



42A11SE0214 2.10397 CODY

010

GEOLOGICAL REPORT

CODY TOWNSHIP PROPERTY

RECEIVED  
SEP 27 1987  
MINING LANDS SECTION

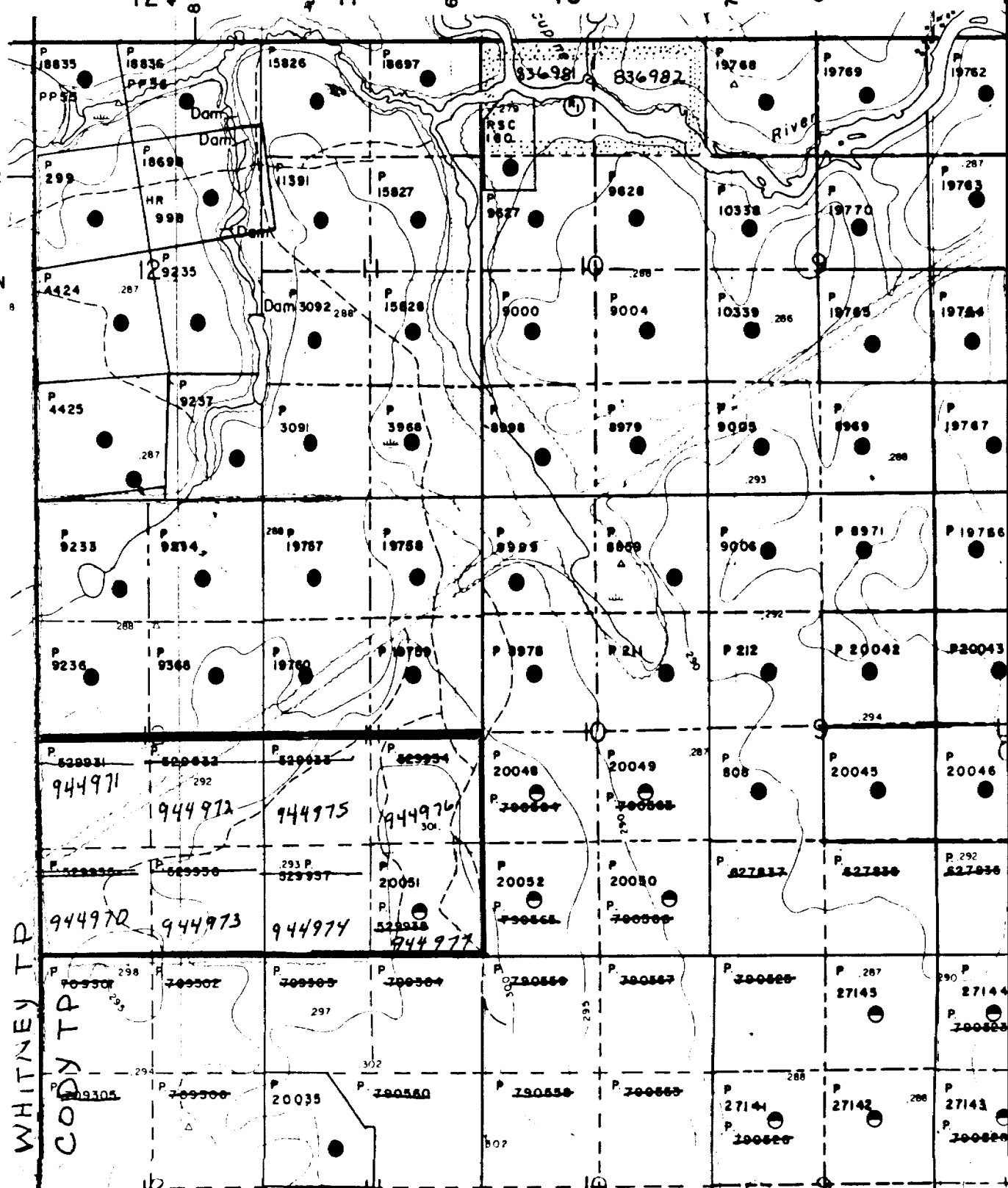
September, 1987

D. R. PYKE, Ph.D.

*D. R. Pyke*

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II 60 10 70 9

48° 32  
VI  
537 50 00 mN



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V

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IV

WHITNEY TWP  
CODY TWP

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GEOLOGICAL REPORT  
CODY TOWNSHIP PROPERTY

The property consists of eight claims in the south half of Concession 5, lots 11 and 12 in the northwest part of Cody Township. This consists of the following claims:

P-944970	P-944974
P-944971	P-944975
P-944972	P-944976
P-944973	P-944977

The property is readily accessible via a muskeg road extending south from Highway 101 along the Cody-Whitney Township boundary.

PREVIOUS WORK

The area was previously mapped by Hurst (1939), Berry (1940) and more recently by Leahy (1971).

Early exploration as reported by Leahy (1971), was conducted by Wineva Gold Mines Limited in 1936; three holes were drilled totalling 1954 feet with gold assays ranging from nil to 0.26 ounces per ton. The exact location of the holes is unknown, but Leahy indicates that they were probably drilled in the northeast part of the claim group; one casing has been located in this vicinity. In addition, J. W. Young reportedly did some test pitting (1938-40?); assays for gold ranged from trace to 0.12 ounces per ton (Leahy, 1971).

GEOLOGICAL REPORT  
CODY TOWNSHIP PROPERTY

In 1981, Comstate Resources Ltd. conducted a geochemical survey on the property (a total of 374 humus samples were assayed for gold).

In 1982, Placer Development Limited conducted geological and geophysical surveys (VLF and horizontal loop) over the property. In addition, Placer did a heavy mineral study on a number of till samples collected from the claim group.

PRESENT SURVEY

The present survey was conducted by D. R. Pyke for Comstate Resources Ltd. during June - July, 1987. Mapping control was afforded by previously cut north-south lines at 100 meter spacings and picketed at 25 meter intervals.

PROPERTY GEOLOGY

The property is almost entirely underlain by mafic volcanic rocks. Most are considered to be flows; some of the more foliated varieties may be tuffaceous, however one outcrop suggested that the strong foliation developed within the pillowed portion of a flow. The basalts are medium to dark green in colour, weather medium green to buff and are commonly moderately to well foliated. Some more massive varieties occur near the southwest corner of the claims.

An outcrop of medium to fine grained gabbro on the powerline, may in fact represent a more massive portion of a flow.

GEOLOGICAL REPORT  
CODY TOWNSHIP PROPERTY

North trending diabase dikes extend through the central portion of the property.

Little is known of the structure. Foliations are dominately in an east-west direction and dip at a relatively shallow angle ( $30^{\circ}$  -  $35^{\circ}$ ) to the north. Regionally the property appears to be on or near the axis of a NE trending anticline (Pyke, 1982).

ECONOMIC GEOLOGY

Numerous old pits and trenches occur throughout the property, generally in proximity to outcrop areas. A number of old trenches near line 3E - 5 + 75N possibly correspond to those of J. W. Young as reported by Leahy (1971). Here, in addition to the trenches, an old timbered shaft, at least 12 feet deep, is present. Minor quartz and aplitic veining containing 1 - 2 percent pyrite occurs in the blasted area. A strong westerly trending shear zone extends across the north part of the exposed area within an old trench.

Elsewhere on the claim group little or no mineralization was observed.

RECOMMENDATIONS

Possible power stripping in vicinity of former Young showing, as values up to 0.12 ounces per ton were reported (Leahy, 1971).

*J. R. Pyke*

References

Berry, L. G.

1940: Geology of the Langmuir - Sheraton area;  
Ontario Dept. Mines, Vol. 48, p. 12, 11 p.  
Accompanied by map 48n. Scale 1 inch to 1 mile.

Hurst, M. E.

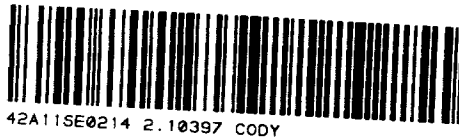
1939: Porcupine Area, District of Cochrane; Ontario  
Dept. Mines, Map 47a, scale 1 inch to 2000 feet.

Leahy, E. J.

1971: Geology of the Night Hawk Lake area, District of  
Cochrane; Ontario Dept. Mines and Northern Affairs,  
GR 96, 74p. Accompanied by Map 2222, scale 1 inch  
to  $\frac{1}{2}$  mile.

Pyke, D. R.

1982: Geology of the Timmins Area, District of Cochrane,  
Ontario Geological Survey, Report 219, 141p.



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 Survey(s) GEOLOGICAL
Township or Area CODY
Claim Holder(s) BRUCE RAINE
Survey Company COMSTATE Resources
Author of Report D R Pyke
Address of Author P.O. Box 1142 Timmins
Covering Dates of Survey JUNE - Sept. 1987
Total Miles of Line Cut

MINING CLAIMS TRAVERSED
List numerically

P 944970
944971
944972
944973
944974
944975
944976
944977

If space insufficient, attach list

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS per claim

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

- Geophysical
-Electromagnetic
-Magnetometer
-Radiometric
-Other
Geological 20
Geochemical

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer Electromagnetic Radiometric
(enter days per claim)

DATE: Sept 25/87 SIGNATURE: D R Pyke
Author of Report or Agent

Res. Geol. Qualifications 2.3899

Previous Surveys

Table with 4 columns: File No., Type, Date, Claim Holder

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MINING LANDS SECTION

TOTAL CLAIMS 8

OFFICE USE ONLY

# GEOPHYSICAL TECHNICAL DATA

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

Number of Stations \_\_\_\_\_ Number of Readings \_\_\_\_\_

Station interval \_\_\_\_\_ Line spacing \_\_\_\_\_

Profile scale \_\_\_\_\_

Contour interval \_\_\_\_\_

**MAGNETIC**

Instrument \_\_\_\_\_

Accuracy – Scale constant \_\_\_\_\_

Diurnal correction method \_\_\_\_\_

Base Station check-in interval (hours) \_\_\_\_\_

Base Station location and value \_\_\_\_\_

**ELECTROMAGNETIC**

Instrument \_\_\_\_\_

Coil configuration \_\_\_\_\_

Coil separation \_\_\_\_\_

Accuracy \_\_\_\_\_

Method:  Fixed transmitter  Shoot back  In line  Parallel line

Frequency \_\_\_\_\_  
(specify V.L.F. station)

Parameters measured \_\_\_\_\_

**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 \_\_\_\_\_  
Values measured \_\_\_\_\_  
Energy windows (levels) \_\_\_\_\_  
Height of instrument \_\_\_\_\_ Background Count \_\_\_\_\_  
Size of detector \_\_\_\_\_  
Overburden \_\_\_\_\_  
(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey \_\_\_\_\_  
Instrument \_\_\_\_\_  
Accuracy \_\_\_\_\_  
Parameters measured \_\_\_\_\_  
\_\_\_\_\_  
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 \_\_\_\_\_

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total Number of Samples \_\_\_\_\_

Type of Sample \_\_\_\_\_  
(Nature of Material)

Average Sample Weight \_\_\_\_\_

Method of Collection \_\_\_\_\_  
\_\_\_\_\_

Soil Horizon Sampled \_\_\_\_\_

Horizon Development \_\_\_\_\_

Sample Depth \_\_\_\_\_

Terrain \_\_\_\_\_  
\_\_\_\_\_

Drainage Development \_\_\_\_\_

Estimated Range of Overburden Thickness \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

General \_\_\_\_\_  
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ANALYTICAL METHODS

Values expressed in: per cent   
p. p. m.   
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others \_\_\_\_\_

Field Analysis (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Field Laboratory Analysis

No. (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Commercial Laboratory (\_\_\_\_\_ tests)

Name of Laboratory \_\_\_\_\_

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

General \_\_\_\_\_  
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2.10397

- Instructions: - Please type or print.  
- If number of mining claims traversed 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.

DOCUMENT No. 8705. 173  
Mining Act

Type of Survey(s): **Geological** Township or Area: **Cody**  
 Claim Holder(s): **Bruce RAINE** Prospector's Licence No.: **M-21026**  
 Address: **P.O. Box 390 Schumacher Ontario**  
 Survey Company: **COMSTATE Resources** Date of Survey (from & to): **20 6 87 28 7 87** Total Miles of line Cut:  
 Name and Address of Author (of Geo-Technical report): **P.O. Box 1142 Timmins**

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	<b>20</b>
	Geochemical	
Special Provisions	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
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.
<b>P</b>	<b>944970</b>				
	<b>944971</b>				
	<b>944972</b>				
	<b>944973</b>				
	<b>944974</b>				
	<b>944975</b>				
	<b>944976</b>				
	<b>944977</b>				

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AUG 17 1987

MINING LANDS SECTION

Expenditures (excludes power stripping)

Type of Work Performed:  
 Performance of Claims:  
 Calculation of Expenditure Days Credits:  
 Total Expenditures: **S** ÷ **15** = Total Days Credits: **8**

Total number of mining claims covered by this report of work: **8**

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.

For Office Use Only  
 Total Days Cr. Date Recorded: **160 July 30/87**  
 Date Approved as Recorded: **1987.10.27**  
 Mining Director: **Charles**  
 Branch Director: **Charles**

Date: **July 30/87** Recorded/Holder or Agent's Signature: **D R Pyke**  
 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 same during and/or after its completion, and the same is true.

Name and Address of Person Certifying: **D R Pyke P.O. Box 1142 Timmins P4N 1H9**  
 Date Certified: **July 30/87** Certified by: **D R Pyke**

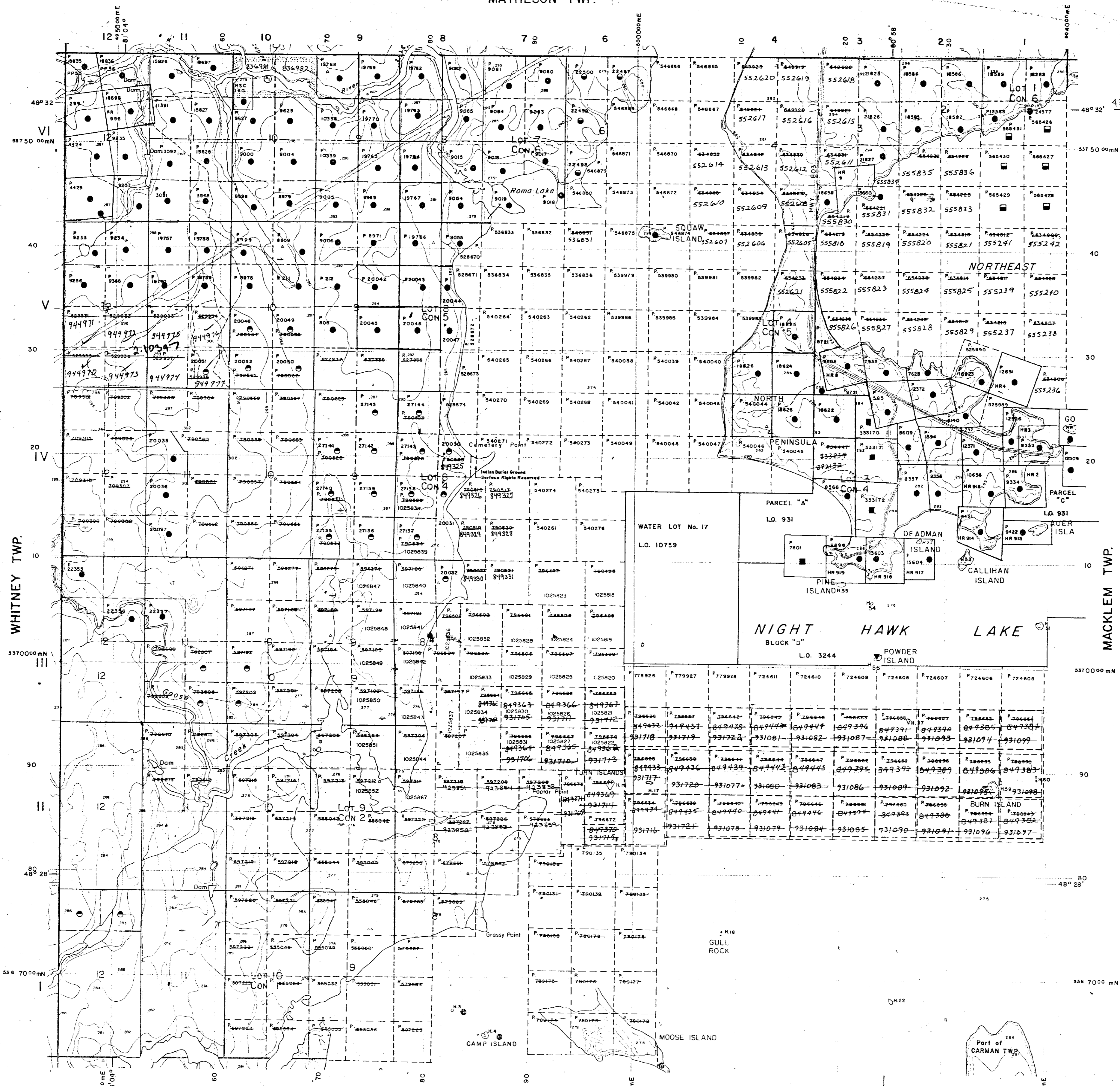
MAP SYMBOLOLOGY

Aerial Cableway	Pipeline (above ground)
Boundary	Railroad
International	Single Track
Interprovincial	Double Track
District, Township	Abandoned
Indian Reserve	Turbine
Asymptote	Road
Lot, Concession	Highway, County
Appraisal	Tennessee
Post Boundary	Access Road of doubtful
Bridge	width (unimproved driveway)
Road, Railroad	Trail, Back Road (unimproved)
Building	Rapids
Chimney	Double line river with multiple rapids
Cliff, Pit, Pile	Double line river with multiple rapids
Contours	Reservoir
Intersected	River, Stream, Canal
Asymptote	Approximate (seasonal)
Depression	Direction of flow
Control Points	Rock
Vertical	Vertical
Horizontal	Spot Elevation (true elevation)
Vertical	300.0
Horizontal	Tower
Vertical	Transmission Line
Horizontal	Pole
Vertical	Pillar
Horizontal	Tunnel
Vertical	Utility Poles
Horizontal	Wharf, Dock, Pier
Vertical	Wooded Area
Horizontal	
Vertical	

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
	W 53/76	10/9/76	S.R.O.	16539

MATHESON TWP.



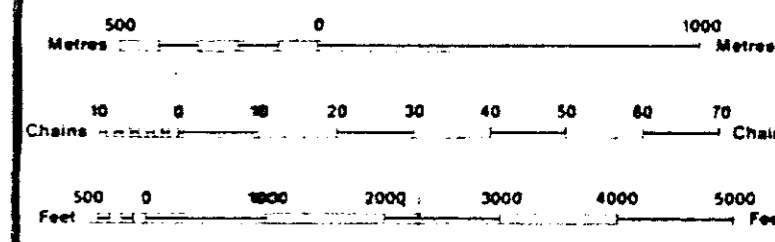
LEGEND

HIGHWAY AND ROUTE No.	
OTHER ROADS	
TRAILS	
SURVEYED LINES	
TOWNSHIP, P.S. 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 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

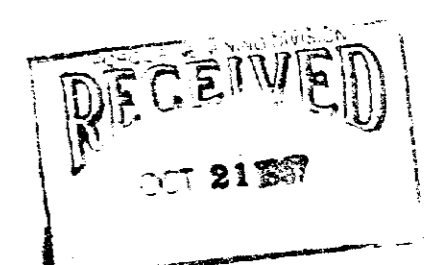


SCALE 1:20 000  
GRID ZONE 17

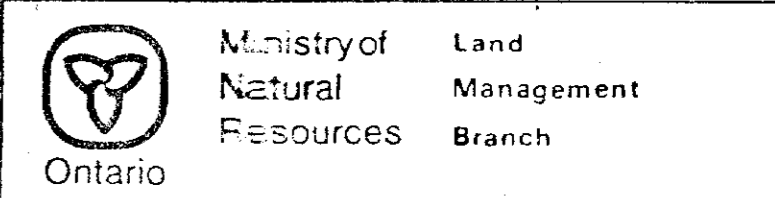
NOTES

THE WHOLE OF MOOSE ISLAND IS ATTACHED TO THE TOWNSHIP OF CODY. (FILE 23642)

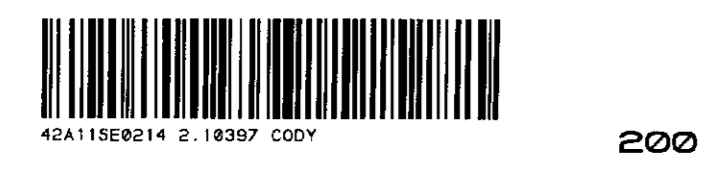
FLOODING RIGHTS RESERVED TO ELEVATION 903.5 (T&N RAILWAY DATUM) ON NIGHT HAWK LAKE AND THAT PORTION OF THE FREDERICK HOUSE RIVER BETWEEN NIGHT HAWK LAKE AND FREDERICK HOUSE LAKE TO ONTARIO HYDRO



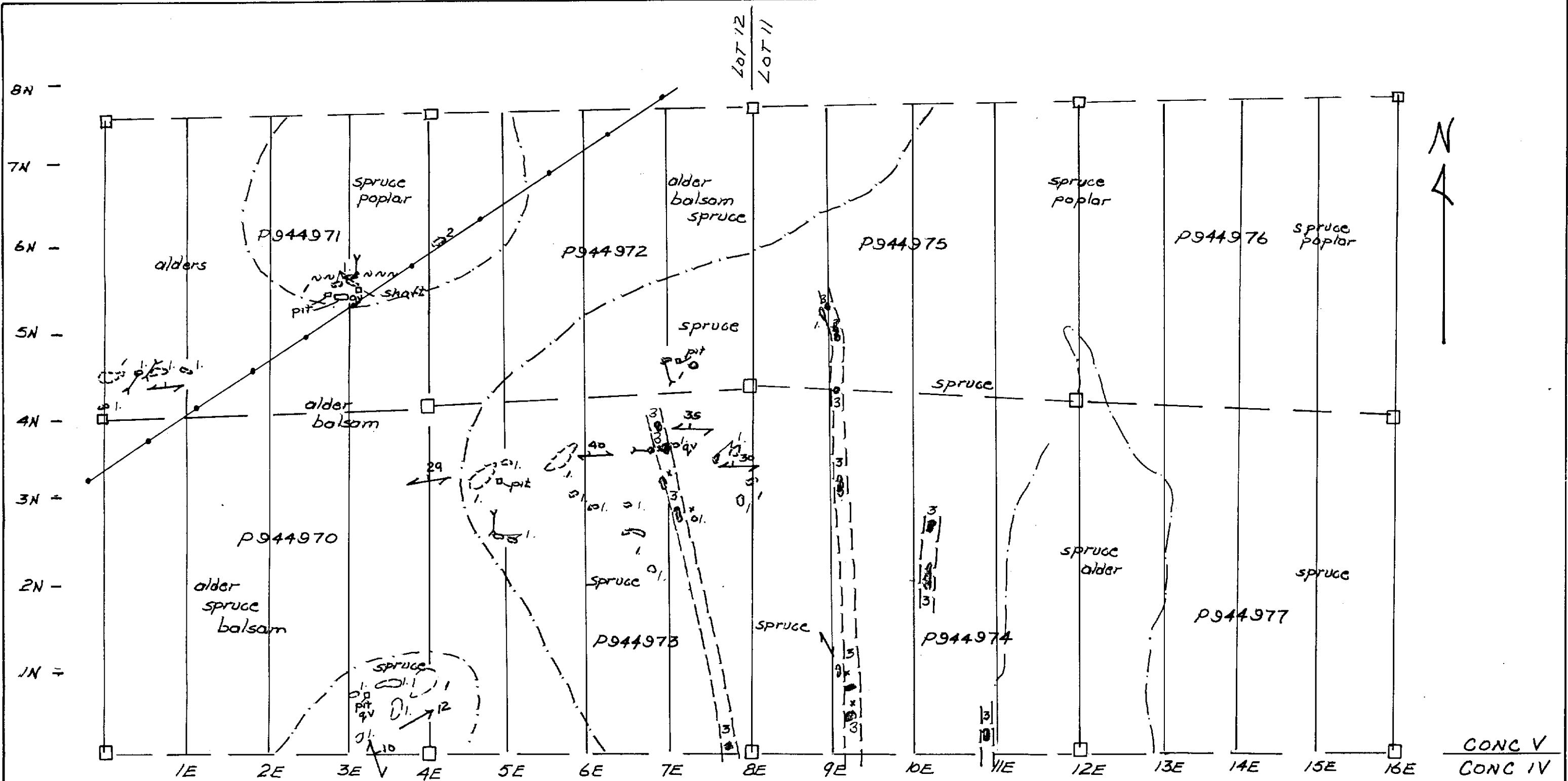
TOWNSHIP  
**CODY** 210397  
M.N.R. ADMINISTRATIVE DISTRICT  
TIMMINS  
MINING DIVISION  
PORCUPINE  
LAND TITLES / REGISTRY DIVISION  
COCHRANE



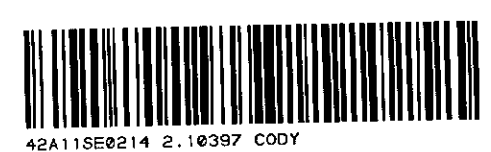
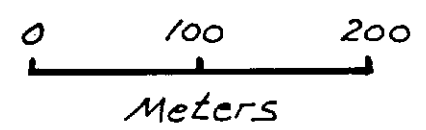
ORIGINAL COMPILATION JULY 1984  
REVISED  
G-3994



CARMAN TWP.



Whitney T.P.  
Cody T.P.



210

Legend

- Archean
- 3 [3] Diabase
  - 2 [2] Gabbro
  - 1 [1] Basalt

Symbols

- Bedrock outcrop
- ↗<sup>30</sup> Foliation
- <sup>12</sup> Lineation
- ~ Shearing
- - - Geological boundary
- qv quartz vein
- ↘ Trench

2.10397

COMSTATE RESOURCES  
Geological Map  
Cody TWP. Property.  
July 1987  
D. Lyke