



41P15NE8335 2.5018 CAIRO

010

GEOLOGICAL SURVEY
MATACHEWAN PROJECT

CLAIM NUMBERS

L-537314 - L-537317

CAIRO TOWNSHIP
LARDER LAKE MINING DIVISION
ONTARIO

BY
PAMOUR PORCUPINE MINES LIMITED
EXPLORATION DEPARTMENT

JUNE 20, 1982

INTRODUCTION

A detailed geological study of the EMCM property was carried out to establish contact relationships between the various lithologies and to identify favourable zones for gold mineralization. In regards to the latter, syenite bodies were carefully examined. These are similar to felsic porphyritic rocks of the nearby Young-Davidson and Matachewan Consolidated Mines properties which contain economic concentrations of gold.

The field work was carried out on Aug 1, 1980 to Aug 14, 1980, under the supervision of Tony van Wiechen, who was assisted by Paul Rohleder and Janet Bloemendal, all of the Pamour Porcupine Mines Limited Exploration Department. Interpretation and report writing were done June 10, 11, 20, 1982 and January 4, 5, 1982 by Tony van Wiechen and Ed van Hees.

LOCATION AND ACCESS

The EMCM property is situated directly west and northwest of the town of Matachewan in northeastern Ontario (See Geological Map Inset).

The property is reached by travelling west from Matachewan along Highway 66 to a point 1/2 mile west of the river. From there a trail leads up to the television relay tower. A foot path leads from there to the southwest corner of the grid.

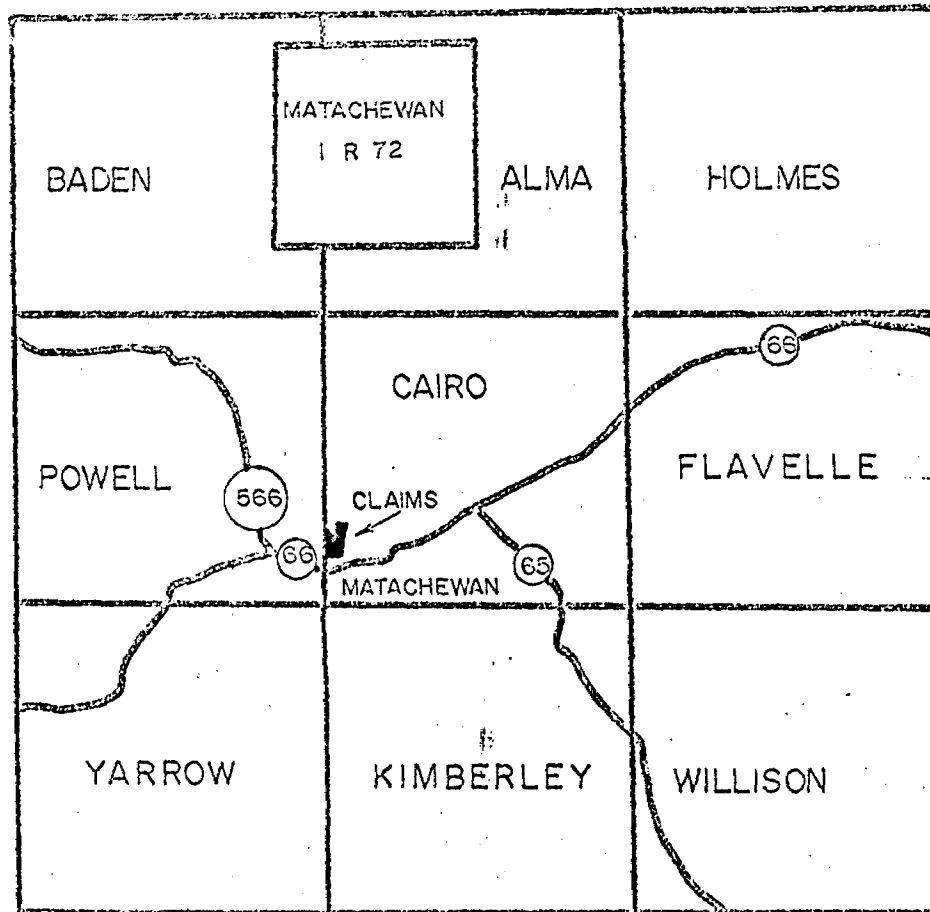
PROPERTY

The location of 4 claims comprising the EMCM property is shown on figure 1. These claims are situated in the southwestern quarter of Cairo Township. The claim numbers comprise the following: L-537314 through L-537317 inclusive.

Pamour Porcupine Mines Limited holds a 100% interest in the EMCM Property.

REGIONAL GEOLOGY

Cairo Township is located in the southwestern portion of the Abitibi greenstone belt of the Superior Structural Province. This belt of Archean rocks is world renowned for its



LOCATION MAP

SCALE: 1" = 4 miles

outstanding mineral deposits.

The regional geology of the Matachewan area has been studied and described in several government reports (Burrows, 1918; Lovell, 1967). However, its stratigraphic position relative to other districts, i.e., Kirkland Lake District, are debatable (Ridler, 1976; Jensen, 1980).

Within Cairo Township, the Archean rocks consist of a volcano-sedimentary sequence of Keewatin volcanic rocks and Timiskaming sedimentary rocks. Diorites, syenites, and granites, and north-trending diabase dykes all of Archean age intrude the sequence. Proterozoic conglomerates, sandstones, and siltstones of the Gowganda Formation unconformably overlie the Archean rocks. Pleistocene glacial and recent swamp and stream deposits overlie much of the bedrock.

PROPERTY GEOLOGY

The EMCM property is predominantly underlain by Archean age metavolcanic rocks of basaltic or andesitic composition. These rocks range from massive to tuffaceous in texture and appear to exhibit a northeasterly strike. A narrow band of sedimentary rocks comprised principally of arkose and greywacke, is found inter-related with the volcanic rocks in the center of the claim group. Numerous outcrops of syenite are also exposed over most of the property. The lack of good exposure did not allow the determination of whether this syenite was strataform in habit or is present as small cross cutting dikes. North - trending diabase dikes of the Metachewan diabase dike swarm are common and outcrop over the entire property as well. They cut all earlier Archean age rocks and represent the final Archean event in the area. In the center of the claim a small area (1000' x 400') is comprised of conglomerates (tillites) of the Gowganda Formation. The Cobalt Group rock formation lies horizontal and therefore unconformably on the Archean rocks. Pleistocene lodgement till as well as recent swamp and stream deposits overlie much of the bedrock. Overburden is generally thin with depths generally less than 20 feet.

Rock units exposed on the property are listed below (Table 1) etc.

TABLE 1

GEOLOGICAL FORMATIONS

Phanerozoic

Cenozoic

Quaternary

Recent: Swamp and stream deposits

Pleistocene: Till, sand, gravel, clay

Proterozoic

Huronian

Cobalt Group

Cowganda Formation: Siltstone, sandstone, conglomerate

Archean

Matachewan: Diabase

Algoman: Syenite

Timiskaming: Greywacke, arkose, conglomerate

Keeewatin: Mafic flows, tuff

TABLE 2

<u>Rock Type</u>	<u>Colour</u>	<u>Mineralogy</u>	<u>Texture</u>	<u>Grain Size</u>
Basalt	dark green-black	plagioclase, pyroxene, chlorite, sericite, pyrite, quartz	massive	fine-grained to aphanitic
Andesite	light green-black	plagioclase, quartz, chlorite, biotite, sericite	massive, occasionally	fine-grained to aphanitic
Greywacke	pale grey to dark grey	greenstones, orthoclase, quartz, plagioclase, chlorite, pyrite	massive to slightly schistose	clasts - 0.2 - 0.9 mm matrix - fine- grained
Syenite	red-brown	orthoclase, quartz, plagioclase, hornblende	massive	medium-grained
Diabase	greenish-black	plagioclase, pyroxene	diabasic	coarse-grained to fine-grained

DESCRIPTION OF FORMATIONS

ARCHEAN STRATIGRAPHY

A Volcanic Rocks

The oldest rocks in the area are of Keewatin age, consisting of volcanic flows and volcanic fragmental rocks. Mafic flows are most common and tuffaceous types are less common. Distinguishing between the different types of volcanic rocks is difficult, due to the similar brownish-grey weathered surfaces and greenish-grey-black fresh surfaces. The darker green, more basic looking types are regarded as basalts, being often highly altered and slightly magnetic. A petrographic description of this rock type is shown in Table 2.

Rocks somewhat lighter in colour than the basalts and which often contain small phenocrysts of feldspar are regarded as andesite. These are also described in Table 2. Numerous exposures of both rock types are present on the property.

Tuffs are generally andesitic in composition and form a narrow belt outcropping in the extreme southern portion of the property. Here the tuffs are highly magnetic.

B Sedimentary Rocks

The Timiskaming sedimentary rocks are extensively developed in Cairo Township. The rocks range in composition from conglomerate to arkose and greywacke, with the latter being most predominant. A description of this rock is presented in Table 2.

C Intrusive Rocks

Numerous outcrops of syenite are present on the entire claim group. These may represent small dikes or cupolas related to the Cairo stock or they may represent strataform extrusive or subvolcanic intrusive equivalents to the Cairo stock syenites.

Based upon a colour classification, four types of syenite are recognized on the property: brown, red-brown, red and red-black. However, in the Matachewan area, up to ten varieties of syenite have been recognized. Texturally, the rocks vary from porphyritic to massive and vary in grain size from fine-grained to coarse-grained. Mineralogically, the syenites contain varying amounts of orthoclase, albite, quartz, sericite, chlorite, and pyrite.

Numerous dyke swarms of "Matachewan" diabase cut all earlier intrusions, but are uncomformably overlain by rocks of the Cobalt Group. The "Matachewan" dykes trend generally northerly forming large distinctive exposures, especially within the central portion of the property. A sample of this diabase is described in Table 2.

PROTEROZOIC STRATIGRAPHY

A Cobalt Sedimentary Rocks

Flat-lying sedimentary rocks of the Cobalt series crop out along the creek between Hollinger Lake and the west Montreal River. Lithologies present include conglomerate, siltstone, and sandstone, commonly known as the Gowganda formation. The matrix of the conglomerates is a brown to pink fine-grained arkose. Clasts, ranging in size from pebbles to boulders, are generally granitic and greenstone in composition.

STRUCTURAL GEOLOGY

A Folding

The major structural features in the Matachewan area are two broad easterly trending synclines. In Cairo Township, two belts of Timiskaming sedimentary rocks represent the two axes of the synclines.

The EMCM property lies on the south, overturned limb of the southern most syncline. Secondary folding of the overturned rock units has resulted in the rock units trending north easterly and dipping 70 degrees to the southeast on the property whereas regionally these rock units trend east-west and dip steeply to the south.

B Faulting

Within the property, one major fault is present. This fault is commonly known as the Montreal River - Narrow Lake fault which follows the valley of the east branch of the Montreal River and Narrow Lake. The fault is north-trending and has been assumed to be a normal (tension) fault with possible horizontal displacement of the west side southward (Lovell, 1967). Several other minor faults and shear zones are also recognized. These are generally east west trending.

METAMORPHISM

Chlorite, sericite, and epidote are abundant in all volcanic rock types signifying greenschist grade of regional metamorphism.

MINERALIZATION

Gold mineralization has been reported on the EMCM property in a pit that currently lies on the east claim line of claim L-537314. This pit was relocated using H. Lovell's geological map #2110 printed in 1967. The earth filled nature of this trench prevent it from being resampled.

Elsewhere on the property very little mineralization was found in the way of pyrite or other sulphides. Where it does occur it generally is less than 2% of the rock mass and is accompanied by quartz veining. This latter veining generally strikes northwest-southeast unless it has developed into a stockwork.

REFERENCES

- Burrows, A. G., 1918, The Matachewan Gold Area.
Ontario Bureau (Dept.) Mines, v. 27, pt. 1, p. 215 - 240
- Lowell, H. L., 1967, Geology of the Matachewan Area, Ontario.
Dept. Mines, Report 51, p. 61.
- Jensen, J. S., 1980, Kirkland Lake - Larder Lake Synoptic Mapping
Project in Ontario Geological Survey.
Miscellaneous paper 96, p. 55 - 60.
- Ridler, R. H., 1976, Stratigraphic Keys to Gold Metalloging of the
Abitibi Belt.
Can. Mining Jour., v. 97, No. 6, p. 81.

SCHEDULE B

The Required Information is as follows:

Author of Report: E. van Hees

Dates of Survey: August 1, 1980 - August 14, 1980

Office: June 10, 11, 20, 1982

Drafting: January 4 & 5, 1982

Total amount of expenditures:

Total man days -

Field:	2 men @ \$85/day for 10 days	\$1,700
Office:	5 days report writing and drafting @ \$100/day	500

Total Expenses	\$2,200
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41P15NE8335 2.5018 CAIRO

020

GEOCHEMICAL SURVEY

MATACHEWAN PROJECT

INTRODUCTION

During May, 1981, a soil geochemical program was conducted on the EMCM claim group located in the southwestern corner of Cairo Township as indicated on the location map.

The survey was conducted to assist in the location of gold mineralization, which may be similar to the deposits at the Young-Davidson and Matachewan Consolidated Mines.

Sampling was completed from May 26 to 29, 1981 by K. LaPierre, G. Posthumus, D. Pietracupa and N. Ackerman, all employees of the Exploration Department, Pamour Porcupine Mines Limited. Compilation was done on February 3, 4, 1982 by B. Cooper. The interpretation and report writing was completed on June 20, 1982 by D. Brisbin and E. van Hees (Schedule B).

PREVIOUS WORK

Records of work on the EMCM before the acquisition of the claim by Pamour Porcupine Mines Limited (June 25, 1979) were not located in the assessment files, Kirkland Lake.

Upon acquisition, Pamour has conducted the following:

- 1980 - VLF-EM survey
- 1981 - Magnetic survey
- Soil Geochemical survey
- Geological survey
- 1982 - VLF-EM and Magnetic survey on Hollinger Lake

SOIL GEOCHEMISTRY

Pleistocene Geology

The glacial drift comprised of lodgement tills which are poorly sorted sandy gravels and comprised of various lithological clasts ranging from pebbles to cobbles. In several depressions, the clasts form well rounded boulder fields.

Several areas are covered by recent swamp and stream deposits.

Sampling Procedures

A total of 155 samples were collected at intervals of 100 feet along a north-south grid with a line spacing of 400 feet.

The samples were of the "C" horizon, which was located beneath a prominent leached grey colour "B" horizons. Samples

were not obtained from swampy areas or on outcrops due to the amount of organics. Sampling in the boulder fields was difficult and if the "C" horizon was not located a sample was not collected. Generally, the samples were obtained from a depth between 6 inches to 10 inches and comprised of brownish orange to yellowish orange, oxidized sandy-pebble till.

Upon drying, the samples were screened and the -80 mesh fraction was used. This fraction was pulverized before assaying for gold (in ppb) by fire assay (F.A.) and atomic absorption (A.A.)

Data Presentation

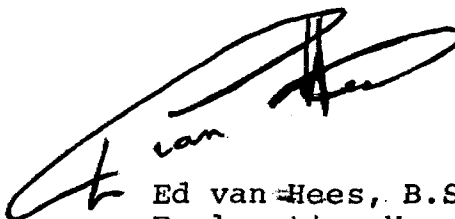
The data is plotted on a base map, 1 inch to 200 feet, with the contour intervals multiples of the mean or background values. The mean average for gold is 43.3 ppb, and the resulting contours at 43, 86, 129, 172, etc.

CONCLUSIONS AND RECOMMENDATIONS

The mean for the EMCM is 43 ppb of Au., and several areas exhibit values above this. These anomalies are several orders of magnitude greater, and are either due to the bedrock lithology or due to an old stream bed which parallels the present day creek from Hollinger Lake.

It is recommended that the areas of high anomalous values be resampled on a smaller grid bases, to locate the source more accurately. Upon completion and depending on the values, stripping and/or trenching may be warranted.

I hereby submit that this report and accompanying map are accurate and true to the best of my knowledge and that they were completed by myself this 20th day of June, 1982.

A handwritten signature in black ink, appearing to read 'Ed van Hees', with a stylized flourish extending from the end.

Ed van Hees, B.Sc., M.Sc.,
Exploration Manager.

EVH/kg

SCHEDULE B

DATE	PERSONNEL	FUNCTION
May 25 to May 29, 1981	K. LaPierre G. Posthumus D. Pietracupa N. Ackerman	Soil Sampling Soil Sampling Soil Sampling Soil Sampling
February 3,4, 1982	B. Cooper	Compilation
June 20, 1982	Ed van Hees Dan Brisbin	Report and Interpretation

EXPENDITURES

Field: 4 men @ \$85/day x 4 days	\$1,360.00
Offices: 3 days drafting, report @ \$100/day	300.00
	<hr/>
TOTAL	#1,960.00



Type of Survey(s) **Geology + Soil Geochem**

Claim Hold: **PAMOUR PORCUPINE MIN.**

Address: **P.O. Bag 2010 Timmins, Ont. P4X 7X7**

Survey Company: **SAME**

Date of Survey (from & to): **various dates 1980+81**

Total Miles of line Cut: **4 1/2 miles**

Name and Address of Author (of Geo-Technical report): **E. VAN HEES**

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	20
	Geochemical	20

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)

Mining Claim Prefix	Number	Expend. Days Cr.
L	535714	
	535715	
	535716	
	535717	
	537314	
	537315	
	537316	
	537317	

Mining Claim Prefix	Number	Expend. Days Cr.
RECEIVED		
JUN 29 1982		
MINING LANDS SECTION		
LARD		
R		
JUN 23 1982		
AM		
7 18 19 10 11 12 1 2 3 4		

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures ÷ = 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.

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

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
160	JUN 23 1982	<i>[Signature]</i>
Date Approved as Recorded	Branch Director	

Date **June 22/82**

Recorded Holder or Agent Signature: *[Signature]*

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: **E. VAN HEES % PAMOUR EXPLORATION**

P.O. Bag 2010 Timmins, Ont.

Date Certified: **June 22/82**

Certified by: *[Signature]*



Mining Lands Comments

~~No qualifications~~

O.K.

To: Geophysics

Comments

Approved Wish to see again with corrections Date Signature

To: Geology - Expenditures *n/r Kustrea*

Comments

Approved Wish to see again with corrections Date *Jan 7 1983* Signature *Chustrea*

To: Geochemistry *Dr Fortescue*

Comments

Approved Wish to see again with corrections Date *Jan 7 1983* Signature *JAC Fortescue*

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

2.5018

1983 07 18

2.5018

Mr. George J. Koleszar
Mining Recorder
Ministry of Natural Resources
4 Government Road East
P.O. Box 984
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

RE: Geological and Geochemical Survey on Mining Claims
L 537314 et al in the Township of Cairo

The Geological and Geochemical Survey assessment work credits
as listed with my Notice of Intent dated June 21, 1983 have
been approved as of the above date.

Please inform the recorded holder of these mining claims
and so indicate on your records.

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

D. Kinvig:mc

Encl.

cc: Pamour Porcupine Mines
Timmins, Ontario

cc: Resident Geologist
Kirkland Lake, Ontario



Ministry of
Natural
Resources

Ontario

July 13/83

Your file:

1983 06 21

Our file:

2.5018

Mr. George J. Koleszar
Mining Recorder
Ministry of Natural Resources
4 Government Road East
P.O. Box 984
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

Yours very truly,

E.F. Anderson
Director
Lands Administration Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

For further information, if required,
please contact Mr. F.W. Matthews at
(416) 965-1380.

D. Kinvig:mc

Encl.

cc: Pamour Porcupine Mines
Timmins, Ontario

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario



Ministry of
Natural
Resources

Ontario

Notice of Intent
for Technical Reports

2.5018

1983 06 21

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

Pamour Porcupine Mines, Limited
Administration Building
P.O. Bag 2010
Timmins, Ontario, Canada P4N 7X7

pamour

April 15, 1983

Mr. A. Barr,
Whitney Block,
Room #6450,
Queen's Park,
TORONTO, Ontario.
M7A 1W3

RECEIVED

APR 19 1983

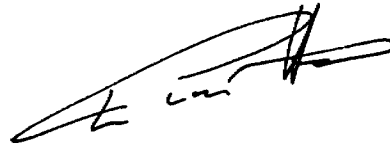
MINING LANDS SECTION

Dear Mr. Barr:

Please find enclosed an updated copy of my Vita
as per your recent request.

Hoping this meets your requirements, I remain.

Sincerely yours,



Ed van Hees,
Exploration Manager.

EVH/kg

VITA

NAME: Edmond Harry van Hees

PLACE OF BIRTH: De Grave, Nord Brabant, The Netherlands

YEAR OF BIRTH: 1952

POST-SECONDARY
EDUCATION AND
DEGREES: University of Waterloo
Waterloo, Ontario
1971-1975 Hons. B.Sc.

University of Western Ontario
London, Ontario
1975-1979 M. Sc.

RELATED WORK
EXPERIENCE: Geological Assistant,
Getty Mines Limited,
1972-1974, summers

Demonstrator,
Department of Earth Sciences,
University of Waterloo,
1974-1975 school year

Geologist,
Cominco Exploration Limited,
1975, summer

Demonstrator,
University of Western Ontario
1975-1977, school years

Mine Geologist
Pamour Porcupine Mines Limited,
Aunor Division,
1976, summer

Lecturer,
Fanshawe College, London, Ontario
1977, school year

Exploration Geologist,
Goldfields Mining Corporation,
1978-1979, fulltime

Area Exploration Manager,
Pamour Porcupine Mines Limited,
Exploration Department
1979- to date

1983 03 31

2.5018

Pamour Porcupine Mines
P.O. Bag 2010
Timmins, Ontario
P4X 7X7

Attention: Mr. E. VanHees

Dear Sir:

RE: Geological and Geochemical survey submitted on Mining
Claims L 537314 et al in the Township of Cairo.

Enclosed is a copy re: Qualifications of author of Geotechnical
Survey report submitted for assessment work credits. Please
submit a brief resume for our records.

For further information, please contact Mr. F.W. Matthews at
416/965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room #6450
Queen's Park
Toronto, Ontario
M7A 1W3

A. Barr:mc

Encl.

cc: Mining Recorder
Kirkland Lake

1982 09 21

2.5018

Mining Recorder
Ministry of Natural Resources
4 Government Road East
P.O. Box 984
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

We have received reports and maps for a Geological and Geochemical Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims L 537314 et al in the Township of Cairo.

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

Yours very truly

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

J. Skura:sc

cc: Pamour Porcupine Mines
Timmins, Ontario
Attn: E. Van Hees

SCHEDULE A

<u>CLAIM NO.</u>	<u>DAYS</u>	
L-537314	20	GEOLOGY
L-537315	20	"
L-537316	20	"
L-537317	20	"
L-537314	20	GEOCHEMISTRY
L-537315	20	"
L-537316	20	"
L-537317	20	"

Alma Twp. - M.202

THE TOWNSHIP
OF

CAIRO

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND (P)
- CROWN LAND SALE (C.S.)
- LEASES (L)
- LOCATED LAND (Loc.)
- LICENSE OF OCCUPATION (L.O.)
- MINING RIGHTS ONLY (M.R.O.)
- SURFACE RIGHTS ONLY (S.R.O.)
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED (C.)
- PATENTED for S.R.O.

NOTES

400' Surface Rights Reservation along the shores of all lakes and rivers

AREAS WITHDRAWN FROM STAKING

S.R. - SURFACE RIGHTS	M.R. - MINING RIGHTS
Section	Order No. Date Disposition Fee
(M) V.H.F. Tower robin site	S.R. 15376 v.2

SAND and GRAVEL

- (M) M.T.C. Gravel Pit 206
- (M) M.T.C. Gravel Pit 1313
- (M) Gravel Pit 204, File 127307
- (M) M.T.C. Gravel Pit 3F-4, File 127307
- (M) M.T.C. Pit 3F-28
- (M) Gravel Pit 205
- (M) Gravel Pit
- (M) M.T.C. Gravel pit 3F-21

DATE OF ISSUE

JAN - 5 1983

Ministry of Natural Resources
TORONTO

PLAN NO. **M.210**

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

Povell Twp. - M.241

Flavelle Twp. - M.220

Kimberley Twp. - M.226



PAMOUR EXPLORATION

EAST OF MCM CLAIMS

CAIRO TOWNSHIP, ONTARIO.
LARDER LAKE MINING DIVISION

SOIL GEOCHEMISTRY GOLD

CLAIM NUMBERS: L-537314 TO L-537317

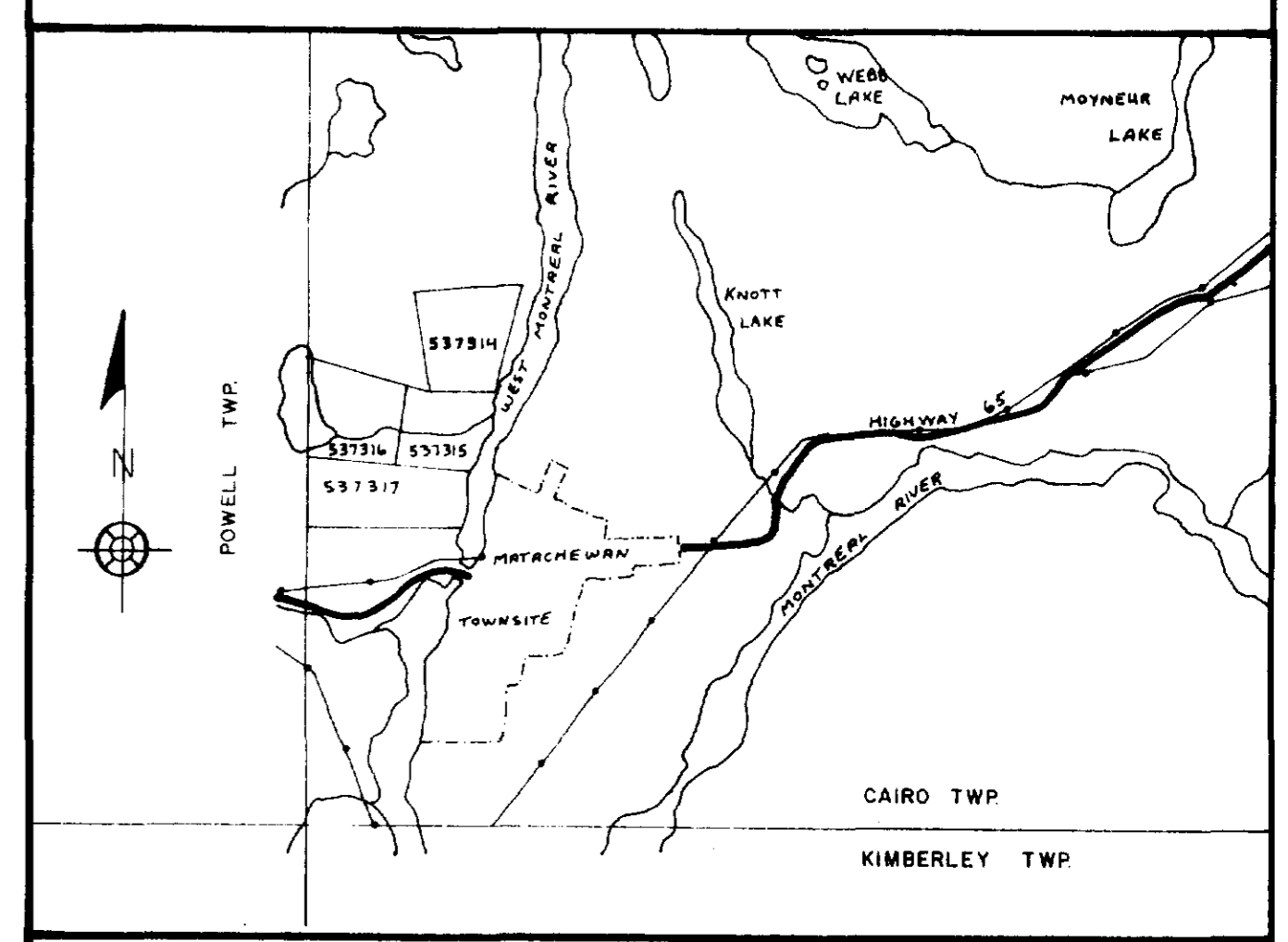
SCALE: 1 inch = 200 feet

DRAWN BY: K.A.J.

APPROVED BY: *E.A.B.*

REVISION BY:

DATE: *June 20/82*



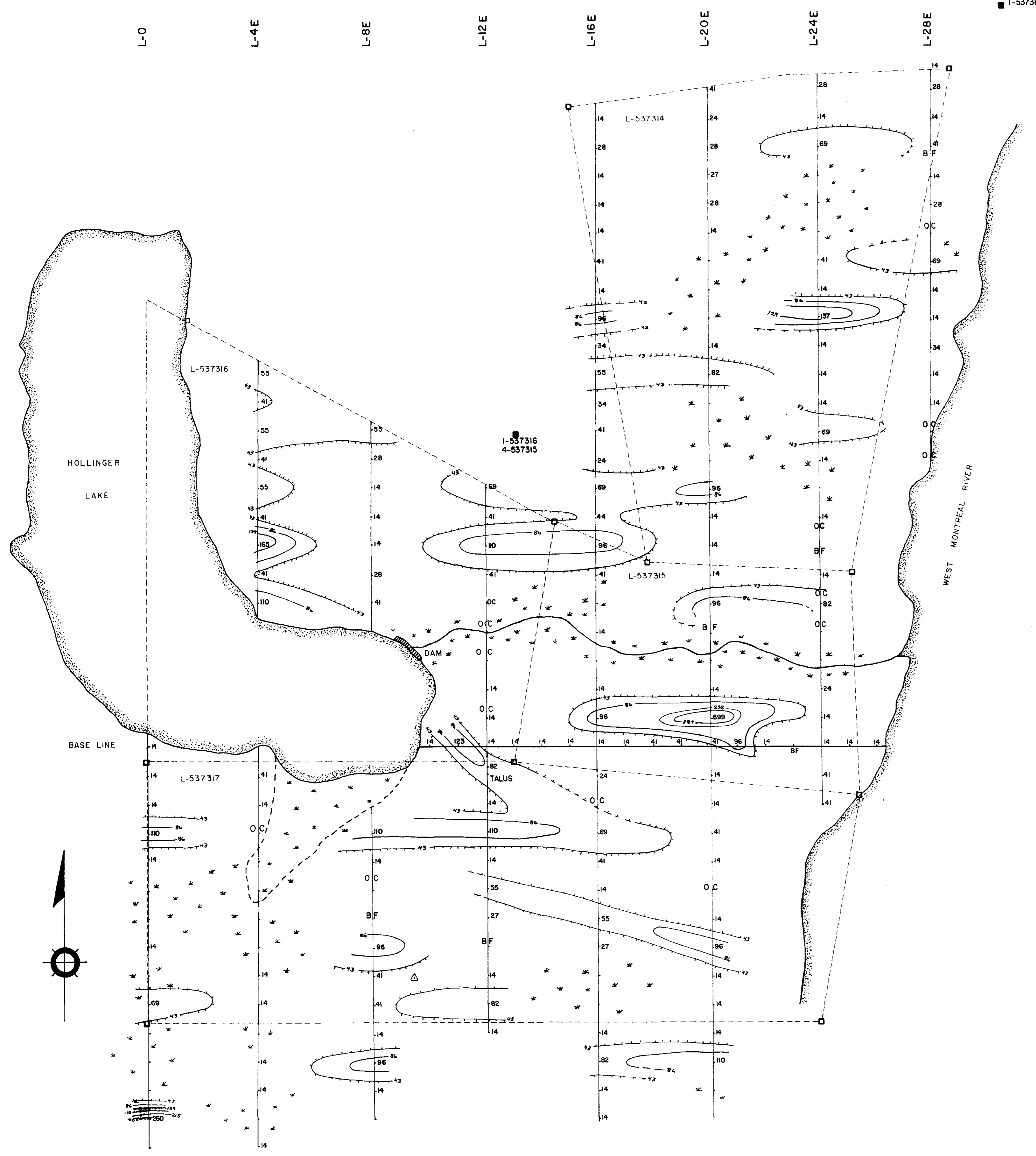
LOCATION MAP

SCALE: 1 INCH = 1/2 MILE

KEY

- CLAIM POST
- - - CLAIM LINE
- SURVEY LINE
- ≡ BUSH ROAD
- * SWAMP
- SHORE LINE
- HYDRO LINE
- △ COMMUNICATION TOWER

- OC OUTCROP AREA
- BF BOULDER FIELD
- 41. GOLD (PPB)



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PAMOUR EXPLORATION

EAST OF MCM CLAIMS

CAIRO TOWNSHIP, ONTARIO.
LARDER LAKE MINING DIVISION

GEOLOGY

CLAIM NUMBERS: L-537314 TO L-537317

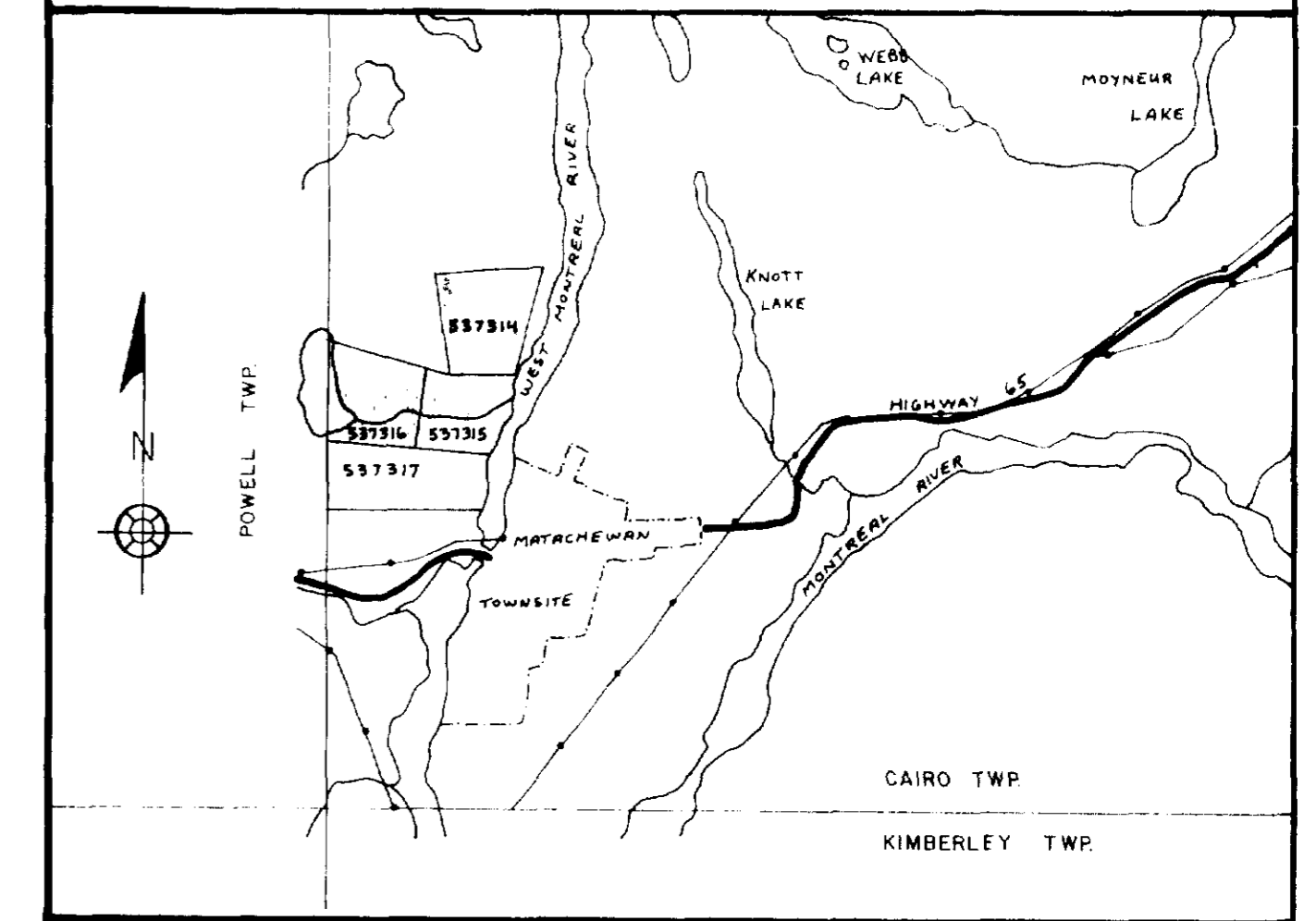
SCALE: 1 inch = 200 feet

DRAWN BY: K.A.J.

APPROVED BY: *[Signature]*

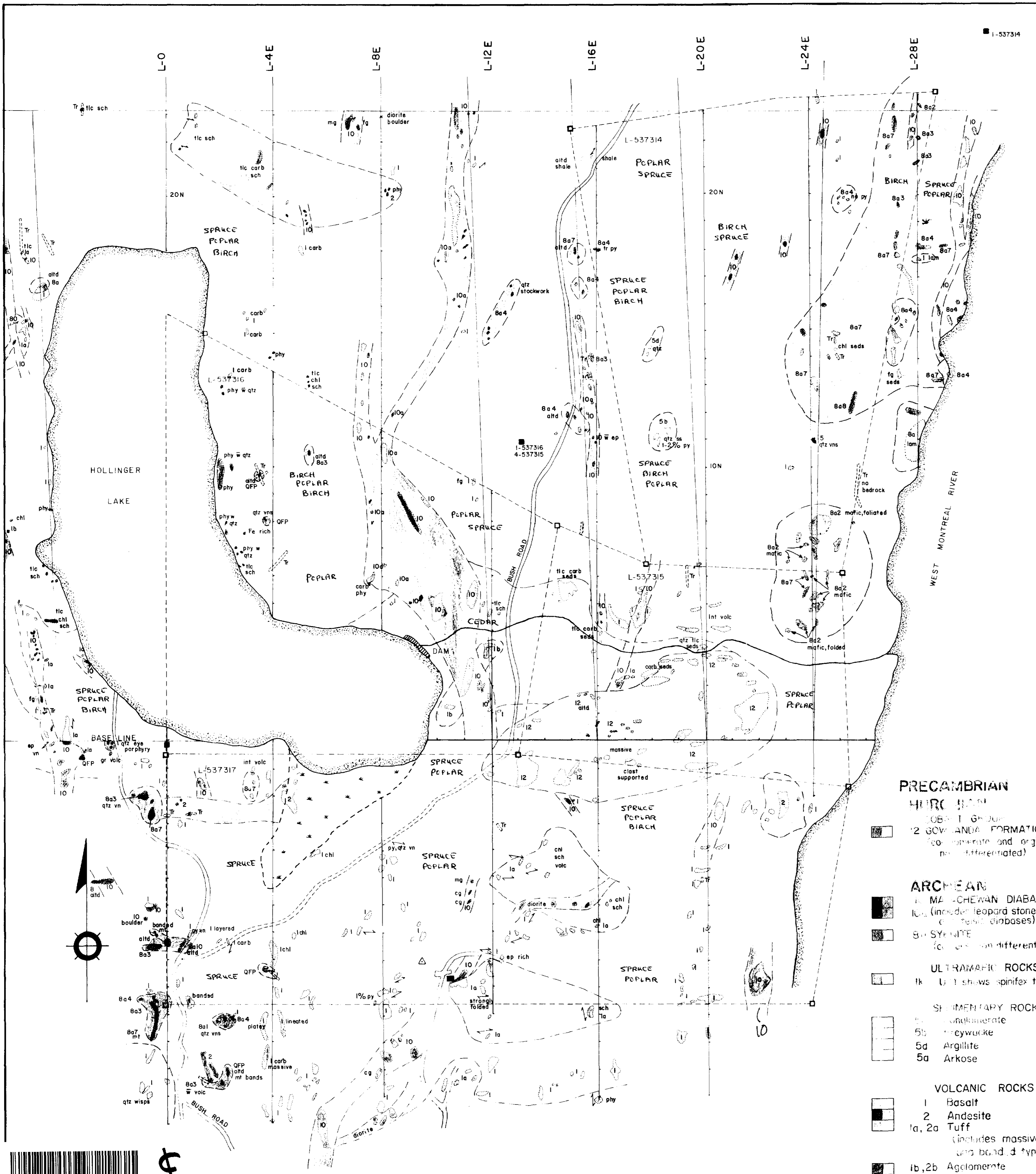
REVISION BY:

DATE: June 19/82



LOCATION MAP

SCALE: 1 INCH = 1/2 MILE



KEY

- ■ CLAIM POST (APPROXIMATE, LOCATED)
- - - CLAIM LINE
- SURVEY LINE
- BUSH ROAD
- ★ SWAMP
- SHORE LINE
- ○ HYDRO LINE
- △ COMMUNICATION TOWER
- Tr TRENCH

PRECAMBRIAN

- 10B-1 Gabbro
- 12 GOVINDA FORMATION (limestone and argillite not differentiated)

ARCHEAN

- 1 MATICHEWAN DIABASE (includes leopard stone and felsic diorites)
- 8a SYENITE (color not differentiated)

ULTRAMAFIC ROCKS

- 1k (1a) shows spinifex texture

SEDIMENTARY ROCKS

- 5a sandstone
- 5b greywacke
- 5d Argillite
- 5a Arkose

VOLCANIC ROCKS

- 1 Basalt
- 2 Andesite
- 1a, 2a Tuff (includes massive and banded types)
- 1b, 2b Agglomerate

COLORS

- 1 BEIGE
- 2 BROWN
- 3 RED BROWN
- 4 RED
- 5 CHERRYRED
- 6 PURPLE
- 7 RED BLACK
- 8 BROWN BLACK
- 9 GREEN
- 10 GREEN

ABBREVIATIONS

alt	altered	phy	phyllite
chl	chlorite	chl	chlorite
mg	medium grained	sch	schist
cg	course grained	dir	diorite
bg	beige	fs	feldspar
rd	red	mt	magnetite
brn	brown	b	boulder
py	pyrite	py	pyrite
tr	tuff	lam	laminated
qtz	quartz	carb	carbonate
sed	sediment	QFP	quartz feldspar porphyry
vns	vms	alt	altered

