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REPORT ON

GEOLOGY AND HISTORY OF

MONA GROUP

SMITHERS AREA, B. C.

by

PAUL PLICKA

CLAIMS MONA 1 - 20

LOCATION:

ABOUT 27 MILES EAST OF SMITHERS
OMINECA MINING DIVISION

December 1976

Vancouver, B. C.

MONA CLAIM GROUP
GOLD-COPPER PROSPECT
HISTORY AND GEOLOGY

LOCATION:

Mona Claim Group is located on the East Slope of Dome Mountain about 27 miles from Smithers. The group consists of 20 units.

HISTORY:

Mona Claim Group is covering ground previously known as Babine Gold Mines which consisted of 8 claims.

Numerous gold-bearing quartz veins were discovered in 1914. The original area was 2-1/2 miles long and 1-1/2 miles wide. The early period of activity was in the years of 1918-24 when considerable work was done on ore veins. The property was further explored until 1932 when more serious work commenced once again. In the period between 1932-1938 drifting, trenching and bulk sampling was carried out.

The property was further explored on limited basis until 1972 when Amoco staked the area surrounding the 8 gold mine claims without reaching an agreement with the owner. The Amoco crew carried out soil sampling, magnetometric and I.P. surveys. Soil sampling failed to reveal any Cu values as is the usual in Babine country.

The geophysical methods, however outlined porphyritic stock adjacent to the gold mine claims. The property became open in September 1975 and restaked in November 1975 in the form of existing Mona Group.

GEOLOGY:

The property is underlined by andesites of Hazelton Group. These are intruded by quartz-feldspar porphyry which lies North-North West of the gold bearing locality.

This porphyry is probably in interfingered contact with the

Hazelton andesites. The gold is found in quartz-veins, quartz shear zones and interbedded phylites (1974 Richards). The veins are irregular in strike and dip, locally converging strikes indicates possible junctions of some veins. The area is fractured and indications of lateral movement are observed. The mineralization observed is pyrite, specularite, chalcopyrite, tetrahedrite, sphalerite, silver and galena. Free gold was identified under microscope by Department of Mines & Resources, Ottawa 1957.

SAMPLING RESULTS:

Bulk sample of 680 lbs. was received on November 10, 1937 by "Canada Department of Mines & Resources, Ore Dressing and Metallurgical Labs", September 7, 1936. The following is an abstract from this report.

Assay of untreated sample:

Au	1.78 oz./ton
Ag	2.18 oz./ton
Pb	1.54%
Zn	5.87%
Cu	0.15%
As	0.02%
S	10.38%

Bulk concentrate Assay:

Soda-ash circuit

Au - 5.9 oz/ton recovery 97%

Lime circuit

Au - 17 oz./ton recovery 97.6%

Complete flow-sheet is available from this report.

No. 2 vein sample from 3t dump of vein material.

Au	2.22 oz./ton

Ag	11 oz./ton
Cu	2.2%
Zn	2.8%

No. 3 vein 3t dump of vein material.

Au	8.30 oz./ton
Ag	5 oz./ton
Cu	1.3%
Pb	1.1%
Zn	6.3%

Sample from 6T located at the Addit Portal assayed.

Au	4.98 oz./ton
Ag	6.2 oz./ton
Cu	1.4%
Pb	7.5%
Zn	7.9%

More information on sampling and assay could be obtained from this report.

WORK DONE:

The property has been hand trenched and samples collected from trenches and old dumps. All assays are within a range of the previous government reported values. Four men were engaged in the testing under the supervision of J. Borukso. The total cost of the project is $1,800.00.

CONCLUSION:

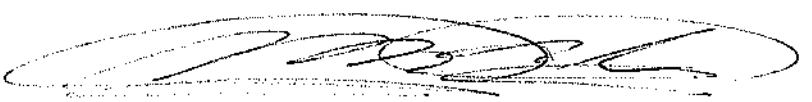
The Mona Group covers good gold property with adjacent porphyry stock. There is a definite possibility for a Gold-Copper type open pit operation. The existing 6 miles of cat trail from Chapman Pass Road could be easily improved into jeep road.

Sampling of the prophyry stock and drilling the gold area will give a conclusive picture of the property. The gold values themselves indicate a very interesting prospect. The fracturing and subsequent hydrothermal activity in the area gives a good chance for copper mineralization in the prophyry and the surrounding formations.

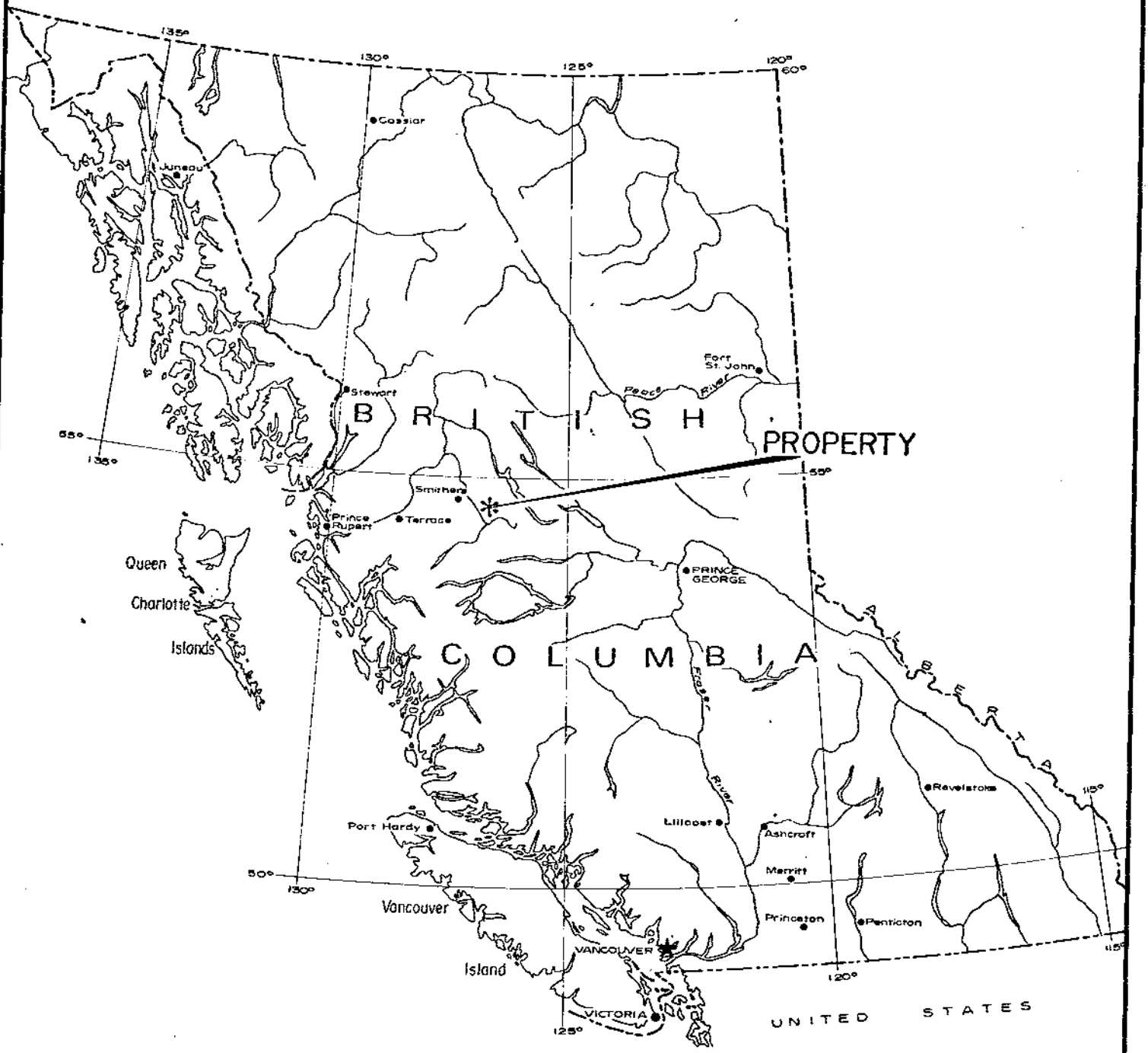
REFERENCES:

Annual Reports of the Minister of Mines 1918, 1922, 1924, 1933, 1934, 1938, Bulletin No. 3, 1932, Department of Mines and Resources, Ottawa Paper 36-20, 1936.

Respectfully submitted,



Paul Plicka,
Geologist



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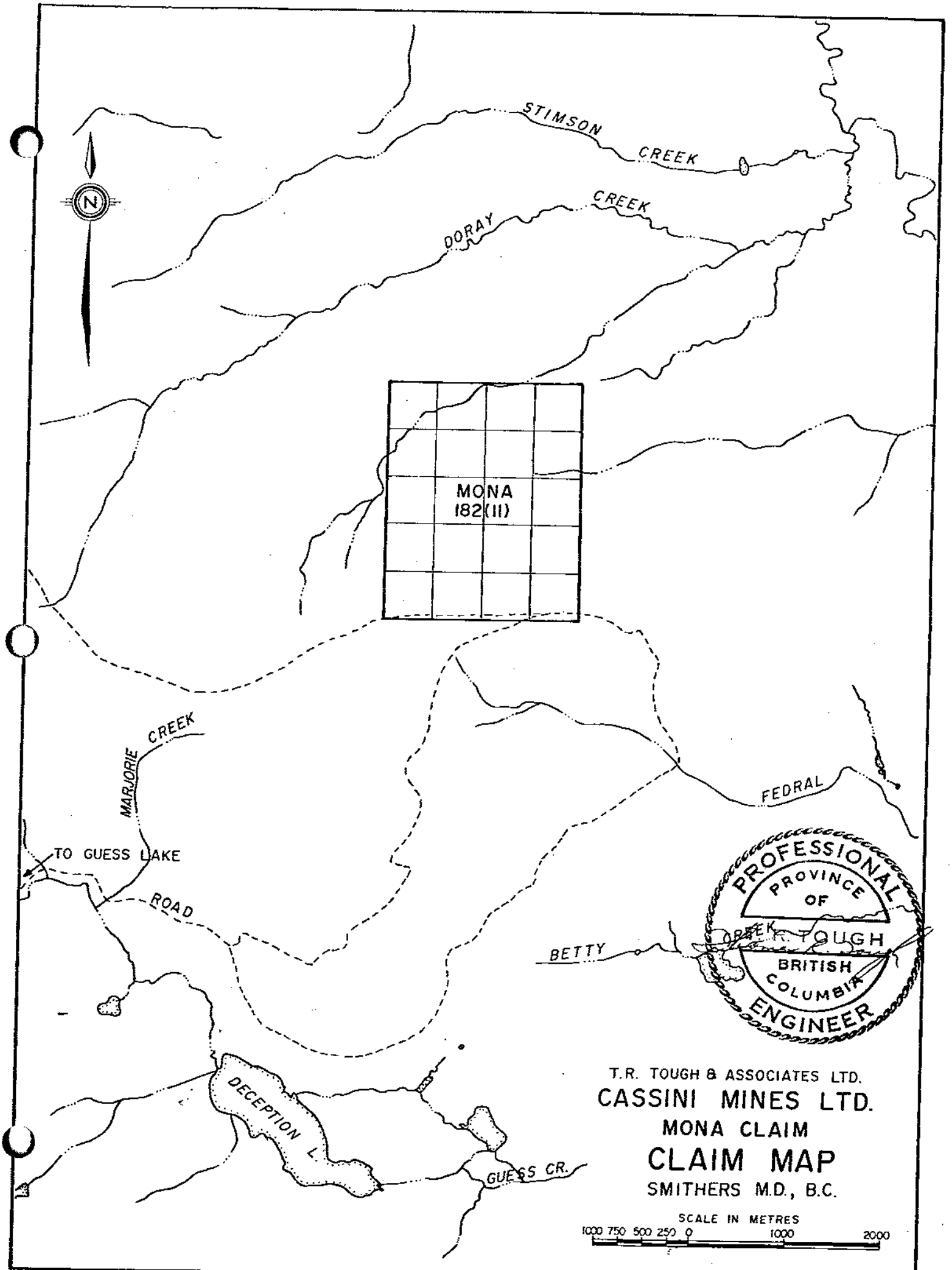
MONA CLAIM

LOCATION MAP

SMITHERS M.D., B.C.

SCALE IN MILES

100 50 0 100 200


STIMSON CREEK
DORAY CREEK
N
MONA
182(11)
MARJORIE CREEK
TO GUESS LAKE
ROAD
FEDRAL
BETTY
DECEPTION L.
GUESS CR.
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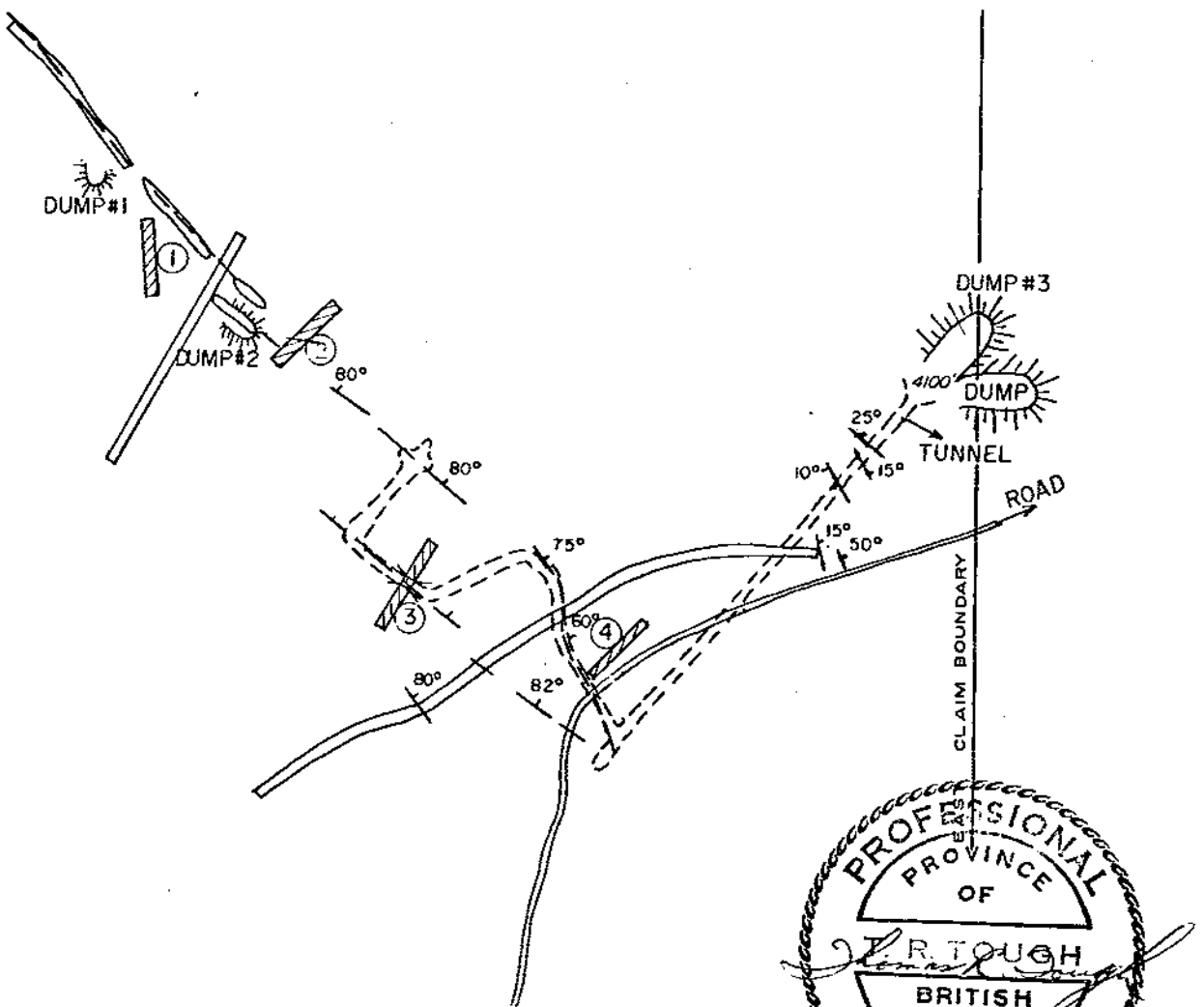
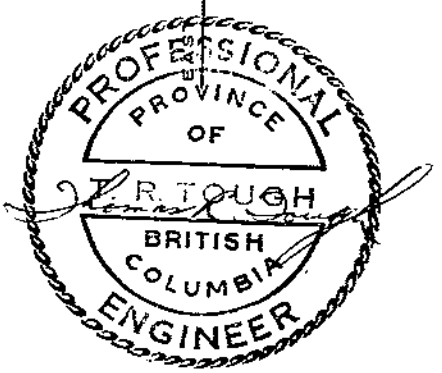
MONA CLAIM
CLAIM MAP
SMITHERS M.D., B.C.
SCALE IN METRES
1000 750 500 250 0 1000 2000

Sample #	Trench /	TRENCH Length(m.)	GRAB SAMPLE Au oz/ton.	Ag. oz./ton
2101	Dump # 1	8.25	1.885	10.50
02	Trench# 1	19.50	0.208	1.55
03	Dump # 2	2.15	4.250	5.50
04	Trench#2	27.00	0.170	2.55
05	Trench#3N	14.50	0.320	2.10
06	Trench#3S	12.25	0.175	1.10
07	Dump#3N	9.40	4.105	5.25
08	Dump#3S	10.15	3.950	4.25
09	Trench#4	17.35	0.450	1.27





LEGEND

TUNNEL

OLD TRENCHING

NEW TRENCHES

OLD DUMPS

ROAD

VEIN

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MONA CLAIM

ASSAY PLAN

SMITHERS M.D., B.C.

SCALE IN METRES

m.25 0 25 50 75 100m.

PHYSICAL DESCRIPTION OF TRENCHES

	Depth	Width	M^3
Trench No. 1	0.85	0.75	12.43
Trench No. 2	0.75	0.75	15.18
Trench No. 3A	0.80	0.80	8.96
Trench No. 3B	1.20	0.80	12.00
Trench No. 4	1.05	1.00	18.37
			66.94