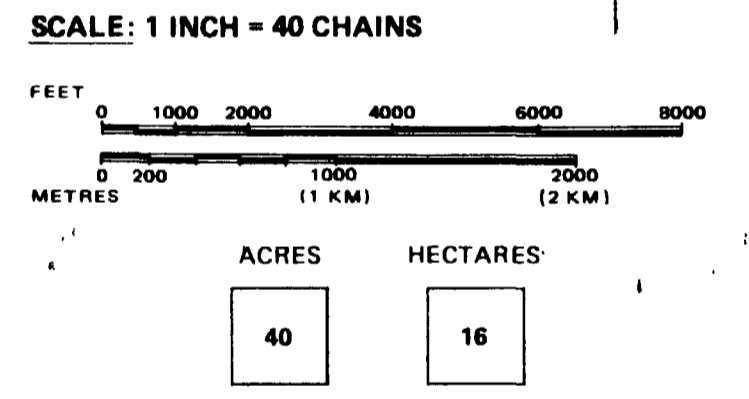


**LEGEND**

HIGHWAY AND ROUTE No	
OTHER ROADS	
TRAILS	
SURVEYED LINES	
TOWNSHIPS, BASE LINES, ETC	
LOTS, MINING CLAIMS, PARCELS, ETC	
UNSURVEYED LINES	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
NON-PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	
SUBDIVISION OR COMPOSITE PLAN	
RESERVATIONS	
ORIGINAL SHORELINE	
MARSH OR MUSKEG	
MINES	
TRAVERSE MONUMENT	

**NOTES**  
400' surface rights reservation along the shores of all lakes and rivers.

DATE OF ISSUE  
**JUN 27 1983**  
Ministry of Natural Resources  
TORONTO



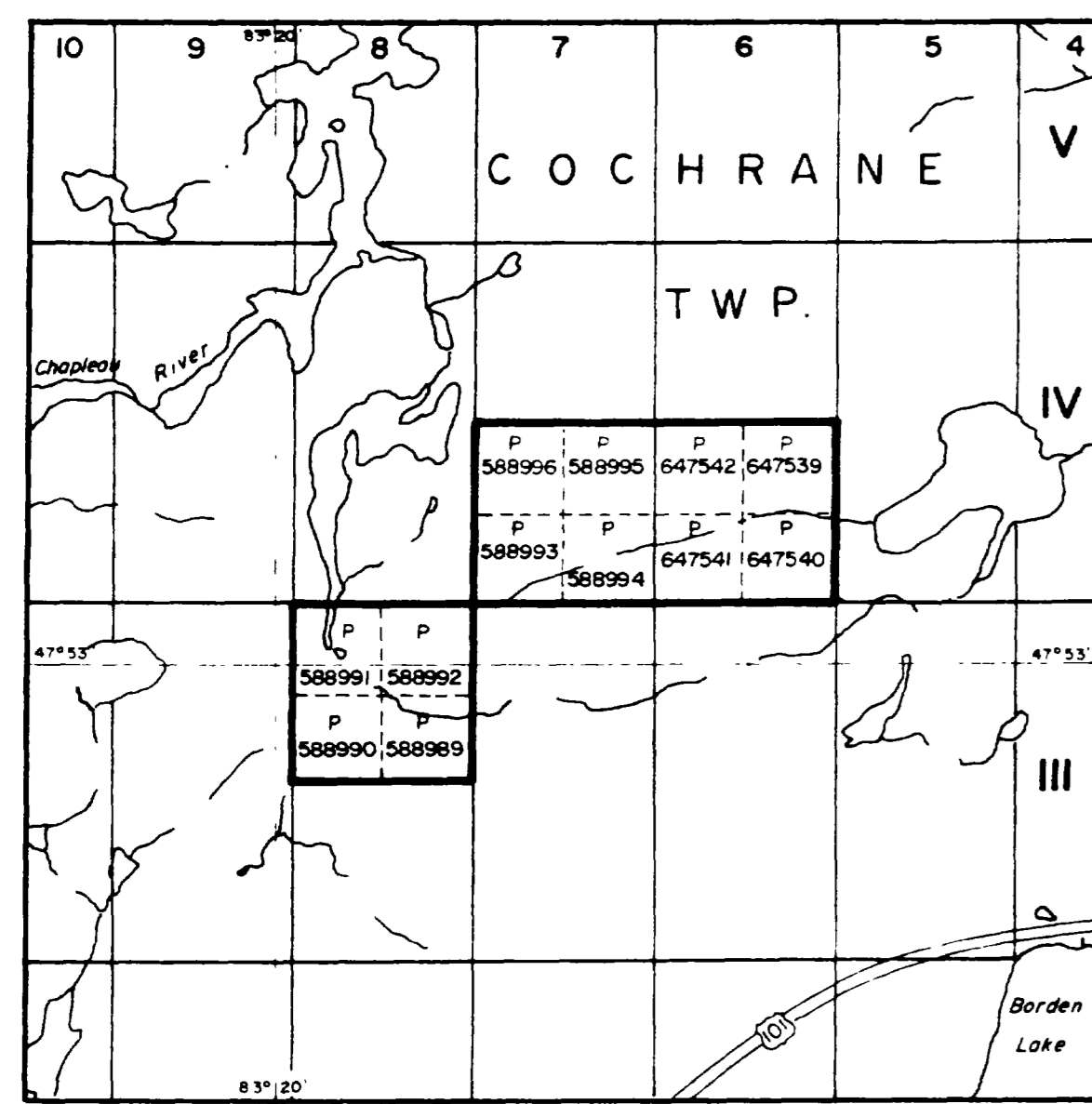
**TOWNSHIP OF COCHRANE**  
**DISTRICT SUDBURY**  
**MINING DIVISION PORCUPINE**

Ministry of Natural Resources  
Ontario  
Surveys and Mapping Branch

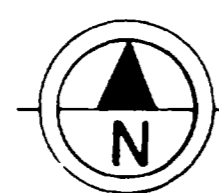
Date FEB /80  
National Topographic Series  
Plan No **M-724**



410145W0005 2 5185 COCHRANE

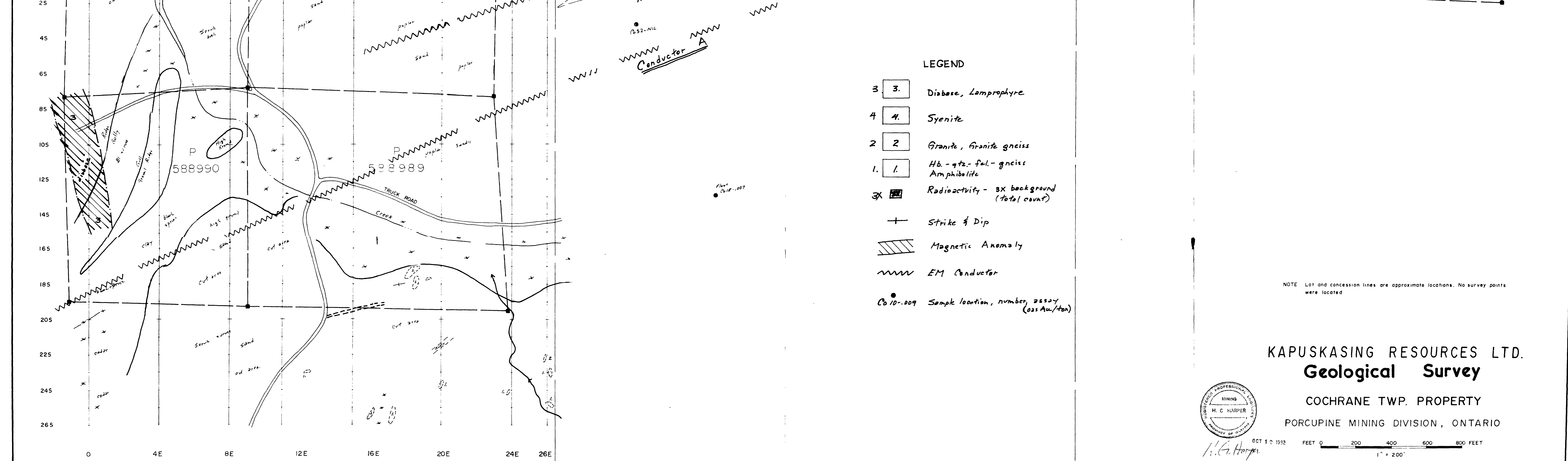


LOCATION MAP  
SCALE 1" = 1/2 MILE



CON. IV  
B.L. 00  
CON. III

CON. IV  
B.L. 00  
CON. III

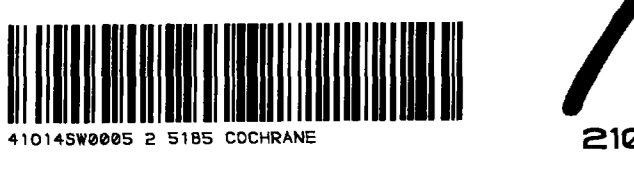
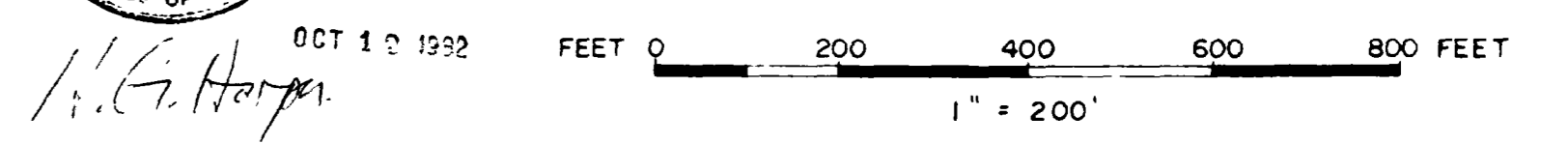
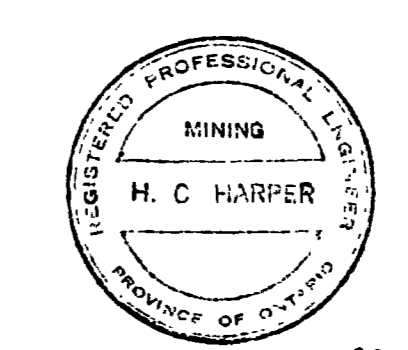


- LEGEND**
- 3 [3] Diabase, Lamprophyre
  - 4 [4] Syenite
  - 2 [2] Granite, Granite gneiss
  - 1 [1] Hb.-qtz.-fol.-gneiss  
Amphibolite
  - 3x [3x] Radioactivity - 3x background  
(total count)
  - + Strike & Dip
  - [Hatched Box] Magnetic Anomaly
  - [Wavy Line] EM Conductor
  - [Dot] Co 10-009 Sample location, number, assay  
(0.25 Au./ton)

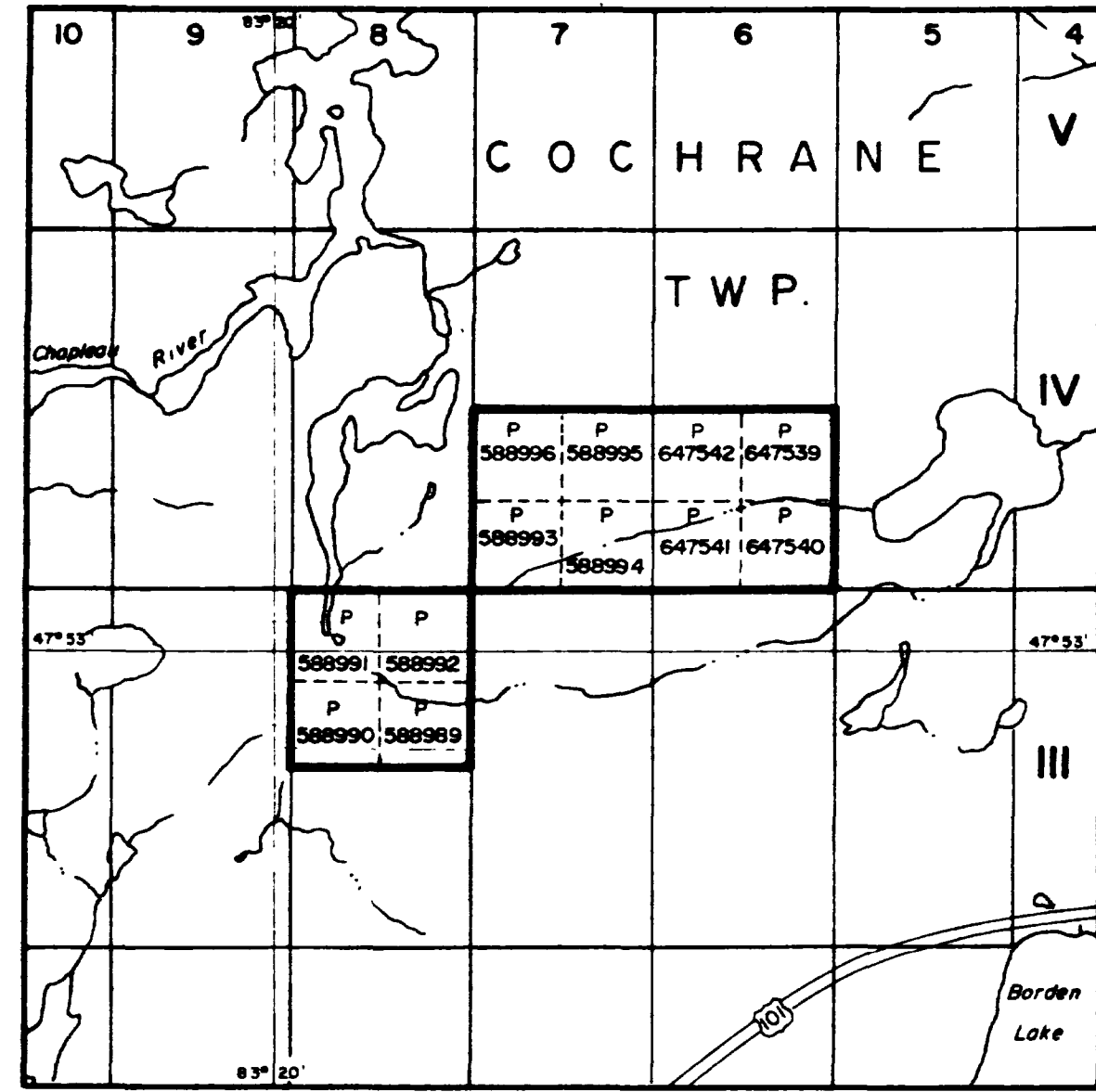
NOTE Lot and concession lines are approximate locations. No survey points were located

**KAPUSKASING RESOURCES LTD.**  
**Geological Survey**

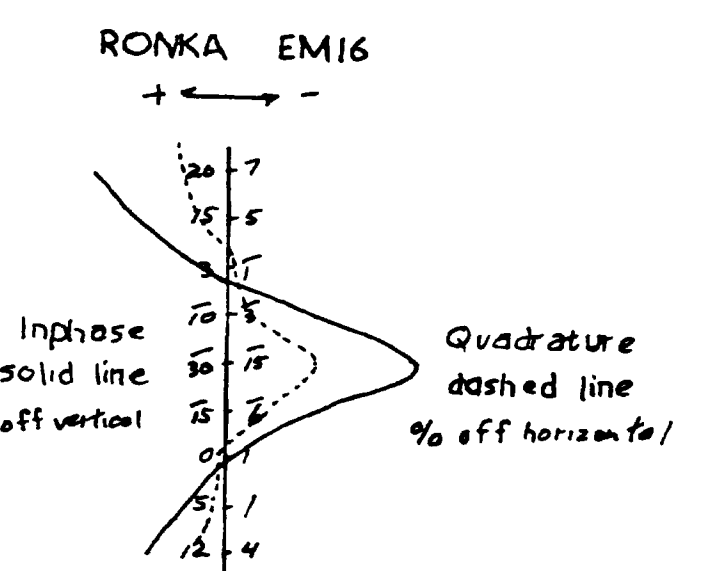
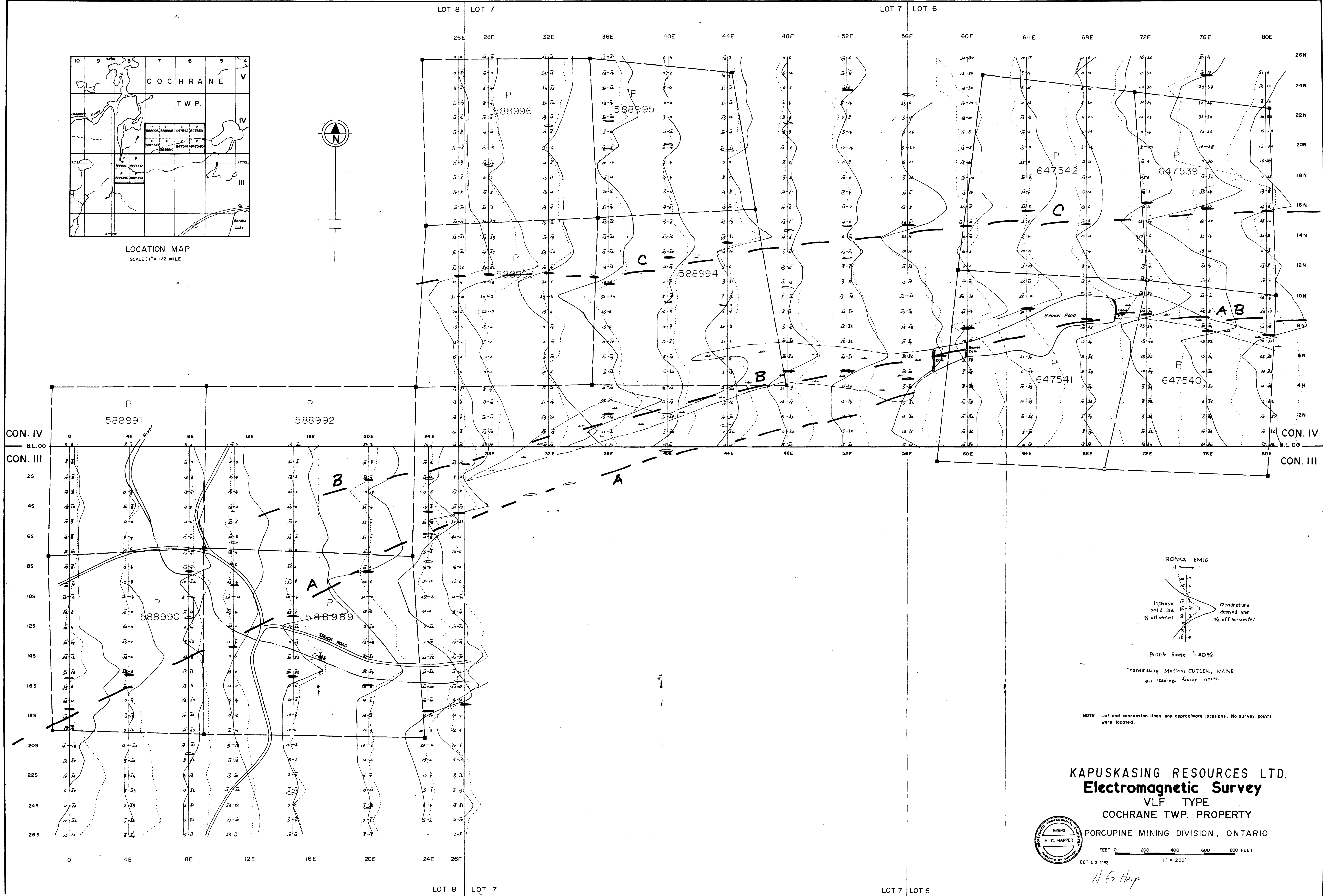
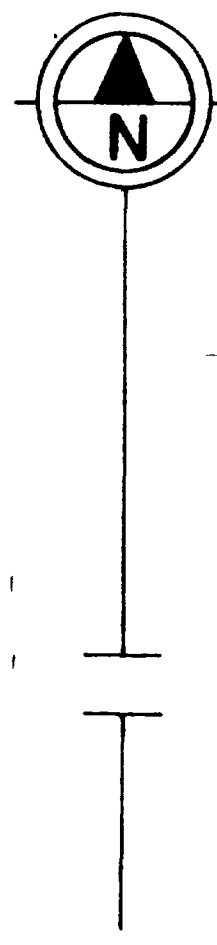
COCHRANE TWP. PROPERTY  
PORCUPINE MINING DIVISION, ONTARIO







LOCATION MAP  
SCALE: 1" = 1/2 MILE



Profile Scale: 1" = 30'  
Transmitting Station: CUTLER, MAINE  
all readings facing north

NOTE: Lot and concession lines are approximate locations. No survey points were located.

**KAPUSKASING RESOURCES LTD.**  
**Electromagnetic Survey**  
VLF TYPE  
COCHRANE TWP. PROPERTY  
PORCUPINE MINING DIVISION, ONTARIO

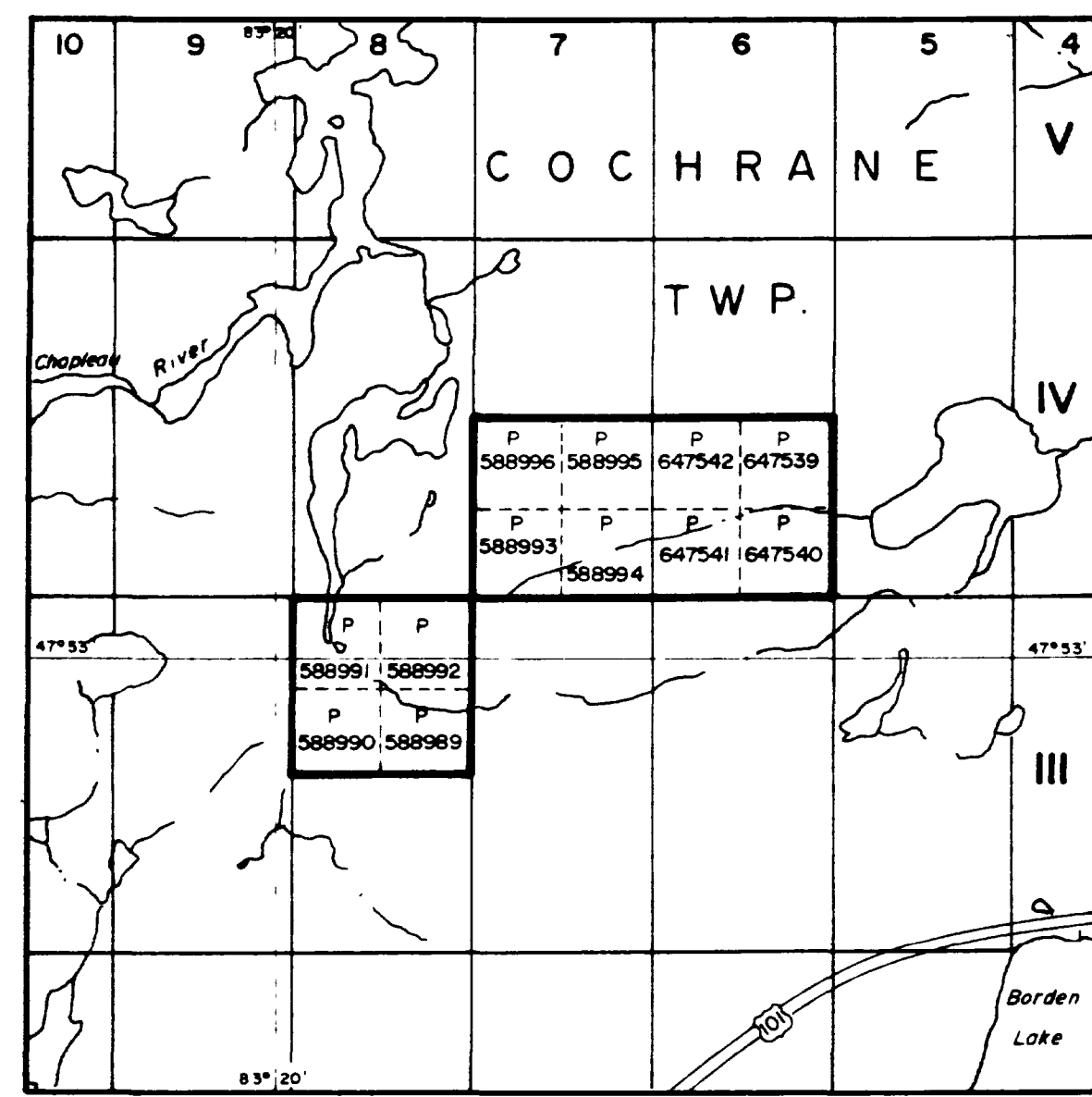


FEET 0 200 400 600 800 FEET  
1" = 200'

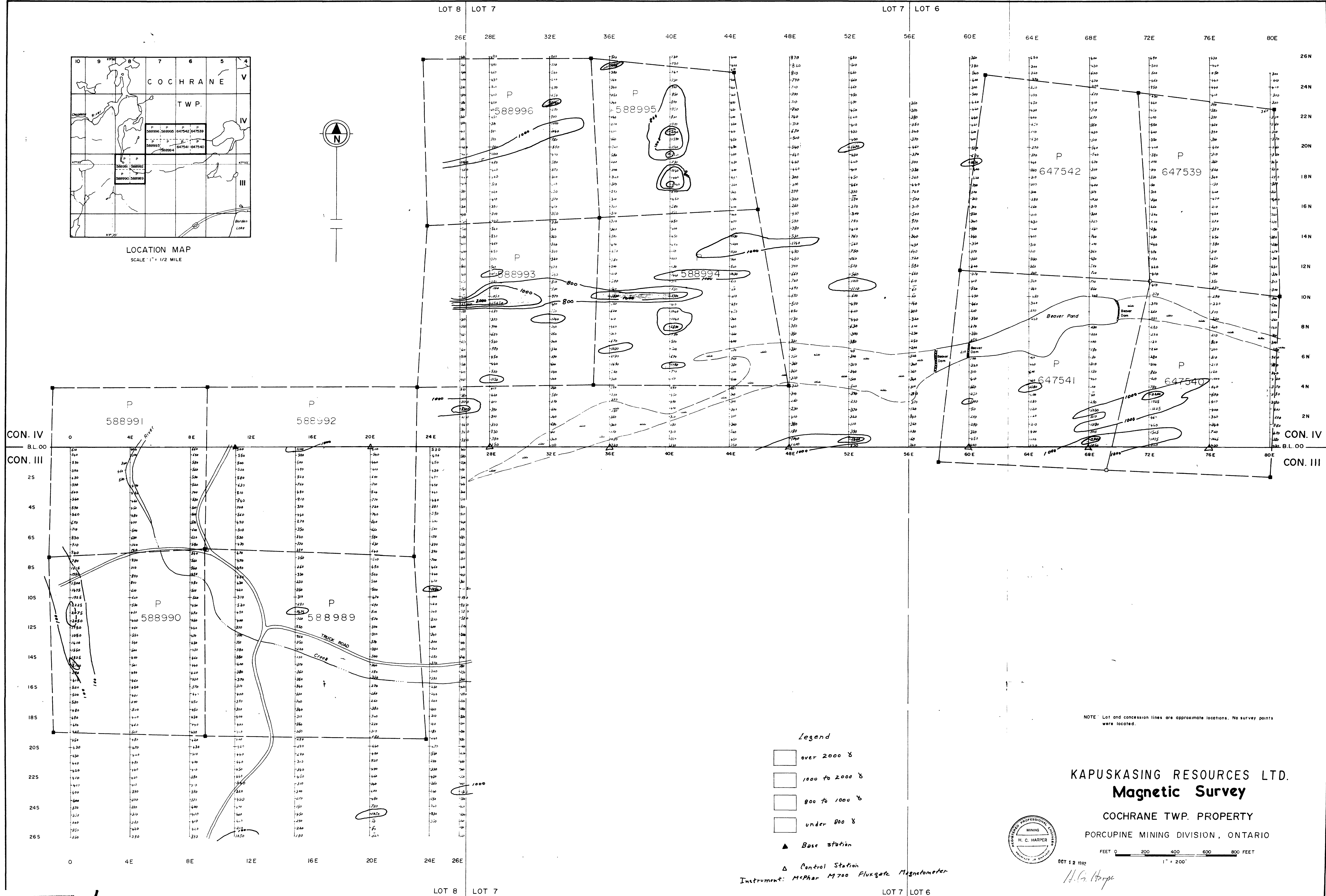
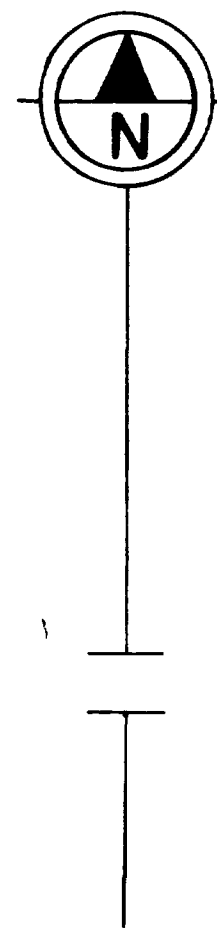
OCT 12 1982

H. C. Harper





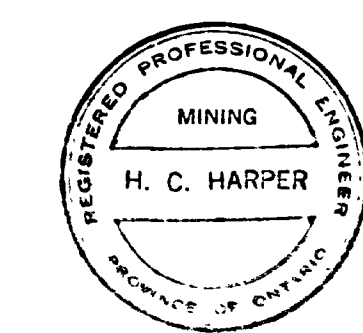
LOCATION MAP  
SCALE 1" = 1/2 MILE



NOTE: Lot and concession lines are approximate locations. No survey points were located.

- Legend
- over 2000  $\gamma$
  - 1000 to 2000  $\gamma$
  - 800 to 1000  $\gamma$
  - under 800  $\gamma$
  - Base station
  - Control Station

Instrument: M-Phar M700 Fluxgate Magnetometer



**KAPUSKASING RESOURCES LTD.**  
**Magnetic Survey**

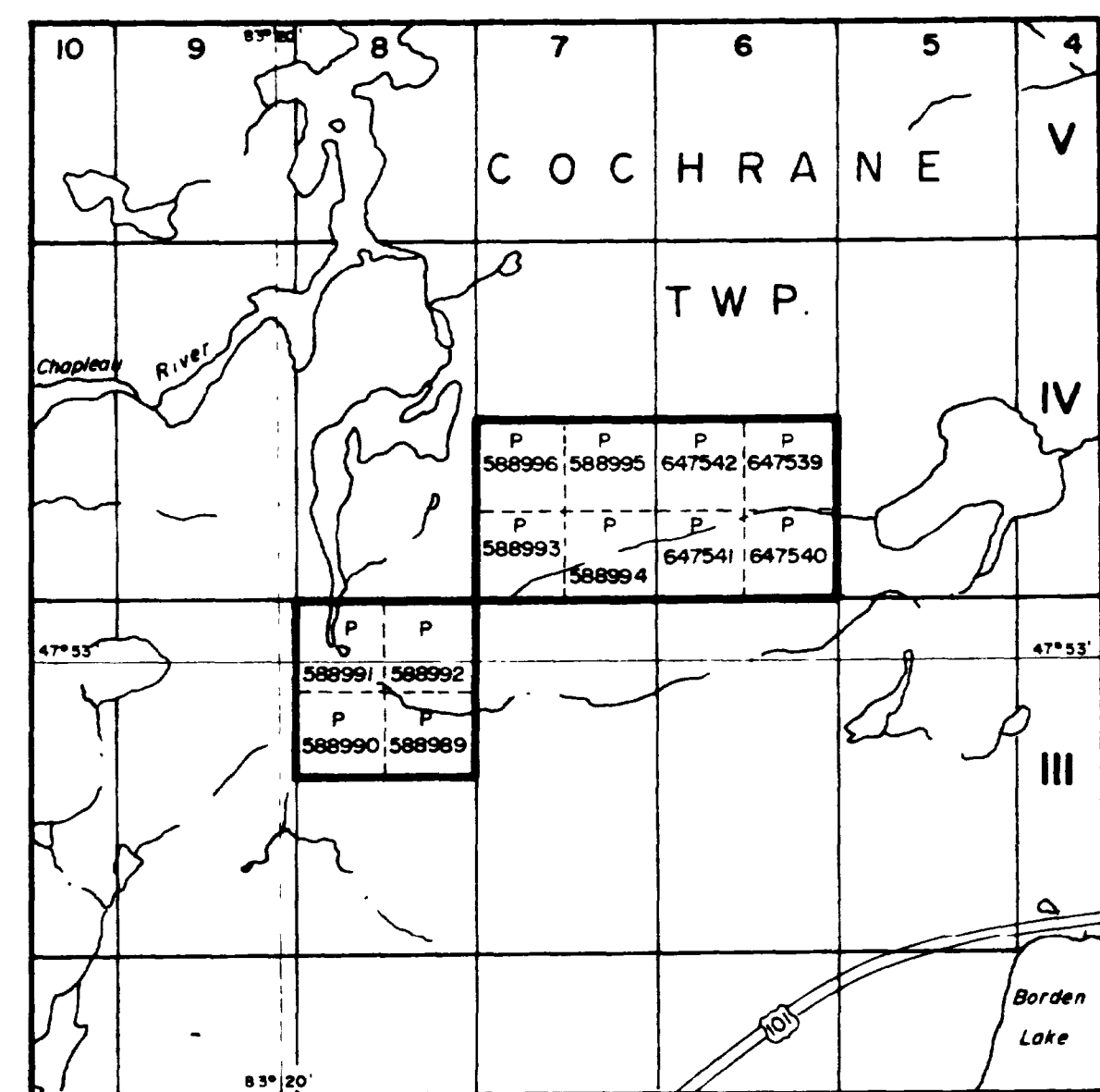
COCHRANE TWP. PROPERTY  
PORCUPINE MINING DIVISION, ONTARIO

FEET 0 200 400 600 800 FEET  
1" = 200'

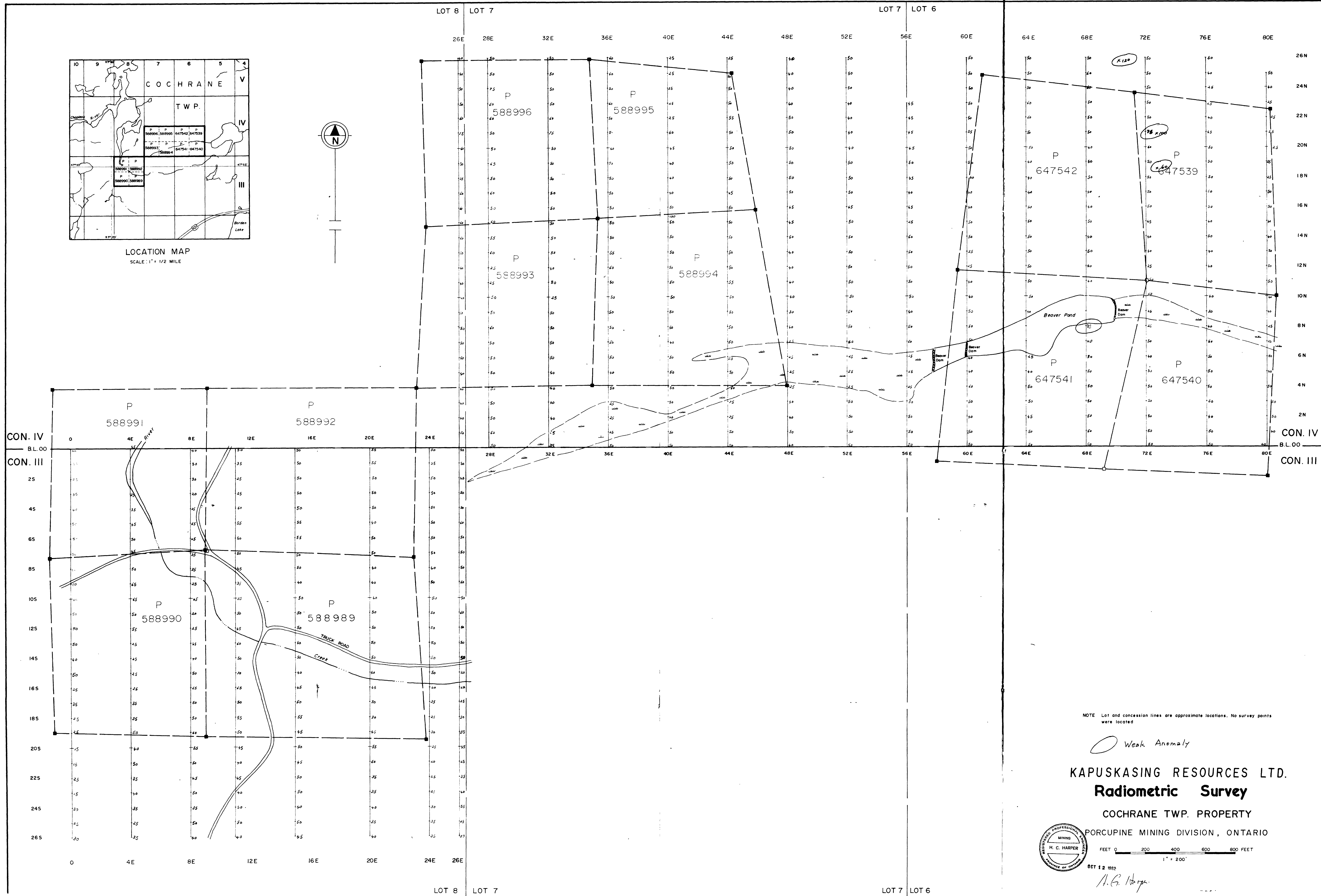
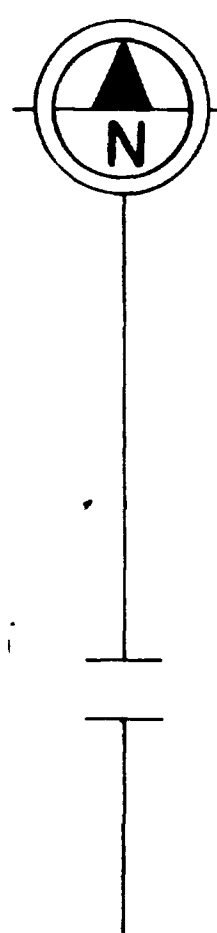
OCT 12 1982

*H. G. Horpe*





LOCATION MAP  
SCALE: 1" = 1/2 MILE



NOTE: Lot and concession lines are approximate locations. No survey points were located.

*Weak Anomaly*

**KAPUSKASING RESOURCES LTD.**  
**Radiometric Survey**

COCHRANE TWP. PROPERTY

PORCUPINE MINING DIVISION, ONTARIO



FEET 0 200 400 600 800 FEET  
1" = 200'

*A.G. Harper*

