

NAME *05 - Prospectus*

**MINISTRY OF ENERGY, MINES AND
PETROLEUM RESOURCES
VICTORIA, BRITISH COLUMBIA**

SUBJECT *82ESE119*

TEXAS G-TO

SUB
FILE No. *05*

001288

PROPERTY FILE

Series of horizontal dotted lines for notes or additional information.

BONUS RESOURCES LTD.

101 - 325 Howe Street, Vancouver, British Columbia

P R O S P E C T U S

May 15, 1972

New Issue

350,000

Common Shares

	Price to Public	Commission	Proceeds to Issuer if all of the shares are sold
Per Unit	15¢	3 3/4	11 1/4
Total	\$52,500.00	\$13,125.00	\$39,375.00

THERE IS NO EXISTING OVER-THE-COUNTER MARKET FOR THE COMPANY'S SECURITIES IN THE PROVINCE OF BRITISH COLUMBIA OR ELSEWHERE.

A PURCHASE OF THE SHARES OFFERED BY THIS PROSPECTUS MUST BE CONSIDERED A SPECULATION SINCE THE COMPANY'S MINERAL CLAIMS ARE STILL ONLY IN THE EXPLORATION STAGE. REFERENCE SHOULD ALSO BE MADE TO THE CAPTION "PRINCIPAL HOLDERS OF SHARES" AND THE COMPARISON OF THE PERCENTAGE OF SECURITIES BEING OFFERED TO THE PUBLIC FOR CASH AND THOSE ALREADY ISSUED BY THE COMPANY TO ACQUIRE ITS PROPERTIES.

NO SECURITIES COMMISSION OR SIMILAR AUTHORITY IN CANADA HAS IN ANY WAY PASSED UPON THE MERITS OF THE SECURITIES OFFERED HEREUNDER AND ANY REPRESENTATION TO THE CONTRARY IS AN OFFENCE.

NO SURVEY HAS BEEN MADE OF THE COMPANY'S LOCATED MINERAL CLAIMS AND THEREFORE IN ACCORDANCE WITH THE MINING LAWS OF THE PROVINCE OF BRITISH COLUMBIA, THEIR EXISTENCE AND AREA COULD BE IN DOUBT.

THE PROPERTY OF THE COMPANY IS WITHOUT A KNOWN BODY OF COMMERCIAL ORE AND THE PROPOSED PROGRAM IS AN EXPLORATORY SEARCH FOR ORE.

I N D E X

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LIVGARD CONSULTANTS LTD.

1331 MARINE BUILDING

VANCOUVER 1, B.C.

EGIL LIVGARD, B.Sc., P.Eng.

REPORT

ON THE

WAY CLAIMS #1 - #20

and

THE GRANADA CROWN GRANT

for

-December 3rd, 1971.

E. Livgard, B.Sc., P. Eng.

Vancouver, B.C.

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MAPS: Location and General Geology Map (following Page 5)
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APPENDIX:

Certificate

References

BONUS RESOURCES LTD.

Statement of source and use of funds
for the period from March 14, 1972 (date of incorporation)
to April 15, 1972

SOURCE OF FUNDS :

Issue of 750,005 shares of capital stock \$ 7,505

USE OF FUNDS :

Deferred expenditures -

Organization costs (re prospectus) -

Engineer's fees

\$ 400

Government fees

200

600

Accounting and audit

250

Legal

1,500

2,350

Incorporation costs

1,728

4,078

Acquisition of mineral claims -

By issue of 750,000 shares of capital stock

7,500

11,578

WORKING CAPITAL DEFICIENCY, April 15, 1972

\$ 4,073

REPRESENTED BY :

Current liabilities

\$ 4,073

Less current assets

NIL

As above

\$ 4,073

BONUS RESOURCES LTD.

Notes to financial statements, April 15, 1972

1. MINERAL CLAIMS

The company is the owner of 20 located mineral claims and 1 mineral lease in a contiguous group situated 4 miles west of the town of Midway and less than 1 mile north of Highway 3 in the Greenwood Mining Division of the Province of British Columbia.

Acquisition cost -

750,000 shares of the company's capital stock
at a deemed price of 1¢ per share \$ 7,500

2. CAPITAL STOCK

a) Capital stock has been issued to date for the following consideration -

	<u>No. of shares</u> <u>(no par value)</u>	<u>Price</u>	<u>Net</u>
For cash	5	\$1.00	\$ 5
For mineral claims	750,000	.01	<u>7,500</u>
	<u>750,005</u>		<u>\$ 7,505</u>

b) The 750,000 shares issued for mineral claims are to be held in escrow to the order of the British Columbia Superintendent of Brokers.

3. DIRECTORS' REMUNERATION

No direct remuneration has been paid by the company to its Directors to date.

BONUS RESOURCES LTD.

(Incorporated under the B.C. Companies Act, March 14, 1972)

Balance sheet, April 15, 1972

ASSETS

MINERAL CLAIMS (Note 1)		\$ 7,500
DEFERRED EXPENDITURES :		
Organization costs (re prospectus) -		
Engineer's fees	\$ 400	
Government fees	200	
	<u>600</u>	
Accounting and audit	250	
Legal	<u>1,500</u>	
	<u>2,350</u>	
Incorporation costs	<u>1,728</u>	<u>4,078</u>
		\$ <u>11,578</u>

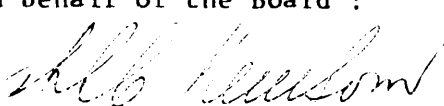
LIABILITIES

CURRENT :		
Payables		\$ 2,273
Loans from Directors		<u>1,800</u>
		<u>4,073</u>


SHAREHOLDERS' EQUITY

CAPITAL STOCK (Note 2) :		
Authorized -		
<u>3,000,000</u> shares, no par value		
Issued -		
<u>750,005</u> shares		<u>7,505</u>
		\$ <u>11,578</u>

Approved on behalf of the Board :

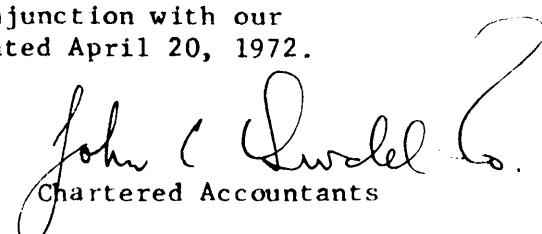


Director



Director

To be read in conjunction with our
report to the Shareholders dated April 20, 1972.


Chartered Accountants

Vancouver, Canada

April 20, 1972.

Auditors' Report

To the Shareholders of
Bonus Resources Ltd.

We have examined the accompanying balance sheet of Bonus Resources Ltd. as at April 15, 1972 and the statement of source and use of funds for the period from March 14, 1972 (date of incorporation) to that date. Our examination included a general review of the accounting procedures and such tests of the accounting records and other supporting evidence as we considered necessary in the circumstances.

In our opinion these financial statements present fairly the financial position of the company as at April 15, 1972 and the source and use of its funds for the period then ended, in accordance with generally accepted accounting principles.


Chartered Accountants

NAME AND INCORPORATION OF ISSUER

The full name of the Company is BONUS RESOURCES LTD. Its registered office is 534 - 789 West Pender Street, Vancouver, British Columbia. The head office is 101 - 325 Howe Street, Vancouver, British Columbia.

The Company was incorporated on March 14th, 1972 under the laws of the Province of British Columbia by Memorandum of Association. The Company was incorporated as a private company and was converted to a public company on May 12th, 1972.

PLAN OF DISTRIBUTION

The Company will sell its shares through persons or companies registered under the Securities Act, 1967 and will pay a commission of up to 25% or 3.75¢ per share to such persons or companies for each such share sold. The Company may also sell its shares directly to the public, in which case, it may allow a commission to subscribers of up to 25% or 3.75¢ per share for each share subscribed for. No commissions will be paid to trading directors of the Company for shares sold by them.

DIRECTORS AND OFFICERS

<u>Name and Address</u>	<u>Principal Occupation for past five years</u>	<u>Position Held with Company</u>
WILLIAM LIONEL CLARENCE NEWSOM 305 - 517 Foster Avenue Coquitlam, B.C.	Ore Controller until May, 1970; since then, Mining Executive.	President & Director
IAN NUGENT #7 - 6112 Willow Street Vancouver, B.C.	Office Manager, purchasing agent, real estate salesman, presently Self-employed Businessman.	Secretary- Treasurer & Director

CAPITALIZATION

<u>Designation of Security</u>	<u>Amount authorized by Memorandum of Association</u>	<u>Amount outstanding as at April 15th, 1972 (date of Balance Sheet contained in Prospectus)</u>
Common Shares No Par Value	3,000,000	750,005
<u>Amount outstanding as at the date of this Prospectus</u>		<u>Amount to be outstanding if all securities being issued are sold</u>
750,005		1,100,005

PRIOR SALES

<u>Number of Shares</u>	<u>Price per Share</u>	<u>Net Cash Received</u>	<u>Commission Paid</u>
5	\$1.00	\$5.00	Nil
750,000	Deemed price of 1¢ per share.	For property	Nil

All of the above shares were sold during the past 12 months.

DESCRIPTION OF SHARE CAPITAL STRUCTURE

The share capital of the Company consists of one class of shares only. All shares issued by the Company rank equally as to dividends, voting rights and as to any distribution of assets on winding-up or liquidation. There are no indentures or agreements limiting the payment of dividends and there are no conversion rights, no special liquidation rights, pre-emptive rights, or subscription rights. The presently outstanding share capital is not subject to any call or assessment and the shares offered hereby when issued and sold as described in this Prospectus will not be subject to any call or assessment.

USE OF PROCEEDS

The estimated net proceeds to be derived by the issuer from the sale of the securities being offered hereby is \$39,375.00.

The proceeds of the sale of securities will be used to conduct the exploration program recommended by E. Livgard, B.Sc., P.Eng., in his report on the Way claims and Granada

Crown Grant dated December 3rd, 1971, a copy of which is attached hereto and forms part of this Prospectus.

The breakdown of the expenditures is as follows:

Aerial photo study with report and map	\$ 500.00
Grid system (approx. 24 line miles) @\$100./line mile	2,400.00
Geology, map and report \$200./claim	4,200.00
Geochemical survey - 24 line miles 1200 samples	6,200.00
Magnetic survey - 24 line miles @ \$100./mile	2,400.00
Cat Trenching - 100 hrs. @ \$40./hr.	4,000.00
Claim Survey	2,000.00
Supervision and Sampling	1,600.00
Land Compensation	1,000.00
Consulting	1,000.00
Administration, travel, assaying	3,000.00
	<hr/>
	28,300.00
Contingencies -	<hr/>
	3,700.00
	<hr/>
	TOTAL:...\$32,000.00

The balance of \$7,375.00 of the proceeds will be used to pay off current liabilities of \$4,100.00, and for general administrative expenses connected with the Company's operations. In the event not all of the shares offered hereunder are sold, priority will be given to the work program set out in the order above.

The Company may pursuant to the recommendation of a qualified Engineer abandon in whole or in part any of its properties or may alter as work progresses the work program recommended or may make arrangements for the performance of all or any portion of such work by other persons or companies and may use any money so diverted for the purpose of conducting work or examining other properties acquired by the Company after the date of this Prospectus although the Company has no present plans in this regard. If any such event occurs during the

primary distribution of the shares referred to in this Prospectus, an amendment to this Prospectus will be filed.

No part of the proceeds shall be used to invest, underwrite, or trade in securities other than those that qualify as investments in which trust funds may be invested under the laws of the jurisdiction in which securities offered by this Prospectus may be lawfully sold. Should the Company propose to use the proceeds to acquire non-trustee type securities after initial distribution of the securities offered by this Prospectus, approval by the shareholders must first be obtained and prior disclosure must be made to the securities regulatory bodies having jurisdiction over the sale of the securities offered by this Prospectus.

DESCRIPTION OF BUSINESS AND PROPERTY OF ISSUER

The principal business of the Company is the acquisition, exploration and development of mineral deposits.

WAY CLAIMS AND GRANADA CROWN GRANT

The Company is the recorded owner subject to the British Columbia Mineral Act of the following located mineral claims and Crown Granted Mineral Lease situate in the Greenwood Mining Division of the Province of British Columbia.

<u>Name of Claim</u>	<u>Record Number</u>
Way #1 - #20	35634 - 35653
<u>Name of Claim</u>	<u>Mineral Lease Number</u>
Granada	M - 419

The Company acquired all of the above claims and Crown Granted Mineral Lease pursuant to an Agreement dated April 15th, 1972 with Ian Nugent and William L.C. Newsom, for the issue and allotment of 750,000 fully paid non-assessable shares of the Company subject to escrow restrictions as follows:

Ian Nugent #7 - 6112 Willow Street Vancouver, B.C.	- 375,000 shares
William L.C. Newsom 305 - 517 Foster Avenue Coquitlam, B.C.	- 375,000 shares

Mr. Nugent and Mr. Newsom are both Directors and Officers of the Company.

The cost of the claims to Messrs. Nugent and Newsom was the sum of \$2,000.00.

To the best knowledge of the signatories hereto no person has received or is to receive a greater than 5% interest in the consideration paid to the Vendor for the claims.

The property lies four miles west of Midway, British Columbia, in the Greenwood Mining Division. The property is about 290 miles east of Vancouver, B.C.

Highway 3 lies less than one mile south of the claims, and a dirt farm road crosses the property. The C.P.R. Kettle Railway lies alongside the highway.

Several pits and rock cuts have been excavated on copper mineralization located on the Granada Crown Grant. Work has been done in the area in the past by Utah Construction Ltd. on claims names Bornite. These claims subsequently lapsed, and the ground was partly re-staked by Texas Gulf Sulphur Company as the G-To claims. The G-To claims lie immediately south of the WAY claims, and the WAY claims may cover some ground previously covered by some G-To claims now lapsed. The work carried out by Utah Construction on the ground to the south consisted of geophysical surveys and six diamond drill holes. Weak, scattered copper mineralization in calc-silicate skarn was reportedly intersected in the holes. The locations of the holes are not known to the writer, other than one or two possible locations on or near Texas Crown Grant 1500' South of the WAY claims noted on a geology map submitted as assessment work by Texas Gulf Sulphur Company.

Texas Gulf Sulphur Company carried out geological mapping and geochemical surveying south of the WAY claims

and also covering one half of WAY claims #19 and #20. The geochemical survey outlined anomalous soil values in copper over an area of about 2000' x 600'. The anomaly lies 500 feet due south of the Granada Crown Grant. The sample lines were 800 feet apart in the anomaly area. As only one sample on one line indicates the termination of the anomaly toward the Granada Crown Grant, the evidence cannot be considered conclusive. The soil samples from what is now the WAY claims #19 and #20 did not give anomalous values in copper.

No work has been done on the property by the Company since its acquisition.

There is no surface or underground plant or equipment on the property.

The principal mineralization on the property is copper.

For further details see the report of E. Livgard, B.Sc., P.Eng., dated December 3rd, 1971, attached hereto and forming part of this Prospectus.

There is no known body of commercial ore on the property and the proposed program is an exploratory search for ore.

PROMOTERS

Ian Nugent and William L.C. Newsom, acting in their capacity as Directors of the Company, may be considered the Promoters of the Company in accordance with Section 2 (1) of the Securities Act, 1967. Reference is made to the caption "Description of Business and Property of Issuer" wherein the interests of the Directors in the property acquired by the

Company and the consideration received by them therefor is disclosed.

REMUNERATION OF DIRECTORS AND SENIOR OFFICERS

No direct remuneration has been paid by the Company to its Directors and Senior Officers from the date of incorporation to the date of this Prospectus. The aggregate direct remuneration expected to be paid during the current fiscal year ending March 31st, 1973, to Directors and Senior Officers of the Company is not expected to exceed \$6,000.00.

ESCROWED SHARES

As of the date of this Prospectus, 750,000 shares are held in escrow by Guaranty Trust Company of Canada, 540 Burrard Street, Vancouver, B.C. subject to the direction or determination of the British Columbia Securities Commission (Commission). The escrow restrictions provide that the shares may not be traded in, dealt with in any manner whatsoever, or released nor may the Company, its transfer agent or escrow holder make any transfer or record any trading of the shares without the consent of the Commission.

In the event the Company loses or abandons or fails to obtain title to all or part of the property or assets for which it allotted all or part of the escrow shares, the Company will declare any such event to the Commission by way of directors resolution and the holders of such shares, the trustee thereof and the company, have agreed that such number of said shares, as the Commission determines shall have become subject to cancellation, shall be surrendered to the company by way of gift for cancellation. The complete text of the escrow agreement is available for inspection at the registered office of the Company, 534 - 789 West Pender Street, Vancouver 1, B.C.

<u>Designation of Class</u>	<u>Number of Shares Held in Escrow</u>	<u>Percentage of Class</u>
Common Shares	750,000	100%

5 shares of the capital of the Company sold for cash have been voluntarily pooled with the Guaranty Trust Company of Canada not to be sold until 30 days after the completion of the sale of the shares offered by this Prospectus or until abandonment of the right to sell same.

PRINCIPAL HOLDERS OF SHARES

Set forth hereunder are the particulars of the principal holders of shares of the Company as of the date of this Prospectus:

<u>Name and Address</u>	<u>Designation of Class</u>	<u>Type of Ownership</u>	<u>No. of Shs. Owned</u>	<u>Percentage of Class</u>
IAN NUGENT #7 - 6112 Willow St. Vancouver, B.C.	Common	Of record and Beneficial	375,001	50%
WILLIAM L.C. NEWSOM 305 - 517 Foster Ave. Coquitlam, B.C.	Common	Of record and Beneficial	375,001	50%

The following table shows the respective percentage holdings of the directors and senior officers of the issuer as a group:

<u>Designation of Class</u>	<u>Percentage of Class</u>
Common Shares	100%

Based on 1,100,005 shares to be outstanding if the shares offered by this Prospectus are sold, 68.18% of the shares have been issued to Directors for property and cash and 31.82% are being offered to the public.

INTEREST OF MANAGEMENT AND OTHERS IN MATERIAL TRANSACTIONS

Reference is made to the caption "Description of Business and Property of Issuer" for shares issued by the Company to Directors for property.

PRELIMINARY EXPENSES

As set out in the Financial Statements attached hereto the following preliminary expenses were incurred by the Company:

Exploration and development	\$ 600.00
Administration	\$1,750.00
Incorporation	<u>\$1,727.75</u>
	<u>\$4,077.75</u>

AUDITORS, TRANSFER AGENTS AND REGISTRARS

The Auditor of the Company is John C. Oswald & Co., Chartered Accountants, 635 - 789 West Pender Street, Vancouver 1, B.C.

The Company's Registrar and Transfer Agent is Guaranty Trust Company of Canada, 540 Burrard Street, Vancouver, B.C.

PURCHASERS STATUTORY RIGHT OF RESCISSION

Section 61 and 62 of the Securities Act, 1967 (British Columbia) provides in effect, that where a security is offered to the public in the course of primary distribution,

- (a) a purchaser has a right to rescind a contract for the purchase of a security, while still the owner thereof, if a copy of the last prospectus, together with financial statements and reports and summaries of reports relating to the securities as filed with the British Columbia Securities Commission, was not delivered to him or his agent prior to delivery to either of them of the written confirmation of the sale of the securities. Written notice of intention to commence an action for rescission must be served on the person who contracted to sell within 60 days of the date of delivery of the written confirmation, but no action shall be commenced after the expiration of three months from the date of service of such notice.
- (b) a purchaser has the right to rescind a contract for the purchase of such security, while still the owner thereof, if the prospectus or any amended prospectus offering such security contains an untrue statement of a material fact or omits to state a material fact necessary in order to make any statement therein not misleading in the light of the circumstances in which it was made, but no action to enforce this right can be commenced by a purchaser after expiration

of 90 days from the later of the date of such contract or the date on which such prospectus or amended prospectus is received or is deemed to be received by him or his agent.

Reference is made to the said Act for the complete text of the provisions under which the foregoing rights are conferred.

OTHER MATERIAL FACTS

There are no other material facts relating to the securities offered by this Prospectus which are not disclosed under the foregoing captions.

CERTIFICATE

The foregoing constitutes full, true and plain disclosure of all material facts relating to the securities offered by this Prospectus as required by Part VII of the Securities Act, 1967 and the regulations thereunder.

DATED the 15 day of May, A.D. 1972.



DIRECTOR AND PROMOTER



DIRECTOR AND PROMOTER

INTRODUCTION:

The writer examined the WAY claims, and the Granada Crown Grant on November 19th, 1971, at the request of the Prospector, Mr. J. J. Oberbillig.

This Report is based on that examination, and on information obtained from the sources listed in the References. The geological-geochemical Report on the G-To Claims of Texas Gulf Sulphur Company gives little information on the WAY Claims directly, but has been very helpful in evaluating the potential of the Claims.

SUMMARY:

The writer visited the WAY Claims and the Granada Crown Grant on November 19th, 1971. The claim group consists of 20 staked claims and one Crown Grant in a contiguous group located four miles west of Midway, British Columbia, less than one mile north of Highway 3. The property covers open grazing land, and is traversed by Ingram Creek. The area has been one of the major copper producing areas in British Columbia, and extensive exploration has taken place. Work, consisting of geochemical and geophysical surveying, geological mapping and diamond drilling has been carried out on properties to the south and the east of the WAY Claims.

The claims cover rocks of the Anarchist group and later intrusive rocks. Copper mineralization occurs with skarn in calcareous beds in the Anarchist group closely associated with intrusive rocks. The intrusive rocks have been extensively mineralized with pyrite and may also be considered a possible host rock for copper mineralization. An exploration program consisting of geological mapping, geochemical and magnetic surveying, and cat trenching, costing a total of \$32,000.00, is recommended, to examine the possibility of finding economic mineralization of these types.

RECOMMENDATIONS:

An aerial photo-study should be carried out over the claims and surrounding area. This should be followed by geological mapping on the ground, a geochemical soil survey with samples analysed for copper, and a magnetic survey to aid in the mapping and possibly locate mineralized skarn which may show higher magnetic intensity than the surrounding rocks.

The geological mapping should be carried out in considerable detail.

The grid system lines should run east-west 400' apart, with stations spaced 100' apart. The soil survey should obtain soil samples at each station.

Bulldozer trenching should be carried out to expose mineralization, particularly on the Granada Crown Grant, and in the area of mineralized intrusive rocks on the west bank of Ingram Creek on Way Claim #19.

A geological consultant's report should be obtained following the above, to outline further work if the results are favourable.

COST OF RECOMMENDATIONS:

Aerial photo study with report and map.	\$ 500.00
Grid system (approx. 24 line miles) @ \$100./line mile	2,400.00
Geology, map and report - \$200./claim	4,200.00
Geochemical survey - 24 line miles 1200 samples	6,200.00
Magnetic survey - 24 line miles @ \$100./mile	2,400.00
Cat Trenching - 100 hrs. @ \$40./hr.	4,000.00
Claim Survey	2,000.00
Supervision and Sampling	1,600.00
Land Compensation	1,000.00
Consulting	1,000.00
Administration, Travel, Assaying	3,000.00
	<hr/>
	28,300.00
Contingencies -	3,700.00
	<hr/>
	<u>\$32,000.00</u>

PROPERTY:

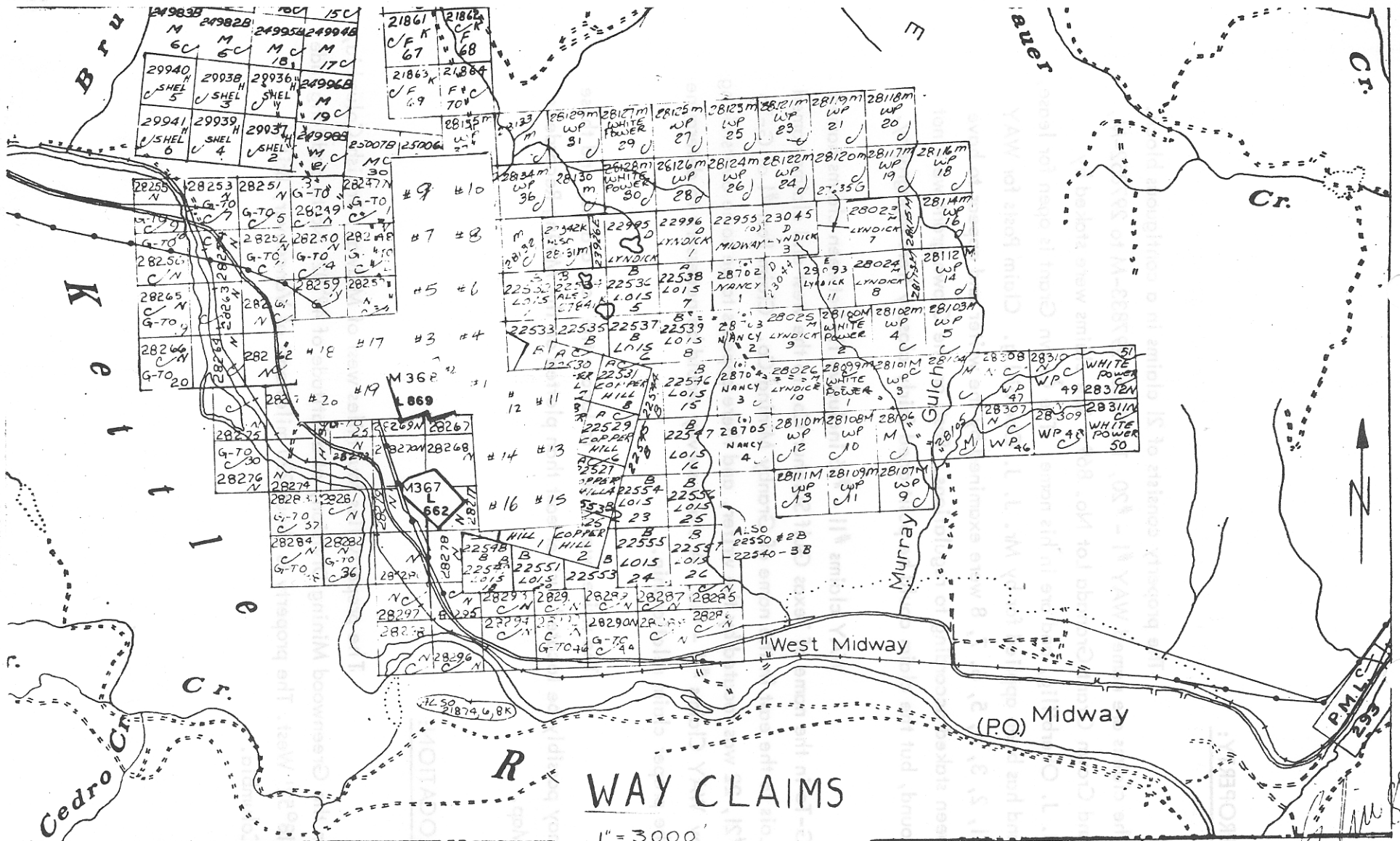
The property consists of 21 claims in a contiguous block. The claims are named WAY #1 - #20, Tag Nos. 297833-M to 297852-M, and Crown Grant Granada Lot No. 869. The claims were staked by J. J. Oberbillig, and are in his name. The Crown Grant is open for lease, and has been applied for by Mr. J. J. Oberbillig. Claim Posts for WAY #1, 2, 3, 4, 5, 6, 7, 8 were examined by the writer and appear to have been staked according to regulations. Posts on the Crown grant were not found, but the claim could be positioned fairly closely from topography.

WAY claims #11 - #16 inclusive lie between claims named G-To in the name of Texas Gulf Sulphur Co. to the west and claims named Lois to the east in the name of Granby Mining Co. Claim Post #1 of G-To #21, 22 was located by the writer, and there appears to be some overstaking by WAY Claims #11 - #16. A claim survey would be necessary to determine the proper claim relationship.

The writer was unable to locate the Lois claims, and these may possibly be located further east than plotted on the Mining Recorder's Map.

LOCATION:

The property lies four miles west of Midway, British Columbia, in the Greenwood Mining Division, at a latitude of 49°02' North and longitude 118°52' West. The property is about 290 miles east of Vancouver, British Columbia.



International Boundary

WAY CLAIMS

1" = 3000'
 DEC 1971 E LINGARD



LEGEND

TERTIARY
MIOCENE(?)

11 Basalt, olivine basalt

PALEOCENE OR EOCENE

PHOENIX VOLCANIC GROUP

10 Andesite, trachyte, minor basalt, locally, interbedded tuff, shale, and/or siltstone

9 KETTLE RIVER FORMATION: rhyolite and dacite tuff; locally, conglomerate, sandstone, and shale, minor rhyolite flows and intrusive porphyritic rhyolite

PALEOCENE(?)

8 CORYELL INTRUSIONS: syenite, monzonite, shonkinite and granite

CRETACEOUS(?)

LOWER CRETACEOUS(?)

7 VALHALLA INTRUSIONS: granite, porphyritic granite

6 NELSON INTRUSIONS: granodiorite, porphyritic granite; diorite, monzonite, quartz monzonite

5 Ultrabasic intrusions, serpentinite

JURASSIC

ROSSLAND GROUP

4 Andesite, latite; agglomerate and flow breccia; minor greywacke

PERMIAN(?)

ANARCHIST GROUP

3 Greenstone, greywacke, limestone; paragneiss

PENNSYLVANIAN AND/OR PERMIAN

2 MOUNT ROBERTS FORMATION: greywacke, greenstone, limestone; paragneiss

PROTEROZOIC(?)

MONASHEE AND GRAND FORKS GROUPS

1 Paragneiss, minor crystalline limestone and pegmatite

MAP 6, 1957
KETTLE RIVER

EAST HALF
SIMILKAMEEN, KOOTENAY
AND OSOYOOS DISTRICTS

BRITISH COLUMBIA

Scale: One Inch to Four Miles = $\frac{1}{253,440}$
Miles



Handwritten signature: C. Campbell

ACCESS:

Highway 3 lies less than one mile south of the claims, and a dirt farm road crosses the property. The C.P.R. Kettle Railway lies alongside the highway. A high tension hydro-power line crosses the property.

TOPOGRAPHY:

The property covers southwest facing slopes of the Kettle River Valley, and part of a flat plateau north of the valley. The claims are traversed by Ingram Creek, which has cut a steep-sided valley down to about 150 feet below the surrounding topography. The creek valley sides give a good exposure of the rock types. Most of the claim ground is open grazing land with scattered Ponderosa Pine. Part of the claim ground toward the north consists of formerly cultivated land. The maximum relief on the property is about 800 feet.

CLIMATE:

The climate is typical of the southern interior dry belt, and the summers are warm and dry. Snow may cover the ground from late November to about early April.

HISTORY:

The Greenwood area has in the past been one of the major copper producing areas of British Columbia, and very intensive exploration has taken place over many decades.

Several pits and rock cuts have been excavated on copper mineralization located on the Granada Crown Grant. Work has been done in the area in the past by Utah Construction Ltd. on claims named Bornite. These claims subsequently lapsed, and the ground was partly re-staked by Texas Gulf sulphur Company as the G-To claims. The G-To claims lie immediately south of the WAY claims, and the WAY claims may cover some ground previously covered by some G-To claims now lapsed. The work carried out by Utah Construction on the ground to the south consisted of geophysical surveys and six diamond drill holes. Weak, scattered copper mineralization in calc-silicate skarn was reportedly intersected in the holes. The locations of the holes are not known to the writer, other than one or two possible locations on or near Texas Crown Grant 1500' South of the WAY claims noted on a geology map submitted as assessment work by Texas Gulf Sulphur Company.

Texas Gulf Sulphur Company carried out geological mapping and geochemical surveying south of the WAY claims and also covering one half of WAY claims #19 and #20. The geochemical survey outlined anomalous soil values in copper over an area of about 2000' x 600'. The anomaly lies 500 feet due south of the Granada Crown Grant. The sample lines were 800 feet apart in the anomaly area. As only one sample on one line indicates the termination of the anomaly toward the Granada Crown Grant, the evidence cannot be considered conclusive. The soil samples from what is now the WAY claims #19 and #20 did not give anomalous values in copper.

The ground to the east has been explored by Granby Mines, and copper mineralization has been diamond drilled. The results are not known to the writer.

REGIONAL GEOLOGY:

The G.S.C. geological mapping of the area shows the claim ground to be underlain largely by the Permian Anarchist group of greenstone, greywacke, limestone and paragneiss. To the northeast a small area of Cenozoic Kettle River formation consisting of volcanic rocks and sandstone, conglomerate and shale, has been mapped. These rocks are entirely surrounded by Cenozoic rocks of the Phoenix volcanic group. The mapping by Texas Gulf Sulphur company on the ground to the south and west but still within the Anarchist formation as mapped by G.S.C. shows intrusive rocks, monzonite probably of the Paleocene Coryell intrusions and diorite probably of the Lower Cretaceous Nelson intrusions. The copper mines of the Greenwood area about 8-10 miles northeast of the claims are all found in the Anarchist formation, closely associated with Nelson intrusives. The geological surroundings of the WAY claims are therefore considered to be favourable for copper deposition.

The writer's short examination of the ground indicates that the Anarchist group of rocks extends somewhat further north and west on the WAY claims than outlined on the G.S.C. map of the area.

CLAIM GEOLOGY:

The geology on the claims appears to be very complex, and as the writer spent a limited time on the property the most meaningful description of the geology will probably be to treat it as an extension of the very detailed geology mapped immediately to the south.

The area is an extremely complex mixture of Cenozoic, Mesozoic and Palaeozoic rocks consisting of andesite, biotite syenite, arkose, sandstone, hornblende monzonite porphyry, diorite, conglomerate, greywacke, siltstone, calcareous argillite, calc silicate skarn and marble listed at increasing age. The intrusive rocks occur in numerous irregular separate bodies throughout the area. The strike of the bedded rocks is mostly north westerly and the dip easterly at about 20 to 50°.

Concerning the mineralization, the following excerpt from Texas Gulf Sulphur geology report on the G-To claims laying south and west of the WAY claims will be of interest:

- "1. The detailed mapping has shown that copper mineralization is controlled by both stratigraphy and structure. The copper occurs in a suite of calc-silicate skarns, directly underlying a thick sequence of sharpstone conglomerates. This lithology is similar to that at the Phoenix Mine and there is every reason to believe it represents the same section of the Triassic stratigraphy. The strongest mineralization occurs on, or near, anticlinal fold crests, within the favourable rocks.
2. The presence of monzonite porphyry intrusions may exert some secondary control on the mineralization.
3. A strong geochemical anomaly, in copper, has been outlined in the general area of the Texas Crown Grant. The area is underlain by the favourable rocks and scattered subeconomic mineralization is exposed at surface."

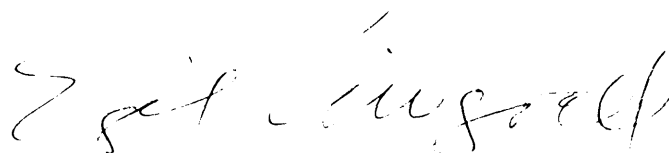
On checking the geology map it can be seen that well over half of the copper soil anomaly covers intrusive rocks of the hornblende monzonite porphyry, and this rock type the writer found to be extensively mineralized by disseminated pyrite both on the G-To claims and on the adjoining part of the WAY claims. The writer feels that the intrusive rocks may well act as host rock for porphyry type copper mineralization, and should be explored with this in view in addition to exploration for skarn type mineralization in the calcareous members of the Anarchist group.

On the Granada Crown Grant and the WAY claims the writer noted heavily fractured conglomerate and silicified (?) siltstone exposed on the east slope of the Ingram Creek valley. In the creek bottom were noted heavily oxidized rocks probably belonging to the Anarchist group. These rocks show occasional malachite copper staining on fracture surfaces. To the west down Ingram Creek on WAY #19 and #20 claims a considerable area (1000' x 1500' ?) consists of heavily altered monzonite with disseminated pyrite. The rock has been strongly fractured and fracture surfaces covered with iron oxide so that on breaking it becomes difficult to obtain a fresh break surface. Further east and north up Ingram Creek Tertiary andesite, syenite and basalt are found in scree slopes. The "flat lands" west of Ingram Creek are largely grass covered and little rock is exposed. The east side of the creek had considerable outcrop of conglomerate and diorite. On the south facing slopes on the Granada Crown Grant isolated outcrops of rocks of the Anarchist group show chalcopyrite in skarn together with malachite staining. The exposed mineralization may run up to 1% copper over 2 or 3 feet and is not of economic size or grade.

CONCLUSIONS:

The WAY claims, together with the Granada Crown Grant, being located largely on favourable Anarchist group rocks, intrusive monzonite and diorite rocks and their contact zones, do in the writer's opinion warrant an exploration program with two objectives: one: to extend and locate calcareous beds in the Anarchist group which have been contact metamorphosed and impregnated with chalcopyrite mineralization, two: to locate intrusive rocks which may carry porphyry type copper mineralization.

Respectfully submitted.

A handwritten signature in cursive script, appearing to read "Egil Livgard".

Egil Livgard, B.Sc., P. Eng.

REFERENCES:

G.S.C. Map 6-1957 Kettle River East Half.

Unpublished: Geological and Geochemical Report
on
The G-To Claims and Surrounding Area
by

J. M. Newell, P. Eng.
Texas Gulf Sulphur Co.
October 8th, 1969.

Submitted as assessment work -
on file at Mineralogical Branch, Department of Mines,
Parliament Buildings, Victoria, B.C.

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CERTIFICATE

I, EGIL LIVGARD, with business and residential addresses in Vancouver, British Columbia, do hereby certify that:

1. I am a consulting geological engineer.
2. I am a graduate of the University of British Columbia, B.Sc., 1960, Geological Sciences.
3. I am a Member of the Association of Professional Engineers of the Province of British Columbia.
4. From 1960 to 1970 I was engaged in mining and exploration geology in Canada and Norway.
5. I have not received, nor do I expect to receive any interest, directly or indirectly, in the properties described herein, or in the properties or securities of any company to which these properties may be sold.

DATED at Vancouver, British Columbia, this 3rd day of December, 1971.



Egil Livgard, B.Sc., P.Eng.
Vancouver, B.C.