



42A10SW0099 2.8874 MATHESON

010

REPORT ON A BASAL TILL PROGRAM.

IN

**MATHESON TOWNSHIP
PORCUPINE MINING DIVISION**

FOR

CLEYO RESOURCES INC.

**RECEIVED
FEB 06 1986
MINING LANDS SECTION**

January 23, 1986

W. MacRAE

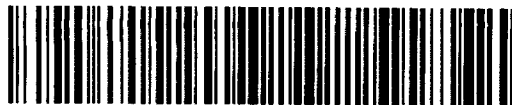


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LIST OF MAPS

MAP 1	SAMPLE SITE LOCATIONS	(in back pocket)
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WORK SUMMARY

Overburden Sampling	\$ 1,495.00
Supervision and Report	\$ 2,120.00
Total Expenditures	\$ 3,615.00

Man days credits available @ \$15/man day	241 days
Man days requested	241 days

INTRODUCTION

A basal till sampling program was carried out on October 21st and 22nd, 1985, in the south half of lot 2, concession 1 in Matheson Township, Porcupine Mining Division (Figure 1).

LOCATION AND ACCESS

The property is located in the southeastern corner of Matheson Township. The property is approximately 18 miles east-northeast of the City of Timmins.

Access is via paved Highway 101, with the north boundary of the property 600 to 1000 feet south of the highway roughly one-half mile east of the Frederick House River Bridge.

PROPERTY

The property consists of four (4) unpatented mining claims (Figure 2) in Matheson Township tabulated below:

<u>Claim No.</u>	<u>Location</u>
P791628	NE $\frac{1}{4}$, S $\frac{1}{2}$, lot 1, con. 1
P791629	NW $\frac{1}{4}$, S $\frac{1}{2}$, lot 1, con. 1
P791630	NE $\frac{1}{4}$, S $\frac{1}{2}$, lot 2, con. 1
P791631	SE $\frac{1}{4}$, S $\frac{1}{2}$, lot 2, con. 1

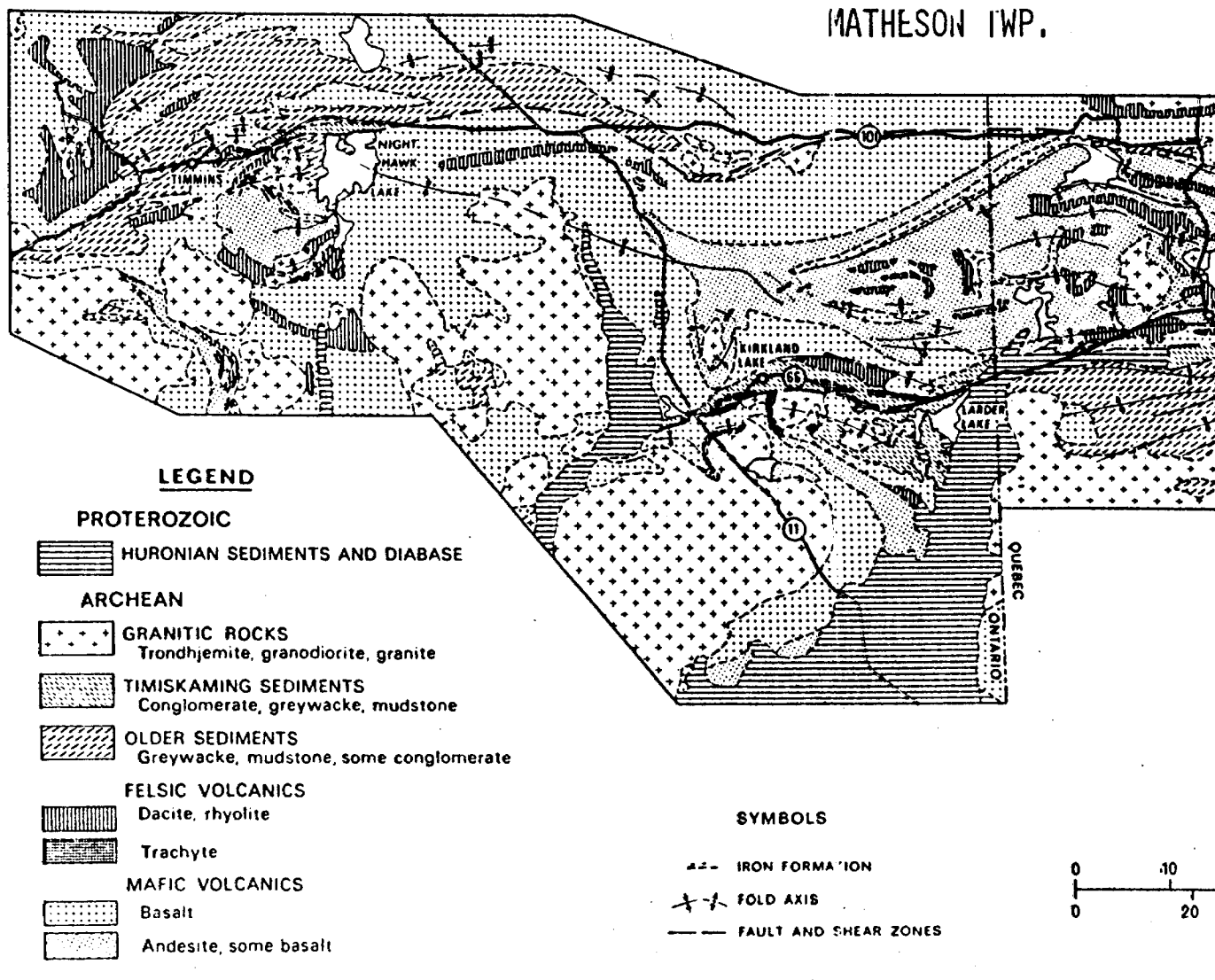
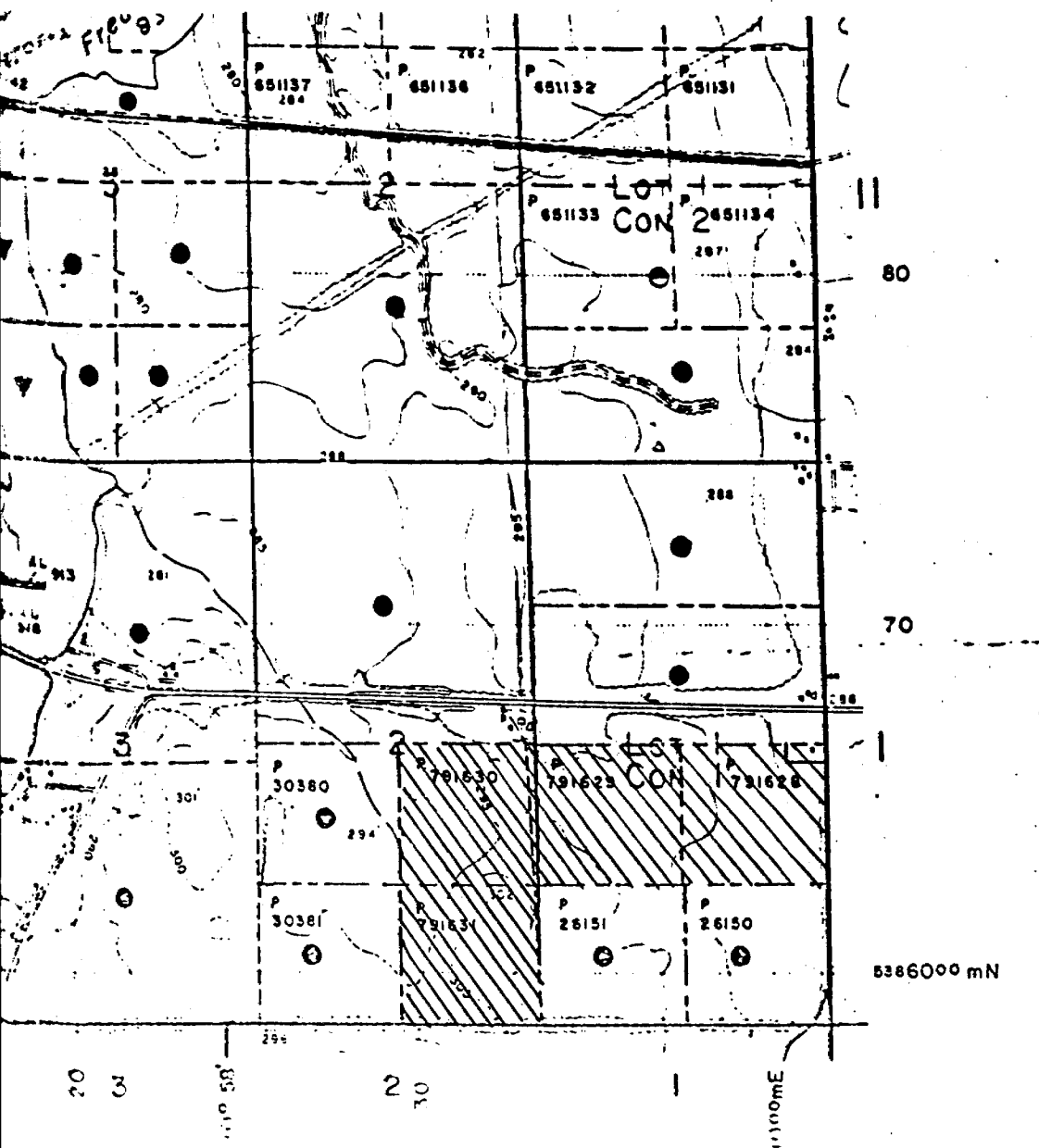


Figure 1. Location map, Matheson township.



TOWNSHIP

MATHE

M.N.R. ADMINISTRATI

TIMMINS

MINING DIVISION

PORCUPINE

LAND TITLES / REGIS

COCHRANE

5386000 mN



Ministry
Natural
Resource

Figure 2. Claim location map, Matheson twp. (1:20000).

PREVIOUS WORK

The first work reported in the immediate area of the claim group was a claim to the south and east held by Wildwood Gold Mines Limited. Prior to December 1936, five diamond drill holes were put down with a total footage of 1733 feet. In 1937, Wildwood drilled 12 additional holes totalling 4502 feet. From 1945-1946, 14 more holes were drilled totalling 9949 feet. Two of these holes, numbered 36 and 37, were collared on the property near the southeast corner of claim P791631. Only low values of gold were obtained in the holes drilled on the property.

In September 1981, Goldeidt Explorations Inc. held the property and completed HEM and magnetometer surveys. The surveys indicated no anomalous areas with no further work reported. John Boissoneault carried out a magnetometer and VLF-EM survey on the property in February 1985. The present basal till sampling program was a follow-up from the Boissoneault surveys.

GENERAL GEOLOGY

The southeastern part of Matheson Township is underlain by metasediments of Archean age. These units belong to the "Porcupine Group" of rocks and consist of intercalated conglomerate, greywacke, argillite and slate. The "Porcupine Group" sediments are broken into the "Three Nations Lake Formation" and the "Dome Formation". The "Three Nations Lake Formation" overlies the "Dome Formation"

with the contact passing roughly through the middle of the property.

The "Destor-Porcupine Fault Zone", a major structural feature, passes one-quarter mile south of the property and trends east-west.

BASAL TILL SAMPLING PROCEDURE

The basal till program was designed to test VLF-EM anomalies in the western portion of the property.

Nineteen basal till samples were collected from 10 sites (Map 1). Generally 2 samples were taken at each site. The sample locations are summarized below:

<u>Sample Site</u>	<u>Claim</u>	<u>Co-ordinates</u>
1	P791631	L13E/20S
2	P791631	L13E/18S
3	P791631	L8E/21S
4	P791631	L4E/21+50S
5	P791631	L0/20S
6	P791630	L0/12S
7	P791630	L4E/9S
8	P791630	L8E/10S
9	P791630	L8E/7S
10	P791630	L13E/10S

Sampling was carried out by Northland Exploration Services of Timmins. The crew consisted of three men to operate the equipment and was supervised in the field by the author of this report. The equipment consisted of a gas powered "Wacher" impacter driving down a drill stem

of 1 1/4" diameter. On the lower end of the drill stem was an 18" flow through, side ejection sampler. The drill stem is driven down until bedrock is reached and then retracted. The sample remaining in the sampler is the last material penetrated going down. At some sites bedrock chips were present in the end of the sampler. Mobilization between holes was accomplished by a J5 Bombardier.

At most sample sites two samples were taken and are denoted by A or B. In the present program bedrock depths ranged from 2 to 39 feet.

RESULTS

The following is a compilation of the sample descriptions and assays:

<u>Sample</u>	<u>Depth To Bedrock</u>	<u>Au (ppb)</u>	<u>Description</u>
1	5'	10	pebble till
2	3'	Nil	clay
3A	3'	20	gritty clay till
3B	11'	Nil	sandy till
3C	6'	Nil	gritty clay
4A	5'	Nil	gritty clay
4B	7'	Nil	gritty clay
5A	7'	Nil	clay
5B	14'	Nil	gritty clay
6A	39'	Nil	sandy till
6B	38'	Nil	sandy till
7A	38'	20	gritty clay till
7B	37'	Nil	gritty clay till
8A	8'	10	sandy till
8B	9.5'	Nil	sandy till
9A	2'	Nil	sandy till
9B	4'	Nil	sandy till
10A	17'	Nil	sandy till
10B	18'	10	gritty clay till

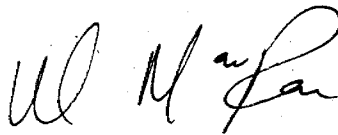
Most samples contained till although there was a large sand and clay component in the samples. Samples 1, 3A, 7A, 8A and 10B were slightly anomalous with high values of 20 ppb Au.

CONCLUSION AND RECOMMENDATIONS

This program tested several VLF-EM anomalous areas. The anomalous areas were generally due to bedrock topography except possibly in the area of sites 7 and 8 (Map 1).

I would recommend that the property be geologically mapped with the results of the mapping used to develop any future programs.

Respectfully submitted,



W. MacRae

CERTIFICATE

With reference to my Basal Till Report on the Matheson Township Claim Group dated January 23, 1986;

I, William E. MacRae, of the City of Timmins, Ontario do hereby certify and state that:

- (1) I have graduated from Lakehead University with the degree of Bachelor of Science (Honours) in 1975 and have obtained the degree of Masters of Science from McMaster University in 1982;
- (2) I have practiced my profession continuously for the past six years;
- (3) I am a fellow of the Geological Association of Canada, a member of the Canadian Institute of Mining and Metallurgy, and a member of the Prospectors and Developers Association (President of the Porcupine Branch);
- (4) I have no interest direct or indirect in the 4 mining claims comprising the Property described in this report nor do I expect to receive any; and
- (5) This report is based upon direct personal supervision of the described program from October 21 to October 22, 1985 and previous geological experience in the Matheson Township area.

Dated this 23rd day of January, 1986.
Timmins, Ontario.



W. MacRae, M.Sc.
Consulting Geologist

APPENDIX I

INVOICES

36 Emerald St., off Highway 101 West, P.O. Box 1368
TIMMINS, ONTARIO P4N 7N2

0010

INVOICE/STATEMENTMr. Cleo Clement
1165 McLean Drive
Timmins, Ontario

DATE	October 23, 1985
PROJECT	
LOCATION	Matheson Township

Period From October 21 To October 22, 1985

OVERBURDEN DRILLING

QTY.	UNIT	DESCRIPTION	UNIT PRICE	AMOUNT
1	Day	Drilling - 3 Man Crew	700 00	700 00
1	Day	Drilling - 3 Man Crew	500 00	500 00
2	Days	Musker Tractor @ \$100.00 per day	100 00	200 00
		MOB AND DEMOB		
		Pickup		75 00
		Fuel		20 00

RECEIVED
OCT 30 1985
REGENTS*Paid in full!*
CH 0245
C. Blakemore

PLEASE PAY FROM THIS INVOICE. YOU WILL NOT BE RECEIVING A STATEMENT.

SUB TOTAL 1,495 00

TOTAL 1,495.00

TERMS: NET 15 DAYS A FINANCE CHARGE OF 2% PER MONTH (ANNUAL RATE OF 24%) WILL BE CHARGED ON BALANCES OVER 30 DAYS.



William E. MacRae Geological Services
P.O. Box 417, Timmins, Ontario. P4N 7E3 [705] 268-0111

INVOICE

86-04

January 20, 1986

CLIENT: Cleyo Resources Inc.

PROPERTY: Matheson Twp.

RE: Basal Till Sampling Program

CHARGES: Field supervision and expenses	\$1120.00
Report	\$1000.00

Sub-total \$2120.00

Advance \$1000.00

AMOUNT DUE \$1120.00

Payment to:

William E. MACRAE Geological Services
P.O. Box 417
Timmins, Ont.
P4N 7E3

PAID
JAN 22 1986
W. MacRae

Respectfully submitted,

W. MacRae

W. MacRAE



12218

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0 TELEPHONE: (705) 642-3244

SOLD TO

Cleo Resources Incorporated
c/o Mr. W. MacRae
Box 417
Timmins, Ontario
P4N 7E3

TERMS

1.5% late charge over 30 days
(annual rate 18%)

DATE	SHIPPED VIA	FED. LICENCE NO.	PROV. LICENCE NO.	YOUR ORDER NO.	OUR ORDER NO.	TERMS	SALESMAN
Nov. 19/85							
QUANTITY	DESCRIPTION					UNIT PRICE	AMOUNT
19	Au Assays PPB					\$ 8.50	\$ 161.50
19	Sample handling					2.75	52.25
	Cert. No. 61485 Nov. 8/85						
Total							213.75

SWASTIKA LABORATORIES LTD

PAID
JAN 20 / 86
WITH THANKS
PER [Signature]

MOORE BUSINESS FORMS 3 7060L

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

FACTURE / INVOICE





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 61485


Date: Nov. 8, 1985

Received Oct. 24, 1985 19 Samples of till

Submitted by Cleo Resources Inc., c/o W. MacRae, Timmins, Ontario

SAMPLE NO.	GOLD PPB
98318	10
98319	Nil
98320	20 20
98321	Nil
98322	Nil
98323	Nil
98324	Nil
98325	Nil
98326	Nil
98327	Nil
98328	Nil
98329	30 10
98330	Nil
98331	10
98332	Nil
98333	Nil
98334	Nil
98335	Nil
98336	10

NOTE: Samples were dried and pulverized as per our discussion.

Per 
G. Lebel, Manager



ESTABLISHED 1928



42A10SW0099 2.8874 MATHESON

900

Mining Lands Section

File No 28874

Control Sheet

TYPE OF SURVEY GEOPHYSICAL

GEOLOGICAL

GEOCHEMICAL

EXPENDITURE

MINING LANDS COMMENTS:

OK - paid receipts

P. Thurst

Signature of Assessor

Feb 25/86

Date

[Handwritten initials]

*W.R. # 054/86
28874/86*

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

The Mining Act

Type of Survey(s) Expenditures		Township or Area Matheson	
Claim Holder(s) Cleo Clement		Prospector's Licence No. M-20951	
Address 1165 McLean Drive, Timmins, Ont.			
Survey Company William E. MACRAE Geological Services	Date of Survey (from & to) Day Mo. Yr. Day Mo. Yr. 21 10 85 22 10 85	Total Miles of line Cut	
Name and Address of Author (of Geo-Technical report) William MacRae, P.O. Box 417, Timmins, Ont. P4N 7E3			

Credits Requested per Each Claim in Columns at right			Mining Claims Traversed (List in numerical sequence)					
Special Provisions For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	Days per Claim	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
	- Electromagnetic		P	791628	60			
	- Magnetometer			791629	60			
	- Radiometric			791630	60			
	- Other			791631	61			
	Geological							
Geochemical								
Man Days	Geophysical	Days per Claim						
Complete reverse side and enter total(s) here	- Electromagnetic							
	- Magnetometer							
	- Radiometric							
	- Other							
	Geological							
	Geochemical							
Airborne Credits	Electromagnetic	Days per Claim						
Note: Special provisions credits do not apply to Airborne Surveys.	Magnetometer							
	Radiometric							

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FEB 07 1986
MINING LANDS SECTION

RECORDED
JAN 31 1986

PORCUPINE MINING DIVISION
RECEIVED
JAN 31 1986

Expenditures (excludes power stripping)	
Type of Work Performed Basal Till Sampling: Sec.77(19)	
Performed on Claim(s) P791630 & P791631	
Calculation of Expenditure Days Credits	Total Days Credits
Total Expenditures \$ 3615.00	÷ 15 = 241

Total number of mining claims covered by this report of work. 4

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 31/01/86	Recorded Holder or Agent (Signature) <i>[Signature]</i>	
For Office Use Only		
Total Days Cr. Recorded 241	Date Recorded <i>Jan. 31/86</i>	Mining Record
	Date Approved as Recorded <i>16.2.86</i>	Branch Director <i>[Signature]</i>

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 William MacRae, P.O. Box 417, Timmins, Ontario. P4N 7E3		
Date Certified 31/01/86	Certified by (Signature) <i>[Signature]</i>	

February 19, 1986

File: 2.8874

Cleo Clement
1165 McLean Drive
Timmins, Ontario

Dear Madam:

RE: Data for Basal Till Sampling submitted
on Mining Claims P 791628, et al, in the
Township of Matheson

In order to complete the above-described submission, please
remit (in duplicate), receipts or cancelled cheques as proof
of payment for the \$3615.00 expenditure credits claimed.

When submitting this information, please quote file 2.8874.

For further information, please contact Susan Hurst at
(416) 965-4888.

Yours sincerely,

S.E. Yundt, Director
Land Management Branch

Mining Lands Section
Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

SH/mc

cc: Mining Recorder
Timmins, Ontario
#54/86

William MacRae
P.O. Box 417
Timmins, Ontario
P4N 7E3

*OK.
Blackmore is
Hurstland.*

MAP SYMBOLOLOGY

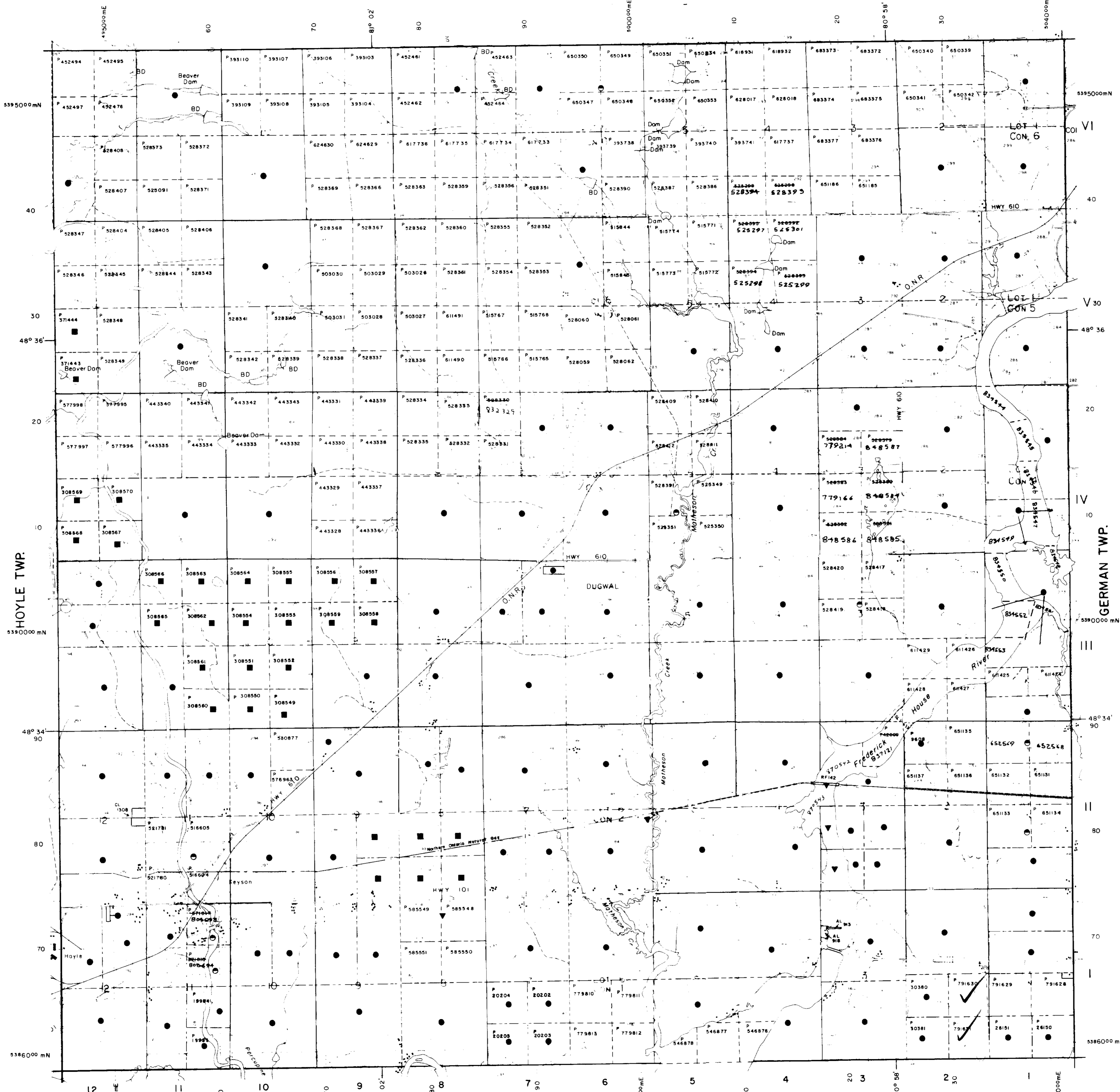
Aerial Cableway	Pipeline (above ground)
Boundary (International)	Railroad (Single Track)
Boundary (Provincial)	Railroad (Double Track)
Boundary (District Township)	Abandoned
Indian Reserve	Artificial
Appropriate	Road (Highway, County, Township)
Lot, Concession	Access (Line of Boundary, Right-of-Way, etc.)
Appropriate	Rapids
Peri Boundary	Reservoir
Bridge	River, Stream, Canal
Road, Railroad	Approximate (Dashed)
Building	Utility Poles
Chimney	Wharf, Dock, Pier
Cliff, Pit, Pile	Wooded Area
Contours (Interpolated)	
Contours (Approximate)	
Contours (Depression)	
Control Points (Horizontal)	
Control Points (Vertical)	
Culvert	
Falls	
Double Line River	
Fence, Hedge, Wall	
Feature Outline (Construction Features, etc.)	
Flooded Land	
Lock	
Marsh or Swamp	
Mast	
Mine Head Frame	
Outcrop	

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.S. - MINING AND SURFACE RIGHTS

Description Order No. Date Disposition File

EVELYN TWP.



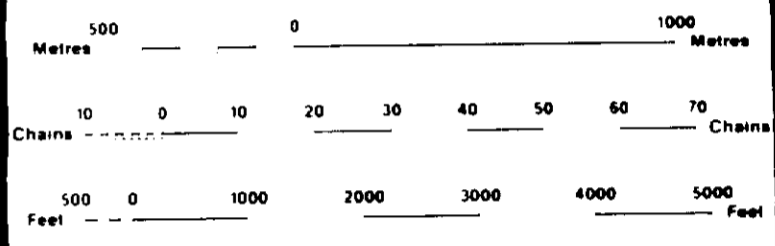
LEGEND

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	

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	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 5 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1



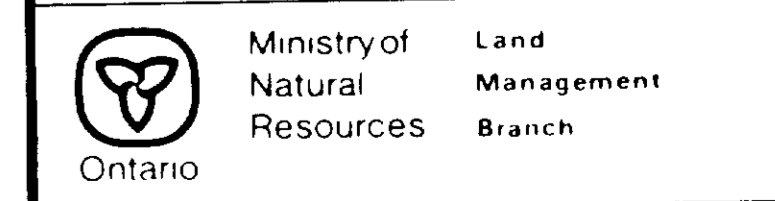
SCALE 1:20 000
GRID ZONE: 17

NOTES

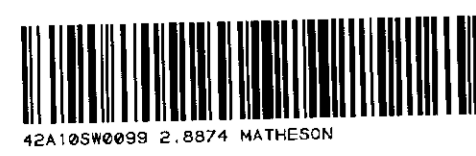
FLOODING RIGHTS ON THE FREDERICK HOUSE RIVER TO '90' CONTOUR RESERVED TO H.E.P.C.

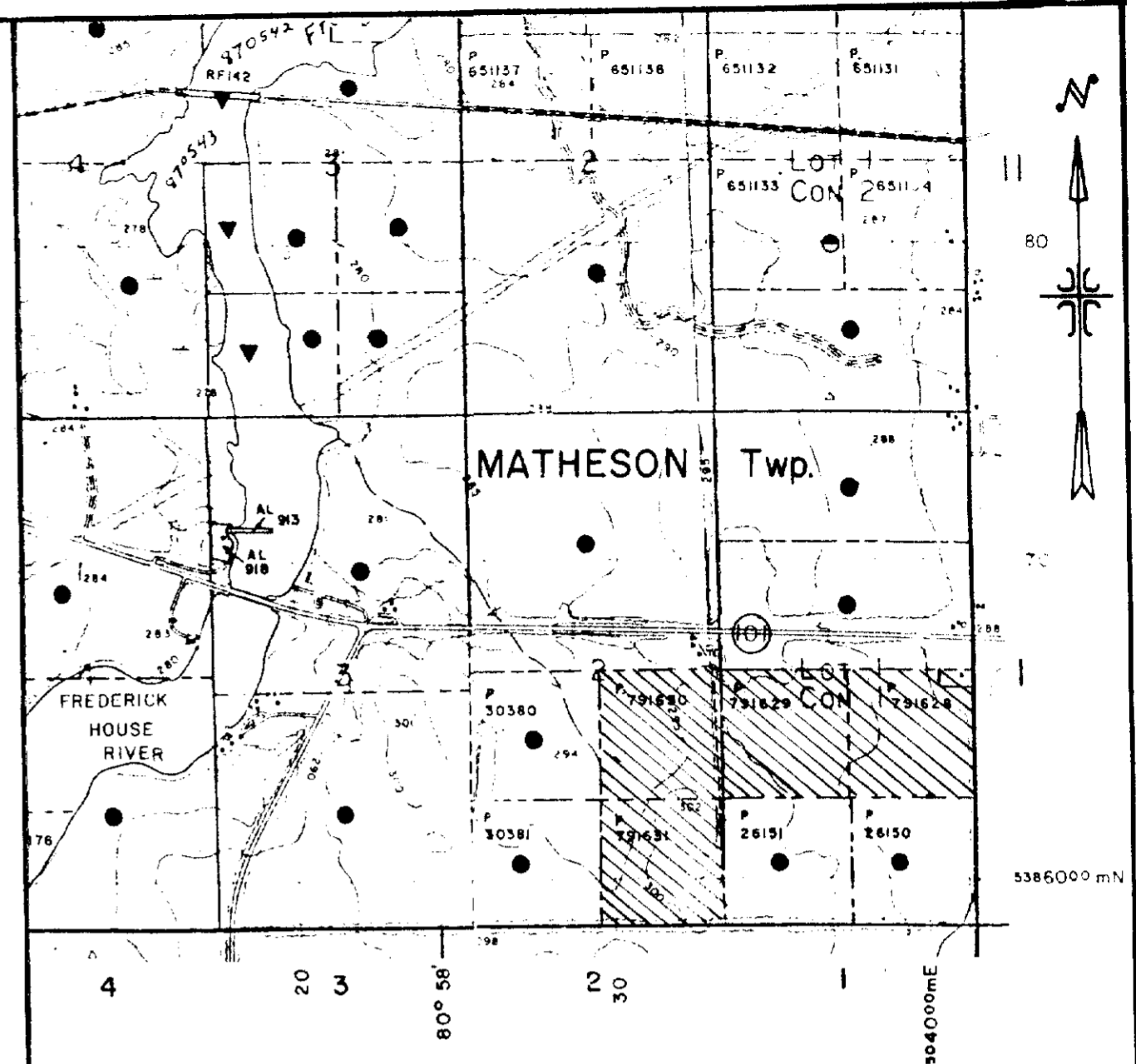
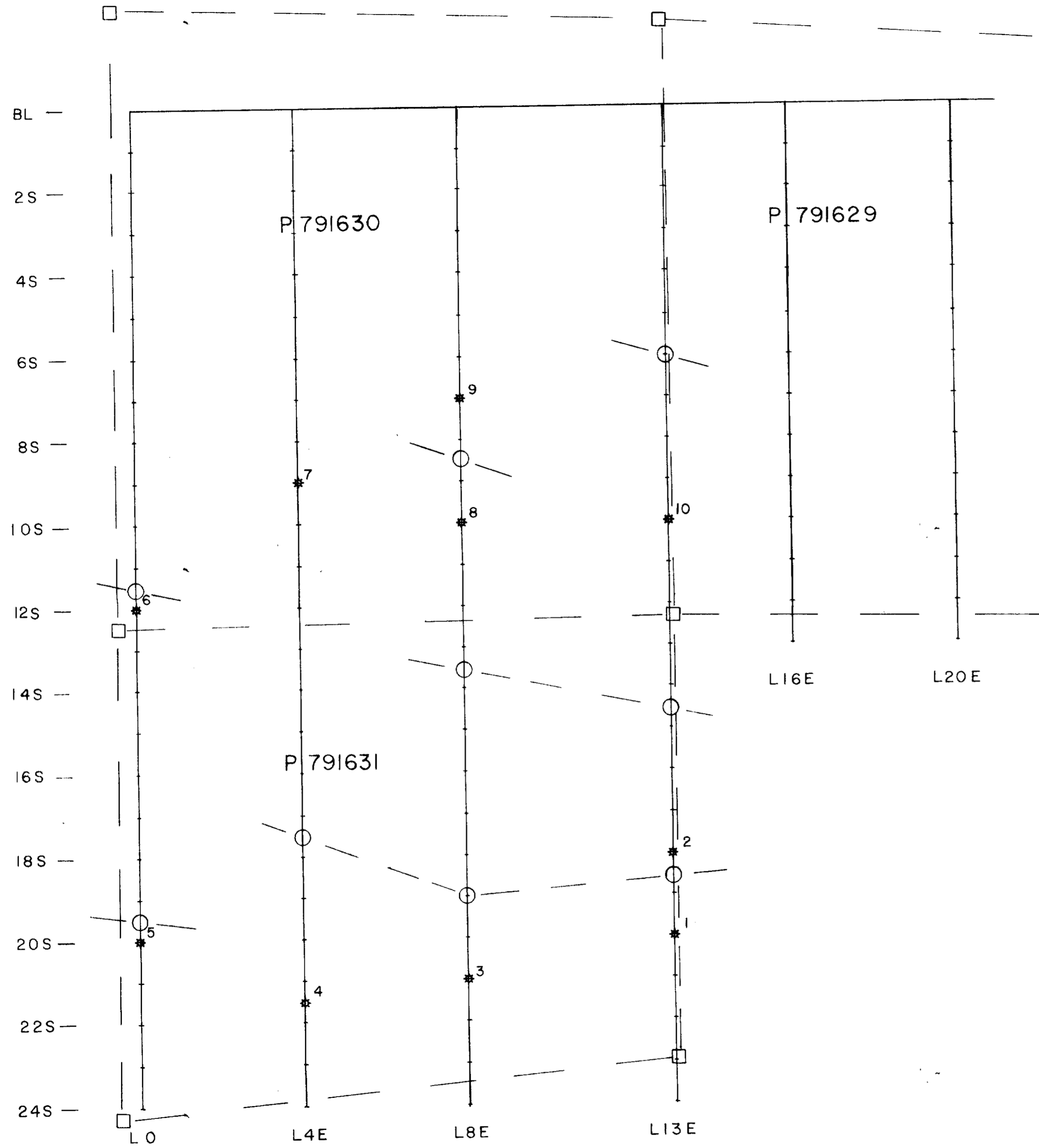
Up to date as of Dec 19/85

TOWNSHIP
MATHESON
M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE



ORIGINAL COMPILATION JULY 1984
REVISED
Number: **G-3982**





LOCATION MAP Scale 1:20000

LEGEND

- axis of Fraser Filtered VLF-EM data
- * Sample site

28874

CLEYO RESOURCES

Basal Till Sample Locations

Matheson Township	
Porcupine Mining Division	
N.T.S: 42 A/7	Date: 23/01/86
Scale:- 1" = 200'	

William E. MacRae

