

COMINCO LTD.

EXPLORATION

NTS: 1050/14

WESTERN DISTRICT

23 November 1983

TRENCHING REPORT ON THE

BRONSON 1-10 CLAIMS

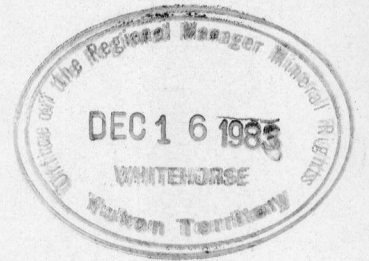
LOCATED AT

63°59'N, 139°29'W

IN THE

DAWSON M.D., YUKON TERRITORY

IAN A. PATERSON



This report has been examined by the Geological Evaluation Unit under section 23 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of \$ 5,000.00

Robert J. Hogg

Regional Manager, Exploration and Geological Services for Commissioners of Yukon Territory.

091498

COMING LTD.

WESTERN DISTRICT

23 November 1983

EXPLORATION

NTS: 1050/14

TRENCHING REPORT ON THE

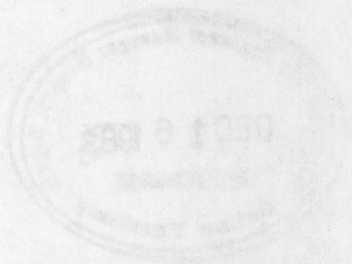
BROWSON I-10 CLAIMS

LOCATED AT

63° 55' N, 139° 29' W

IN THE

DAWSON M.D., YUKON TERRITORY



IAN A. PATTERSON

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of \$ 5,000.00.

Kathryn Grapes

for Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

ASSESSMENT CREDITS

Located claims on which assessment credits are requested are listed as follows:

<u>CLAIM</u>	<u>RECORD #</u>	<u>DATE RECORDED</u>	<u>ASSESSMENT CREDIT</u>	<u>AMOUNT</u>
Bronson 1	YA4997	June 9,1980	5 years	\$500
Bronson 2	YA4998	June 9,1980	5 years	\$500
Bronson 3	YA4999	June 9,1980	5 years	\$500
Bronson 4	YA4100	June 9,1980	5 years	\$500
Bronson 5	YA4101	June 9,1980	5 years	\$500
Bronson 6	YA4102	June 9,1980	5 years	\$500
Bronson 7	YA4103	June 9,1980	5 years	\$500
Bronson 8	YA4104	June 9,1980	5 years	\$500
Bronson 9	YA4105	June 9,1980	5 years	\$500
Bronson 10	YA4106	June 9,1980	5 years	\$500
			50 years	\$5,000

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EXPLORATION

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BRONSON CLAIM GROUP

INTRODUCTION

The trenching programme was carried out to investigate a Cu Pb Zn Ag soil geochemical anomaly in rocks of the Klondike Schist. The programme was carried out between the 1st and 9th August, 1983 by a D-8 caterpillar tractor driven by R. Gillespie of Dawson City.

LOCATION AND ACCESS

The claims are located on the northern flank of Mt. Bronson, 11 km south of Dawson City. The caterpillar tractor was walked in from Bonanza Creek, approximately 5 km ~~west~~
east of the claim group.

TRENCHING

Four trenches were dug on the claim group. Locations are given in Map 1.

	<u>Length</u>		<u>Width</u>		<u>Depth</u>	
Trench A	200 m	x	3 m	x	3 m x 1/2 =	900 ³ m
Trench B	150 m	x	3 m	x	3.5 x 1/2 =	787 ³ m
Trench C	260 m	x	4 m	x	2.0 x 1/2 =	1040 ³ m
Trench D	270 m	x	4 m	x	2.0 x 1/2 =	1080 ³ m
Stripping along road	500m	x	4 m	x	1	2000 ³ m
					Total =	5807 ³ m

Apart from Trench D, most of the stripping was carried out in permafrost consisting of 0.5 metres of moss overlying black muck grading down into boulders.

GEOLOGY

The claim group is underlain by Klondike Schist. The rocks have been involved in two penetrative deformations, the first of which was accompanied by metamorphism and cataclasis. The cataclasis has resulted in widespread obliteration of primary textures.

The summit of Mount Bronson is composed of quartz + muscovite + feldspar schist containing flattened, rodded clasts(?) of quartz feldspar porphyry. This is underlain in turn by quartz muscovite schist and gneiss and an alternating sequence of quartz-eye and muscovite + feldspar + pyrite schists, muscovitic pyritic quartzites, and muscovite + chlorite + quartz + pyrite schist + blue quartz eyes. The former sequence is the one which gives rise to the geochemical anomaly.

MINERALIZATION

Pyrite is common in the schists and locally may constitute around 7 or 8% of the rocks. On the high ground fresh pyrite is seldom seen on surface rocks but in the creek it is fairly common, especially in siliceous rocks where it is enveloped by quartz.

Traces of galena were seen in a sample of schist containing a quartz segregation vein in Trench D very close to the upslope cut off of the geochemical anomaly outlined by previous soil sampling.

GEOCHEMISTRY

Results of soil sampling are given in Map 1. Soil sample analyses were carried out by the Cominco Exploration Research Laboratory using standard analytical methods (Cu, Pb, Zn, Ag - A/A, 20% HNO₃ digestion; Au-solvent extraction/AA; As-colorimetric). Anomalous Cu Pb Zn Ag values were noted in Trench A and at the north end of the cat trail in the vicinity of Trenches B and D. The anomalous values appear to be associated with a unit consisting of muscovite + pyrite quartzite and quartz-eye muscovite schist and gneiss. Mineralization noted in the trenches consisted of disseminated pyrite and pyrrhotite and one speck of galena adjacent to a quartz vein.

3.

CONCLUSION

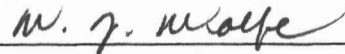
The origin of the geochemical anomaly is still problematical but it is likely that the source represents either a) low grade disseminated mineralization in the Klondike Schist or b) vein mineralization.

Report by:



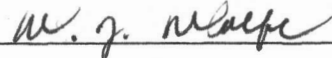
I.A. Paterson
Project Geologist

Endorsed by:



W.J. Wolfe,
Assistant Manager

Approved for
Release by:



per G. Harden,
Manager, Exploration
Western District

IAP/pm
Attachments

Figure 1 - Location Map

Map 1 - Contour map, soil and rock sample locations.

EXHIBIT "A"

STATEMENT OF EXPENDITURES

BRONSON CLAIM GROUP

DAWSON M.D., Y.T.

1st AUGUST, 1983 to 15th AUGUST, 1983

Geology: geologist + technician (1-15 August 1983)	\$ 3,250.00
Geochemistry: 59 soil samples at \$13.45 ea.	793.55
Trenching: 56 hours at \$160/hr (D-8)	8,960.00
Transportation (helicopter)	<u>2,628.00</u>
Total:	\$15,631.55



IAN A. PATERSON
Project Geologist

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

NTS: 1150/14

23 November 1983

EXHIBIT "B"

BRONSON GROUP

DAWSON M.D., Y.T.

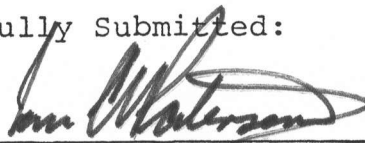
STATEMENT OF QUALIFICATIONS

I, Ian A. Paterson, with business address at 700-409 Granville Street, Vancouver, British Columbia, do hereby certify that I have supervised the field work and have assessed and interpreted the data resulting from this trenching programme on the Bronson Mineral claims.

I also certify that:

- 1) I graduated from the University of Aberdeen, Scotland with a B.Sc (Hons.) degree in 1967.
- 2) I graduated from the University of British Columbia with a Ph.D. degree in 1973.
- 3) I am a registered Professional Engineer of the Province of British Columbia, a Fellow of the Geological Association of Canada and a member of the Canadian Institute of Mining and Metallurgy.
- 4) I have been engaged in my profession since my graduation in 1973.
- 5) I have been employed by Cominco Ltd. since 1974.

Respectfully Submitted:



IAN. A. PATERSON
Project Geologist

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

23 November 1983

EXHIBIT "C"

IN THE MATTER OF THE ACT RESPECTING QUARTZ MINING IN THE YUKON TERRITORY AND IN THE MATTER OF A TRENCHING PROGRAMME CARRIED OUT IN PORTIONS OF THE BRONSON MINERAL CLAIMS LOCATED 11 KM SOUTH OF THE TOWN OF DAWSON IN THE DAWSON MINING DIVISION OF THE YUKON TERRITORY.

S T A T E M E N T

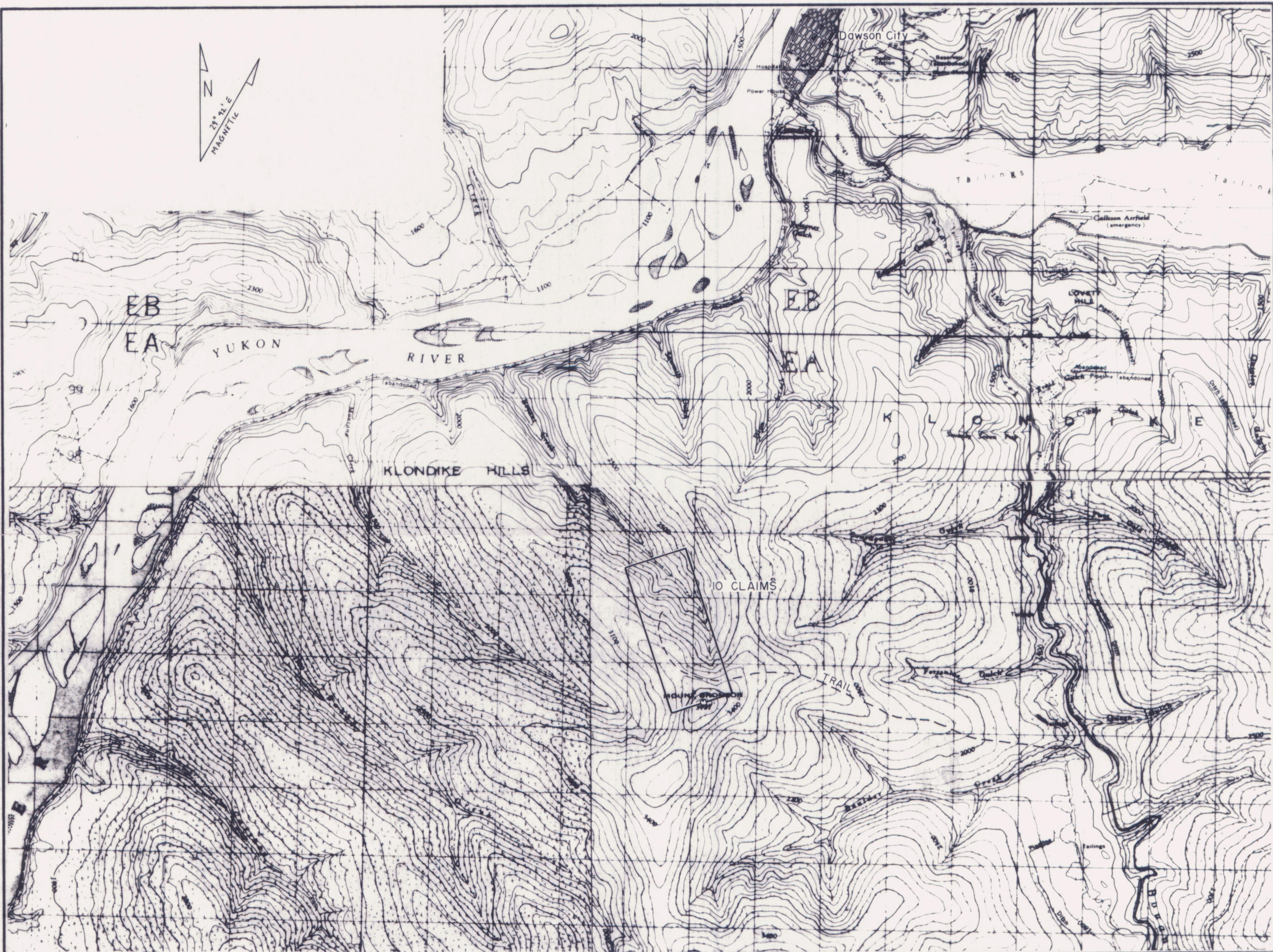
I, Ian A. Paterson of the City of Vancouver in the Province of British Columbia, make oath and say:

1. THAT I am employed as a geologist by Cominco and, as such, have personal knowledge of the facts to which I hereinafter depose;
2. THAT included in this report and marked as Exhibit "A" is a true copy of expenditures incurred on trenching programme on the Bronson mineral claims;
3. THAT the said expenditures were incurred between the 1st August and the 15th August, 1983 for the purpose of mineral exploration on the above claims.



IAN A. PATERSON
Project Geologist

Dated this _____ day of _____
at Vancouver, British Columbia.



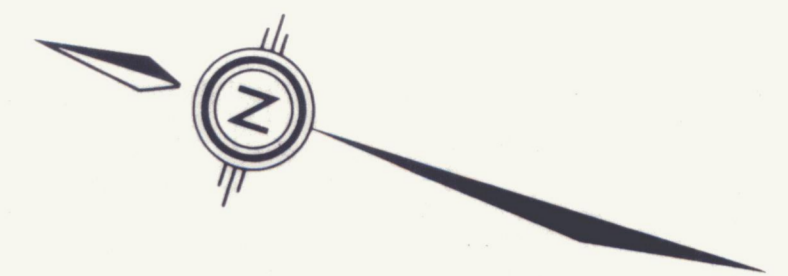
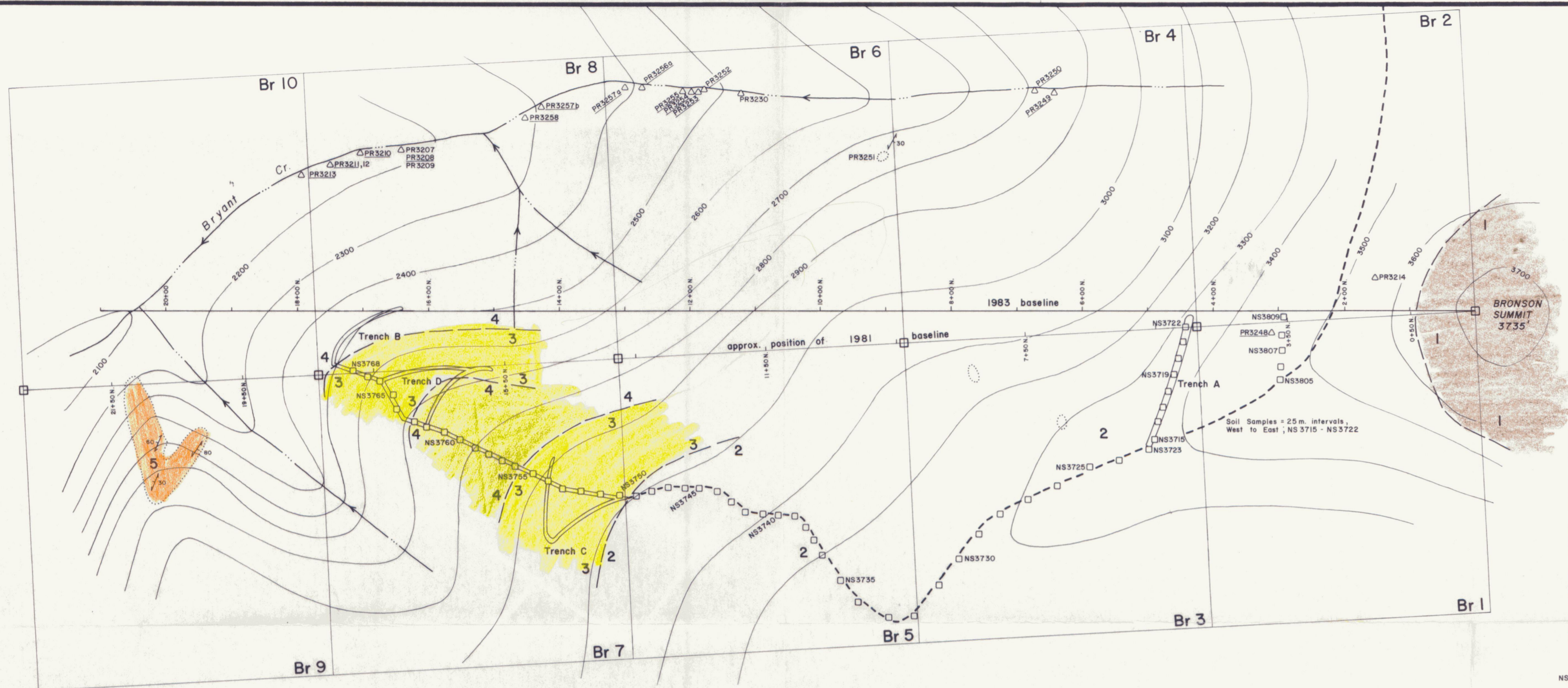
BRONSON CLAIMS

N.T.S:
Cominco 115 O/14,15
 116 B/3,4

Drawn by:	Traced by:
Revised by	Date
Revised by	Date

LOCATION MAP
091498

Dawson M.D., Y.T.
 Scale: 1:50,000 Date: NOV. 1983 Plate:

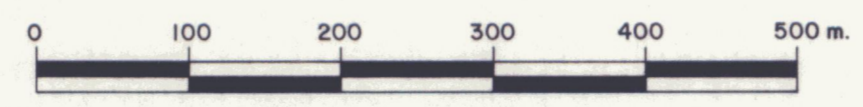


- quartz and muscovite schist with flattened and rodded clasts of quartz and feldspar porphyry
- quartz and muscovite gneiss and schist (metasediment)
- muscovite and pyrite quartzite, rhyolite quartz-eye muscovite schist
- muscovite and chlorite and pyrite schist
- white pyritic quartzite with sericite
- Soil Sample Location and Number
- Rock Sample Location and Number

BRONSON: Soil Geochemistry, Job 5635.

Field Number	Cu (ppm)	Pb (ppm)	Zn (ppm)	Au (ppb)	Wt Au (gram)	Ag (ppm)	As (ppm)	Field Number	Cu (ppm)	Pb (ppm)	Zn (ppm)	Au (ppb)	Wt Au (gram)	Ag (ppm)	As (ppm)
NS3715	15	45	92	<10	10	<.4	3	NS3745	11	16	42	<10	10	<.4	3
NS3716	26	103	166	<10	10	.6	10	NS3746	3	11	27	<10	10	<.4	1
NS3717	30	9	143	<10	10	.4	87	NS3747	5	11	30	<10	10	<.4	9
NS3718	73	140	654	<10	10	.9	6	NS3748	7	13	35	<10	10	<.4	27
NS3719	80	150	709	<10	10	1.1	7	NS3749	7	16	47	<10	10	<.4	13
NS3720	68	111	442	<10	10	1.0	20	NS3750	7	13	31	<10	7.5	.6	26
NS3721	51	105	277	<10	10	.6	34	NS3751	6	22	37	<10	10	.8	11
NS3722	32	58	168	<10	10	.5	12	NS3752	13	32	49	<10	10	.8	16
NS3723	21	19	73	<10	10	<.4	22	NS3753	5	14	26	<10	0	.5	6
NS3724	29	9	42	11	10	<.4	4	NS3754	4	23	29	<10	10	.8	4
NS3725	35	24	49	<10	10	.7	13	NS3755	9	27	29	1	10	.7	13
NS3726	7	17	28	<10	10	<.4	2	NS3756	6	29	26	<10	10	.9	11
NS3727	7	18	23	<10	10	<.4	3	NS3757	13	36	68	<10	10	1.0	9
NS3728	17	17	45	<10	10	<.4	5	NS3758	14	31	75	<10	10	.8	11
NS3729	12	12	38	<10	10	<.4	3	NS3759	19	31	78	<10	10	1.1	13
NS3730	16	13	41	<10	10	<.4	2	NS3760	20	30	62	<10	10	.9	8
NS3731	10	14	28	<10	10	<.4	2	NS3761	22	26	65	<10	10	1.2	8
NS3732	15	9	38	<10	10	<.4	7	NS3762	19	19	98	<10	10	.4	19
NS3733	17	18	47	<10	10	<.4	2	NS3763	24	20	93	20	10	1.5	12
NS3734	15	12	39	<10	10	<.4	5	NS3764	31	51	102	10	10	1.9	32
NS3735	13	12	41	<10	10	<.4	20	NS3765	33	81	90	14	10	5.2	50
NS3736	9	10	36	<10	10	<.4	2	NS3766	34	29	79	<10	10	2.1	12
NS3737	8	12	33	<10	10	<.4	3	NS3767	136	360	147	10	10	20.0	900
NS3738	11	25	54	<10	4.3	<.4	3	NS3768	87	81	143	<10	10	9.0	132
NS3739	10	20	48	<10	10	<.4	2	NS3805	10	<20	40	25	6	<2.0	10
NS3740	8	16	43	<10	9.5	<.4	3	NS3806	9	9	43	10	10	<.4	6
NS3741	8	23	39	<10	10	<.4	2	NS3807	14	9	50	<10	10	<.4	7
NS3742	15	31	62	<10	5.8	.7	7	NS3808	24	18	54	<10	10	.8	15
NS3743	11	18	48	<10	10	<.4	7	NS3809	13	9	47	<10	10	<.4	6
NS3744	7	17	41	<10	10	<.4	4								

- Outcrop
- Inferred Geological Contact
- Cat Trail
- Cat Trench
- Claim Post



BRONSON 091498 001108 105 0/14

Drawn by: I.A.P.	Traced by: a.m.b.	CONTOUR MAP, SOIL and ROCK SAMPLE LOCATIONS
Revised by: _____	Date: _____	
Revised by: _____	Date: _____	
Revised by: _____	Date: _____	

Dawson M.D. TO ACCOMPANY ASSESSMENT REPORT BY I.A.P.

Scale: 1: 5,000 Date: Nov. 21, 1983 Plate: 1