



42A07NW0028 2.8749 MACKLEM

010

A D D E N

to

R E P O R T

on

MAGNETOMETER SURVEY
ELECTROMAGNETIC (V.L.F.) SURVEY

on

MACKLEM TOWNSHIP PROPERTY

RECEIVED
DEC 20 1985
MINING LANDS SECTION

of

LIVINGSTONE ENERGY CORP.
PORCUPINE MINING DIVISION, ONTARIO

CLAIMS (13)

P779918-19-20-33-34-35-36-37-38

P779643-46-47-49

December 12, 1985

John R. Boissoneault, B.Sc., P.Eng.
Geologist, Engineer

Final
25047

INTRODUCTION

During the period of July 9 to August 16, 1984, a magnetometer survey and a radiofrequency (VLF) electromagnetic survey were carried out on the Macklem Township properties of Livingstone Energy Corp. of Vancouver, B.C. The properties consist of two claim blocks, previously designated as the "West Block", containing six claims and the "East Block" containing thirty-one claims. At this time, the entire "East Block" was covered by the V.L.F. survey, but only its southern part (15 claims), was covered by the magnetometer survey. The "West Block" was completely covered by both magnetometer and V.L.F. surveys in April 1985. A report entitled "Report on Magnetometer Survey and Electromagnetic (V.L.F.) Survey, on Macklem Township Property of Livingstone Energy Corp.", dated August 20, 1984 and an addendum to this report, dated July 9, 1985, were submitted for assessment credits. In October of 1985, the northern part of the "East Block" (13 claims) was covered by a magnetometer survey, thus completing the two surveys on all of the company's claims in the southeastern quarter of Macklem Township. This is the second addendum to the original report; it is a description of the results of this last survey.

The entire northern part of the "East Block", except claim P779920 and the area of the lake was covered by the survey. The control grid of 12.0 miles is shown on the appended plan entitled "Magnetometer Survey, Macklem Township, North Block", on a scale of 1 inch = 200 feet.

The purpose of the survey, as well as instrumentation and procedure are the same as in the original survey of 1984 and are described in the original report.

MAGNETIC RESULTS

The magnetic contours on the northern part of the "East Block" show that the "large north-south trending fault", interpreted as crossing the southern part of the claim block in a north-south direction, and described in the original report, extends on to the northern part of the block near the base line, this feature is intersected by another fault which strikes north-20°-west (340°) towards the northwest corner of the property. For a portion of its length, this fault coincides with the east shore of Long Lake.

The magnetics, to the west of the fault, with the 340° strike, show a low to moderate relief, suggesting the relatively thick overburden cover or homogeneous lithology referred to in the original report. However, in this case, the magnetic trend is not clear, and there are no distinctive features on this segment of the property.

There is considerably more magnetic relief on the segment of the claim block, to the east of this fault. The magnetic background climbs rapidly by 100 to 140 gammas, immediately east of this structure, suggesting a thinning overburden cover or a more complex lithology. This area is dominated by a large magnetic high of 250 to 300 gammas, which lies along the southeastern end of Long Lake, between 24+00N and 32+00N and between lines 36+00E and 52+00E. It is in excess of 1600 feet long from east to west and 800 feet wide from north to south and has a steep northward dip. The long axis of this anomaly is either curved, or is displaced 100 to 150 feet by the north-south trending fault previously referred to which appears to pass through its center. There is no coincident conductivity associated with this magnetic high, but there are some smaller magnetic features, to the south, which may be related to it.

In the northern half of the survey grid, the magnetics are relatively flat, except immediately east of the fault with the 340° strike. Here there is a series of small magnetic highs and associated lows which appear to have east-west to southeast strikes. Similar features, to the east of the same fault, occur to the south of the large magnetic high described in the preceding paragraph. These anomalies appear to be related to the fault, but their cause is not known; they also have no associated conductivity.

CONCLUSIONS

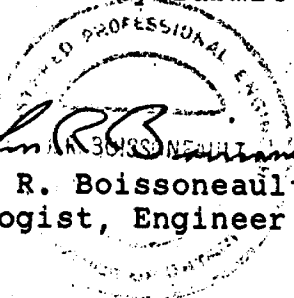
In the original report of 1984, it was suggested that the large magnetic high on the southern portion of the "East Block" could be the reflection of an intrusive mass, possibly a syenite porphyry. It was also suggested that the conductivity associated with this magnetic feature enhanced its potential for gold occurrences being present, and that exploration activities be concentrated on the areas where the conductivity intersects the magnetic high.

It is my opinion that the large magnetic high, on the northern part of the "East Block", detected in the recent survey, has a similar cause. However, in this case, the absence of associated conductivity makes this feature of less importance at present. It could nevertheless become of considerable importance, if the exploration program on the southern magnetic high is successful.

RECOMMENDATIONS

It is my opinion that the company should proceed with the recommendations made in the original report of 1984. If the overburden drilling program recommended is carried out and is successful, then the company should consider extending this program to the anomalous area, on the northern part of the claim block. I believe that the southern target is, at present, more attractive and should be explored first.

Respectfully submitted,

A circular seal for a Professional Engineer. The outer ring contains the text "PROFESSIONAL ENGINEER" at the top and "ONTARIO" at the bottom. The inner ring contains the text "REGISTERED PROFESSIONAL ENGINEER". The center of the seal contains the name "JOHN R. BOISSONEAULT".
John R. Boissoneault
John R. Boissoneault, B.Sc., P.Eng.
Geologist, Engineer



Ministry of Northern Affairs and Mines

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

38



42A07NW0028 2.8749 MACKLEM

900

W8506-388 Mining

DO NOT USE THESE AREAS BELOW.

Type of Survey(s) MAGNETOMETER (GROUND)		Township or Area MACKLEM
Claim Holder(s) NILTON RESOURCES CORPORATION		Prospector's Licence No. T 1382
Address P.O. Box 34234 STATION D VANCOUVER, B.C. V6J 4N5		
Survey Company JOHN BOISSONEAULT	Date of Survey (from & to) 12 10 85 21 10 85 Day Mo. Yr. Day Mo. Yr.	Total Miles of line Cut 12.2
Name and Address of Author (of Geo-Technical report) JOHN BOISSONEAULT 670 SPRUCE ST. NORTH, TIMMINNS		

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes fine cutting)	- Electromagnetic	20
	- Magnetometer	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	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	

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
P	779643				
	779646				
	779647				
	779649				
	779918				
	19				
	779933				
	34				
	35				
	36				
	37				
	38				

RECEIVED

NOV 13 1985

MINING LANDS SECTION

PORCUPINE MINING DIVISION
RECEIVED
Oct 23/85
A.M. P.M.
7 8 9 10 11 12 1 2 3 4 5 6

RECORDED
OCT 23 1985
cf.

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

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ **15** = 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.

For Office Use Only

Total Days Cr. Recorded **240** Date Recorded **Oct 23/85** Mining Recorder *[Signature]*

Date Approved as Recorded **86.Y.21** Branch Director *[Signature]*

Date **Oct 23, 1985** 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
John Baimonant, 670 SPRUCE ST. NORTH, TIMMINNS, P4N 6P3

Date Certified **Oct 23, 1985** Certified by (Signature) *[Signature]*

January 17, 1986

File: 2.8749

Hilton Resources Corp.
P.O. Box 34234
Station D
Vancouver, B.C.
V6J 4N5

Dear Sirs:

RE: Geophysical (Magnetometer) Survey
submitted on Mining Claims P 779643,
et al, in Macklem Township

Returned herein is the plan (in duplicate) for the
above-described survey. On each copy please show
all claim lines and claim numbers and return the
plans to this office quoting file 2.8749.

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

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1N3
Phone:(416)965-4888

SH/mc

cc: Mining Recorder
Timmins, Ontario
388/85

John Boissoneault
670 Spruce Street North
Timmins, Ontario
P4N 6P3

Encl.

December 16, 1985

Report of Work: #388

REGISTERED

Hilton Resources Corporation
P.O. Box 34234
Station D
Vancouver, B.C.
V6J 4N5

Dear Sirs:

RE: Mining Claims P 779643 et al in the Township of Macklem

I have not received the reports and maps (in duplicate) for the Magnetometer on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the Mining Recorder on October 23, 1985 the 60 day period allowed by Section 77 of the Mining Act for the submission of the technical reports and maps to this office will expire on December 22, 1985.

If the material is not submitted to this office by December 22, 1985 I will have no alternative but to instruct the Mining Recorder to delete the work credits from the claim record sheets.

For further information, please contact Mr. A. Barr at 416/965-4888.

Yours sincerely

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park, Toronto
M7A 1W3
Telephone: 416/965-4888

AB:sc

cc: John Boissoneault
P.O. Box 34234
Station D
Vancouver, B.C.

cc: Mining Recorder
Timmins, Ontario

- Data submitted to Timmins Office on 85-12-17 - on its way (continued) by Colomb in M.R. Office 85-12-20
DO NOT DELETE
R

Mining Lands Section

File No 28749

Control Sheet

TYPE OF SURVEY

- GEOPHYSICAL
- GEOLOGICAL
- GEOCHEMICAL
- EXPENDITURE

MINING LANDS COMMENTS:

h.v.

P. Stuck

Signature of Assessor

Feb 18/86

Date

2.8749

779643	✓			779933	✓						
46	✓			34	✓						
47	✓			35	✓						
49	✓			36	✓						
779918	✓			37	✓						
19	✓			38	✓						

MAP SYMBOLOGY

Aerial Cableway	Pipeline (above ground)
Boundary	Railroad
International	Single Track
Interprovincial	Double Track
District, Township	Abandoned
Indian Reserve	Terrace
Approximate	Road
Lot, Concession	Highway, County
Approximate	Trail, Back Road (partage only)
Part Boundary	Rapids
Bridge	Double line river with multiple rapids
Road, Railroad	Double line river with multiple rapids
Building	Approximate boundary
Chimney	Structure of flow
Cliff, Pit, Pile	Rock
Contours	Spot Elevation (true elevations)
Interpreted	Tower
Approximate	Transmission Line
Depression	Pole
Control Points	Pyram
Horizontal	Tunnel
Vertical	Utility Poles
Vertical	Wharf, Dock, Pier
Culvert	Wooded Area
Falls	
Double line river	
Fence, Hedge, Wall	
Feature Outline (Constructive features, etc.)	
Flooded Land	
Lock	
Marsh or Swamp	
Mast	
Mine Head Frame	
Outcrop	

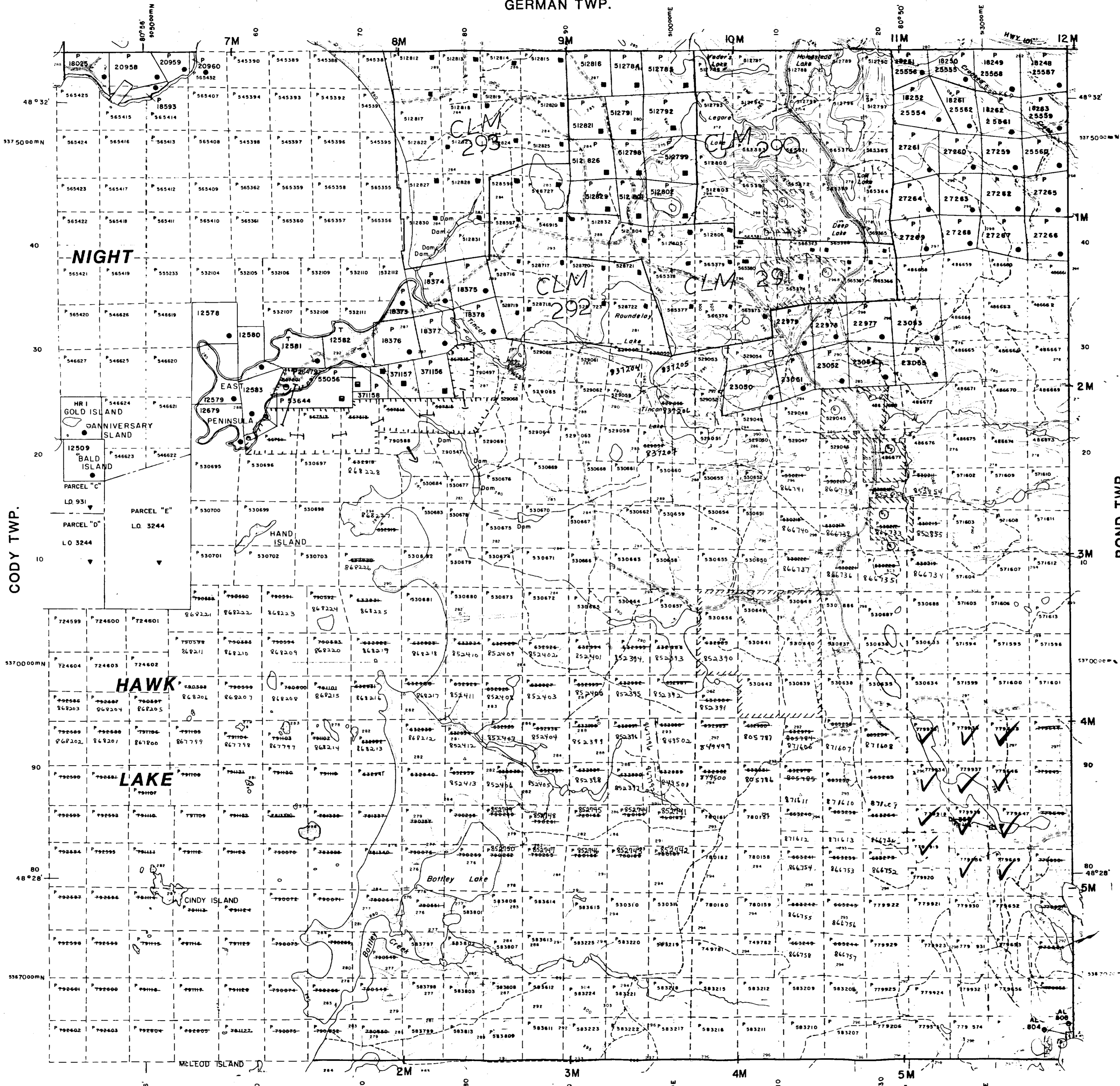
AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY	
S.R.O. - SURFACE RIGHTS ONLY	
M.+S. - MINING AND SURFACE RIGHTS	
Description	Order No.
Site Preparation 05/02/83	77094 V4

SAND and GRAVEL

- ① GRAVEL FILE 105381
- ② M.T.C. PIT 1121
- ③ QUARRY PERMIT

GERMAN TWP.



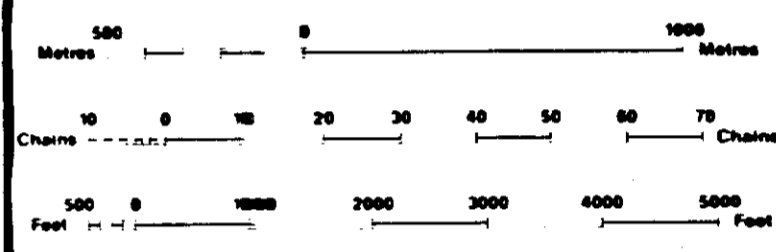
LEGEND

HIGHWAY AND ROUTE No.	
OTHER ROADS	
TRAILS	
SURVEYED LINES	
TOWNSHIPS, BASE LINES, ETC.	
LOTE, 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	OC
RESERVATION	○
CANCELLED	⊖
SAND & GRAVEL	⊙

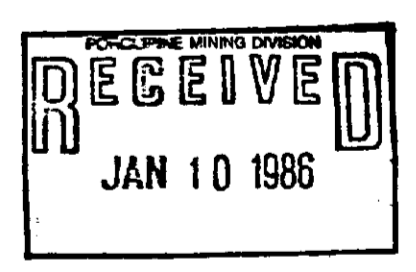
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1910, CHAP. 300, SEC. 63, SUBSEC. 1



SCALE 1:20 000
GRID ZONE 17

Reserve flooding rights on Night Hawk Lake to Ontario Hydro to elevation 903.5', T.B.N.D.Ry. datum

Area withdrawn MR+SR from Staking 7 section 36 Mining Act. R.S.O. 1980. See N.R.W. 10/85

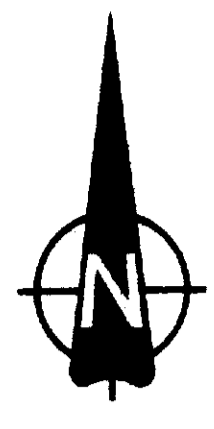


Rec'd Jan 23/85

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

Ministry of Land Management Resources Branch
Ontario

ORIGINAL COMPILATION JULY 1984
REVISED
Number: **G-3997**



28749

MAGNETOMETER SURVEY

MACKLEM TOWNSHIP

ONTARIO

LIVINGSTONE ENERGY CORP

NORTH BLOCK

SCALE: 1in. = 200 ft.

CONTOUR PLAN

LEGEND

- READING: +204 (TOTAL FIELD - 58,800 gamma)
- CONTOUR LINE: (20 gamma interval)
- (50 gamma interval)
- FAULT
- BOUNDARY, POST:
- V. L. F. CONDUCTOR AXIS
- INSTRUMENT: G. E. M. SYSTEMS, G.S.M.-8
- TYPE: PROTON PRESSION
- ACCURACY: ± 1 gamma



779933	779936	779643
779934	779937	779646
779918	779938	779647
779919		
779920	779936	779649

