

W.A. NO.

NAME *Prospectus*

SUBJECT

82FNW169 Club
~~Manding~~ Erin, ROSS

002443

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PROPERTY FILE

ERIN ROSS 82F/14W 82F NW/169
REPUBLIC 82F/14W 002F NW/168
BELL
SUNLIGHT FR
AMERICAN EAGLE 82F/14W

TANDEM RESOURCES LTD.

B

534 - 789 West Pender Street, Vancouver 1, B.C.

RECEIVED
JUN 19 1972
BRITISH COLUMBIA
SECURITIES COMMISSION

PROSPECTUS

June 9th, 1972.

PROPERTY FILE

New Issue
250,000
Common Shares

	Price to Public	Commission	Proceeds to Issuer
Per Unit	35¢	8-3/4¢	26-1/4¢
Total	\$87,500.00	\$21,875.00	\$65,625.00

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.

*Full on
Lumley
A*

I N D E X

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NAME AND INCORPORATION OF ISSUER

The full name of the Company is TANDEM RESOURCES LTD. Its registered and head office is 534 - 789 West Pender Street, Vancouver 1, British Columbia.

The Company was incorporated on February 9th, 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 June 8th, 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 8.75¢ 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 8.75¢ 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>
DENNIS MARCEL ANDRE VIGOURET 5316 Fleming Street Vancouver, B.C.	Securities Salesman	President & Director
ROSS TIKINOFF 5151 Clarendon Vancouver 16, B.C.	Steel Fabricator until May, 1971; Director of Denu Mines & Development from May, 1971 to November, 1971; Steel Fabricator with Canadian Kenworth since then.	Secretary-Treasurer & Director

CAPITALIZATION

<u>Designation of Security</u>	<u>Amount authorized by Memorandum of Association</u>	<u>Amount outstanding as at April 21, 1972 (date of Balance Sheet contained in Prospectus).</u>
Common Shares No Par Value	3,000,000	1,050,005

Amount outstanding as at
the date of this Prospectus

1,050,005

Amount to be outstanding if all
securities being issued are sold

1,300,005

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
300,000	10¢	\$30,000.00	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 \$65,625.00.

The proceeds of the sale of securities will be used to conduct the exploration program recommended by Thomas R. Tough, P.Eng., in his report on the Republic Property dated February 28th, 1972, a copy of which is attached hereto and forms part of this Prospectus.

The breakdown of the expenditures is as follows:

Linecutting (20 line/miles A \$150/line mile)	\$ 3,000.00
Geological Mapping (Surface)	2,000.00
Underground rehabilitation (timbering of caved portals, washing of walls, etc.)	<u>10,000.00</u>
	\$15,000.00....

Brought Forward	\$15,000.00
Dewatering of Republic Incline Shaft	2,000.00
Underground Mapping and Surveying	5,000.00
Surface and Underground Sampling and Assaying	7,000.00
Drifting and Slashing (150 feet @ \$75/foot)	11,250.00
Trenching and Road Building (D6 Bulldozer 30 days @ \$120./day)	3,600.00
Vehicle Rentals (2-4 x 4 pickup trucks \$600/month for 4 months)	2,400.00
Camp and Maintenance (5 months - 5 men)	5,000.00
Contingencies	<u>5,000.00</u>
	<u>\$56,250.00</u>

The balance of the \$9,375.00 of the proceeds will be used to pay off current liabilities and for business and administrative expenses and legal and accounting services with respect to the Company's operations and preparation of this Prospectus. In the event not all of the shares offered hereunder are sold, priority will be given to the work 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 for 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 be obtained and 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.

REPUBLIC PROPERTY

The Company is the recorded owner subject to the British Columbia Mineral Act of the following located mineral claims and Crown granted mineral claims situate in the Slocan Mining Division of the Province of British Columbia, and more particularly known and described as follows:

<u>Name of Claim</u>	<u>Record No.</u>
Ross 1 - 14	16699 - 16712

<u>Name of Claim</u>	<u>Lot Number</u>
Republic # 2	5498
Bell# 2	5500
American Eagle	5499
Sunlight Fraction	5319
Erin	1530
Erin Fraction	5236

The Company entered into the Agreement with Dennis Vigouret and Ross Tikinoff dated March 8th, 1972 for the purchase of the Ross 1 - 14 mineral claims and the consideration received by the Vendors for the claims was as follows:

Dennis Vigouret
5316 Fleming Street
Vancouver 15, B.C. - 375,000 shares

Ross Tikinoff
5151 Clarendon Street
Vancouver 16, B.C. - 375,000 shares

The Company entered into the Agreement with Dennis Vigouret and Ross Tikinoff dated March 8th, 1972 for the purchase of the above Crown granted mineral claims for the

consideration of \$30,000.00.

Both of the Vendors are Insiders of the Company and purchased the Crown granted claim for \$15,000.00 and subsequently expended \$6,500.00 on the property on road construction and trenching. The located mineral claims were acquired by the Vendors by staking for an approximate cost of \$1,000.00.

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 Vendors for the claims.

The property is located approximately three miles northeasterly of Slocan City, southeastern British Columbia. The general Slocan area is accessible from Vancouver by road and air some 500 miles east.

A gravelled road, some three miles long, leads east and north from Slocan City and passes through the crown granted claims just west of the headwaters of Climax Creek, a tributary of Springer Creek.

The claims were first staked in 1895 and worked intermittently over the years, generally by lessees. Recorded production from 1902 to 1952 inclusive was 242 tons which yielded 13,299 ounces of silver, 107 ounces of gold, 268 pounds of lead and 171 pounds of zinc. There are no records of any further shipments made.

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 metals on the property are silver, gold, lead and zinc.

For further details see the report of Thomas R. Tough, P.Eng., dated February 28th, 1972, 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

PROMOTERS

Dennis Marcel Andre Vigouret and Ross Tikinoff, acting in their capacity as Directors, may be deemed to be 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 Promoters in 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 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, B.C.

<u>Designation of Class</u>	<u>Number of Shares Held in Escrow</u>	<u>Percentage of Class</u>
Common Shares	750,000	71.43%

300,005 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>
DENNIS M.A. VIGOURET 5316 Fleming Street Vancouver, B.C.	Common	Of record and Beneficial	450,001	42.86%
ROSS TIKINOFF 5151 Clarendon Vancouver 16, B.C.	Common	Of record and Beneficial	450,001	42.86%

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	85.71%

Based on 1,300,005 shares to be outstanding if the shares offered by this Prospectus are sold, 69.23% of the shares have been issued to Directors and Promoters for property and cash and 19.23% 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 and cash paid by the Company to Promoters 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	\$1,847.00
Administration	\$ Nil
Incorporation	\$1,723.00
TOTAL.....	<u>\$3,570.00</u>

AUDITORS, TRANSFER AGENTS AND REGISTRARS

The auditors of the Company are Messrs. Coffin, Waymark & Co., Chartered Accountants, 845 Hornby 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.

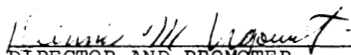
OTHER MATERIAL FACTS

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 9th day of June, A.D. 1972.



DIRECTOR AND PROMOTER



DIRECTOR AND PROMOTER

AUDITORS' REPORT

To The Directors of
Tandem Resources Ltd.

We have examined the balance sheet of Tandem Resources Ltd., as at April 21, 1972 and the statement of source and application of funds for the ten week period 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 circumstances.

In our opinion these financial statements present fairly the financial position of the company as at April 21, 1972 and the source and application of funds for the period then ended; in accordance with generally accepted accounting principles.

VANCOUVER, B.C.
APRIL 21, 1972

Coffin Waymark & Co.
(Signed)
CHARTERED ACCOUNTANTS

TANDEM RESOURCES LTD.

BALANCE SHEET

AS AT APRIL 21, 1972

(INCORPORATED FEBRUARY 9, 1972 UNDER THE LAWS OF BRITISH COLUMBIA)

ASSETS

Fixed Assets, at cost, (Note 3)

Crown granted mineral claims and rights	\$ 30,000	
Other mineral claims and rights	<u>7,500</u>	\$ 37,500
Preproduction expenses		1,847
Incorporation expenses, at cost		<u>1,723</u>
		\$ 41,070
		=====

LIABILITIES

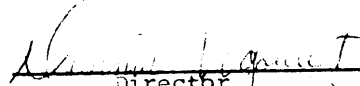
Due to shareholders \$ 3,565

SHAREHOLDERS' EQUITY

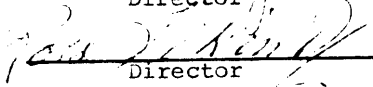
Share Capital

Authorized:	3,000,000 common shares of no par value		
Issued:	750,000 common shares issued in exchange for mineral claims \$ 7,500		
	300,005 common shares issued for cash	<u>30,005</u>	<u>37,505</u>
			\$ 41,070
			=====

Signed on behalf of the Board:



Director



Director

TANDEM RESOURCES LTD.

STATEMENT OF SOURCE AND APPLICATION OF FUNDS

FOR THE TEN WEEK PERIOD COMMENCING DATE OF INCORPORATION

AND ENDING APRIL 21, 1972

Source of Funds

Loans from shareholders		\$ 3,565
Share capital issued	\$ 37,500	
Less: Value of mining claims received in exchange of shares issued	<u>7,500</u>	<u>30,005</u>
		33,570

Application of Funds

Purchase of mineral claims	\$ 30,000	
Incorporation costs	1,723	
Preproduction costs	<u>1,847</u>	<u>33,570</u>

Working Capital

NIL
=====

TANDEM RESOURCES LTD.

NOTES TO THE BALANCE SHEET AS

AT APRIL 21, 1972

1. Common shares were issued for cash in the fiscal period as follows:

5 shares, issued price	\$1.00	\$ 5
300,000 shares, issued price	\$.10	<u>30,000</u>
Total		<u>\$30,005</u> =====

2. The Board of Directors entered into an agreement dated March 8, 1972 with Messrs. D. Vigouret and R. Tikinoff for the purchase of Ross 1-14 mineral claims and pursuant to the agreement there was allotted a total of 750,000 fully paid, non assessable shares of the company at a deemed price of (1¢) one cent per share as follows:

Dennis Vigouret	375,000 shares
Ross Tikinoff	375,000 shares

3. The Ross 1-14 mineral claims described in the accompanying schedule have not been surveyed in accordance with the Mineral Act of the Province of British Columbia, therefore their existence and area could be in doubt.

TANDEM RESOURCES LTD.

SCHEDULE OF PREPRODUCTION EXPENSES

AS AT APRIL 21, 1972

Legal and filing costs	\$ 800.00
Mining licence	200.00
Accounting and audit fees	375.00
Engineering report	<u>472.00</u>
Total preproduction expenses	<u>\$1,847.00</u> =====

SCHEDULE OF MINERAL CLAIMS HELD

AT APRIL 21, 1972

Crown granted mineral claims, Slocan Mining Division

Name of Claim	Lot Number
Republic # 2	5498
Bell # 2	5500
American Eagle	5499
Sunlight Fraction	5319
Erin	1530
Erin Fraction	5236

Other Mineral Claims

Ross 1-14; Record numbers 16699 - 16712
expiry date February 1, 1973

Situated in the Nelson land registration
District and Slocan Mining Division of the
Province of British Columbia.

GEOLOGICAL REPORT

on the

REPUBLIC PROPERTY

of

TANDEM RESOURCES LTD

SLOCAN MINING DIVISION

February 28, 1972
Vancouver, B. C.

Thomas R. Tough, P. Eng.,
Consulting Geologist

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<u>Map Name</u>	<u>Scale</u>
LOCATION MAP	1" = 136 miles
CLAIM MAP	1" = 300' in pocket

SUMMARY

The Republic group of claims, owned by Tandem Resources Ltd, consists of six crown granted and 14 located mineral claims located approximately three miles by gravelled road northeasterly from Slocan City in the Nelson Mining Division in southeastern British Columbia.

The topography is steep but not precipitous with elevations on the property ranging from 3500 to 4500 feet. There is sufficient water for all phases of exploration. Finished timber is available from local sawmills and hydro-electric power would be available if future requirements warrant. Diesel electric power will be necessary for initial phases.

Year-round logging and mining operations are carried on in the general area which experiences moderate winters with a fairly heavy snowfall at high elevations. Summers are pleasant with moderate rainfall.

Railroad facilities and a good network of highways will provide a means for receiving supplies from local or distant supply centres in British Columbia, Alberta or Washington, U. S. A.

It is approximately 50 miles by road or rail to the smelter at Trail, B.C.

Previous recorded production from the property between 1902 and 1952 was 242 tons which yielded 13,299 oz of silver, 107 oz. of gold, 268 pounds of lead, and 171 pounds of zinc. The production came from the Republic vein which averages about two feet wide and carries pyrite, argentite, native silver

and gold, and little galena and sphalerite as is typical of the Slocan "dry ores". The veins cut a coarse grained grey porphyritic granite of the Nelson batholith. Wallrock alteration products are quartz, sericite, chlorite, carbonate, pyrite, k-feldspar and hematite.

Veins in the Slocan camp exhibit both vertical and lateral zoning mineralogically.

Ore shoots within the Republic group are erratically distributed and are elongated down the dip. The ore shoots have been partially developed by inclined shafts and drifts and development muck shipped to the Trail smelter.

CONCLUSIONS

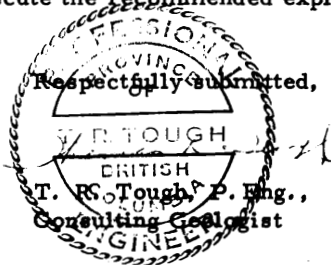
Since the deposits on the Republic property have not been recently assessed in the light of new technology and metal prices, it therefore warrants an exploration program to fully assess the potential of the property.

The recent development of the Silmonac Mine and the proposed re-working of the nearby Ottawa Silver Mine, further justifies a detailed exploration programme.

RECOMMENDATIONS

It is recommended that programmes of surface and underground geological mapping and sampling, underground rehabilitation, trenching and road building, limited drifting or slashing to help sample and delineate existing ore shoots be carried out.

It is further recommended that Tandem Resources Ltd allocate the sum of \$56,250.00 to implement and execute the recommended exploration and development programmes.



February 28, 1972
Vancouver, B. C.

INTRODUCTION

The information for the following report is based upon a personal examination of the crown granted claims, included in the property described herein, in June 1968, from B. C. Minister of Mines Annual Reports, from a recently completed Master's Thesis by John F. W. Orr dated May 1971 and entitled "Mineralogy and Computer-Orientated Study of Mineral Deposits in Slocan City Camp, Nelson Mining Division, British Columbia, and from G. S. C. Memoir 308, 184.

PROPERTY

The property consists of six crown granted claims and 14 located mineral claims. They are as follows:

<u>Crown Grant</u>	<u>Lot Number</u>	<u>Expiry Date</u>
Sunlight Fraction	L5319	July 2, 1972
Erin	L1530	July 2, 1972
Erin Fraction	L5236	July 2, 1972
Republic No. 2	L5498	July 2, 1972
Bell No. 2	L5500	July 2, 1972
American Eagle	L5499	July 2, 1972

<u>Claim Name</u>	<u>Record No.</u>	<u>Expiry Date</u>
Ross # 1 - 14 incl.	16699-16712 incl.	February 1, 1973

OWNERSHIP

The claims are owned outright by Tandem Resources Ltd.

LOCATION (49° - 117° NE)

The property is located approximately three miles northeasterly of Slocan City, southeastern British Columbia in the Nelson Mining Division. The general Slocan area is accessible from Vancouver by road and air some 500 miles east.

ACCESS

A gravelled road, some three miles long, leads east and north from Slocan City and passes through the crown granted claims just west of the headwaters of Climax Creek, a tributary of Springer Creek.

TOPOGRAPHY

The topography is steep but not precipitous with elevations on the property ranging between 3500 and 4500 feet.

WATER, TIMBER AND POWER

Sufficient water is available for all phases of exploration and development. Lumber is available from sawmills in the area and the claims have good stands of timber on them. Hydroelectric power is available from the Slocan City area but diesel electric power will be necessary for initial phases.

TRANSPORTATION AND CLIMATE

The Canadian Pacific Railway supplies rail services from Slocan City. Paved highways provide excellent trucking routes to several major centres. Both rail and highway provide means of transporting ore or concentrates to the smelter at Trail, B. C. a distance of 50 miles from Slocan City.

Because of the influence of Slocan Lake the immediate area does not experience extreme winter temperatures. Heavy snow is common at high elevations and the winter months are long. Summer temperatures are warm with moderate precipitation.

SUPPLIES

Most supplies should be available in Nelson, Trail or Castlegar. Good daily express services to these communities will enable locally unobtainable goods to be brought in from Vancouver or other large supply centres.

HISTORY

The claims were first staked in 1895 and worked intermittently over the years, generally by lessees.

Recorded production from 1902 to 1952 inclusive was 242 tons which yielded 13,299 ounces of silver, 107 ounces of gold, 268 pounds of lead and 171 pounds of zinc.

There are no records of any further shipments made.

GENERAL GEOLOGY

A detailed description of the geology of the Nelson Batholith has been published in Memoir 308 of the Geological Survey of Canada by H. W. Little (1960). Essentially, the Nelson Batholith is comprised of a porphyritic granite with a lesser predominance of quartz diorite, quartz monzonite, diorite, monzonite, and syenite. The porphyritic granite is coarse-grained, grey, and has phenocrysts of pink to white alkali feldspar which average approximately two inches in length. The batholith has been determined to be of Cretaceous age.

Numerous acidic, basic and lamprophyre dykes cut the Nelson batholith. The latter type appear to be structurally or genetically related to some of the mineral deposits in the Slocan area (Cairnes, 1948, p. 203).

TYPES OF LODE DEPOSITS

The following list describes, mineralogically, the various types of deposits common within the Nelson batholith.

1. Lead-silver, with or without some zinc and minor gold.
2. Silver-lead-zinc, with or without minor gold and cadmium.

3. Silver-gold, with or without some lead and minor zinc.
4. Gold-silver, with or without some lead and zinc.
5. Copper-silver-gold
6. Gold-copper-silver
7. Zinc-lead-silver.

In the immediate area of Slocan the predominant type of deposit is Silver-gold, with or without some lead and minor zinc. They occur as cross-cutting quartz sulphide fissure fillings with little wallrock alteration and limited replacement. Wallrock alteration consists of silicification, sericitization, chloritization, carbonatization, pyritization and feldspathization.

In the northern portion of the Slocan camp the deposits are classed as "wet ores", containing massive galena and sphalerite in a gangue of quartz and siderite. In the area around Slocan City and Springer Creek the deposits are classed as "dry ores"; the veins contain abundant quartz gangue with a low sulphide content of pyrite, galena, sphalerite, tetrahedrite, chalcopyrite, native gold, argentite, native silver, ruby silver, stephanite and others. "Dry ores", have produced relatively small tonnages of high grade ore, (up to 20,000 tons) whereas "wet ores" produce in the 10,000 to 100,000 tons range.

The Slocan City area has a definite mineralogical zoning both vertically and laterally. (J. F. W. Orr, Master's Thesis, U. B. C. 1971).

The attitudes of the many veins occurring in the Slocan City area suggests a sub-radial pattern emanating from just north of Slocan City near the Republic property. The strikes of the veins vary between 020° and 100° with varying dips to the northwest, northeast and southwest.

LOCAL GEOLOGY

The Republic property is underlain by coarse-grained porphyritic Nelson granite which is locally strongly sheared and intruded by felsic and mafic dykes.

MINERALIZATION

There are several veins occurring on the property but only two have received concentrated development over the years. The Republic vein has been developed by an inclined shaft, collared at an elevation of 4,375 feet. The incline has been sunk to a depth of some 60 feet on the vein which is approximately 2 to 3 feet wide. The vein strikes 085° and dips 30° to the north and is offset slightly by step-faults striking 025° to 045° with dips from 65° to 85° NW. Short irregular drifts and slopes have been driven from the incline.

Another shaft, some 800 feet west of the above shaft, has been sunk on what appears to be the extension of the Republic vein. The vein is 2 feet wide, strikes 050° and dips 35° NW. The shaft is presently full of water. Further west 2 levels have been driven to crosscut the vein but neither one did before the work was stopped.

The Bell # 2 adit, west of the Republic adits, follows a discontinuous vein which strikes 020° and dips 45° SE. Beyond 60 feet from the portal the vein is complexly faulted.

The veins in the eastern portion of the property generally strike east and dip gently north whereas the west veins strike northeasterly with a flat dip to the northwest.

Ore shoots within the veins are erratically distributed and are elongated down the dip. The quartz veins contain pyrite, argentite, native silver, native gold and little galena and sphalerite.

The crown granted mineral claims have numerous showings and surface workings and a few claims which were previously worked on and surveyed are now covered by some of the Ross claims. The Slocan Bob claim is covered by Ross # 9 and Ross # 11 claims. The Club claim, which has two veins reported to be at right angles to one another, may be covered by Ross # 10 and Ross # 12 claims. The veins are reported to be 3 feet wide and 6 to 8 feet wide.

EXPLORATION AND DEVELOPMENT PROGRAMMES

Detailed geological mapping will be required to locate all outcrops, veins, trenches, shafts and adits with extreme care given to elevation control to enable projections of veins to be made as well as aiding in locating possible faults.

The underground workings will have to be rehabilitated and the walls washed down to facilitate geological mapping, surveying and sampling.

Trenching and road building will be required to clean out old trenches and any newly-discovered showings. AD-6 bulldozer should suffice for such work. All such trenches will have to be thoroughly sampled and mapped.

An allowance should be made for approximately 150 feet of drifting which may be required to facilitate the delineation of existing ore shoots and bulk sampling.

ESTIMATE OF COSTS OF EXPLORATION AND DEVELOPMENT PROGRAMMES

Linecutting (20 line miles @ \$150/line mile)	\$ 3,000.00
Geological Mapping (Surface)	2,000.00
Underground rehabilitation (timbering of caved portals, washing of walls, etc.)	10,000.00
Dewatering of Republic Incline Shaft	2,000.00
Underground Mapping and Surveying	5,000.00
Surface and Underground Sampling and Assaying	7,000.00
Drifting and Slashing (150 feet @ \$75/foot)	11,250.00
Trenching and Road Building (D6 Bulldozer 30 days @ \$120.00/day)	3,600.00
Vehicle Rentals (2-4 x 4 pickup trucks \$600/month for 4 months)	2,400.00
Camp and Maintenance (5 months - 5 men)	5,000.00
Contingencies	5,000.00
	<u>\$56,250.00</u>

It is estimated that the above programmes should take approximately five months to complete.



February 28, 1972
Vancouver, B.C.

CERTIFICATE

I, Thomas R. Tough, of the City of Vancouver, in the Province of British Columbia, do hereby certify:

That I am a Consulting Geologist and the principal of T. R. Tough & Associates Ltd., with offices at 519-602 West Hastings Street, Vancouver 2, B. C.

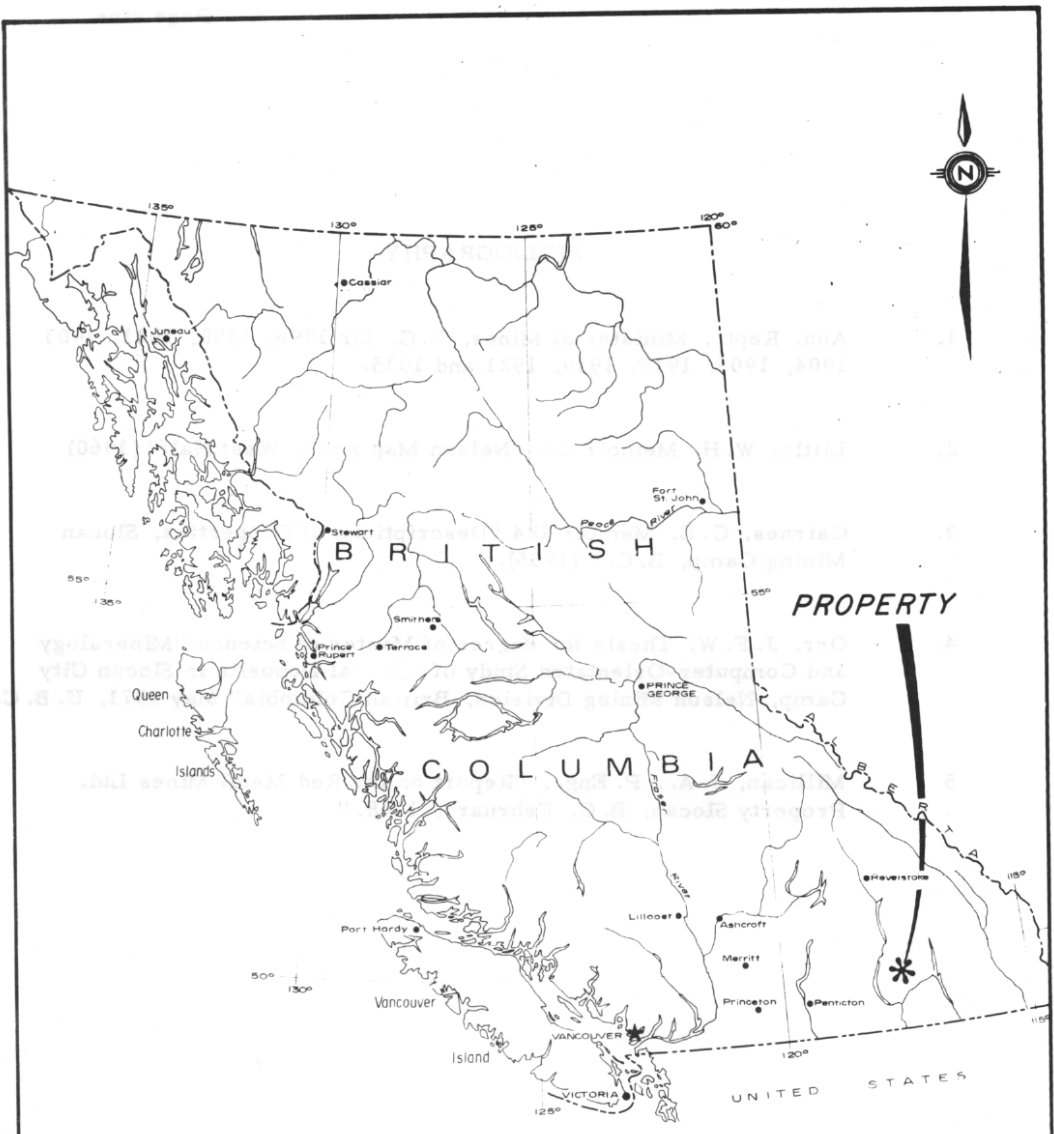
I further certify that:

1. I am a graduate of the University of British Columbia (1965) and hold a B. Sc. degree in geology.
2. I have been practising in my profession for the past seven years.
3. I am registered with the Association of Professional Engineers of British Columbia.
4. This report is based on information obtained by the writer during an examination of the Republic No. 2, the American Eagle, the Bell No. 2 crown granted claims in June, 1968. Surface and accessible underground workings were examined. A thorough study was made of all available pertinent published information as a recent examination of the property was rendered useless due to heavy snow coverage.
5. I have no direct interest or indirect interest whatsoever in the property described herein, nor in the securities of Tandem Resources Ltd., and do not expect to receive any interest therein.



Thomas R. Tough, P. Eng.,
Consulting Geologist

February 28, 1972
Vancouver, B. C.



SCALE: 1" = 136 MI.

T. R. TOUGH & ASSOCIATES LTD.		
TANDEM RESOURCES LTD.		
LOCATION MAP		
SLOCAN BC.		
DRAWN: ALTAIR	CHECKED:	DATE: FEB. 1972

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