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NOV 1 5 1982

MINING LANDS SECTION

KAPUSKASING RESOURCES LTD.

COCHRANE TOWNSHIP PROSPECT

GEOLOGICAL, PROSPECTING AND GEOPHYSICAL SURVEYS

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 $2\frac{1}{2}$ km 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 (horneblende, 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 electrolite. 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

PHUNE 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 176

CUSTOMER NU. 184

DATE SUBMITTED
6-AUG-82

REPORT 15591

REF. FILE 11295-U5

16 ROCKS

WERE ANALYSED AS FOLLOWS:

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY

UATE 24-AUG-82

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1234 . 2	0.002		NIL	
1235 - 3	0.003		TRACE	
1236 - 5	TRACE		TRACE	
1237 -8	0.005		TRACE	
$\sqrt{1238} - 9$	0.002		TRACE	
1239 -10	0.009		TRACE	
1240 -/3	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	

Cichter Typ.

X-RAY ASSAY LAUCRATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO MOB 304

PHINE 416-445-5755

TELEX 66-986947

CERTIFICATE OF ANALYSIS

TE: KAPUSKASING RESOURCES LTD.
ATTN: H.G. HARPER
BB UNIVERSITY AVENUE, SLITE BUE
TORONTO, ONTARIO MBU 116

CUSTEMER NO. 184

CATE SUBMITTED 10-Sep-82

REPERT 15930

REF. FILE 11674-06

9 RUCKS

WERE ANALYSES AS FOLLOWS:

AU CZ/TON

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X-RAY ASSAY LABORATORIES LIVITED
CERTIFIED BY

DATE 23-SEP-82

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Name and Postal Address of Person Certifying



Report of Work

(Geophysical, Geological, Geochemical and Expenditures)



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John Lesens July 2/82

Ontario

837 (5/79)

Ministry of Natural Resources

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Sur	rvey(s) E/	4, Mag.	Rad. & Geol.	
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GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey _____Number of Readings _____2392 Number of Stations /00' Line spacing 400' Station interval _____ Profile scale ______ / "= 30% Contour interval Variable Instrument McPhat M 700 A Accuracy - Scale constant _____ Diurnal correction method Check back on base & control stations Base Station check-in interval (hours) /2 hour Base Station location and value _____ L12E - 0+00 Ronka EM16 Instrument _____ fixed horizontal & vertical Coil configuration _____ NIA Coil separation _____ + 1% ĭ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line Method: Frequency Cutter, Maine - 17.86 KHZ (specify V.L.F. station) Parameters measured Vertical in phase & out of phase components Instrument _____ Scale constant _____ Corrections made Base station value and location Elevation accuracy_____ Instrument _____ ☐ Frequency Domain Parameters - On time ______ Frequency _____ - Off time _____ Range ____ Delay time ____ - Integration time Power ____ Electrode array Electrode spacing Type of electrode _____

INDUCED POLARIZATION

SELF POTENTIAL	
Instrument	Range
Survey Method	
Corrections made	
RADIOMETRIC	
	McPhar TC 33A Sciltillometer
Values measured	total gamma counts per second
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Height of instrument hip level	Background Count 55 cps
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AIRBORNE SURVEYS	
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Geotechnical Report Approval Jan 27/8

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Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 287

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 H7A 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 ining 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;

?.- 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 Fining Division.

Yours truly,

11-G. Harper

RECEIVED

MOV 1 5 1982

MINING LANDS SECTION



(Geophysical, Geological, Geochemical and Expenditures)

exceeds space on this form, attach a list.

Note: - Only days credits calculated in the "Expenditures" section may be entered

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Type of Survey(s)				· · · · · · · · · · · · · · · · · · ·	Township	or Area	, <u>, , , , , , , , , , , , , , , , , , </u>	
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VLF electromagn Claim Holder(s) Kapuskasing Address	2	1 1	1	<i>V</i>		Prospector's	Licence No.	
Kapuskasing	Kesource	r Lto	1.			7	1077	
Address Suite 806 - 88 Survey Company			- "					
Suite 806 - 88	University A	7 /U	mlo.					
Survey Company	. 1 D p.	. ,		Date of Survey	(from & to)	11 82 1	otal Miles of lin	e Cut
A John R. Lil	11 1/2 Lh.			5 7 Day Mo.	82 /2 Yr. Day	Mo. Yr.	12.8	
Name and Address of Author (o	of Geo-Technical report) 3 14 Hene	Vm An	e, hi	llandale				
Credits Requested per Each (laims Traversed (List in num	erical sequen	ce)	
Special Provisions	Geophysical	Days per		lining Claim	Expend.		ning Claim	Expend.
For first survey:		Claim	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.
Enter 40 days. (This	- Electromagnetic	20		588 989				l
includes line cutting)	- Magnetometer	20	in ***	588 990				
For each additional survey:	- Radiometric	20		588 991		****		
using the same grid: Enter 20 days (for each)	- Other			588 992				
	Geological	40	1. 1. 11. 11. 11. 11. 11. 11. 11. 11. 1	588 993				
Man Days	Geochemical		Tree T	588 994				
	Geophysical	Days per Claim	The second section of the second seco	588 995				
Complete reverse side and enter total(s) here	- Electromagnetic		10 m - 10 mg/m	588 996				
	- Magnetometer		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		ļ		·····	
	- Radiometric			647 539	ļ			
	- Other			647 540				
	Geological		# 4	647 541				
	Geochemical			647542		4		
Airborne Credits		Days per						
		Claim			 	13.05=4		
Note: Special provisions	Electromagnetic		11.1					
. credits do not apply to Airborne Surveys.	Magnetometer							
		\vdash						
	Radiometric		3.7					
Expenditures (excludes power	er stripping)							
Type of Work Performed					 			
	<u></u>							
Performed on Claim(s).		1			1 1			
•	·		A. A. Trans		1			
					 			
Calculation of Expenditure Days	e Credite		E Course		1 1			
Total Expenditures	The second secon	Total s Credits						
\$	+ 15 =					Total numb	per of mining red by this	12
Instructions						report of w		16
Total Days Credits may be as				For Office Use C	nly	٦		
in columns at right.	s visulus per glaim selecti	~	Total Day	Cr. Oate Recorded	, Assa Cart	Mining Reco	order	
<u></u>	I rate of Diag		Pregorded		\$ \$5.50	fill the second		
Nov 12/82 Add	corded Holder or Agent (* (200 FF 10) 1 s	Date Approved	as Recorded	Branch Dire	ctor	

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

Name and Postal Address of Person Certifying

Certification Verifying Report of Work

1/CH 1/h

						25 Fa S CEAN STREET STREET	as precov.
Prosi	xeting, 5	molin	1	caying	Townships [Cochrone	
Holder's)	. ,)		, , ,	,	ı	Prespector's Licence	
Andrew Kapuskasi	ing Resource	tcs i	LTd.			7 10	77
Suite 806 8	8 Uhiversita	An	Ton	n 10			
Survey Company					(from & to)	Total Mites	of line Cut
July Esser Name and Address of Author (o	7 - PW5	pertor	-	Day Mo.	Yr. Day	11 82 Mo. Yr. /	2.8
Name and Address of Author (o	. 11	don A	m. his	llondak			
Credits Requested per Each (laims Traversed (I	_ist in nume	rical sequence)	
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For first survey:	- Electromagnetic		P	588 989	4		
Enter 40 days. (This includes line cutting)	- Magnetometer			508 990			
	- Radiometric			<u> </u>	7		· · · · · · · · · · · · · · · · · · ·
For each additional survey: using the same grid:				588 991	1		
Enter 20 days (for each)	- Other			588992	4		
	Geological			588 993	4		
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Ţ	- Radiometric			(42 530	<u></u>		······
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Airborne Credits	 	Days per Claum					
Note: Special provisions	Electromagnetic						
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Type of Work Performed	2550~150						
Sampling 9 Performed on Claim(s)	21/0///19						
211 claim	r					:	
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Calculation of Expenditure Days	s Credits						
Total Expenditures		Total s Credits		: - -			
\$ 329.50	÷ 15 = 2	22 4		Reverse		Total number of min	ning
Instructions			>>>	NEVERSE		claims covered by th report of work.	is /2
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in columns at right.			Total Day Recorded	s Cr. Date Recorded		Mining Recorder	
Date Red	orded Holder or Agent (S			Date Approved	as Recorded	Branch Director	
No 12/82 A	6. 18-6- Nerp	4.			·		
Certification Verifying Repo							
I hereby certify that I have a or witnessed same during and		_			of Work annex	ked hereto, having perf	ormed the work
Name and Postal Address of Pers	son Certifying						
1.67. Hes	-per.			<u></u>			
- L	1			Date Certified	,	Certified by (Signatu	re)

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 rospecting Technical Days Technical Days Credits No. of Claims Days per Claim Line-cutting Total Credits Days 28 28 12 2 4 = ÷

Type of Survey

Technical Days Line-cutting Total Credits No. of Days per Credits Days Total Credits Claims Claim

X 7 = + = ÷ = =

Type of Survey

Technical Days Line-cutting Total Credits No. of Claims Claim

X 7 = + = ÷ = =

Type of Survey

Technical Days Credits Days Total Credits No. of Claims 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.

1.G. Harper.

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DISPOSITION OF CROWN LANDS TYPE OF DOCUMENT SYMBOL PATENT, SURFACE & MINING RIGHTS _____ , SURFACE RIGHTS ONLY..... , MINING RIGHTS ONLY ___ , MINING RIGHTS ONLY..... SAND & GRAVEL

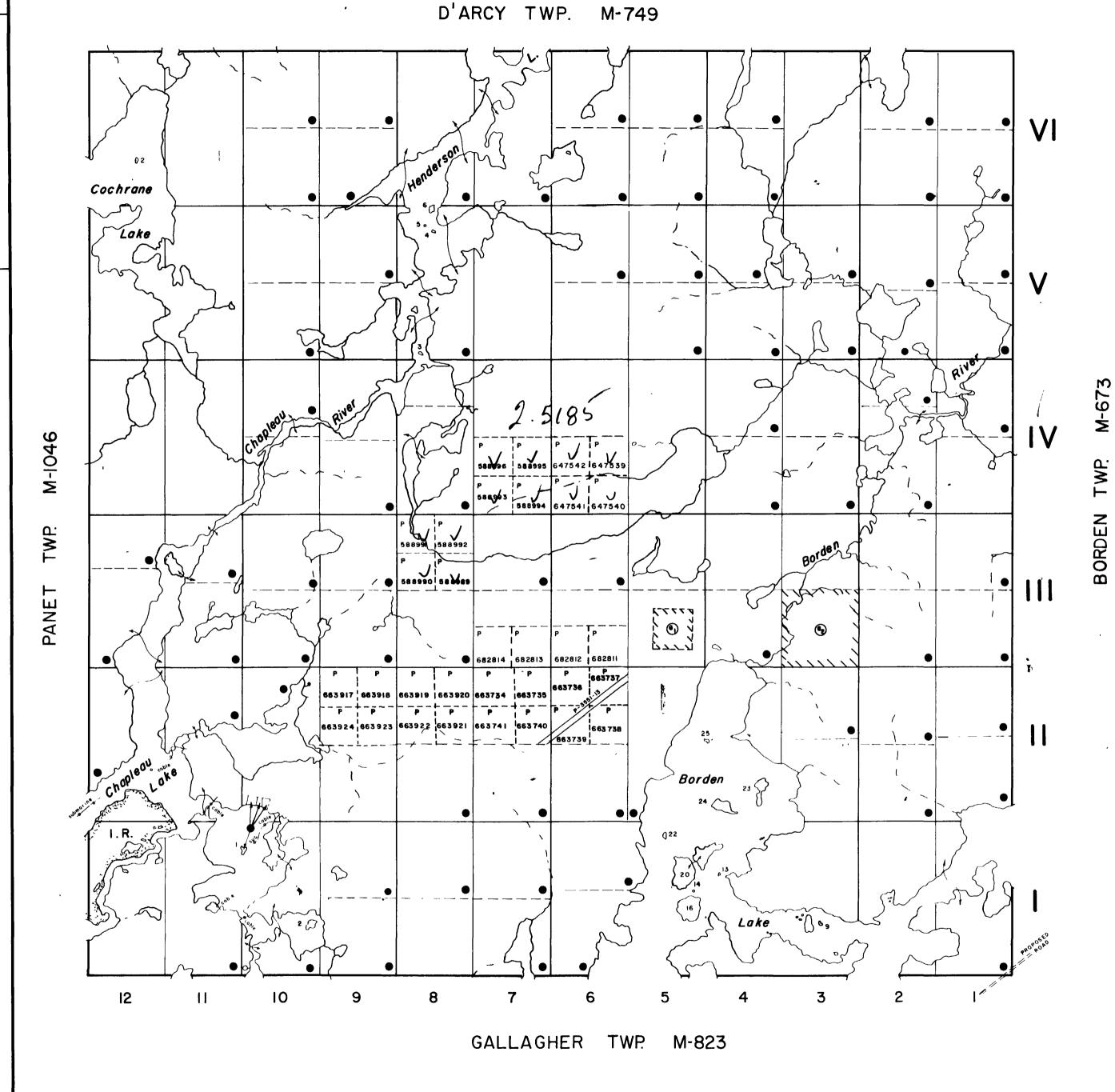
SAND & GRAVEL

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

GRAVEL FILE 58008

MTC PIT Nº 961 FILE 117961

RESERVATIONS





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

HIGHWAY AND ROUTE No

· NOTES ·

400' surface rights reservaton along the shores of all lakes and rivers.

DATE OF ISSUE

JUN 27 1983

Ministry of Natural Resources

SCALE: 1 INCH = 40 CHAINS

(1 KM) ACRES HECTARES.

16

TOWNSHIP OF

COCHRANE

DISTRICT

SUDBURY

PORCUPINE

MINING DIVISION

Ministry of Natural Resources

Surveys and Mapping

Ontario

Branch

FEB /80

National Topographic Series

Plan No M - 724

