GEOLOGICAL AND GEOCHEMICAL REPORT

- on the -

CHITA CLAIMS

- for -

BARRIER REEF RESOURCES LTD.,

#904-675 West Hastings Street,
VANCOUVER, B. C. V6B 1N2.

COVERING: Chita #1 (20 units), Chita #3 (10 units),
Chita #2 (12 units), Chita #4 (20 units).

WORK PERFORMED: August 19 to August 30, 1980.

LOCATION: (1). 67 km. Northwest of Goldbridge, B. C.

(2). N.T.S. 92O/4E and /5E.

(3). Latitude 51°15.0' North;
Longitude 123° 32.3'West.

PREPARED BY:

KERR, DAWSON & ASSOCIATES LTD.,
#1-219 Victoria Street,
KAMLOOPS, B.C.

W. Gruenwald, B. Sc.,
December 5,1980.

INDEX

APPENDICES

APPENDIX A - Geochemical Results

APPENDIX B - Personnel

APPENDIX C - Statement of Expenditures

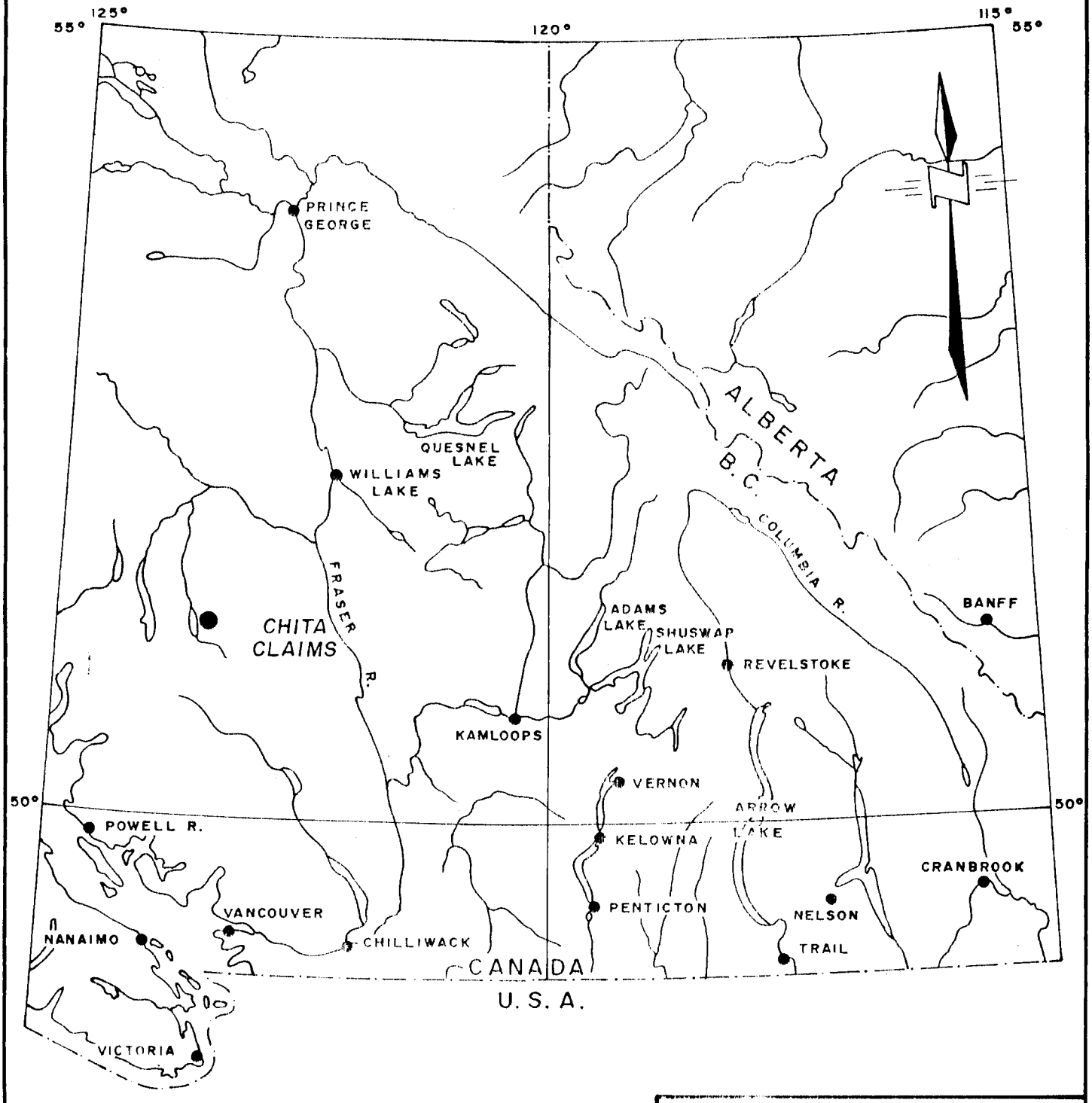
APPENDIX D - References

APPENDIX E - Writer's Certificate

APPENDIX F - Maps

MAPS

		Scale
Figure #231 A-1	- Location Map	1"= 64 mi.
Figure #231 A-2	- Index Map	1 = 50,000
Figure #231 A-3	- Geological Plan	1 = 5,000
Figure #231 A-4	- Geochemical Plan (Molybdenum)	1 = 5,000
Figure #231 A-5	- Geochemical Plan (Copper)	1 = 5,000
Figure #231 A-6	- Geochemical Plan (Arsenic)	1 = 5,000
Figure #231 A-7	- Geochemical Plan (Gold)	1 = 5,000



BARRIER REEF RESOURCES LTD.

LOCATION MAP

CHITA CLAIMS

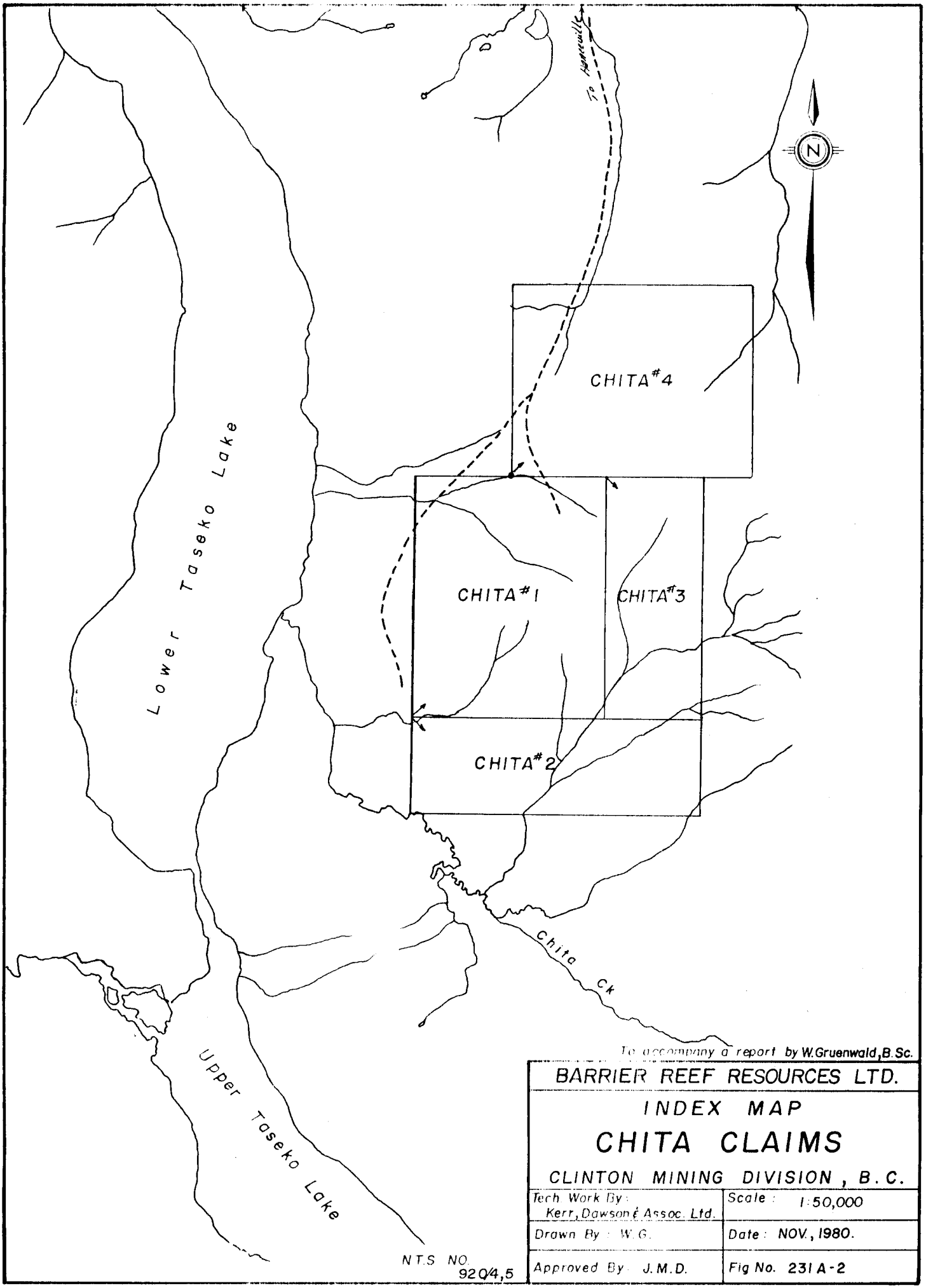
CLINTON MINING DIVISION, B.C.

Date: NOV. 1980.	Scale: 1" = 64 Miles
Dwn by: W. G.	Dwg no. 231A-1

INTRODUCTION

The Chita claims were staked in March, 1980, to cover an area of feldspar porphyry intrusive bodies that locally host disseminated copper-molybdenum mineralization. These intrusive rocks are thought to be similar to the feldspar porphyry intrusive that hosts the Poison Mountain Cu-Mo (+ low grade gold) deposit located some 50 kilometers of the east-southeast. The Chita claims and several other areas containing feldspar porphyries have recently been the subject of intensive exploration for precious metals.

At the request of Barrier Reef Resources Ltd., the writer and Renegade Mineral Exploration Services Ltd. carried out a programme of geological mapping and geochemical sampling over the central portions of the Chita claim block.



To accompany a report by W. Gruenwald, B.Sc.

BARRIER REEF RESOURCES LTD.

INDEX MAP

CHITA CLAIMS

CLINTON MINING DIVISION, B.C.

Tech. Work By: Kerr, Dawson & Assoc. Ltd.	Scale: 1:50,000
Drawn By: W.G.	Date: NOV., 1980.
Approved By: J.M.D.	Fig No. 231A-2

SUMMARY AND CONCLUSIONS

(1). The Chita claim group consists of four modified grid claims totalling 62 units. The property is located 67 km. northwest of Goldbridge, B. C. in the Chilcotin Ranges of the Coast Mountains.

(2). The claim area has been explored in the past by three mining companies, the last of which (Bethlehem 1969-70) drilled 21 percussion and 4 diamond drill holes in and around the known copper-molybdenite mineralization.

(3). The geology of the Chita claims consists of sediments (+ minor + volcanics) of the Lower Cretaceous Taylor group that have been intruded by numerous plugs and dykes of Tertiary feldspar porphyry. Copper-molybdenite mineralization is found disseminated through an area of highly altered feldspar porphyry that has locally been brecciated (ie explosion breccia). Several areas of feldspar porphyry are quite limonitic; however, appear to be devoid of any economic mineralization.

(4). The geochemical sampling outlined two major anomalous zones (Cu-Mo) one of which was centered around the known mineralized zone. The extent of this anomaly may suggest that the mineralized zone could be considerably larger than presently known.

The second major anomaly (Cu-Mo) is located west of the baseline between L-2S and L-4N. Little or no exploration work has been done on this anomalous area which appears underlain by both sediments and feldspar porphyry intrusives.

No significant gold values were encountered over the grid area.

LOCATION AND ACCESS

The Chita claims are located along the east side of Lower Taseko Lake between Beece Creek and Chita Creek. The property is situated along the east flank of the Coast Mountains approximately 67 air kilometers northwest of Goldbridge, B. C. Geographic co-ordinates for the center of the property are 51°15.0' North latitude and 123°32.3' West longitude on NTS sheets 92 O/4 and 92 O/5. The claim block lies within the Clinton Mining Division.

Access to the property is via either helicopter from Goldbridge or by a rough road that heads southerly from Hanceville along the Williams Lake-Bella Coola road. Total road distance from Williams Lake is approximately 210 kilometers.

PROPERTY

The Chita claim block consists of four contiguous claims totalling 62 units. Claim details are as follows:

Claim Name	No.of Units	Record No.	Expiry Date
Chita #1	20	654 (4)	April 21, 1981
Chita #2	12	655 (4)	April 21, 1981
Chita #3	10	656 (4)	April 21, 1981
Chita #4	20	657 (4)	April 21, 1981
Total	62 units		

The registered owner of the above claims is Barrier Reef Resources Ltd. of Vancouver, B. C.

HISTORY

The earliest recorded work was done by Phelps Dodge Corporation Ltd. who in 1962 carried out detailed geological mapping and minor trenching. In 1968 Bethex Exploration Ltd. carried out a programme of geochemical sampling, detailed geological mapping, and minor trenching. Following the above, Bethlehem Copper Corporation carried out a work programme in 1969-70. This programme consisted of the drilling of 4 diamond drill holes totalling 390 meters, 21 percussion holes totalling 1,280 meters and the construction of approximately 8 kilometers of roads. Since 1970, no further work has been carried out on the Chita claim area.

PHYSIOGRAPHY AND VEGETATION

The Chita claims are situated on the northeast flanks of the Chilcotin Ranges of the Coast Mountains. The claims lie on the slopes immediately northeast of the narrows separating upper and lower Taseko Lakes.

The general slope of the claim area is to the west and southwest; however, slopes to the east, south, and north are found in some localities (i.e. creek valleys).

Tributaries of Chita creek drain the southern half of the claim block while the central portion of the claim block is drained by two westerly flowing creeks. Tributaries of Beece creek drain the northernmost portion of the claim block.

The overall topographic relief of the claim block is approximately 1,050 meters from Chita creek in the southwest corner of the claim block (1,418 m) to the

peak on the east boundary of Chita #3 (2,470 m). Vegetation on the lower slopes and creek valleys consists primarily of stands of pine, balsam and fir. Subalpine to alpine vegetation is generally found above the 6,500' (1,980 m) elevation.

GEOLOGY

On a regional scale, the Chita claims are situated within a belt of variably deformed Mesozoic volcanic and sedimentary rocks that are bounded by the west-northwesterly trending Taseko, Yalakom and Tchaikazan faults. These rocks are locally intruded by Tertiary plugs of feldspar ± biotite porphyry. This belt of rocks is bounded to the northeast by relatively undeformed Cretaceous and Tertiary volcanics and sediments.

On a local scale the geology of the Chita claims consists of several rock types (see figure #231 A-3).

Unit #1 consists of dark gray to black argillite (shale?), pale, gray-brown to greenish sandstones and siltstones as well as quartz + chert pebble conglomerate. These rocks are found over much of the Chita #1 and #3 claims, and are possibly in fault contact to the east and south with andesitic (+basaltic) feldspar porphyries and agglomerates of unit #4. Found within the Unit #1 sediments are narrow zones of pale yellow (locally pale green), platy to massive rhyolitic ash (Unit #2). The rhyolitic rocks are found near the eastern extremities of L-4N to L-12N and may in fact be ash norizons that are intercalated (?) with the Unit #1 sediments.

The sediments in the northern portions of Chita #1 and #3 strike from northwest to north-northeast and dip from 50° to 80° easterly. Attitudes in the southern portions of the same claims strike from northwest to west-northwest and dip from 70°-80° southerly. Such diversity in attitudes are probably the result of regional deformation (ie uplift, etc.), faulting and intrusive activity. Both Unit #1 and #2 are likely members of the Lower Cretaceous Taylor group as mapped by the G.S.C. (Open File #534).

Pyrite is found as disseminations and/or fracture fillings in the argillic sediments. Locally pyrrhotite and minor chalcopyrite have also been observed in some of the pyritic argillites. The proximity to feldspar porphyry intrusives probably plays an important role in the sulphide content of the surrounding sediments. Minor pyrite (and lesser pyrrhotite) was observed in some of the conglomerates and sandstones.

Unit #3 consists of medium to coarse grained feldspar $\pm$ hornblende $\pm$ biotite porphyry. These rocks are found as plugs and dyke-like masses that intrude the Unit #1 sediments over much of the grid area between L-12S and L-8N. These intrusives vary from

gray to buff, locally pinkish, altered rocks. The phenocrysts are generally plagioclase and vary in length from 0.2 to 1.0 cm. Often found in association with these phenocrysts are smaller hornblende phenocrysts and biotite "books", all of which are set in a grayish -brown groundmass of feldspars, quartz, hornblende and biotite (± chlorite).

Alteration of the feldspar porphyries ranges from weak to strong, the latter of which is most notable on the hilltop outcrop between L-4N and L-6N (7+50-9+50E). Another area of well altered feldspar porphyries is found west of the baseline between L-2S and L-8S, where the intruded conglomerates as well as the porphyries are well oxidized and crumbly weathering. The alteration of the porphyries consists most likely of the breakdown of feldspar to sericite, ± carbonate and possibly epidote, along with chloritization of the mafic minerals as well as the oxidation of pyrite and pyrrhotite to limonite.

The contacts between the porphyry intrusives and the sediments (Unit #1) are generally quite sharp

Located near the northern and southern limits of the altered and mineralized zone are at least two occurrences of breccia. The breccia zones are comprised of subrounded to subangular fragments (2 to $\geq$ 10 cm across) of dark gray, finely veined argillic rock, andesitic and basaltic volcanics as well as fragments of feldspar porphyry. The finer grained matrix between the fragments contains blebs of pyrite and chalcopyrite. Such breccias may imply that the emplacement of the main intrusive body in this area was possibly quite forceful (ie. explosion breccia). This type of emplacement may have, in part, provided the necessary "plumbing" system for the hydrothermal alteration and sulphide mineralization.

Other altered and limonitic feldspar porphyries were observed within the grid area such as the area west of the baseline between L-4S to L-8S and between L-2S; 4+00E and L-2N; 2+50W. The former area, though well altered, contains only very minor sulphide mineralization. The latter area contains areas of altered feldspar porphyry which locally contains disseminated pyrite and very minor chalcopyrite and molybdenite. It is debatable whether these two areas

are related to the main altered and mineralized zone to the northeast or whether they represent altered and/or mineralized zones completely separate from the main zone.

The last major rock unit (Unit #4) is represented by dark green to gray fine grained andesitic (± basaltic?) feldspar porphyries and agglomerates. These rocks are found south of L-12S where they may be in fault contact with Units #1 and #3. Unit #4 rocks are found at the very eastern extremities of L-8S to L-2N where they are represented by abundant agglomeritic rocks as well as feldspar porphyries. The very northeast corner of the grid is underlain by a very large expanse of pale green, massive, fine grained feldspar porphyry which would appear to overlie the Unit #1 sediments. These volcanics of Unit #4 probably correspond to the upper Cretaceous Kingsvale Group mapped by the G.S.C. and appear to extend for a considerable distance east of the grid area.

Sulphides (pyrite and/or pyrrhotite) are generally found in very small amounts in these rocks (<< 0.5%).

Several fine grained, dark colored dykes were observed on the property and appeared to cut rocks of both Units #1 and #3. These,generally, narrow and steeply dipping dykes are probably related to Unit #4 vulcanism or younger volcanic activity.

Evidence of faulting was observed in outcrops near L-2S and L-4S and in each case, these faults and strikes of west-northwest and dipped from 60° to 80°, southerly. One fault was observed to dip 90°. Displacement along these fault zones is thought to be minimal.

Several large faults were mapped on the basis of topographic linears, prominant land features (ie. distinct gullys) or geological contacts. (See figure #231 A-3).

GEOCHEMISTRY

During August, 1980, a chain and compass grid totalling 40.3 km was established over all of Chita #1 and portions of Chita #2 and #3. Soil samples were collected at 50 meter intervals on lines 200 meters apart. Rock chip samples were collected by the writer during the course of geological mapping.

A total of 763 soil and 86 rock chip samples were collected over the Chita claims.

Soil samples were collected from the "B" horizon when present,or from the residual soils developed in talus rich areas. All samples upon collection were placed in waterproof kraft envelopes and labelled by the appropriate grid co-ordinates. The samples were later packaged and shipped to Acme Analytical Laboratories in Vancouver, B. C. for analysis.

After drying, soil samples were seived to obtain an aliquot of -80 mesh material. Rock samples were crushed to -100 mesh size. All samples were analyzed for Molybdenum (Mo), Copper (Cu), Arsenic (As), and Gold (Au). The analysis for the above elements was as follows:

Element	Digestion	Determination
Molybdenum, Copper, Arsenic	A 0.5 gm sample is digested in hot aqua regia.	Atomic absorption
Gold	A 10 gm sample is heated to 600°C for 4 hours and digested in hot aqua regia.	Atomic absorption with background correction.

The results for each element was stated in parts per million (ppm). Gold values were converted to parts per billion (ppb) for plotting on the geochemical plan. A statistical analysis was done for each element (using soils only) and stated as follows:

	Molybdenum	Copper	Arsenic	Gold
Mean ($\bar{x}$)	5.4 ppm	119 ppm	23.4 ppm	7.8 ppb
Standard Deviation	7.5 ppm	148.5 ppm	34.9 ppm	11.9 ppb
Background	5.4 ppm	119 ppm	23 ppm	8 ppb
Possibly Anomalous	5.4-12.9 ppm	119-266 ppm	23-58 ppm	8-20 ppb
Probably Anomalous	13-20.4 ppm	267-417 ppm	58-93 ppm	21-32 ppb
Definitely Anomalous	20.4 ppm	417 ppm	93 ppm	32 ppb

The geochemical anomalies for each element are detailed as follows:

Molybdenum: (Figure #231 A-4).

- all anomlous values are found north of L-8S (between 8+00W and 14+00E).
- the anomalies can be divided into two main areas.
- one area partially surrounds main mineralized zone (generally downhill of it).
- values up to 102 ppm.

- found over rock units #1 and #3.
- the other anomalous area is found west of the baseline between L-4N and L-2S.
- values to 70 ppm, also found over units #1 and #3.
- the remaining 1 and 2 sample anomalies are generally found between the above two areas and to the north.
- the two main anomalous zones and many of the smaller anomalies generally have a good co-incidence with copper.
- poor co-incidence with arsenic and gold.

Copper: (Figure #231 A-5).

- all definitely anomalous values essentially north of L-4S.
- 5 definitely anomalous areas with more than two values; these can be divided into two main areas.
- largest anomaly (600m x 800m) partially surrounds the known mineralized zone.
- values up to 2,889 ppm.
- many anomalous values found topographically below mineralized zone, (downhill dispersion?)
- found anomalous values over rock units #1, #2, #3.
- second definitely anomalous area west of baseline between L-2S and L-4N.

- values to 844 ppm, found over rock units #1 and #3.
- the remainder of the smaller anomalies are generally found between the two main anomalous areas much of which is covered by overburden and/or talus.
- no anomalous values were noted over any unit #4 rocks.
- co-incidence with molybdenum anomalies is good and poor with arsenic and gold.

Arsenic: (Figure #231 A-6).

- all anomalous values found between L-2N and L-10S.
- four definitely anomalous with $\geq$ 2 samples.
- values to 541 ppm (extreme high of 5,805 recorded).
- largest anomaly west of baseline between L-0 and L-8S (400 x 700 m).
- found on and topographically below exposures of rock units #1 and #3.
- co-incidence with molybdenum and copper is poor.
- co-incidence with gold is weak.

Gold: (Figure #231 A-7).

- anomalies scattered over entire gold.
- 13 anomalies in the definitely anomalous category. only 2 have $>$ 1 anomalous sample.
- anomalies appear over all rock types.
- co-incidence with arsenic is weak, only two gold anomalies co-incident with arsenic.

- co-incidence with copper-molybdenum is poor, only two small gold anomalies correspond with copper-molybdenum anomaly in the main mineralized area.

In summary, the major geochemical anomalies can be listed as follows:

(1). Area on and around known mineralized zone (Rock units #1, #3, and #2 (?).
   - excellent copper-molybdenum co-incidence.
   - size of anomalous zone may suggest that mineralization is more extensive than presently known.
   - poor arsenic co-incidence, weak gold co-incidence.

(2). Area west of baseline between L-2S and L-4N (Rock units #1, #3).
   - excellent copper-molybdenum co-incidence.
   - poor arsenic-gold co-incidence.

RECOMMENDATIONS

Based on information to date the following is recommended:

(1). Obtain any assay values for the Bethlehem diamond drilling and percussion drilling.
Relate this information to the present programme to determine whether the values (from the drilling) satisfactorily explained the present geochemical anomalies and if any untested areas exist.

Respectfully Submitted:

KERR, DAWSON AND ASSOCIATES LTD.,

Werner Gruenwald, B. Sc.,
GEOLOGIST

Kamloops, B. C.

December 5, 1980.

APPENDIX A

GEOCHEMICAL RESULTS

231

To: Kerr, Dawson & Associates Ltd.,
1 - 219 Victoria St.,
Kamloops, B.C.
V2C 2A1

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
phone:253 - 3158

File No. 80-1011
Type of Samples Rocks
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Mo	Cu	As	Au
CR - 1	5	385	7	.005
2	11	80	4	.005
3	2	99	1	.005
4	16	1163	17	.030
5	2	80	4	.005
6	47	2569	4	.140
7	33	3360	9	.040
8	39	1344	16	.020
9	3	1394	17	.005
CR - 10	3	835	11	.005
L0+00 0+95E	2	528	10	.010
3+50	4	628	12	.005
6+50	2	105	10	.005
15+00E	3	47	9	.005
1+90W	2	238	3	.005
L0+00 3+05W	4	447	3	.005
BL 0+00	3	87	4	.005
0+05S 8+15E	3	113	9	.005
0+15N 2+00E	3	75	6	.005
L2N 4+45W	5	122	10	.005
L2N 6+50W	3	109	11	.005
L4N 7+40E	18	+3.0%	5	.005
L4+12N 2+35W	2	859	8	.005
6+20N 7+35W	3	717	6	.005
6+25N 4+80W	2	73	7	.005

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All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Sept. 8, 1980

DATE REPORTS MAILED Sept. 22, 1980

ASSAYER D. Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
phone:253 - 3158

To: Kerr, Dawson & Associates Ltd.,

File No. 80-1011
Type of Samples Soils
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

	SAMPLE No.	Mo	Cu	As	Au
0	0+50E	4	230	27	.015
	1	5	181	21	.005
	1+50	3	82	11	.005
	2	15	474	24	.025
	2+50	5	146	20	.010
	3	7	308	23	.025
	3+50	16	472	5804	.110
	4	4	113	35	.005
	4+50	6	260	31	.010
	5	6	217	14	.005
	5+50	18	661	36	.010
	6	5	221	19	.015
	6+50	4	160	33	.010
	7	8	296	33	.015
	7+50	9	281	50	.020
	8	5	234	75	.005
	8+50	5	218	51	.005
	9	7	191	44	.005
	9+50	5	210	110	.020
0	10 E	3	58	19	.005
0	10+50E	4	82	38	.005
	11	3	38	10	.005
	11+50	4	63	20	.005
	12	4	55	38	.005
	12+50	3	25	12	.005
	13	4	76	17	.005
	13+50	4	30	8	.005
	14	2	35	4	.005
	14+50	2	19	4	.005
0	15 E	4	44	7	.005
0	0	5	322	30	.005
	0+50W	4	124	13	.005
	1	4	133	7	.005
	1+50	9	271	14	.005
	2	5	96	10	.005
0	2+50W	25	521	18	.005

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ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

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phone:253 - 3158

To: Kerr, Dawson & Associates Ltd.,

File No. 80-1011
Type of Samples Soils
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

3 SAMPLE No.	Mo	Cu	As	Au
0 3 W	10	223	19	.005
3+50	13	337	26	.005
4	21	844	87	.010
4+50	14	278	58	.005
5	12	385	76	.015
5+50	6	161	52	.005
6	3	24	30	.005
6+50	3	65	26	.015
7	3	32	17	.005
7+50	3	57	21	.005
8	2	16	14	.005
8+50	3	24	20	.005
9	2	18	14	.010
9+50	4	19	4	.005
0 10 W	2	14	5	.005
2S 0+50W	6	324	22	.005
1	7	555	25	.005
1+50	5	88	8	.005
2	7	288	35	.045
2+50	7	174	26	.050
3	6	197	70	.010
3+50	23	372	32	.005
4	7	152	31	.010
4+50	7	200	44	.005
5	6	252	52	.005
5+50	6	236	82	.005
6	8	366	266	.005
6+50	5	214	194	.005
7	5	91	96	.005
7+50	3	50	34	.005
8	2	17	14	.005
8+50	3	38	20	.005
9	2	21	13	.005
9+50	3	70	20	.005
2S 10 W	3	158	44	.005

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ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B. C. V6A 1R6
phone:253 - 3158

To:Kerr, Dawson & Associates Ltd.,

File No. 80-1011

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

4

SAMPLE No.	Mo	Cu	As	Au	
2S 0	7	610	33	.005	1
0+50E	4	328	26	.005	2
1	5	574	29	.010	3
1+50	6	479	25	.005	4
2	5	157	19	.015	5
2+50	3	159	24	.005	6
3	6	193	14	.005	7
3+50	2	70	32	.005	8
4	3	215	27	.005	9
4+50	3	111	30	.005	10
5	4	239	44	.020	11
5+50	5	276	79	.005	12
6	3	179	23	.005	13
6+50	4	349	141	.020	14
7	6	300	71	.025	15
7+50	3	112	61	.015	16
8	3	113	92	.005	17
8+50	4	117	122	.005	18
9	3	134	101	.005	19
9+50	3	109	38	.010	20
10	2	55	39	.005	21
10+50	3	55	40	.005	22
11	2	43	23	.005	23
11+50	3	51	13	.005	24
12	2	24	4	.005	25
12+50	2	38	16	.005	26
13	2	28	7	.005	27
13+50	2	25	18	.015	28
14	2	27	15	.005	29
14+50	3	45	31	.015	30
2S 15 E	2	71	22	.005	31
					32
2N BL	6	139	14	.005	33
0+50W	4	36	8	.005	34
1	2	43	3	.005	35
1+50	12	175	15	.005	36
2	13	158	19	.005	37
2N 2+50W	10	444	19	.010	38
					39
					40

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DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
phone:253 - 3158

To: Kerr, Dawson & Associates Ltd.,

File No. 80-1011
Type of Samples Soils
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Mo	Cu	As	Au
2N 3 W	10	356	17	.005
3+50	13	249	58	.015
4	34	554	32	.010
4+50	20	402	23	.005
5	5	167	42	.005
5+50	6	447	271	.005
6	2	73	26	.010
6+50	3	145	41	.005
7	2	28	25	.005
7+50	2	19	20	.005
8	1	13	12	.015
8+50	1	12	6	.005
9	1	11	14	.015
9+50	1	9	9	.200
2N 10 W	1	13	12	.005
2N 0+50E	6	152	19	.005
1	3	93	33	.005
1+50	3	99	8	.005
2	4	67	12	.005
2+50	3	89	16	.005
3	3	79	19	.010
3+50	3	63	18	.005
4	6	201	25	.005
4+50	11	296	27	.020
5	8	245	24	.005
5+50	7	403	18	.010
6	4	230	29	.005
6+50	5	189	35	.005
7	4	169	43	.005
7+50	2	98	30	.005
8	3	129	37	.005
8+50	3	195	31	.005
9	3	135	21	.005
9+50	3	182	34	.005
10	2	99	17	.005
10+50	3	84	18	.005
2N 11 E	2	65	14	.005

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DIGESTION:

DETERMINATION:

DATE SAMPLES RECEIVED Sept. 8, 1980
DATE REPORTS MAILED Sept. 22, 1980

ASSAYER

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To: Kerr, Dawson & Associates Ltd.,

File No. 80-1011
Type of Samples Soils
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

6

SAMPLE No.	Mo	Cu	As	Au
2N 11+50E	3	54	20	.005
12	2	29	11	.005
12+50	2	32	11	.005
13	2	41	31	.005
13+50	3	30	13	.005
14	3	49	14	.005
14+50	2	36	10	.005
2N 15 E	2	47	13	.005
4S BL	2	56	39	.005
0+50W	4	180	27	.005
1	2	85	28	.005
1+50	2	38	22	.005
2	2	40	11	.005
2+50	6	116	23	.005
3	4	46	42	.005
3+50	4	209	61	.015
4	7	436	41	.010
4+50	6	390	46	.005
5	5	332	194	.005
5+50	3	218	84	.005
6	N.S.			
6+50	3	198	62	.005
7	2	62	53	.005
7+50	3	99	101	.005
8	2	65	169	.005
8+50	2	43	52	.005
9	1	64	67	.005
9+50	2	56	147	.005
4S 10 W	1	43	28	.005
4S 0+50E	2	53	23	.005
1	2	43	29	.005
1+50	2	52	28	.005
2	2	37	17	.005
2+50	2	45	15	.005
3	2	42	12	.005
4S 3+50E	3	75	16	.005

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SAMPLE No.	Mo	Cu	As	Au	
4S 4 E	2	30	12	.005	1
4+50	3	62	31	.005	2
5	4	180	47	.005	3
5+50	6	132	77	.010	4
6	3	66	29	.015	5
6+50	5	138	54	.010	6
7	4	130	53	.005	7
7+50	3	150	143	.005	8
8	3	122	50	.005	9
8+50	3	94	21	.005	10
9	2	67	45	.005	11
9+50	2	41	32	.005	12
10	4	91	39	.005	13
10+50	2	44	9	.005	14
11	2	127	25	.005	15
11+50	2	30	15	.005	16
12	3	97	14	.005	17
12+50	3	31	15	.005	18
13	2	17	9	.005	19
13+50	4	19	26	.005	20
14	13	19	11	.005	21
14+50	2	18	3	.005	22
4S 15 E	3	23	6	.005	23
					24
4N BL	6	39	12	.005	25
0+50W	9	59	11	.005	26
1	11	207	31	.005	27
1+50	7	67	14	.005	28
2	27	367	39	.005	29
2+50	70	503	23	.005	30
3	9	68	14	.005	31
3+50	20	238	24	.010	32
4	21	800	26	.005	33
4+50	6	84	27	.005	34
5	4	145	17	.005	35
5+50	6	124	40	.005	36
6	4	58	28	.005	37
4N 6+50W	2	28	11	.005	38
					39
					40

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GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Mo	Cu	As	Au
4N 7 W	3	16	13	.005
7+50	2	13	13	.005
8	2	23	20	.130
8+50	3	32	23	.005
9	2	44	6	.005
9+50	1	6	7	.005
4N 10 W	2	13	8	.005
4N 0+50E	8	298	25	.005
1	6	168	18	.005
1+50	9	305	24	.005
2	12	645	27	.015
2+50	18	3023	15	.005
3	23	460	54	.005
3+50	19	338	17	.010
4	13	264	14	.005
4+50	11	243	10	.005
5	21	656	9	.015
5+50	25	1028	14	.020
6	49	979	9	.025
6+50	102	1465	16	.020
7	41	935	18	.035
7+50	44	2889	7	.040
8	5	113	11	.005
8+50	3	72	7	.005
9	5	83	17	.005
9+50	5	109	17	.005
10	5	79	10	.005
10+50	4	92	20	.005
11	4	117	10	.005
11+50	4	47	9	.005
12	4	80	70	.005
12+50	5	116	18	.005
13	7	248	23	.005
13+50	3	40	14	.005
14	3	34	15	.005
14+50 N.S.				
4N 15 E	2	9	4	.005

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Disposition

GEOCHEMICAL ASSAY CERTIFICATE

9

SAMPLE No.	Mo	Cu	As	Au
6S BL	2	36	37	.005
0+50W	2	57	18	.005
1	3	32	14	.005
1+50	7	174	40	.010
2	9	318	44	.015
2+50	8	114	95	.045
3	9	145	57	.005
3+50	5	81	60	.010
4	4	143	77	.005
4+50	4	88	50	.005
5	8	318	541	.015
5+50	7	477	144	.005
6	4	139	71	.005
6+50	7	285	195	.005
7	4	193	39	.005
7+50	4	96	131	.005
8	4	121	246	.005
8+50	1	90	14	.005
9	2	31	30	.005
9+50	2	23	10	.005
6S 10 W	3	37	69	.005
6S 0+50E	2	16	13	.005
1	2	40	22	.005
1+50	3	21	19	.005
2	2	28	18	.005
2+50	3	33	11	.005
3	3	22	13	.005
3+50	3	40	14	.005
4	3	32	18	.005
4+50	3	58	39	.005
5	4	41	53	.005
5+50	3	38	36	.005
6	3	39	28	.005
6+50	3	43	14	.005
7	3	51	17	.005
7+50	3	35	14	.005
6S 8 E	3	46	23	.005

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DETERMINATION:.....

DATE SAMPLES RECEIVED Sept. 13, 1980

DATE REPORTS MAILED Sept. 20, 1980

ASSAYER

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CHIEF CHEMIST
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File No. 80-1011
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GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Mo	Cu	As	Au
6S 8+50E	2	44	17	.005
9	3	36	11	.005
9+50	2	17	7	.005
10	2	65	5	.005
10+50	4	23	24	.005
11	2	62	11	.005
11+50	2	26	9	.005
12	3	12	7	.010
12+50	4	31	9	.005
13	3	23	9	.005
13+50	3	18	9	.005
14	3	33	11	.005
14+50	4	42	12	.005
6S 15 E	4	27	10	.005
6N BL	4	370	4	.005
0+50W	3	368	5	.005
1	12	647	10	.005
1+50	10	238	22	.005
2	7	89	12	.005
2+50	6	50	11	.005
3	6	67	14	.005
3+50	8	144	16	.005
4	10	167	25	.005
4+50	7	139	38	.010
5	5	44	20	.005
5+50	4	46	17	.005
6	3	62	19	.005
6+50	4	20	27	.005
7	3	38	18	.005
7+50	2	17	12	.005
8	3	61	13	.005
8+50	3	20	11	.005
9	2	12	10	.005
9+50	2	13	11	.005
6N 10 W	2	26	7	.020

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DIGESTION:

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File No. 80-1011

Type of Samples Soil

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

11	SAMPLE No.	Mo	Cu	As	Au	
6N	0+50E	5	89	16	.005	1
	1	11	214	22	.010	2
	1+50	10	2440	3	.005	3
	2	7	174	5	.010	4
	2+50	6	191	11	.005	5
	3	10	425	13	.005	6
	3+50	9	600	6	.010	7
	4	10	335	9	.005	8
	4+50	17	475	9	.010	9
	5	18	1245	12	.015	10
	5+50	16	625	9	.005	11
	6	14	520	12	.015	12
	6+50	12	320	15	.005	13
	7	10	370	11	.010	14
	7+50	8	270	14	.005	15
	8	11	214	34	.005	16
	8+50	18	370	14	.010	17
	9	10	365	12	.010	18
	9+50	8	345	11	.005	19
	10	24	1065	12	.010	20
	10+50	14	450	9	.020	21
	11	8	250	26	.005	22
	11+50	4	103	33	.005	23
	12	9	380	18	.010	24
	12+50	6	250	22	.005	25
	13	7	320	43	.020	26
	13+50	6	177	34	.010	27
	14	5	164	29	.020	28
	14+50	5	80	22	.005	29
6N	15 E	5	85	25	.010	30
						31
8S	BL	3	15	7	.020	32
	0+50W	2	11	7	.005	33
	1	2	14	14	.005	34
	1+50	4	90	162	.010	35
	2	4	107	31	.030	36
	2+50	3	30	19	.010	37
	3	5	41	26	.005	38
8S	3+50W	3	41	19	.005	39
						40

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SAMPLE No.	Mo	Cu	As	Au
8S 4 W	4	27	16	.005
4+50	5	67	82	.005
5	5	78	60	.010
5+50	3	34	11	.005
6	3	50	42	.005
6+50	3	73	36	.005
7	3	72	41	.005
7+50	2	24	9	.005
8	2	35	13	.005
8+50	2	125	8	.005
9	2	39	7	.005
9+50	3	21	30	.005
8S 10 W	2	16	19	.005
8S 0+50E	2	17	14	.005
1	4	45	155	.015
1+50	3	44	58	.005
2	4	65	185	.030
2+50	3	22	18	.005
3	3	30	25	.010
3+50	4	31	20	.005
4	3	19	31	.005
4+50	3	24	14	.005
5	3	19	14	.005
5+50	3	43	104	.005
6	3	40	22	.005
6+50	3	40	11	.005
7	3	26	12	.005
7+50	3	32	19	.005
8	2	22	9	.005
8+50	2	33	7	.005
9	2	15	8	.005
9+50	2	24	6	.005
10	3	33	18	.005
10+50	3	58	21	.010
11	2	14	5	.005
11+50	3	24	9	.005
8S 12 E	2	12	6	.005

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GEOCHEMICAL ASSAY CERTIFICATE

13

SAMPLE No.	Mo	Cu	As	Au	
8S 12+50E	2	25	6	.005	1
13	3	23	8	.005	2
13+50	3	14	7	.005	3
14	2	13	3	.005	4
14+50	2	11	4	.005	5
8S 15 E	4	10	6	.005	6
					7
8N 0+50W	9	29	4	.005	8
1	10	103	18	.005	9
1+50	6	80	17	.005	10
2	23	151	18	.005	11
2+50	19	280	11	.010	12
3	25	355	19	.005	13
3+50	9	260	21	.005	14
4	5	77	18	.005	15
4+50	9	285	22	.005	16
5	8	129	20	.005	17
5+50	8	210	27	.005	18
6	4	75	29	.005	19
6+50	5	70	17	.005	20
7	5	35	21	.005	21
7+50	3	28	17	.005	22
8	2	14	13	.005	23
8+50	3	48	17	.005	24
9	3	35	11	.005	25
9+50	3	145	10	.005	26
8N 10 W	2	21	10	.010	27
					28
8N BL	10	102	13	.005	29
0+50E	15	102	17	.005	30
1	156	255	3	.010	31
1+50	28	240	8	.010	32
2	8	153	16	.005	33
2+50	12	250	5	.010	34
3	16	285	12	.015	35
3+50	12	119	7	.005	36
4	7	190	12	.015	37
8N 4+50E	6	80	6	.005	38
					39
					40

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GEOCHEMICAL ASSAY CERTIFICATE

14

SAMPLE No.	Mo	Cu	As	Au
8N 5 E	10	325	10	.005
5+50	17	830	11	.010
6	12	435	7	.005
6+50	15	2280	10	.020
7	11	525	9	.030
7+50	9	250	8	.005
8	6	220	7	.005
8+50	33	2100	9	.050
9	16	470	9	.005
9+50	24	760	18	.005
10	16	425	21	.005
10+50	9	295	20	.005
11	7	210	19	.005
11+50	5	192	15	.005
12	9	380	64	.010
12+50	6	320	110	.005
13	5	174	50	.005
13+50	6	118	37	.005
14	4	87	23	.005
14+50	4	74	21	.005
8N 15 E	5	68	13	.005
10S BL	4	52	156	.010
0+50W	3	39	26	.005
1	4	28	24	.010
1+50	3	36	10	.005
2	3	38	13	.005
2+50	2	18	8	.005
3	3	400	37	.005
3+50	3	27	12	.005
4	3	15	7	.005
4+50	3	58	9	.005
5	4	33	17	.005
5+50	4	48	25	.005
6	3	26	15	.005
6+50	4	13	36	.005
7	3	23	16	1.500
10S 7+50W	3	101	18	.005

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File No. 80-1011
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Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Mo	Cu	As	Au
10S 8 W	2	16	10	.015
8+50	2	17	10	.005
9	2	16	10	.010
9+50	3	52	13	.010
10S 10 W	2	14	9	.005
10S 0+50E	3	30	72	.005
1	3	23	24	.005
1+50	3	18	14	.010
2	2	13	6	.005
2+50	2	14	8	.010
3	3	23	13	.005
3+50	2	41	14	.005
4	3	37	12	.005
4+50	2	42	6	.005
5	3	55	10	.005
5+50	3	41	35	.005
6	2	34	11	.005
6+50	3	34	10	.005
7	3	38	10	.010
7+50	2	23	8	.005
8	1	10	4	.005
8+50	2	10	7	.005
9	2	10	7	.005
9+50	2	9	5	.075
10	3	48	15	.010
10+50	3	34	13	.005
11	3	38	7	.005
11+50	3	37	9	.005
12	2	33	7	.005
12+50	1	7	4	.005
13	3	45	9	.005
13+50	3	31	10	.005
14	2	14	5	.005
14+50	2	12	7	.005
10S 15 E	2	17	9	.005

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To: Kerr, Dawson & Associates Ltd.,

File No. 80-1011
Type of Samples Soils
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

6

SAMPLE No.	Mo	Cu	As	Au	
10N 0+50W	7	56	19	.005	1
1	4	30	13	.005	2
1+50	4	48	13	.005	3
2	2	15	5	.005	4
2+50	3	65	9	.005	5
3	5	116	16	.005	6
3+50	2	20	7	.005	7
4	2	41	8	.005	8
4+50	3	54	12	.005	9
5	5	53	19	.005	10
5+50	3	29	7	.005	11
6	4	40	11	.005	12
6+50	3	37	9	.005	13
7	5	62	21	.005	14
7+50	5	49	18	.005	15
8	27	125	20	.005	16
8+50	8	186	18	.005	17
9	4	68	15	.005	18
9+50	3	42	17	.005	19
10N 10 W	2	18	7	.005	20
					21
10N BL	8	100	20	.010	22
0+50E	10	145	15	.005	23
1	12	102	11	.005	24
1+50	9	99	8	.005	25
2	26	116	12	.005	26
2+50	13	59	8	.005	27
3	26	82	10	.005	28
3+50	91	33	6	.005	29
4	13	36	2	.005	30
4+50	14	230	17	.005	31
5	11	425	8	.010	32
5+50	13	310	5	.010	33
6	15	425	9	.005	34
6+50	17	250	8	.010	35
7	14	940	13	.005	36
7+50	8	380	10	.005	37
10N 8 E	17	465	16	.005	38
					39
					40

All reports are the confidencial property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Sept. 8, 1980
DATE REPORTS MAILED Sept. 22, 1980

ASSAYER D. Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B. C. V6A 1R6
phone:253 - 3158

To: Kerr, Dawson & Associates Ltd.

File No. 80-1011
Type of Samples Soils
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Mo	Cu	As	Au
17 10N 8+50E	9	660	16	.010
9	8	280	14	.010
9+50	10	315	16	.010
10	11	305	17	.005
10+50	3	45	5	.005
11	6	141	16	.005
11+50	4	142	24	.005
12	5	123	29	.005
12+50	4	126	40	.010
13	5	67	18	.005
13+50	4	63	17	.005
14	4	69	14	.005
14+50	4	53	17	.005
10N 15 E	4	57	17	.005
12S BL	3	49	12	.005
0+50W	3	44	13	.005
1	3	59	11	.005
1+50	2	14	7	.005
2	2	40	10	.010
2+50	2	17	12	.005
3	4	51	9	.005
3+50	2	26	8	.005
4	2	375	25	.005
4+50	2	77	24	.005
5	3	390	32	.005
5+50	2	325	26	.005
6	3	117	32	.010
6+50	2	106	23	.005
7	2	130	24	.005
7+50	2	49	15	.005
8	2	85	20	.005
8+50	1	10	2	.005
9	2	16	8	.005
9+50	2	23	10	.025
12S10 W	2	18	10	.005

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phone:253 - 3158

To: Kerr, Dawson & Associates Ltd.

File No. 80-1011
Type of Samples Soils
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Mo	Cu	As	Au
12S 0+50E	4	63	11	.005
1	2	19	6	.005
1+50	2	16	11	.005
2	3	25	11	.005
2+50	3	25	11	.095
3	2	63	12	.005
3+50	3	22	12	.005
4	2	64	10	.005
4+50	2	42	8	.005
5	2	38	10	.005
5+50	3	36	9	.005
6	2	22	12	.005
6+50	3	57	9	.005
7	2	42	10	.005
7+50	2	51	7	.005
8	2	24	10	.005
8+50	3	16	17	.005
9	3	21	10	.005
9+50	2	40	9	.005
10	2	39	8	.005
10+50	2	14	8	.005
11	2	20	10	.005
11+50	2	15	9	.005
12	3	20	8	.005
12+50	3	27	13	.005
13	3	34	15	.055
13+50	3	44	11	.005
14	3	37	13	.005
14+50	2	14	6	.005
12S 15 E	3	28	11	.005
12N 0+50W	3	35	6	.005
1	6	89	12	.005
1+50	75	129	4	.005
2	10	172	12	.025
2+50	5	93	17	.015
3	7	260	12	.005
12N 3+50W	8	360	14	.015

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Sept. 8, 1980
DATE REPORTS MAILED Sept. 22, 1980

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
phone:253 - 3158

To: Kerr, Dawson & Associates Ltd.,

File No. 80-1011
Type of Samples Soils
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Mo	Cu	As	Au	
12N 4 W	4	70	18	.005	1
4+50	3	27	13	.005	2
5	3	23	14	.005	3
5+50	2	122	10	.005	4
6	2	20	10	.005	5
6+50	2	245	15	.005	6
7	3	47	14	.005	7
7+50	3	31	14	.005	8
8	3	37	15	.005	9
8+50	2	16	6	.005	10
9	2	17	7	.005	11
9+50	2	29	8	.005	12
12N 10 W	3	13	11	.005	13
					14
12N BL	8	85	10	.005	15
0+50E	6	194	15	.020	16
1	3	58	7	.005	17
1+50	3	63	7	.005	18
2	3	133	6	.005	19
2+50	7	164	13	.005	20
3	5	120	7	.005	21
3+50	6	122	7	.005	22
4	7	158	5	.005	23
4+50	4	350	5	.005	24
5	4	340	11	.005	25
5+50	4	88	10	.005	26
6	7	270	13	.005	27
6+50	7	270	33	.005	28
7	5	128	30	.005	29
7+50	6	142	39	.005	30
8	5	98	15	.025	31
8+50	5	141	17	.005	32
9	3	124	93	.015	33
9+50	8	410	19	.020	34
10	6	345	21	.005	35
10+50	5	105	25	.005	36
11	4	97	20	.005	37
12N 11+50E	3	113	16	.005	38
					39
					40

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Sept. 16, 1980
DATE REPORTS MAILED Sept. 22, 1980

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
phone:253 - 3158

To: Kerr, Dawson & Associates Ltd.

File No. 80-1011
Type of Samples Soils
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Mo	Cu	As	Au	
12N 12 E	3	90	20	.005	1
12+50	2	57	12	.005	2
13	2	83	24	.005	3
13+50	2	33	9	.005	4
14	2	48	15	.020	5
14+50	2	38	34	.080	6
12N 15 E	3	52	18	.005	7
					8
14S BL	2	29	10	.005	9
0+50W	2	34	10	.005	10
1	2	27	9	.005	11
1+50	2	16	8	.005	12
2	2	18	10	.005	13
2+50	1	15	6	.005	14
3	2	48	7	.005	15
3+50	2	18	9	.005	16
4	2	9	7	.005	17
4+50	2	11	6	.005	18
5	1	46	12	.005	19
5+50	2	14	10	.005	20
6	2	21	12	.005	21
6+50	2	11	9	.005	22
7	2	120	30	.015	23
7+50	2	345	31	.020	24
8	2	305	23	.010	25
8+50	1	14	5	.005	26
9	2	13	9	.005	27
9+50	2	23	11	.005	28
14S 10 W	2	24	12	.005	29
					30
14S 0+50E	2	16	9	.005	31
1	2	14	7	.005	32
1+50	2	6	6	.005	33
2	1	11	7	.005	34
2+50	1	8	5	.005	35
3	1	7	6	.005	36
3+50	1	37	6	.005	37
14S 4 E	1	42	3	.005	38
					39
					40

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Sept. 8, 1980
DATE REPORTS MAILED Sept. 22, 1980

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
phone:253 - 3158

To: Kerr, Dawson & Associates Ltd.,

File No. 80-1011

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Mo	Cu	As	Au
14S 4+50E	1	7	6	.005
5	2	26	12	.005
5+50	2	25	10	.005
6	2	12	8	.005
6+50	2	11	10	.005
7	2	12	9	.005
7+50	2	38	10	.005
8	2	22	10	.005
8+50	1	15	8	.005
9	2	10	8	.005
9+50	2	21	11	.005
10	2	23	10	.005
10+50	2	16	9	.005
11	2	11	7	.005
11+50	2	21	9	.005
12	2	16	8	.005
12+50	2	16	9	.005
13	2	21	11	.005
13+50	3	5	3	.005
14	2	23	11	.005
14+50	2	15	9	.005
14S 15 E	2	21	12	.005
16S BL	2	14	7	.005
0+50W	3	12	9	.005
1	3	43	9	.005
1+50	2	12	10	.005
2	1	7	8	.005
2+50	2	15	8	.005
3	2	174	7	.005
3+50	2	22	6	.005
4	1	14	7	.005
4+50	2	13	9	.005
5	2	20	13	.005
5+50	1	10	7	.005
6	2	147	13	.005
6+50	2	11	11	.005
16S 7 W	2	63	14	.005

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DIGESTION:

DETERMINATION:

DATE SAMPLES RECEIVED Sept. 16, 1980

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ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
phone:253 - 3158

To: Kerr, Dawson & Associates,
1 - 219 Victoria St.,
Kamloops, B.C.
V2C 2A1

File No. 80-1008
Type of Samples Rocks
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

Chita Creek Attn.: Mr. Werner Gruenwald

SAMPLE No.	Mo	Cu	As	Au
CR 11	2	28	14	.005
12	118	2200	10	.020
13	2	270	8	.010
14	4	210	16	.005
15	3	171	25	.090
16	3	37	10	.010
17	2	170	10	.005
18	3	43	10	.005
19	2	34	15	.005
20	3	39	11	.005
21	1	89	24	.005
22	5	111	16	.005
23	2	15	14	.005
24	11	420	3	.010
25	5	350	3	.010
26	56	360	3	.010
27	2	19	18	.010
28	7	56	29	.010
29	3	66	19	.005
30	3	42	8	.005
31	2	35	8	.005
CR 32	7	10	20	.005
L 2N 8+30 E	2	117	14	.005
L 2S 0+80 W	3	75	6	.005
1+94 W	2	45	10	.005
L 2S 3+65 W	3	53	9	.010
L 2S 1+50 E	1	122	4	.005
L 2S 3+60 E	2	30	16	.010
BL 2+30 S	2	156	7	.010
3+95S 5+70 E	4	31	36	.005
L 4S 3+73 E	2	67	8	.005
5+50W 6+50 E	3	485	11	.005

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Sept. 6, 1980
DATE REPORTS MAILED Sept. 27, 1980

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B. C. V6A 1R6
phone:253 - 3158

To: Kerr, Dawson & Associates Ltd.,

File No. 80-1008
Type of Samples Rocks
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Mo	Cu	As	Au
L-6N 3+50E	25	490	5	.020
8+45	3	86	10	.005
11+65	3	46	15	.005
12+85	2	106	14	.005
13+60E	4	62	9	.005
L-6N 14+05E	3	12	9	.005
L-6S 3+14W	9	42	12	.005
4+59	3	117	27	.005
5+10	1	39	11	.005
L-6S 7+13W	2	30	23	.015
L-6S 13+50E	2	22	9	.005
L-6S 14+50E	2	29	8	.005
6+05N 10+80E	2	59	54	.001
6+10N 10+00E	2	520	11	.010
6+10N 10+70E	8	93	17	.005
7+80S 2+00W	3	35	37	.010
7+82S 2+00W	2	52	25	.005
L-8S 3+50W	2	17	8	.005
L-8S 2+00E	2	93	34	.015
L-8S 11+27E	2	33	7	.005
BL 9+85S	2	35	56	.005
L-10N 14+95E	2	37	24	.005
11+45S 5+50E	1	48	7	.005
L-12N 13 E	2	44	10	.005
L-12S 9+55E	2	40	12	.005
BL 13+00S	2	37	6	.005
" 14+90S	2	46	8	.005
L-16S 1+50E	2	37	7	.005
L-16S 9+05E	2	24	8	.005

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DIGESTION:

DETERMINATION:

DATE SAMPLES RECEIVED Sept. 6, 1980

DATE REPORTS MAILED Sept. 27, 1980

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CERTIFIED B.C. ASSAYER

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852 E. Hastings St., Vancouver, B. C. V6A 1R6
phone:253 - 3158

To: Kerr, Dawson & Associates Ltd.,

File No. 80-1011
Type of Samples Soils
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Mo	Cu	As	Au
16S 7+50W	2	11	10	.005
8	2	14	9	.005
8+50	2	17	11	.005
9	2	10	8	.050
9+50	2	20	8	.005
16S 10 W	1	11	6	.010
16S 0+50E	2	45	9	.005
1	2	13	6	.005
1+50	2	45	9	.005
2	2	13	7	.005
2+50	2	16	5	.005
3	2	16	6	.005
3+50	2	23	9	.005
4	1	7	3	.005
4+50	2	9	7	.005
5	2	33	9	.005
5+50	2	33	13	.005
6	2	13	5	.005
6+50	3	40	13	.005
7	3	29	13	.005
7+50	2	12	5	.005
8	2	17	7	.005
8+50	2	9	7	.005
9	2	17	4	.005
9+50	1	15	8	.005
10	1	8	4	.005
10+50	2	29	10	.005
11	2	35	9	.005
11+50	2	25	9	.005
12	2	19	8	.005
12+50	2	22	7	.005
13	1	6	5	.005
13+50	2	24	9	.005
14	3	18	8	.005
14+50	1	20	4	.005
16S 15 E	2	20	7	.005

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DIGESTION:.....

DETERMINATION:.....

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DATE REPORTS MAILED Sept. 22, 1980

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

APPENDIX B

PERSONNEL

PERSONNEL

Field:

J. M. Dawson, P. Eng.	- Geologist	July 17, 18, 1980	1 1/2 days
W. Gruenwald, B. Sc.	- Geologist	August 20-30, 1980.	10 3/4 days

Office:

W. Gruenwald, B. Sc.	- Geologist	November 5, 7, 12, 13, November 19-21, 24, 28, December 2,3,4,	10 3/4 days
J. M. Dawson, P. Eng.	- Geologist	August 18, 1980	1/2 day
M. Dawson,	- Prospector	November 20, 21	1 1/2 days

RENEGADE MINERAL EXPLORATION SERVICES LTD.

John Dalin	- Field Assistant	August 19-30, 1980	11 1/2 days
Brent Jardine	- Field Assistant	August 19-30, 1980	11 1/2 days
Brian Baker	- Field Assistant	August 19-30, 1980	11 1/2 days

APPENDIX C

STATEMENT OF EXPENDITURES

STATEMENT OF EXPENDITURES

(1). LABOUR:

J. M. Dawson, P. Eng., 2 days @ $200.00/day	$ 400.00	
W. Gruenwald, B. Sc., 21 1/2 days @ $150.00/day	3,225.00	
M. Dawson, Prospector, 1 1/2 days @ $115.00/day	172.50	
Renegade Mineral Exploration Services. .	3,450.00	$ 7,247.50

(2). EXPENSES AND DISBURSEMENTS:

(a). Geochemical Analyses	5,260.15	
(b). Helicopter Charter (5.8 hrs.@ $350/hr, plus fuel)	2,218.50	
(c). Truck Rental (Renegade)	600.00	
(d). Camp Rental (Renegade)	100.00	
(e). Food and Camp Supplies	587.38	
(f). Field Supplies (Flagging, String, Sample Bags, Laths, Gas)	309.38	
(g). Freight, Map Enlargements, Secretarial, Printing, and Xeroxing	308.89	9,384.30
TOTAL HEREIN		$16,631.80

APPENDIX D

REFERENCES

REFERENCES

Malcolm, D. C., B.A. Sc. 1963 - Chita Creek Geological Report, Assessment Report No. 473.

Anderson, R. E., P. Eng. 1968 - Summary Report
Geochemical Soil Survey Program
Banner Mineral Claims
Assessment Report #1606.

Tipper, H. W. 1978 - Geological Survey of Canada.
Open File #534.
1"= 4 miles.

APPENDIX E

WRITER'S CERTIFICATE

Werner GRUENWALD, B. Sc.
Geologist

#1 - 219 VICTORIA STREET • KAMLOOPS, B.C. V2C 2A1 • TELEPHONE (604) 374-0544

CERTIFICATE

I, WERNER GRUENWALD, OF KAMLOOPS, BRITISH COLUMBIA, DO HEREBY

CERTIFY THAT:

(1). I am a geologist residing at 45 West Battle Street, Kamloops, British Columbia, and employed by Kerr, Dawson and Associates Ltd. of Suite #1 - 219 Victoria Street, Kamloops, B. C.

(2). I am a graduate of the University of British Columbia, B. Sc., (1972), and a fellow of the Geological Association of Canada. I have practised my profession for 8 1/2 years.

(3). I am the author of this report which describes the results of a geological and geochemical exploration programme carried out by myself under the supervision of James M. Dawson, P. Eng. on the Chita claims, Clinton Mining Division, British Columbia.

KERR, DAWSON AND ASSOCIATES LTD.,

GEOLOGICAL ASSOCIATION OF CANADA
W. GRUENWALD
FELLOW

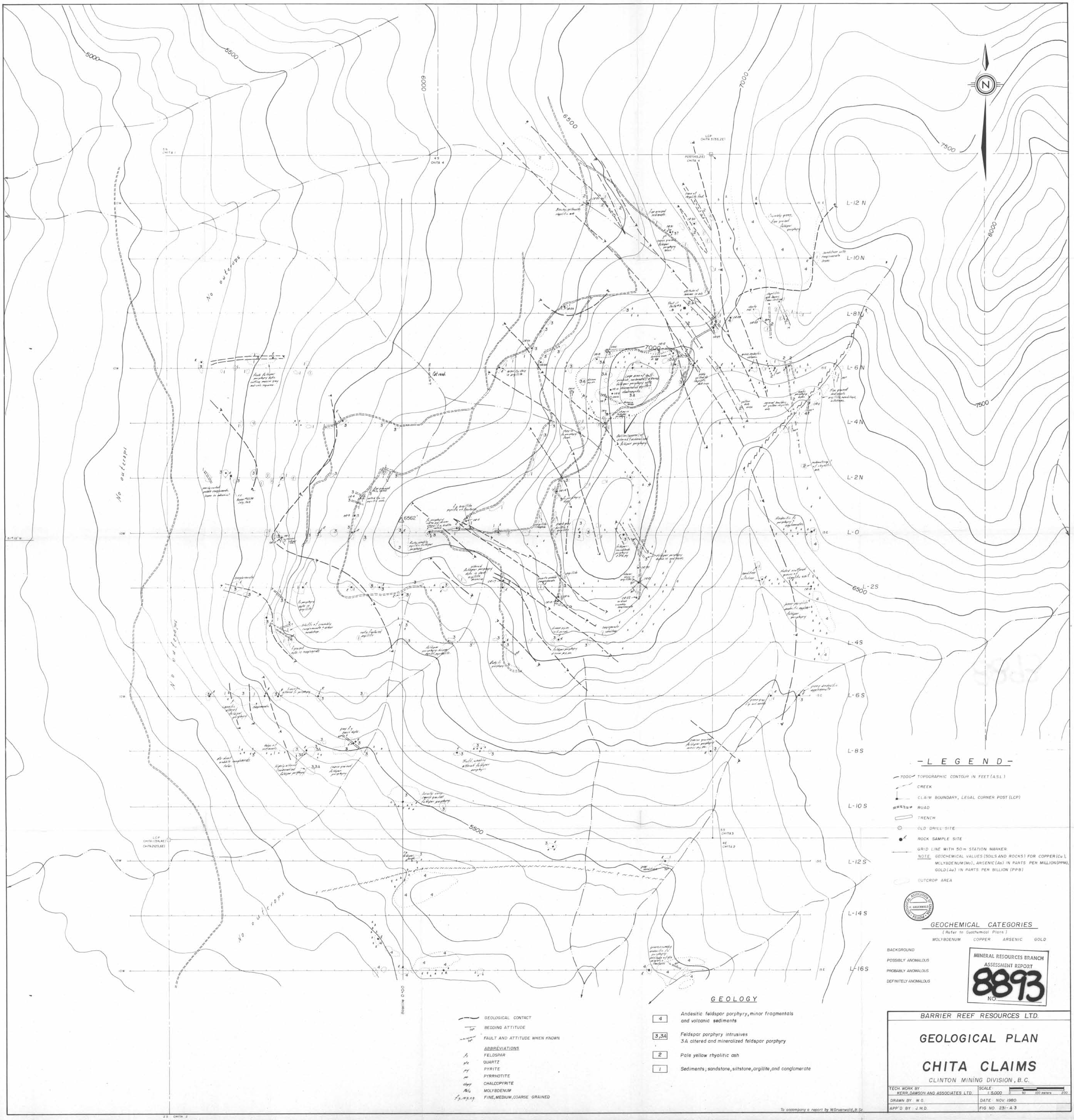
Werner Gruenwald

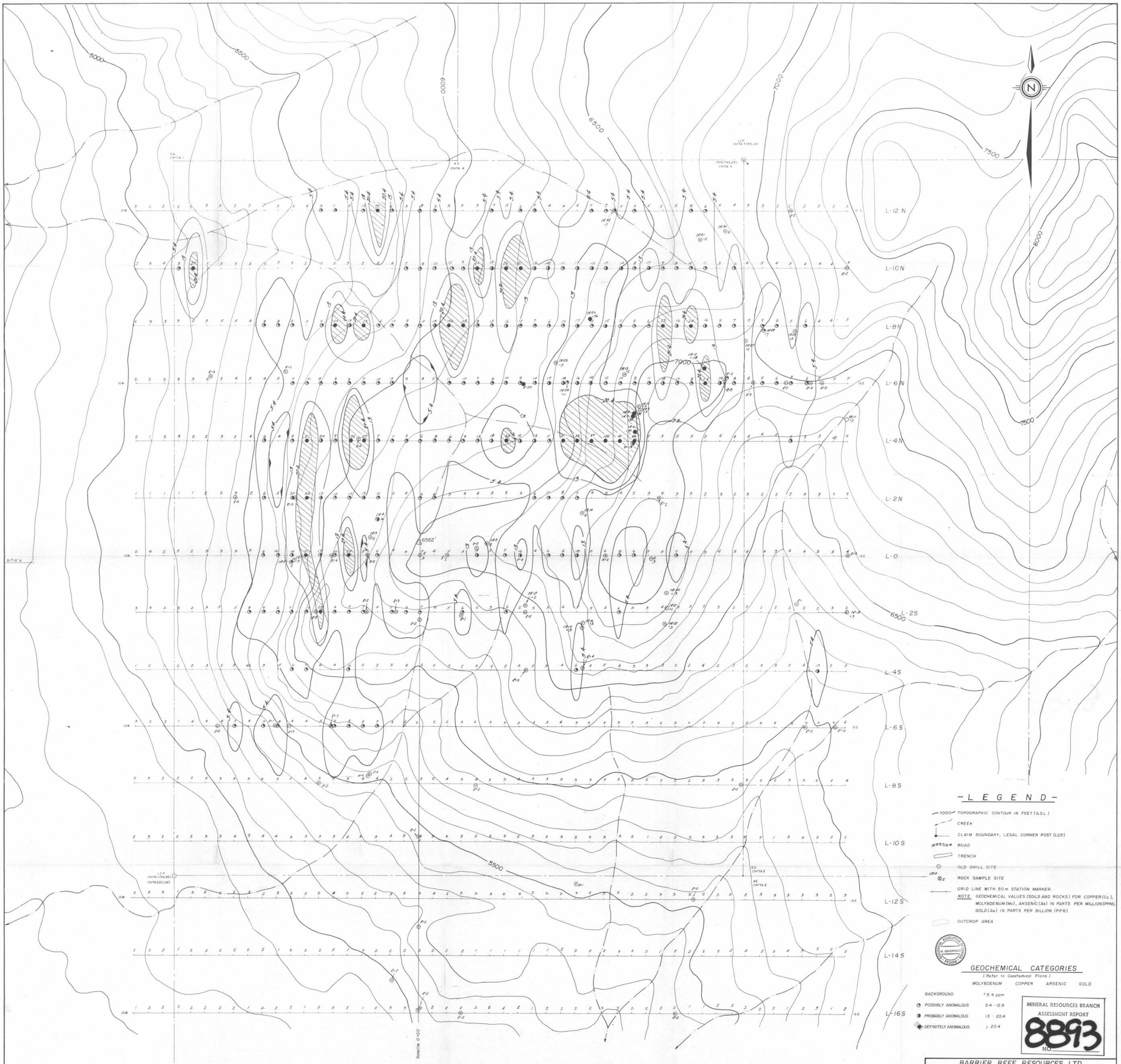
W. Gruenwald, B. Sc.,
GEOLOGIST

December 5th., 1980,
KAMLOOPS, B. C.

APPENDIX F

MAPS


5000
5500
6000
6500
7000
7500
8000
6562'
LCP
CHITA 3 (5S,2E)
POST (4S,2E)
CHITA 4
5N
CHITA 1
4S
CHITA 4
LCP
CHITA 1 (5N,4E)
CHITA 2 (2S,6E)
5S
CHITA 3
4E
CHITA 2
2S CHITA 2
L-12 N
L-10 N
L-8 N
L-6 N
L-4 N
L-2 N
L-0
L-2S
L-4S
L-6S
L-8S
L-10 S
L-12 S
L-14 S
L-16S
10W
15E
51° 15' N
No outcrops
No outcrops
No outcrops
Cat road.
Baseline 0+00
-LEGEND-
7000 TOPOGRAPHIC CONTOUR IN FEET (A.S.L.)
CREEK
CLAIM BOUNDARY, LEGAL CORNER POST (LCP)
ROAD
TRENCH
OLD DRILL SITE
ROCK SAMPLE SITE
GRID LINE WITH 50m STATION MARKER
NOTE: GEOCHEMICAL VALUES (SOILS AND ROCKS) FOR COPPER (Cu), MOLYBDENUM (Mo), ARSENIC (As) IN PARTS PER MILLION (PPM), GOLD (Au) IN PARTS PER BILLION (PPB)
OUTCROP AREA
GEOLOGICAL ASSOCIATION OF CANADA
W. GRUENWALD
FELLOW
GEOCHEMICAL CATEGORIES
(Refer to Geochemical Plans)
MOLYBDENUM COPPER ARSENIC GOLD
BACKGROUND
POSSIBLY ANOMALOUS
PROBABLY ANOMALOUS
DEFINITELY ANOMALOUS
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 8893
GEOLOGICAL CONTACT
BEDDING ATTITUDE
FAULT AND ATTITUDE WHEN KNOWN
ABBREVIATIONS
fs FELDSPAR
qtz QUARTZ
py PYRITE
po PYRRHOTITE
chpy CHALCOPYRITE
MoS2 MOLYBDENUM
f.g., m.g., c.g. FINE, MEDIUM, COARSE GRAINED
GEOLOGY
4 Andesitic feldspar porphyry, minor fragmentals and volcanic sediments
3,3A Feldspar porphyry intrusives 3A altered and mineralized feldspar porphyry
2 Pale yellow rhyolitic ash
1 Sediments; sandstone, siltstone, argillite, and conglomerate
BARRIER REEF RESOURCES LTD.
GEOLOGICAL PLAN
CHITA CLAIMS
CLINTON MINING DIVISION, B.C.
TECH. WORK BY KERR, DAWSON AND ASSOCIATES LTD.
SCALE 1:5,000 0 50 100 meters 200
DRAWN BY W.G.
DATE NOV. 1980
APP'D BY J.M.D.
FIG. NO. 231-A 3
To accompany a report by W.Gruenwald, B.Sc.



-LEGEND-

- 7000 TOPOGRAPHIC CONTOUR IN FEET (A.S.L.)
- CREEK
- CLAIM BOUNDARY, LEGAL CORNER POST (LCP)
- ROAD
- TRENCH
- OLD DRILL SITE
- ROCK SAMPLE SITE
- GRID LINE WITH 50m STATION MARKER.

NOTE GEOCHEMICAL VALUES (SOILS AND ROCKS) FOR COPPER (Cu), MOLYBDENUM (Mo), ARSENIC (As) IN PARTS PER MILLION (PPM), GOLD (Au) IN PARTS PER BILLION (PPB)

- OUTCROP AREA

GEOCHEMICAL CATEGORIES

(Refer to Geochemical Plans)

	MOLYBDENUM	COPPER	ARSENIC	GOLD
BACKGROUND	< 5.4 ppm			
POSSIBLY ANOMALOUS	5.4 - 12.9			
PROBABLY ANOMALOUS	13 - 20.4			
DEFINITELY ANOMALOUS	> 20.4			

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
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To accompany a report by W. Gruenwald, B.Sc.

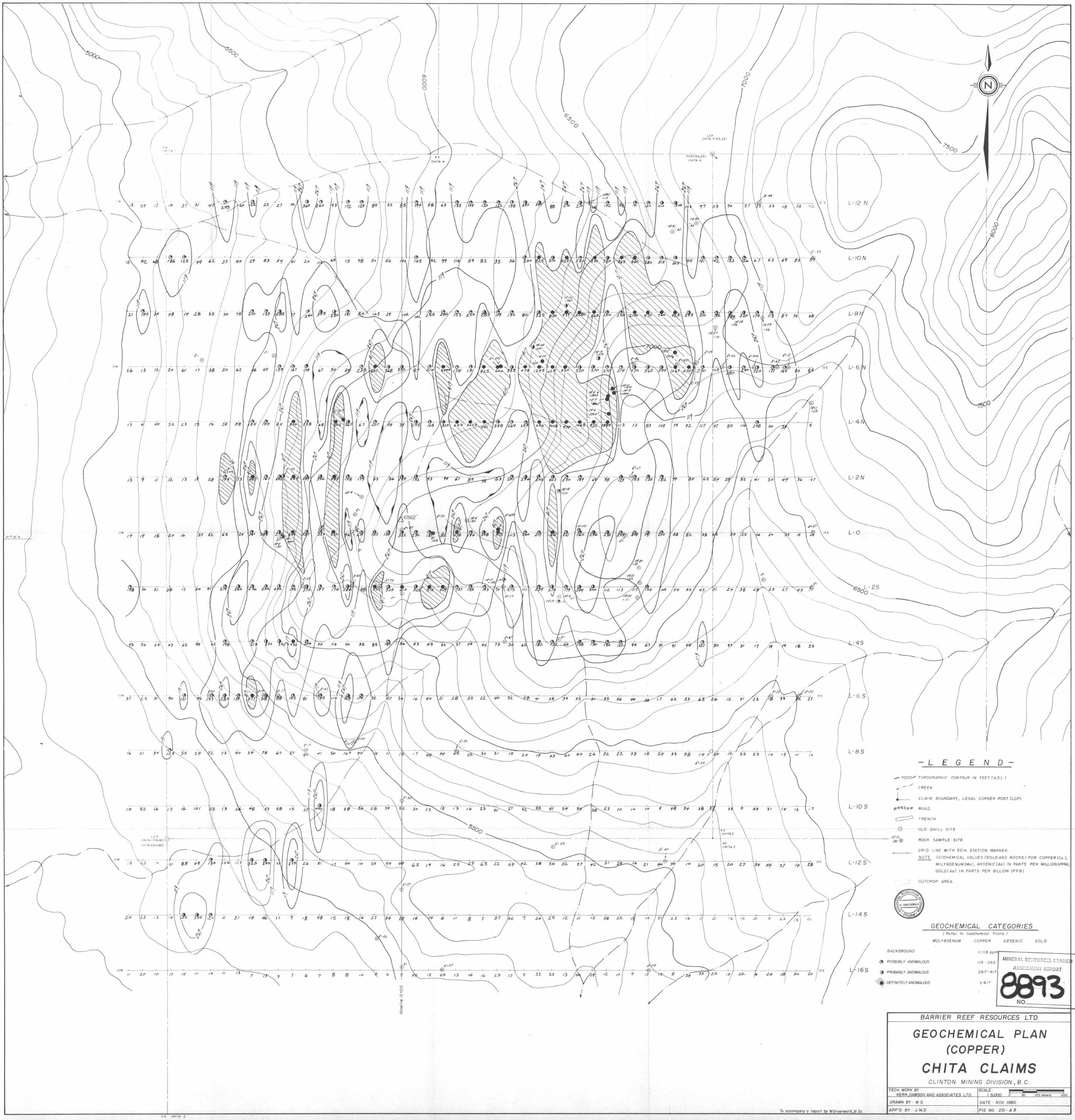
BARRIER REEF RESOURCES LTD.

GEOCHEMICAL PLAN (MOLYBDENUM)

CHITA CLAIMS

CLINTON MINING DIVISION, B.C.

TECH. WORK BY KERR, DAWSON AND ASSOCIATES LTD.	SCALE: 1:5,000 (0, 50, 100 metres, 200)
DRAWN BY: W.G.	DATE: NOV. 1980.
APP'D BY: J.M.D.	FIG NO. 231-A 4



-L E G E N D-

7000 TOPOGRAPHIC CONTOUR IN FEET (A.S.L.)

CREEK

CLAIM BOUNDARY, LEGAL CORNER POST (LCP)

ROAD

TRENCH

OLD DRILL SITE

ROCK SAMPLE SITE

GRID LINE WITH 50m STATION MARKER.

NOTE GEOCHEMICAL VALUES (SOILS AND ROCKS) FOR COPPER (Cu), MOLYBDENUM (Mo), ARSENIC (As) IN PARTS PER MILLION (PPM), GOLD (Au) IN PARTS PER BILLION (PPB)

OUTCROP AREA

GEOLOGICAL ASSOCIATION OF CANADA W. GRUENWALD FELLOW

GEOCHEMICAL CATEGORIES

(Refer to Geochemical Plans)

	MOLYBDENUM	COPPER	ARSENIC	GOLD
BACKGROUND		< 119 ppm		
POSSIBLY ANOMALOUS		119 - 266		
PROBABLY ANOMALOUS		267 - 417		
DEFINITELY ANOMALOUS		> 417		

MINERAL RESOURCES BRANCH ASSESSMENT REPORT NO. 8893

BARRIER REEF RESOURCES LTD.

GEOCHEMICAL PLAN (COPPER)

CHITA CLAIMS

CLINTON MINING DIVISION, B.C.

TECH. WORK BY KERR, DAWSON AND ASSOCIATES LTD.	SCALE 1:5,000 0 50 100 meters 200
DRAWN BY W.G.	DATE NOV. 1980
APP'D BY J.M.D.	FIG NO. 231-A5

To accompany a report by W.Gruenwald, B.Sc.

L-12 N
L-10N
L-8N
L-6 N
L-4N
L-2N
L-0
L-2S
L-4S
L-6S
L-8S
L-10S
L-12S
L-14S
L-16S

-LEGEND-

7000 TOPOGRAPHIC CONTOUR IN FEET (A.S.L.)
CREEK
CLAIM BOUNDARY, LEGAL CORNER POST (LCP)
ROAD
TRENCH
OLD DRILL SITE
ROCK SAMPLE SITE
GRID LINE WITH 50m STATION MARKER.
NOTE: GEOCHEMICAL VALUES (SOILS AND ROCKS) FOR COPPER (Cu), MOLYBDENUM (Mo), ARSENIC (As) IN PARTS PER MILLION (PPM), GOLD (Au) IN PARTS PER BILLION (PPB).
OUTCROP AREA

W. GRUENWALD — GEOLOGICAL ASSOCIATION OF CANADA — FELLOW

GEOCHEMICAL CATEGORIES
(Refer to Geochemical Plans)

	MOLYBDENUM	COPPER	ARSENIC	GOLD
BACKGROUND			< 23 ppm	
POSSIBLY ANOMALOUS			23 - 58	
PROBABLY ANOMALOUS			59 - 93	
DEFINITELY ANOMALOUS			> 93	

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8893
NO.

To accompany a report by W.Gruenwald, B.Sc.

BARRIER REEF RESOURCES LTD.

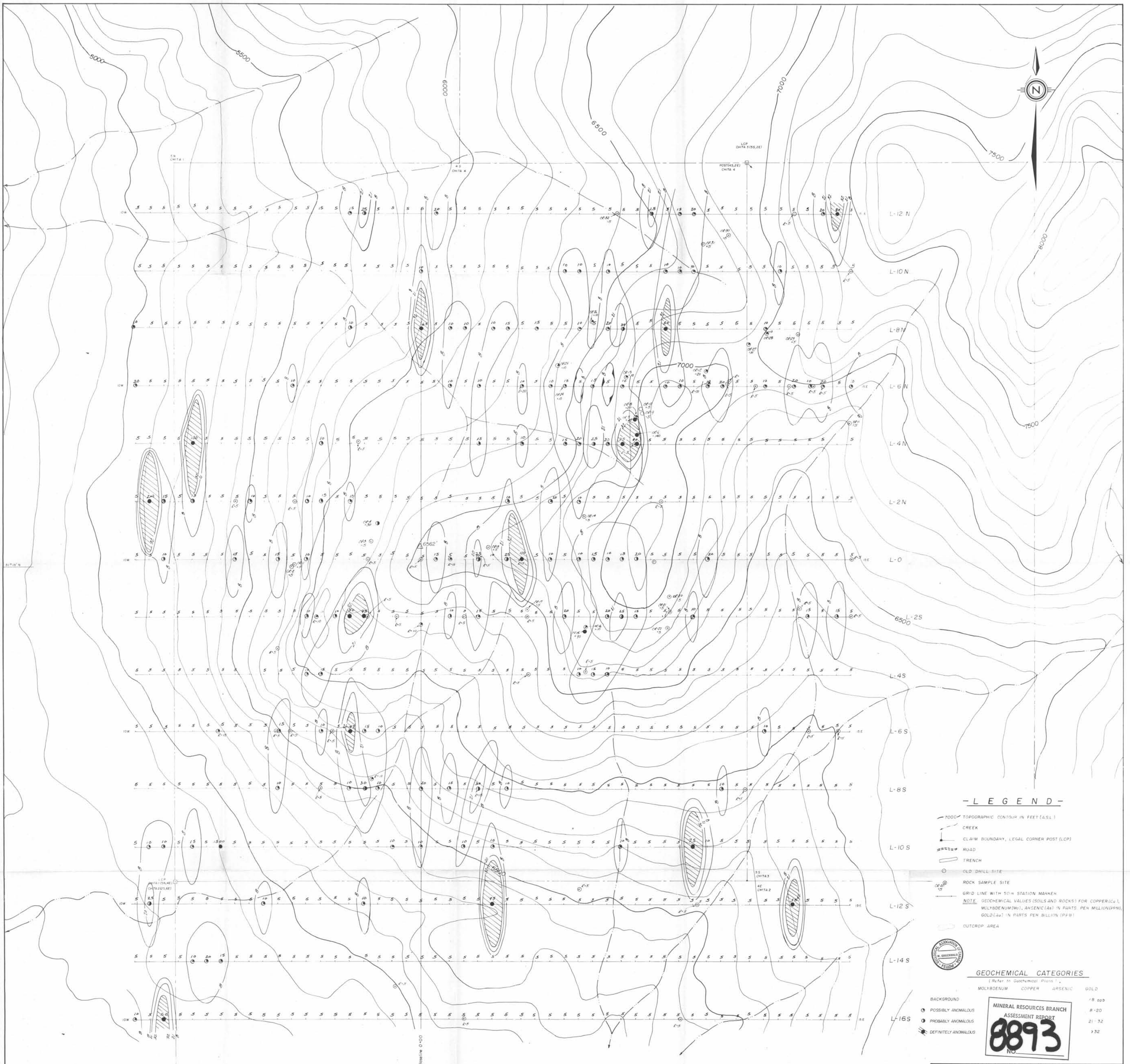
GEOCHEMICAL PLAN (ARSENIC)

CHITA CLAIMS

CLINTON MINING DIVISION, B.C.

TECH. WORK BY: KERR, DAWSON AND ASSOCIATES LTD.	SCALE: 1:5,000 (0, 50, 100 meters, 200)
DRAWN BY: W.G.	DATE: NOV. 1980.
APP'D BY: J.M.D.	FIG. NO. 231 - A 6

23 CHITA 2



-LEGEND-

- 7000 TOPOGRAPHIC CONTOUR IN FEET (A.S.L.)
- CREEK
- CLAIM BOUNDARY, LEGAL CORNER POST (LCP)
- ROAD
- TRENCH
- OLD DRILL SITE
- ROCK SAMPLE SITE
- GRID LINE WITH 50m STATION MARKER
- NOTE: GEOCHEMICAL VALUES (SOILS AND ROCKS) FOR COPPER (Cu), MOLYBDENUM (Mo), ARSENIC (As) IN PARTS PER MILLION (PPM), GOLD (Au) IN PARTS PER BILLION (PPB)
- OUTCROP AREA

W. GRUENWALD — GEOLOGICAL ASSOCIATION OF CANADA — FELLOW

GEOCHEMICAL CATEGORIES

(Refer to Geochemical Plans)

	MOLYBDENUM	COPPER	ARSENIC	GOLD
BACKGROUND				<8 ppb
POSSIBLY ANOMALOUS				8-20
PROBABLY ANOMALOUS				21-32
DEFINITELY ANOMALOUS				>32

BARRIER REEF RESOURCES LTD.

GEOCHEMICAL PLAN (GOLD)

CHITA CLAIMS

CLINTON MINING DIVISION, B.C.

TECH. WORK BY: KERR, DAWSON AND ASSOCIATES LTD.	SCALE: 1:5,000 (0 50 100 meters 200)
DRAWN BY: W.G.	DATE: NOV. 1980
APP'D BY: J.M.D.	FIG. NO. 231-A.7

To accompany a report by W.Gruenwald, B.Sc.