

2407

A Geological & Geochemical Report
on the Sinkler & RUF Mineral Claims
Located at Klaskino Inlet
In the Nanaimo Mining Division, B. C.
Longitude 127°W, Latitude 50°N
For Belvedere Mines Ltd. (N.P.L.)
by MacDonald Consultants Ltd.
E. D. Dodson, P. Eng.
April 24, 1970 982/55-1

MACDONALD CONSULTANTS LTD.

SUITE 12 - 425 HOWE STREET, VANCOUVER 1, B.C.

Geological & Geochemical Report

on the

Sinker 1 - 6 & RUF

Mineral Claims

at Klaskino Inlet, B. C. (127° W, 50° N)

for the Period April 1 to 21, 1970

for

Belvedere Mines Ltd. (N.P.L.)

by

MacDonald Consultants Ltd.

E. D. Dodson, P. Eng.

May 27, 1970

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MAPS

#1 Geology Map	Rear Pocket
#2 Claim Map	" "
#3 Geochemical Copper Plot	" "
#4 Ruf - Sinker Claims 1" = 2000'	Rear

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **2407** MAP

INTRODUCTION

Fieldwork, in the form of geochemical and geological surveys, was carried out on the Sinker & RUF Mineral Claims during the period April 1 to April 21, 1970. This work was done by J. P. Henry, C. V. Dyson (P. Geol. Alta) and 4 crewmen under the supervision of E. D. Dodson, P. Eng. of MacDonald Consultants Ltd., Vancouver, B. C. for Belvedere Mines Ltd. (N.P.L.).

PROPERTY

The property consists of a total of 48 mineral claims in the Nanaimo Mining Division, B. C.

<u>Claim</u>	<u>Record No.</u>	<u>Record Date</u>
Sinker 1 - 6	18582 - 18587	May 2, 1967
RUF 1 - 12	28926 - 28937	June 24, 1969
RUF 23 - 32	28938 - 28947	June 24, 1969
RUF 39 - 50	28948 - 28959	June 24, 1969
RUF 59 - 62	28960 - 28963	June 24, 1969
RUF 63 - 66	28964 - 28967	June 24, 1969

A chain and compass survey of most of the claim group has shown that the RUF 8, 10, 24 and 25 claims are in contravention to Article 12 (1) c of the British Columbia Mineral Act and are completely overlain by the Sinker 1 - 6 claims. These RUF claims will be allowed to lapse to correct the situation.

LOCATION AND ACCESS

The claims groups are located near the head of Klaskino Inlet at a

longitude and latitude of approximately 127° W, 50° N. and lie approximately 35 miles southwest of Port Hardy on Vancouver Island. The property is accessible by boat from Coal Harbour, or by float plane from Port Hardy.

HISTORY

Mineral claims were reported staked on Klaskino Inlet as early as 1903. In 1915 Klaskino Copper Company held 41 claims on the Inlet.

In 1966 two groups, the Sinker and Swivel claims, were staked by Messrs. Flesher and Wilson on the Inlet. To date only the Sinker 1 - 6 claims remain in good standing.

A geochemical and geophysical assessment report was filed on the Sinker 1 - 6 claims in 1967.

The RUF claims were staked in June, 1969 by MacDonald Consultants Ltd., on behalf of Belvedere Mines Ltd. (N.P.L.). The Sinker 1 - 6 claims were acquired by Belvedere Mines through a transfer agreement.

GENERAL AND ECONOMIC GEOLOGY

The area is underlain mainly by Upper Triassic and Lower Jurassic volcanic rocks and clastic sediments of the Bonanza formation. Regional faulting occurs in two major directions, namely northerly and northeasterly.

The very general area has long been known to contain deposits of copper, lead, zinc and silver. Currently Utah Construction and Mining Company is working a major low-grade copper deposit. Its host rocks are andesitic volcanics of the Triassic-Jurassic Bonanza formation and appear to be a copper stockwork. The deposit is thought spatially related to a granodiorite porphyry intrusion. (Muller 1967)

GEOLOGY OF THE RUF AND SINKER CLAIM GROUPS

The claim group appears to be underlain mainly by andesitic rocks and sediments of the Triassic-Jurassic Bonanza Sub-group.

To the east of the claim group quartz diorite float of the coast intrusion type was observed.

Shearing and faults in the Bonanza rocks occur trending in northeasterly directions.

A large gossan zone was observed in the area of RUF #41 claim in the andesitic volcanics. Mineralization observed included abundant pyrite, some pyrrhotite and some finely disseminated chalcopyrite. This is probably the zone referred to in the British Columbia Ministry of Mines Annual Report for 1903, which mentions a large pyrite body with copper on Klaskino Inlet.

PHYSIOGRAPHY AND VEGETATION

The claim area is somewhat rugged, with northeasterly trending narrow, steep canyons, ridges and occasional rock bluffs.

Elevations on the property area range from 0 to 1,500 feet.

The vegetable cover is extremely heavy, with some of the area supporting dense stands of commercial timber. Beneath this forest is an understory of salal and other shrubs. A layer of rotting vegetation, including wind-fall timber in all stages of decay rests on the soil.

Part of the claim area has been logged off.

LINE CUTTING

A line grid was established with a well marked baseline using horizontal chaining. The cross lines were spaced 400 feet apart with stations for

soil sample sites flagged with survey ribbon and numbered every 200 feet. The cross lines were established using compass and horizontal chaining. Generally the lines were ribboned rather than blazed to avoid damage to prospective commercial timber.

Altogether a total of 23.0 line miles were blazed and flagged with stations established including 3.0 miles of colluvium and ridge top traverses.

GEOCHEMICAL SURVEY

The geochemical survey consisted of soil sampling at 200 foot intervals along all cross lines and along the base line of the grid where possible. In addition, samples were taken at approximately 200 foot intervals along selected ridge and base of slope traverses. The samples were taken from the "B" horizon using mattocks. They were packed in high, wet-strength, numbered, paper, sample bags provided by the assay laboratory.

The samples were taken to Bondar-Clegg & Co. Ltd., 1500 Pemberton Avenue, North Vancouver, B. C. to be assayed for copper.

The samples were screened in the lab; the -80 mesh fraction was assayed. The samples were digested using hot aqua-regia. Analysis was by atomic absorption.

A total of 624 samples were assayed. Assay results are shown on the geochemical map included in the pocket at the back of this report.

RESULTS

Indications of anomalous trends were found on the property, mainly along and near the northeasterly trending faults.

Background values for copper average about 100 ppm. Anomalous values range from 200 - 780 ppm. The writer is somewhat hesitant to suggest a

definite origin for all these anomalies. It is possible the values are derived from the underlying rocks. It is also possible that they represent transported material derived from mineralization, possibly existing to the northeast. The anomalous trends in the bluff area are on the colluvium traverses and they can be correlated with the mineralization known to exist in the sediments in this area.

Respectfully submitted,

MACDONALD CONSULTANTS LTD.

A handwritten signature in cursive script, appearing to read "E. D. Dodson", with a long horizontal flourish extending to the right.

E. D. Dodson, P. Eng.

EDD/st

MACDONALD CONSULTANTS LTD.

SUITE 12 - 425 HOWE STREET, VANCOUVER 1, B. C.

April 30, 1970
 Job No. 243 (Klaskino)
 Invoice No. 1017

Belvedere Mines Ltd.
 629 - 789 West Pender Street
 Vancouver 1, B. C.

PROFESSIONAL SERVICES FOR MARCH, 1970

Re: Trip to Island, Setting Up Camp, Mag Survey & Soil Sampling, Etc.

E. A. Burnett	1 day @ \$55.00/day	\$ 55.00
J. P. Henry	1/4 day @ \$80.00/day	20.00

April

N. S. Basok	20 days @ \$50.00/day		1,000.00	1,000.00
W. J. Buckley	21 days @ \$50.00/day	20 days applicatio	1,050.00	= 1,000.00
E. A. Burnett	21 1/2 days @ \$55.00/day	21 days applicatio	1,182.50	= 1,155.00
C. V. Dyson	9 7/8 days @ \$90.00/day	7 days applicatio	888.75	= 630.00
J. P. Henry	24 1/8 days @ \$80.00/day	22 1/2 days applicatio	1,930.00	= 1,800.00
V. J. Matiation	1/2 day @ \$45.00/day		22.50	
K. R. Ralfs	21 7/8 days @ \$55.00/day	20 days applicatio	1,421.88	= 1,000.00
G. H. Seale	1/4 day @ \$50.00/day		12.50	
			<u>7,583.13</u>	<u>6585.00</u>

EXPENSES:

E. A. Burnett, Expenses	\$ (3.75)	= 3.75
C. V. Dyson, Expenses	(15.45)	= 15.45
E. A. Burnett, Expenses	(140.41)	= 140.41
Minister of Finance	402.00	
W. J. Buckley, Expenses	6.45	
E. A. Burnett, Expenses	6.21	
Air West Airlines Ltd.	(354.72)	= 354.72
B. C. Telephone Co.	4.70	
Canawail Land Corporation Ltd.	.45	
Dong Chong Co. Ltd.	(365.06)	= 365.06
Pacific Western Airlines	226.24	
Surfwood Supply Ltd.	24.88	
VanCal Reproductions Ltd.	(8.23)	= 8.23
Distribution of Head Office	481.50	
2 Airtight Heaters (left on job)		
@ \$12.75 = \$25.50 (1/3 your share)	8.50	
		887.62

cont'd. . .

April 30, 1970
Job No. 243
Invoice No. 1017

EXPENSES: (cont'd)

887.62

2 Axes Broken on Job @ \$3.50	\$ 7.00
4 only Marks-a-Lot Felt Pens @ \$1.13	4.52
26 only Rolls Flagging @ 79¢	20.54
3 Pads Sample Sheets @ \$1.50/each	4.50
1 only Field Book	1.50
Magnetometer Rental - 5 days @ \$10/day	50.00
1 Canova Rubber Boat & Evinrude Motor - 18 days @ \$5/day	90.00
Truck Rental - 21 days @ \$15/day	315.00
- Mileage - 750 miles @ 12¢/mile	90.00
Equipment Rental	73.61

90.00 ^{90.00}
 315.00
 90.00
73.61 73.61 2,705.22 = 1051.73

\$10,288.35

Professional Services 6585.00

April total 7636.23

MACDONALD CONSULTANTS LTD.
SUITE 12 - 425 HOWE STREET, VANCOUVER 1, B. C.

April 30, 1970
Job No. 243

Belvedere Mines Ltd.
629 - 789 West Pender Street
Vancouver 1, B. C.

EXPENSES:

Bondar-Clegg & Co. Ltd.

\$750.00

April
Total Expenditures

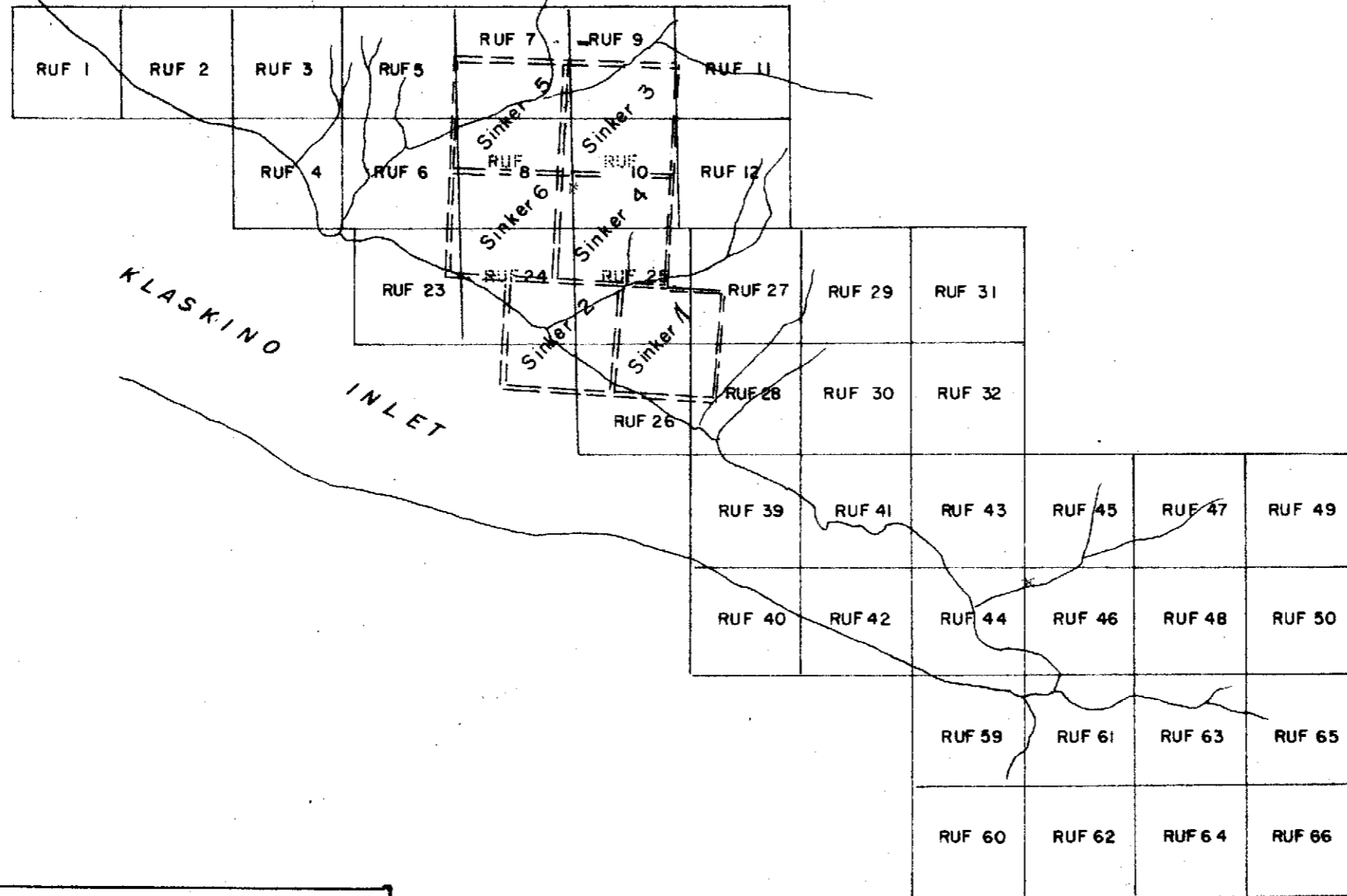
7636.23
\$ 8386.23

CLIENT BELVEDERE MINES

PROJECT 261

PERIOD APRIL 1970

Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Days	Daily Rate	Amount
P. HENRY																																22 1/2	80 ⁰⁰	1800 ⁰⁰
E. BURNETT																																21	55 ⁰⁰	1155 ⁰⁰
K. RALES																																20	50 ⁰⁰	1000 ⁰⁰
W. BUCKLEY																																20	50 ⁰⁰	1000 ⁰⁰
N. BASOK																																20	50 ⁰⁰	1000 ⁰⁰
S. DYSON																															7	90 ⁰⁰	630 ⁰⁰	
																																		\$ 6585 ⁰⁰



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **2407** MAP **#4**

Ed Dodson

MacDonald Consultants Ltd.		RUF & SINKER CLAIMS
BELVEDERE MINES LTD. (NPL.)		
SCALE	1" = 2000'	
DRAWN	J.p.h.	
DATE	May/70	
NO.	243	



THE GOVERNMENT OF
THE PROVINCE OF BRITISH COLUMBIA

DEPARTMENT OF MINES
AND PETROLEUM RESOURCES

MINERAL ACT
FORM B

SUB-MINING RECORD
RECEIVED

MAY 1 1970

M.R. # \$
VANCOUVER, B. C.

Affidavit on Application for Certificate of Work

I, Colin V. Dyson (Name.) Agent for Belvedere Mines Ltd. (Name.)
12 - 425 Howe Street (Address.) 629 - 789 West Pender Street (Address.)
Vancouver 1, B. C. Vancouver 1, B. C.

Free Miner's Certificate No. 83666 Free Miner's Certificate No. 85921
 Date issued June 3, 1969 Date issued November 13, 1969

make oath and say:—

I have done, or caused to be done, work on the RIF #1 and RIF #2 Groups: Sinker 1 - 6.
^{1-9, 11-5, 23, 26-30}
RUF 1 - 12, RUF 23 - 32, RUF 39 - 50, RUF 59 - 66 Mineral Claim(s)
^{28934, 28935, 28941-28951}
 Record No.(s) 18582-18587, 28926-28937, 28938-28947, 28948-28959, 28960-28967

situate at Klaskino Inlet
 in the Nanaimo Mining Division, to the value of at least
\$8,000.00
~~one~~ hundred dollars, since the 2 day of May, 1969
₂₄ ^{JUNE}

The following is a detailed statement of such work:—
 (Set out full particulars of the work done in the twelve months in which such work is required to be done.)

<u>Geochemical & Geological Survey</u>		
<u>Professional Services (see attached)</u>		<u>\$6,585.00</u>
<u>Expenses - E. A. Burnett</u>	<u>\$ 144.16</u>	
<u>VanCal Reproductions Ltd.</u>	<u>8.23</u>	
<u>C. V. Dyson</u>	<u>15.45</u>	
<u>Camp Equipment</u>	<u>RENTAL EQUIP. 151.67</u>	<u>Figure misquoted = 163.61</u>
<u>Groceries</u>	<u>365.06</u>	
<u>Air Transport - Beaver</u>	<u>445.84</u>	<u>Figure misquoted = 354.72</u>
<u>Bondar-Clegg - Assay's</u>	<u>750.00</u>	<u>1,880.41 = 1801.23</u>
		<u>98,465.41 = 8386.23</u>

2 years assessment to be applied to RIF #1 Group (36 claims)
1 years assessment to be applied to RIF #2 Group (8 claims)
Qualified report of assessment work to follow upon receipt of assay results.

That I have not and will not use the work declared herein in any way for the purposes of obtaining tax exemption on a Crown-granted mineral claim under the terms of the Taxation Act.

SWORN and subscribed to at
 this _____ day of _____
 19____, before me—
 *

Colin V. Dyson

* This affidavit may be taken by a person empowered to take affidavits by the Evidence Act of British Columbia.



To Accompany Geological and Geochemical Reports
 by E. D. Dodson, P. Eng., on the Ruf 1 and 2 Groups
 of Mineral claims, Klaskino Inlet, Nanaimo M. D.,
 Dated April 24, 1970.

E. D. Dodson

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **2407** MAP **#2**

BELVEDERE MINES LTD. (N.P.L.)	
MacDONALD CONSULTANTS LTD.	
Portion of Ruf & Sinker Claim Groups Klaskino Inlet	
SCALE	1" = 400 feet
DRAWN	JPH
DATE	APRIL 1970
NUMBER	243
CLAIM LOCATION	

2407

1048 2407

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2407 MAP #1



LEGEND

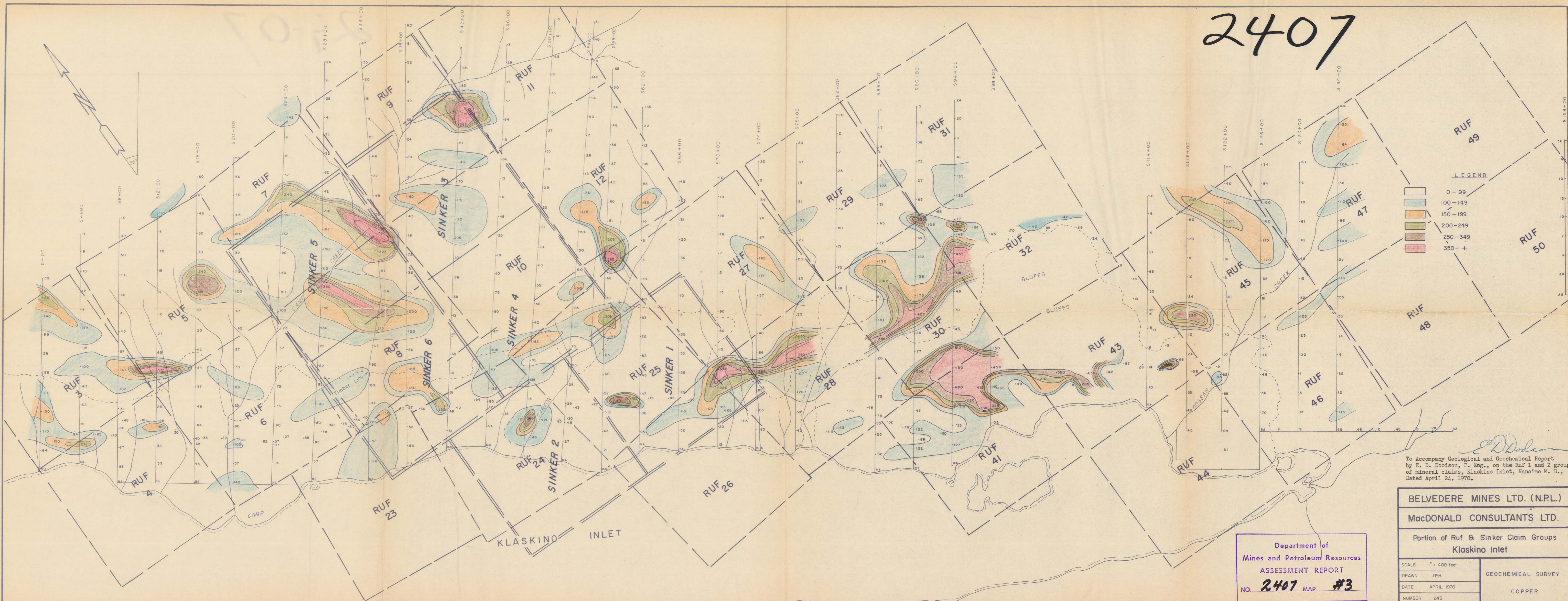
- 5 KARMUTSEN VOLCANICS
- 4 QUATSINO LIMESTONES
- 3 BONANZA SEDIMENTS
- 2 BONANZA VOLCANICS
- 1 INTRUSIVES
- CONTACT APPROXIMATE
- CONTACT ASSUMED
- CONTACT KNOWN
- DIP - STRIKE
- SHEAR
- FAULT - INDICATED

To accompany Geological and Geochemical Report
by E. D. Dodson, P. Eng., on the Ruf 1 and 2 Groups
of Mineral claims, Klaskino Inlet, Nanaimo M. D.,
Dated April 24, 1970.

BELVEDERE MINES LTD. (N.P.L.)	
MacDONALD CONSULTANTS LTD.	
Portion of Ruf & Sinker Claim Groups Klaskino Inlet	
SCALE	1" = 400 feet
DRAWN	JPH
DATE	APRIL 1970
NUMBER	243

GEOLOGY

2407



LEGEND

0-99
100-149
150-199
200-249
250-349
350+

To Accompany Geological and Geochemical Report
 by E. D. Doodson, P. Eng., on the Ruf 1 and 2 groups
 of mineral claims, Klaskino Inlet, Nanaimo M. D.,
 Dated April 24, 1970.

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 2407 MAP #3

BELVEDERE MINES LTD. (N.P.L.)

MacDONALD CONSULTANTS LTD.

Portion of Ruf & Sinker Claim Groups
 Klaskino Inlet

SCALE	1" = 400 feet	GEOCHEMICAL SURVEY COPPER
DRAWN	JPH	
DATE	APRIL 1970	
NUMBER	243	