

GM 19114

REPORT ON A MAGNETIC AND ELECTROMAGNETIC SURVEY

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SUMMARY

The present geophysical survey has outlined several pronounced magnetic features which probably represent diabase or gabbro intrusives. The Turam electromagnetic investigation has revealed considerable geo-electrical disturbance which is apparently mostly the result of overburden conduction.

One conductor displays favourable electrical characteristics and occurs in an area of interesting geologic structure as suggested by the magnetic data.

Examination of this conductor by means of two diamond drill holes, totalling 700 ft., has been recommended.

→ DALET SYNDICATE

→ Ctn DALET

11

GM 19114

HAROLD O. SEIGEL & ASSOCIATES, LIMITED

GEOPHYSICAL CONTRACTORS AND CONSULTANTS

79 MARTIN ROSS AVE.

P.O. BOX 158, DOWNSVIEW, ONTARIO

CABLE:
"SEIGEO", TORONTO

TELEPHONE
633-2450

REPORT ON A
MAGNETIC AND ELECTROMAGNETIC SURVEY
IN DALET TOWNSHIP, QUEBEC
ON BEHALF OF
THE DALET SYNDICATE

GM 19114

INTRODUCTION

During February, March, May and June 1964, a combined magnetic and electromagnetic survey was carried out on a property in Dalet Township, Quebec, on behalf of the Dalet Syndicate. The property comprises R. V and R. VI lots 4-13 inclusive (Grid #1), R. VII lots 20-31 inclusive and R. VIII lots 18-25 inclusive (Grid #2).

Traverse lines for the geophysical surveys were cut east-west (geogr.) at 400 ft. centres. Magnetometer and electromagnetic observations were taken at 100 ft. intervals and at intermediate stations in disturbed areas.

Measurements of the vertical component of the earth's magnetic field were made with a Sharpe MF-1 fluxgate magnetometer. Appropriate corrections for diurnal variations were made by checking back periodically to base stations previously established.

The electromagnetic survey was carried out with the Turam method, using inductive energization. In this procedure the primary field is created by means of closed rectangular loops, and two receiving coils connected to a compensator bridge are used to measure the field strength ratios and phase differences between consecutive stations. Subsurface conductors give rise to secondary electromagnetic fields, causing abnormal field strength ratios and phase differences. The relative amplitudes of field strength and phase distortions are a measure of the conductivity of the conducting bodies, i. e. good conductors are characterized by field strength distortion combined with relatively little phase shifting, whereas poor conductors affect the phase, rather than the strength of the resultant field.

For an accurate grading the resistivity/thickness (r/d) ratio of the individual conductors can be derived from the calculated in-phase and out-of-phase components. These values are marked on the upper right side of the anomalies. The depth to the current axis can be determined from the shape of the distortion and is marked on the lower left side. This depth should be regarded as the maximum depth to the upper surface of the conductor.

A standard operating frequency of 800 c. p. s. was used throughout the survey. Detailed measurements at 400 c. p. s. and/or 200 c. p. s., with smaller energizing loops, were conducted in strongly anomalous areas. Besides verifying amplitude relations, such detailed surveys result in a change of prospecting geometry which often contributes decisive criteria for the recognition of overburden conduction.

In all, 88.2 miles of profile were investigated.

TOPOGRAPHY AND GEOLOGY

The geology of the area is shown on G. S. C. map 554 A (Gale River, 1939) and described in Geological Reports 88 (Chaste-Mazarin Area, 1959) and 89 (Celoron-Carqueville Area, 1959) of the Quebec Department of Mines.

A few widely scattered outcrops occur in the west portion of grid 1 and along the Gale River in grid 2. The area is for the greater part underlain by Keewatin greenstones and volcanics. Later granites form two masses immediately east and west of the property. Hybrid rocks are found along the contacts between the granites and the older formations. Late precambrian diabase and gabbro dykes occur in the south-east portion of grid 1, striking E. N. E. according to the G. S. C. map, S. S. E. according to the Q. D. M. maps.

Sulphide mineralization in the area is generally associated with carbonate and quartz veins in shear zones. The highest concentrations appear to occur in silicified schists and tuffs. These consist primarily of pyrite, pyrrhotite and minor chalcopyrite.

The topographic relief is moderate.

DISCUSSION OF RESULTS

A. Magnetometer Survey

Plates 1 and 2 present the magnetic data obtained on grid 1 and plates 9 and 10 the data on grid 2, on a scale of 1" = 200'. The observations have been contoured at 200 gamma intervals.

Grid 1 - The most pronounced feature in grid 1 is a long, continuous E. N. E. directed zone of high magnetic intensity, which crosses the southern part of the grid (plate 2). Several smaller and shorter N. N. W. to N. striking bands of high intensity occur in the same area. Apart from the continuation of the main magnetic zone in its southeast corner, the north part of grid 1 (plate 1) shows only moderate magnetic relief.

The location of the E. N. E. striking magnetic zone coincides with the large diabase (or gabbro) dyke shown on G. S. C. map 554 A. The smaller N. N. W. striking anomalies appear to coincide, at least as to direction, with the diabase dykes shown on the Q. D. M. maps.

Grid 2 - The northern part of grid 2 (plate 9) and much of the southern part (plate 10) is without appreciable magnetic relief. The central southern part shows a strongly disturbed zone of relatively high magnetic intensity which indicates marked tectonic dislocation.

The depths calculated from the magnetic anomalies vary from less than 20 ft. (e. g. near the Gale River and baseline 'B', grid 2) to well over 50'.

B. Electromagnetic Survey

The results of the electromagnetic survey are shown on plates 3 and 4 (grid 1) and plates 11 and 12 (grid 2) in the form of field strength ratio and phase difference profiles, on vertical scales of 1" = 40% and 1" = 20° respectively, and a horizontal scale of 1" = 200'. The results of the detailed surveys are shown on plates 5 - 8 inclusive and plate 13.

Both grid 1 and grid 2 show widely scattered geo-electrical disturbance. Most anomalies display strong phase distortion and medium

to poor conductivity (r/d values larger than 20). Disparate gradients are common and the general pattern is erratic. All these are characteristic indications of overburden conduction. Detailed measurements at lower frequencies (400 and 200 c. p. s.) and with smaller energizing loops show in most cases a reduction of amplitudes to insignificant levels and a decrease of amplitude ratios confirming the initial conductivity estimates. The amplitude decrease mainly results from the changed geometry. It should be noted that the latter would only in exceptional cases adversely affect the response of a typical metallic conductor.

The detailed measurements on lines 28 S and 32 S, between baseline 'A' and the Gale River show a marked increase in response (plate 13) which can only be attributed to the modified geometry. This anomaly, its unusual character notwithstanding, derives particular interest from the favourable amplitude ratios (r/d values 2.5 - 5) and its location in relation to the magnetic pattern, which indicates marked structural deformation in this vicinity. The electromagnetic results indicate that the conductor has a relatively flat westward dip, but also suggest considerable warping.

CONCLUSIONS AND RECOMMENDATIONS

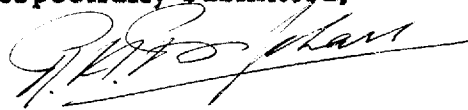
The magnetic observations in the two investigated areas show the presence of several bands of high magnetic relief which probably represents diabase or gabbro intrusives. In grid 2 these magnetic formations display a dislocated pattern.

The area shows considerable geo-electrical disturbance, which appears to be mostly due to overburden conduction. Detailed measurements of anomalous areas confirm this for all but one conductor. The latter displays greater strength and better conductivity in the detailed survey and it appears to be favourably located in relation to the magnetic pattern.

For a further examination of this conductor the following diamond drill holes are recommended:

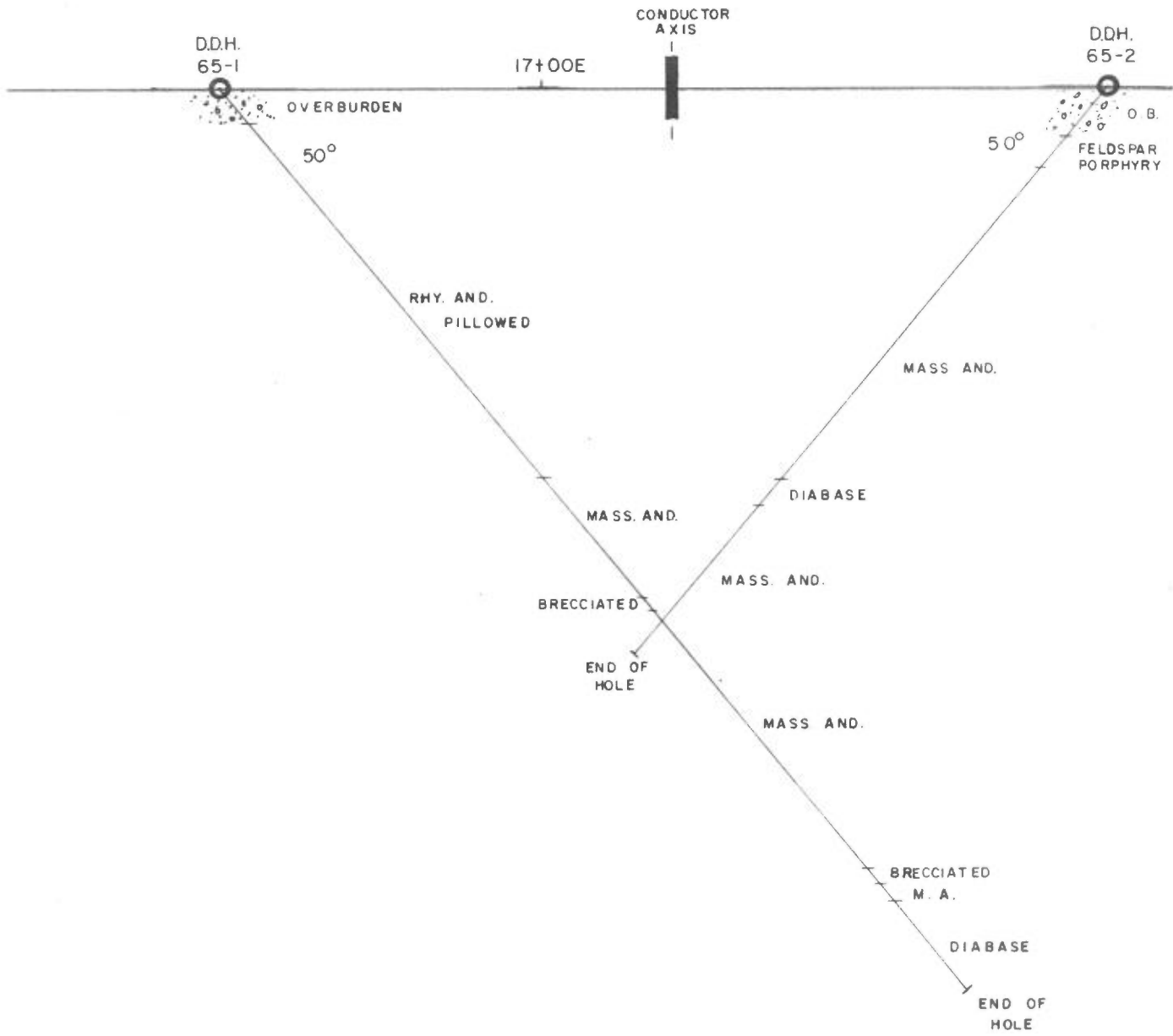
D. D. H.	Collar	Orientation	Length	Dip
#1	L 32S. 16+00 E. of baseline 'A'	Due east	350'	50°
#2	L 28S. 14+80 E. of baseline 'A'	Due east	350'	50°

Respectfully submitted,



Robbert A. Bosschart, Ph. D., P. Eng.

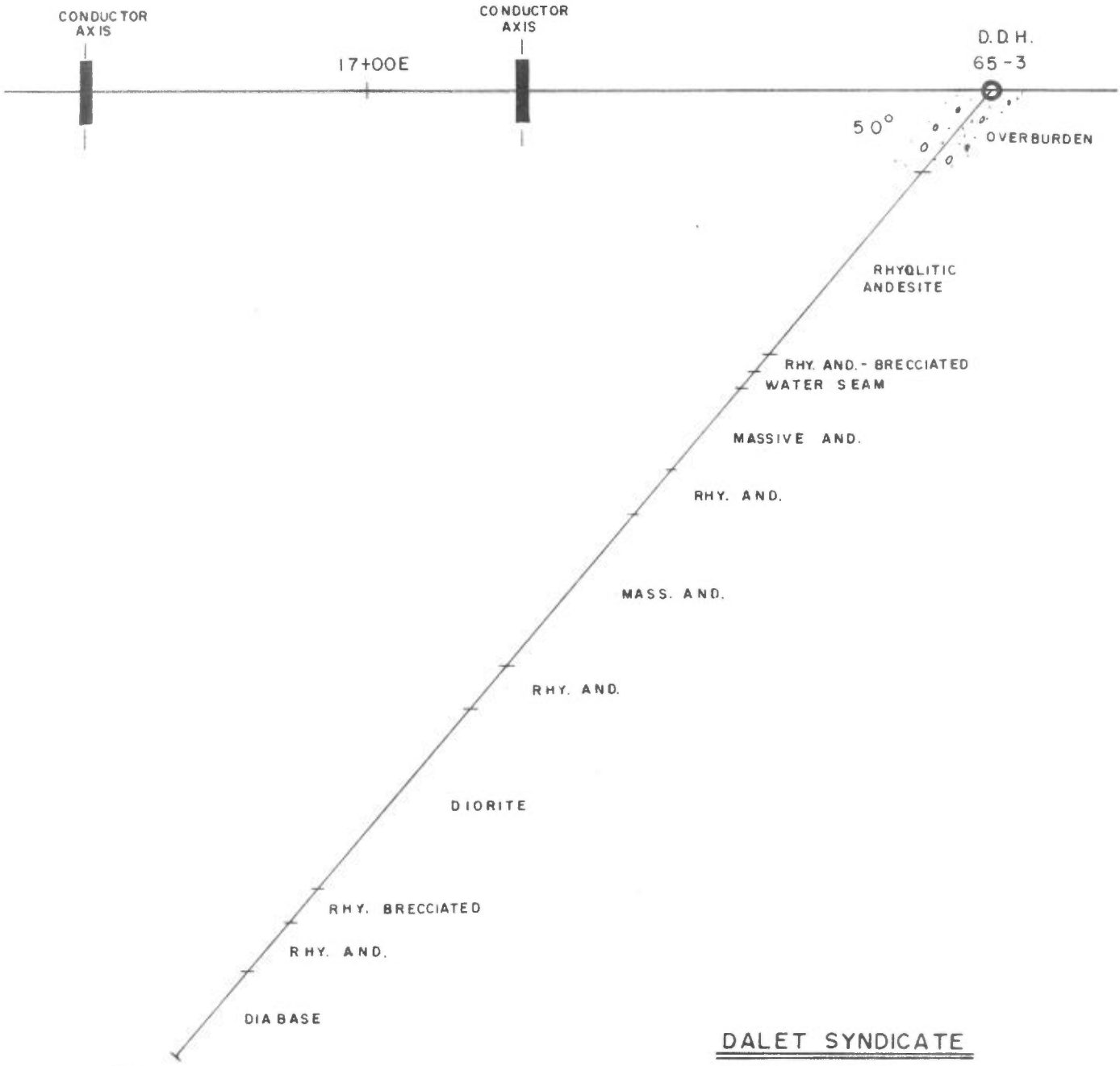
Copy
Toronto, Ontario.
January 12, 1965.



→ DALET SYNDICATE
D.D.H. - 65-1, 65-2
SECTION - 32+00S
LOCATION - 32+00S - 16+00E
SCALE - 1" = 50'
 → DALET TWP. QUEBEC

PUBLIC

230 - 1914



END OF HOLE

DALET SYNDICATE

D.D.H. - 65-3

SECTION - 28+00 S

LOCATION - 28+00S-19+00E

SCALE - 1" = 50'

DALET TWP. QUEBEC

PUBLIC

500-19114

January 10th, 1967

Mr. John I. Sharpe,
Resident Geologist,
Department of Natural Resources,
P.O. Box 335,
Rouyn, P. Que.

PUBLIC

Re: Dalet Township

Dear Mr. Sharpe:

Your letter addressed to Mr. P.C. Finlay of Newlund Mines Ltd. has been turned over to me since we were in charge of this project.

I enclose the following documents:

- Keep
- 1) Geophysical Report by H. Seigel and Associates Ltd.
 - 2) Logs of D.D.H.'s 65-1, 65-2 and 65-3.
 - 3) Sections for D.D.H.'s 65-1, 65-2 and 65-3.

I have other copies of this material and you need not return it.

I also enclose the following maps, which are the only copies I have:

- return }
- 4) Location Map
 - 5) Geophysical Survey Maps
Plates 1-13 (inclusive)

While it is not important, and there is certainly no hurry, if you wish to return these Geophysical Maps to me at some future date, I would appreciate it.

Yours very truly,

THE CANADIAN FARADAY CORP. LTD.

John R. Bridger,
Consulting Geologist.

JRB:as
Encis.

File: Dalet Syndicate]
Dalet trip

NEWLUND MINES LIMITED

Sixteenth Annual Report



PUBLIC

QUEBEC DEPARTMENT OF NATURAL RESOURCES
Office of the resident geologist
ROUYN-NORANDA

For the Year Ending September 30th, 1965

NEWLUND MINES LIMITED

Sixteenth Annual Report

For the fiscal year ended September 30th, 1965

Authorized Capital — 6,000,000 shares of \$1.00 Par Value

Issued Capital — 5,483,808 shares

Incorporated under the Laws of Ontario



OFFICERS

ERIC CRADOCK	. . . . .	President
J. P. DOLAN	. . . . .	Vice-President
P. C. FINLAY, Q.C.	. . . . .	Secretary-Treasurer
H. HUNTER	. . . . .	Assistant Secretary-Treasurer

DIRECTORS

ERIC CRADOCK	. . . . .	Toronto
J. P. DOLAN	. . . . .	Toronto
P. C. FINLAY, Q.C.	. . . . .	Toronto
A. W. JOHNSTON	. . . . .	Toronto
J. B. RYAN	. . . . .	Edmonton

TRANSFER AGENT AND REGISTRAR

EASTERN & CHARTERED TRUST COMPANY
1901 Yonge Street
Toronto, Ontario

SOLICITORS

HOLDEN, MURDOCH, WALTON, FINLAY,
ROBINSON, PEPALL & HARVEY
2402 Bank of Nova Scotia Building
Toronto, Ontario

AUDITORS

GUNN, ROBERTS and CO.
Toronto, Ontario

HEAD OFFICE

2402 Bank of Nova Scotia Building
Toronto, Ontario

NEWLUND MINES LIMITED

Directors' Report

To the Shareholders:

Your Directors submit herewith the Balance Sheet of your Company as at September 30th, 1965, duly certified by the Auditors of your Company, together with Statement of Exploration and Administrative Expenditures, Summary of Expenditures Deferred and Statement of Deficit for the year ending September 30th, 1965.

You will note from the Balance Sheet that the listed shares carried at a book value of \$337,926.00 had a quoted market value of \$655,000.00.

During 1965 three diamond drill holes totalling 996 feet were completed on a group of 40 mining claims in Dalet Township, Province of Quebec, in which your Company held a 25% interest. The results obtained were unsatisfactory, and these claims have now been dropped.

Following completion of a geophysical survey, which indicated two electromagnetic conductors, during the period March 30th to June 17th, 1965, four diamond drill holes totalling 2,075.5 feet were completed on the 40-claim group in Lozeau Township, Mattagami Lake Area, Province of Quebec, previously staked by your Company. Results obtained did not have any economic significance, and on the recommendation of your Company's Consulting Geologist, no further work has been planned for this property, although same has been maintained in good standing.

During the year, your Company allowed its 18-claim group in Villebon Township, the 40-claim group in Verneuil Township, the 15-claim group in Grevet Township, the 20-claim group in Grasset Township, all in the Province of Quebec, and the 36-claim group in the Coughlan Lake Area, Kowkash Mining Division, Province of Ontario, to expire, due to the lack of satisfactory results.

Your Company continues to retain its 25% interest in 15 mining claims in Daniel Township, Province of Quebec, and these claims have been maintained in good standing.

Throughout the past year your Company examined several properties and is continuing its efforts to obtain, either by staking or through working option agreements, other mining properties of merit.

No work was done on your Company's original gold property in Echo Township, Province of Ontario. However, these claims have also been maintained in good standing.

On behalf of the Board,

ERIC CRADOCK,
President.

Toronto, Ontario,
March 7th, 1966.

NEWLUND MINES LIMITED

(Incorporated under the laws of the Province of Ontario)

Balance Sheet — September 30, 1965

ASSETS			LIABILITIES		
		1964 for Comparison			1964 for Comparison
Current Assets			Current Liabilities		
Cash	\$ —	\$ 19,508	Bank loan and overdraft (secured by marketable securities)	\$ 29,921	\$ —
Marketable securities at cost (quoted market value 1965, \$655,000; 1964 \$509,400)	337,926	356,446	Accounts payable	13,102	6,626
	337,926	375,954	Payable for securities purchased (secured)	61,862	85,240
Shares in Other Companies				104,885	91,866
Unlisted shares at cost	53,670	974	Shareholders' Equity		
Other shares (including dormant subsidiary company) at nominal values	3	3	Capital stock		
	53,673	977	Authorized — 6,000,000 shares of \$1 each		
Mining Properties and Claims			Issued — 5,483,808 shares	5,483,808	5,483,808
Patented mining claims in Echo Township, Ontario, at nominal value	1	1	Less discount on shares	2,110,900	2,110,900
Mining claims and interest in mining claims at nominal value	2	11		3,372,908	3,372,908
Interest in mining claims in Dalet Township, Quebec, at cost	—	1,000	Deduct deficit	3,048,998	3,056,620
	3	1,012		323,910	316,288
Other Assets				\$ 428,795	\$ 408,154
Interest in buildings and equipment, Echo Township, Ontario, at nominal value	1	1			
Interest in mining syndicate, at cost	1,000	500			
	1,001	501			
Deferred Expenditures					
Exploration expenditures as per statement	36,192	29,710			
	\$ 428,795	\$ 408,154			

Approved on behalf of the Board:

ERIC CRADOCK, Director.

P. C. FINLAY, Director.

AUDITORS' REPORT TO THE SHAREHOLDERS

We have examined the balance sheet of Newlund Mines Limited as at September 30, 1965 and the statements of exploration and administrative expenditures and deficit for the year then ended. Our examination included a general review of the accounting procedures and such tests of accounting records and other supporting evidence as we considered necessary in the circumstance.

In our opinion the accompanying balance sheet and statements of exploration and administrative expenditures and deficit present fairly the financial position of the company as at September 30, 1965 and the results of its operations for the year then ended, in accordance with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

Toronto, Canada,
February 11, 1966.

GUNN, ROBERTS and CO.,
Chartered Accountants.

NEWLUND MINES LIMITED

Statement of Exploration and Administrative Expenditures

For the year ended September 30, 1965

Exploration Expenditures		
Echo Township, Ontario	\$ 3,211	
Dalet Township, Quebec	2,723	
Daniel Township, Quebec	45	
Lozeau Township, Quebec	20,582	
Onaman River Area, Ontario	100	
Vauquelin Township, Quebec	559	
Vilibon Township, Quebec	695	
Sundry exploration	190	\$ 28,105
<hr/>		
Administrative and Corporate Expenses		
Management fee	10,000	
Office services	2,400	
Share transfer expenses	1,843	
Legal and audit fees	4,771	
Annual meeting expenses	662	
Directors' fees	150	
Miscellaneous expenses	12	
Interest	9,092	
	28,930	
Deduct dividends received	8,243	20,687
		<hr/>
Expenditures (net) for the year		48,792
Balance deferred at October 1, 1964		29,710
		<hr/>
		78,502
Deduct amounts written off to deficit		
Exploration expenditures		
Dalet Township, Quebec	7,093	
Echo Township, Ontario	3,211	
Onaman River Area, Ontario	1,657	
Vauquelin Township, Quebec	3,863	
Vilibon Township, Quebec	1,341	
Wilson Lake, Quebec	4,268	
Sundry exploration	190	
	21,623	
Administrative and corporate expenses	20,687	42,310
		<hr/>
Balance deferred at September 30, 1965		<u>\$ 36,192</u>

SUMMARY OF EXPENDITURES DEFERRED

Exploration Expenditures		
Daniel Township, Quebec	\$ 45	
Lozeau Township, Quebec	36,147	
		<hr/>
		<u>\$ 36,192</u>

NEWLUND MINES LIMITED

2402 Bank of Nova Scotia Building
44 King Street West
TORONTO 1 - ONTARIO

NOTICE OF ANNUAL MEETING

To the Shareholders:

TAKE NOTICE that the Annual Meeting of the Shareholders of NEWLUND MINES LIMITED will be held at Room 2402, Bank of Nova Scotia Building, 44 King Street West, Toronto, Ontario, on Tuesday, the 29th day of March, 1966, at the hour of 11:30 o'clock in the forenoon, Eastern Standard Time, to receive Reports, elect Directors, appoint Auditors and to transact all such other business as may properly come before the Meeting.

A copy of the Reports and Balance Sheet to be submitted to the Meeting is enclosed herewith.

DATED this 8th day of March, 1966.

By Order of the Board,

P. C. FINLAY,
Secretary.

NOTE: If unable to attend in person, please sign and return the attached proxy in the envelope enclosed for that purpose.

PROXY

NEWLUND MINES LIMITED

The undersigned, a Shareholder of NEWLUND MINES LIMITED, hereby appoints ERIC CRADOCK, President, or failing whom, J. P. DOLAN, Vice-President, or failing whom, P. C. FINLAY, Secretary-Treasurer, all of Toronto, Ontario, as my proxy, to vote for me and on my behalf at the Annual Meeting of Shareholders of the Company to be held on Tuesday, the 29th day of March, 1966, and at any adjournment thereof.

DATED this 25th day of March, 1966.

Signature of Shareholder

NUMBER OF SHARES

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- NOTE: (1) Where the appointor is a corporation or an officer of it, the necessary changes must be made in the form.
(2) Where the instrument is signed by a corporation, the corporate seal must be affixed.

NEWLUND MINES LIMITED



Statement of Deficit For the year ended September 30, 1965

Balance October 1, 1964			\$3,056,620
Add amounts written off:			
Cost of interest in mining claims	\$ 1,508		
Exploration expenditures	21,623		
Administrative and corporate expenses	20,687	43,818	
		<u>3,100,438</u>	
Deduct profit on securities		51,440	
Balance September 30, 1965		<u><u>\$3,048,998</u></u>	