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GEOLOGICAL AND GEOCHEMICAL REPORT  
on the  
**RED CAP PROPERTY**  
**RED, CAP, GOAT, WET AND WILD MINERAL CLAIMS**

N.T.S. 104K/11E&W, 104K/14E&W

Latitude 58°45'N Longitude 133°15'W

ATLIN MINING DIVISION

<b>SUB-RECORDER RECEIVED</b>
OCT 01 1991
M.R. # ..... \$..... VANCOUVER, B.C.

owned by:

OMNI RESOURCES INC  
1272 West Pender Street  
Vancouver, B.C. V6E 2S8

operator:

INTERNATIONAL CORONA CORPORATION  
1440 - 800 West Pender Street  
Vancouver, B.C. V6C 2V6

September, 1991

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**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**

**21,687**

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## SUMMARY AND RECOMMENDATIONS

The Red Cap property is located on the south side of the Taku River in northwestern British Columbia, 90 kilometres south of Atlin and 75 kilometres east of Juneau, Alaska.

The property, comprising 12 claims covering 4,375 hectares, is underlain by a northwest trending succession of Stuhini Group mafic and felsic volcanic rocks, and clastic sedimentary rocks belonging to the King Salmon Formation. The volcanosedimentary sequence is intruded by small diorite and granodiorite bodies.

Porphyry copper-molybdenum mineralization associated with a granodiorite plug is widespread on the property, forming large gossans north and east of Red Cap Lake. A number of mineralized zones have been identified. The Slope Zone represents the Cu-Mo rich core to the porphyry system whereas the Ridge and East Cirque zones may represent peripheral and/or structurally controlled conduit zones. More recent work has identified a gold-enriched zone (PF zone), whose relation to the main part of the porphyry system has yet to be demonstrated.

Work in 1991 involved an appraisal of the ridges north of Red Cap Lake and an attempt to evaluate the PF zone. Sampling of the ridges above the main gossanous zones returned no significant base or precious metal values. Snow cover at elevation and within the cirque hosting the main mineralized zone prevented sampling of the PF grid in June. Recommendations for further work, including diamond drilling of the PF zone, will await further sampling of the property in late summer 1991.

## 1.0 INTRODUCTION

Exploration on the Red Cap property (Figure 1) in 1991 consisted of prospecting, installation of a modified grid and extensive rock sampling. The main objective of the 1991 program was to evaluate the extent of gold mineralization in a Cu-Mo porphyry system which underlies much of the property. The only previous examination for gold was a talus fines survey completed on contour lines.

A Corona crew visited the property in late June 1991 to examine gold and base metal distribution in the ridges north of Red Cap Lake. Snow cover was still heavy on the property following an unusually late spring, preventing examination of the lower portions and leeward sides of the property.

## 2.0 PROPERTY DESCRIPTION

The property consists of 12 claims totalling 175 units covering 4375 hectares (Figure 2). The claim ownership is 90% Omni Resources, 5% Berglynn Resources and 5% Alta Explorations. In June 1991, Corona Corporation acquired an option to earn a 60% interest in the Red Cap property through work and optional cash payments. Claim status is presented in Table 1.

### Property Location

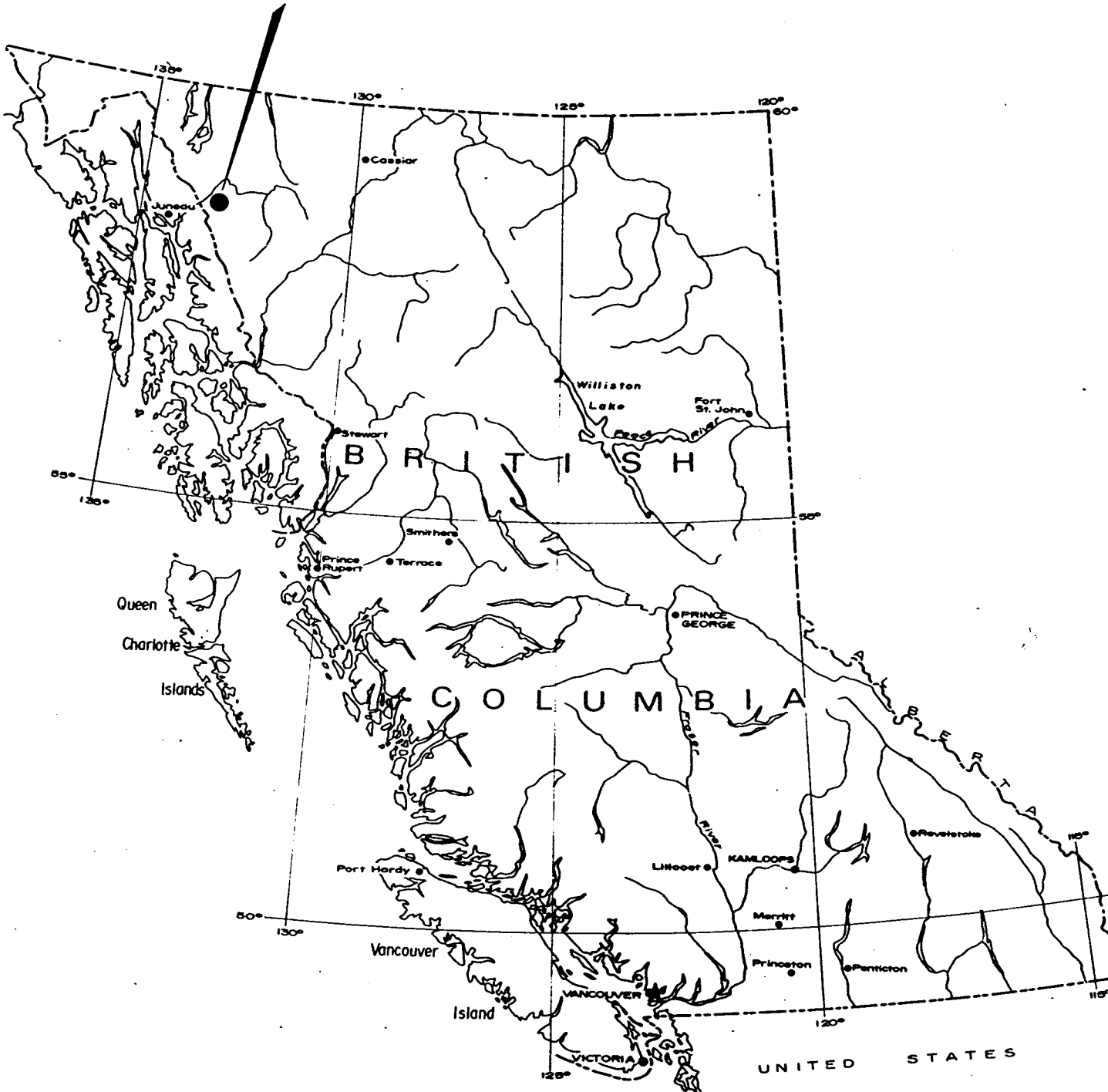


Figure 1.

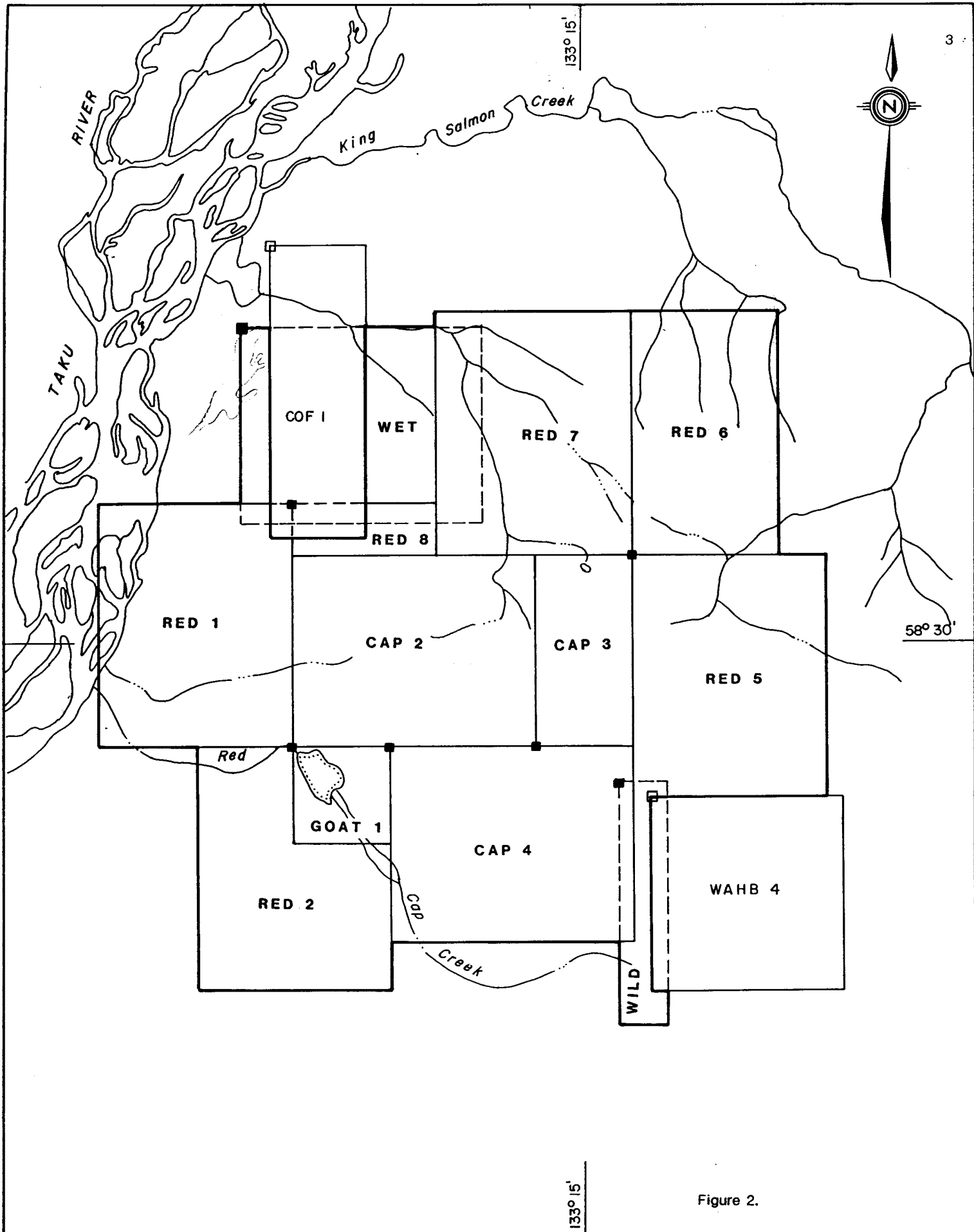
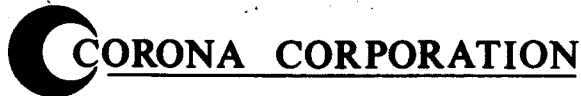


Figure 2.

**RED CAP PROPERTY**



**TABLE 1. MINERAL TITLE SUMMARY**

NAME	REC. #	UNITS	REC. DATE	EXPIRY
RED 1	3596	20	June 29, 1989	June 29, 1992
RED 2	3606	20	June 29, 1989	June 29, 1992
RED 5	3609	20	June 29, 1989	June 29, 1992
RED 6	3599	15	June 29, 1989	June 29, 1992
RED 7	3598	20	June 29, 1989	June 29, 1992
RED 8	3597	3	June 29, 1989	June 29, 1993
GOAT 1	570	4	Feb 28, 1979	Feb 28, 1994
CAP 2	1065	20	May 14, 1980	May 14, 1995
CAP 3	1936	8	July 14, 1983	July 14, 1994
CAP 4	1067	20	May 14, 1980	May 14, 1995
WET	300330	20	June 22, 1991	June 22, 1994
WILD	300329	5	June 22, 1991	June 22, 1995

note: Expiry dates upon approval of submitted report

### 3.0 LOCATION AND ACCESS

The Red Cap property is located in northwestern British Columbia in the Atlin Mining Division, 90 kilometres south of Atlin British Columbia and 75 kilometres northeast of Juneau Alaska. They are centred at 58° 45' latitude and 133° 15' longitude on N.T.S. map sheets 104K/11W and 104K/14W (Figures 2, 3).

There is no road access to the property and therefore it is most easily accessed by helicopter from Atlin. In addition, a gravel airstrip which services the Polaris-Taku and Tulsequah Chief



properties is located approximately 10 kilometres to the west at the confluence of the Taku and Tulsequah Rivers.

#### 4.0 PHYSIOGRAPHY

The area of the Red Cap Property is characterized by very rugged topography with steep sided valleys topped by serrated ridges and peaks. Maximum relief on the property is 2100 metres, ranging from 40 metres at the Taku River to 2140 metres at the Peak of Mt. Lester Jones (Figure 3).

Weather in the region is dominated by the warm wet pacific air which rises up over the Coast Mountains, causing unsettled weather patterns with high precipitation. Annual precipitation commonly exceeds 200 centimetres with abundant snowfall in the winter as well as typically wet summers. Snow can last well into July and return as early as late August but the field season can last into October.

#### 5.0 MINERAL OCCURRENCES

Placer activity in the Taku River Valley began in the 1870's and became quite active in 1897 and 1898 as the Klondike Rush drew larger numbers of people to the area. Years of prospecting proved fruitful with the discoveries of Tulsequah Chief, Big Bull and Polaris Taku during the 1920's. The combination of these properties provided near-continuous production in the area from 1937 to 1957 when Big Bull and Tulsequah Chief suspended operations due to low metal prices.

Both the Polaris-Taku and Tulsequash Chief properties are currently the focus of renewed exploration interest. Several other prospects are also being evaluated in the region, notably including the Eriksen-Ashby carbonate hosted massive sulphide skarn deposit.

Other deposits of note include the Mt. Ogden molybdenum deposit at Border Lake and a number of antimony occurrences in the Zohini-Stuhini-Taku River areas.

The Red Cap prospect forms a broad colour anomaly on the south side of the Taku River between Zohini and King Salmon Creeks. First referred to in the B.C. Minister of Mines annual report in 1931, the prospect is referred to as a silicified, carbonatized and pyritized zone centered on a small granodiorite stock. Alteration and mineralization extend up to 3,000 feet from the contacts between the stock and adjacent Stuhini Group volcanic and sedimentary rocks. This porphyry-style mineralization forms broad, well defined gossans on the ridges north and east of Red Cap Lake.

#### 6.0 PREVIOUS WORK

There is little information on the Red Cap prospect prior to the late 1970's. In the 1920's and 1930's prospectors in the Taku valley were attracted to the property by the large gossans above Red Cap Lake. Analyses of galena-bearing quartz veins at Red Cap published in the 1930 and 1931 Minister of Mines Annual Reports included assays of up 1.59 o.p.t. Au (cf. Wilkins and MacKinnon, 1989).

In 1971, Archer Cathro and Associates staked the MIKE claims and drilled 88 feet in five holes on the ridge north of Red Cap Lake. Omni Resources acquired the Goat claim in 1979 and staked the surrounding areas. In 1980, 43.45 km of grid was established and a 723 sample soil survey (talus fines) undertaken. Clouthier (1980) describes laterally and vertically broad anomalies in copper, molybdenum and silver; gold was not analyzed for.

In 1980, a single NQ sized diamond drill hole 172.3 metres in length was completed on the Cap 3 claim, on what is now the Bergie showing in the East Cirque. Also in 1980, Wahl described a zone of

quartz-actinolite-epidote-chlorite-tourmaline-calcite alteration in latites peripheral to a granodiorite stock at Red Cap Lake; this zone is referred to as Silica Cap.

In 1981, seven holes totalling 1203.6 metres of NQ drilling was completed. Holes RC81-1 through RC81-7 were drilled through a large Mo soil anomaly on what is termed the Slope Zone. Rayner (1981) suggests that drilling to date had been conducted within chlorite zone alteration and recommended drilling further north into the Silica Cap (cf. Figure 3).

In 1988, further soil and rock geochemical sampling was conducted north of and peripheral to the main zone of copper-molybdenum mineralization. A total of 205 rock, 242 soil and 16 silt samples were collected and analyzed for Cu, Zn, Pb, As, Au, Ag and Sb. Although a number of anomalous areas were identified, the Slope zone continued to be identified as the core of the porphyry system; subordinate zones (East Cirque, Ridge) were considered to be structurally controlled fluid conduits. Also in 1988 a short airborne magnetic and VLF survey was conducted by Western Geophysical Aero Data Ltd. Magnetic anomalies were interpreted as being related to granodiorite and diorite intrusives. A number of VLF conductors were identified; most were attributed to graphitic zones although a few were possibly related to mineralized structures in areas of known alteration/mineralization (Murton and Woods, 1988).

In 1989, Wesa (1990) conducted a brief contour soil sampling program around the northwest corner of Red Cap Lake. A total of 48 talus fines and 11 rock samples were collected from two contour lines (1,475 metres).

## 7.0 GEOLOGY

Regional geology for the Tulsequah map area is presented by Souther in G.S.C. Memoir #362 (1971) (Figures 3, 4). The Red Cap property lies on the western edge of the Intermontane Belt where the Stikine Arch stretches northwesterly, east of the Coast Plutonic Complex. To the northeast of the Arch is the Atlin Horst which is a series of northerly trending anticlines found south and east of Tatsamenie Lake. These two major features are both packages of Permian rocks which are strongly folded and metamorphosed, and form the basement rocks in the region.

Between the exposed Stikine Arch and Atlin Horst is the southern extension of the Whitehorse Trough, which is found mainly in the Yukon Territory. The volcanic and sedimentary rocks comprising the trough are referred to as the Taku embayment in the Tulsequah area and were formed in a fore arc basin environment during Mesozoic times. Triassic Stuhini Group intermediate volcanic and sedimentary rocks dominate the embayment. The King Solomon Formation is the major sedimentary package within the Stuhini Group and consists mainly of mudstone, siltstone, greywacke with some conglomerate.

Late Cretaceous Sloko Group volcanic rocks are found along the eastern edge of the Coast Plutonic Complex. These rocks are dominantly intermediate to felsic volcanic flows and pyroclastic deposits. The Sloko Group unconformably cuts and overlies the older rocks of the Coast Plutonic Complex and Stikine Arch.

### **7.1 PROPERTY GEOLOGY**

The Red Cap property is underlain by northwest trending Stuhini Group felsic volcanic rocks and minor sedimentary rocks of the King Salmon Formation. These rocks show variably steep west dips in the cirque, distributed about a series of shallowly northwest plunging



Figure 4. Regional geology of the Taku River area (after Souther, 1971) (legend follows).

LEGEND

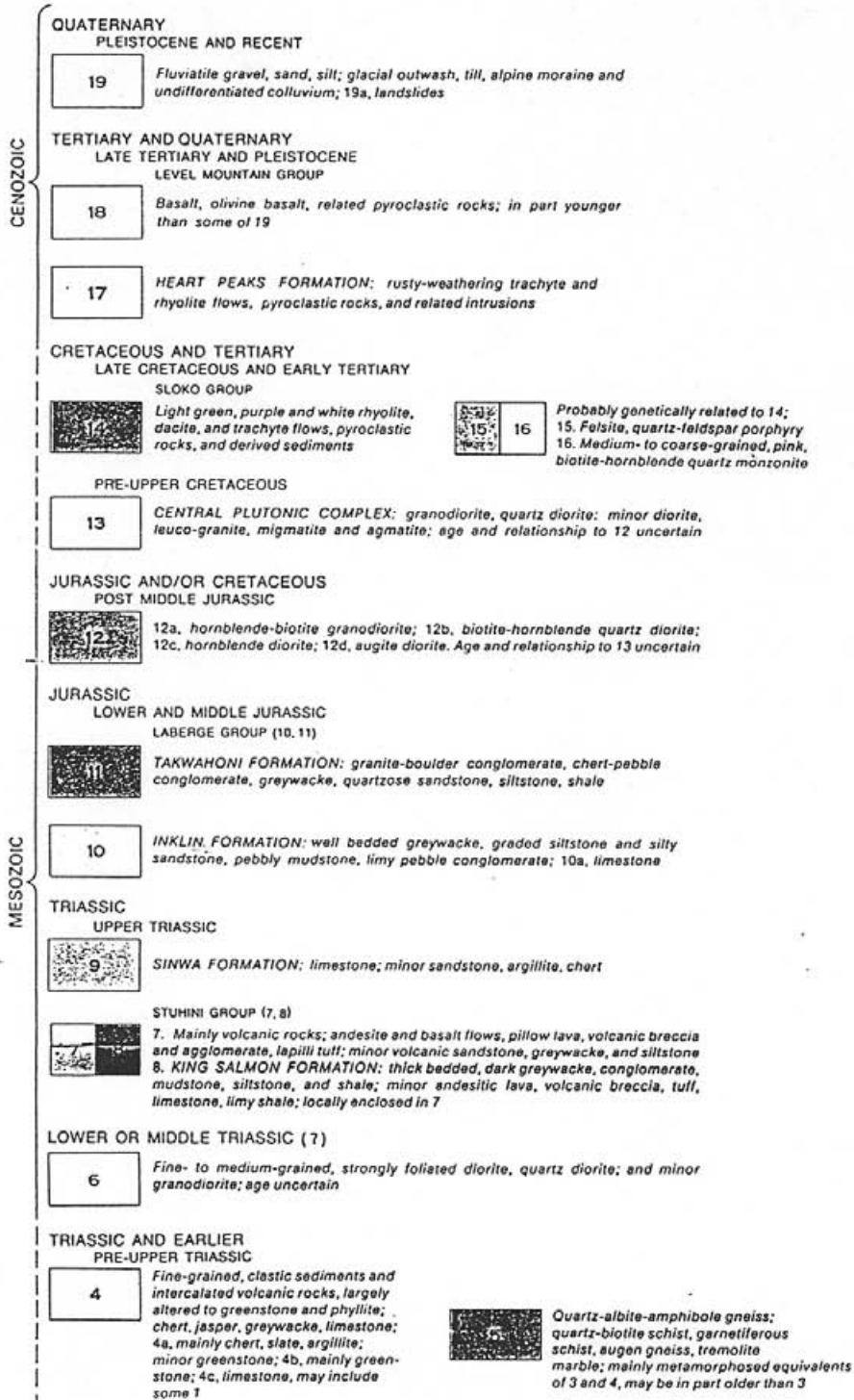
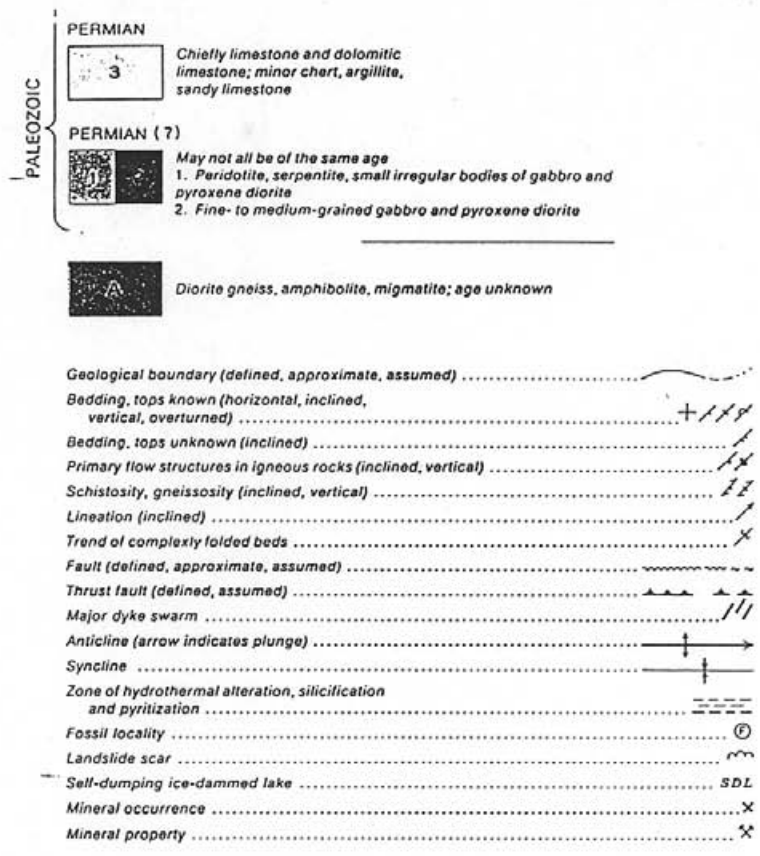


Figure 4 (cont). Legend for the geological map of Souther (1971).



**MINERALS**  
 (Lode occurrences only)

Antimony ..... Sb	Molybdenum ..... Mo
Asbestos ..... asb	Nickel ..... Ni
Copper ..... Cu	Silver ..... Ag
Gold ..... Au	Zinc ..... Zn
Lead ..... Pb	

**INDEX TO MINERAL PROPERTIES**

- |                    |              |
|--------------------|--------------|
| 1. Polaris Taku    | 8. Bing      |
| 2. Tulsequah Chief | 9. FAE       |
| 3. Big Bull        | 10. Nan      |
| 4. Ericksen-Ashby  | 11. Elaine   |
| 5. Red Cap         | 12. Surveyor |
| 6. B.W.M.          | 13. Council  |
| 7. Thorn           | 14. Baker    |

Geology by J.G. Souther 1958, 1959, 1960

Figure 4 (cont). Legend for the geological map of Souther (1971).



syncline-anticline pairs common in the King Salmon area. Felsic volcanic rocks are generally pale cream-grey and aphyric, and are described by Wesa (1990) as quartz latites and dacites. On the ridgetop, these rocks commonly contain 2-3% very fine grained pyrite associated with weak pervasive silicification. Relatively minor intermediate to mafic volcanic rocks are exposed in the study area, forming medium grained, slightly hornblende porphyritic flows. Interbedded with the volcanic sequences are narrow sections of quartz-biotite greywackes and lesser medium grained black silty mudstones.

The volcanosedimentary sequence is transected by at least two phases of intrusive activity. One major, and a number of smaller satellite granodiorite stocks occurs around, and north of Red Cap Lake. The granodiorite is coarsely crystalline, light grey and contains 10% mafic minerals. The intrusive is relatively fresh with only minor chloritization noted (cf. Wesa, 1990). Further to the southeast, a dioritic intrusive underlies the headwall of the cirque in the vicinity of Mt. Lester Jones.

#### 7.1.1 STRUCTURE

Faulting appears to be extensive on the Red Cap property as illustrated both by topographic lineaments and airborne geophysics. The largest structure appear to be an ENE striking fault located several hundred metres north of Red Cap Lake, and disrupting the northern contact of the granodiorite intrusive. It can be traced throughout the length of the property. A number of other faults striking between WNW to ENE are weakly expressed and traceable over relatively short distances with the aid of airborne geophysics. All rocks seen on the property possess a moderate to strongly developed subvertical cleavage. This fabric is broadly coplanar with the trace of northwest trending fold axes. Locally however, cleavage is warped into roughly northerly strikes, either from a late refolding event or more likely from drag about north striking



faults. In many locations outcrop is in the form of frost boil and true relations are difficult to discern.

## 7.2 MINERALIZATION

Most of the previous work on the Red Cap property has focussed in the area of Red Cap Lake known as the Slope zone, presumed to represent the core of a high level porphyry copper-molybdenum system. Peripheral to the main granodiorite intrusive, extensive zones of hornfelsing are accompanied by hydrothermal alteration and stockwork veining. In the Slope Zone, sheeted to stockwork quartz veining is intense, extending southwest through the Copper and Moly Creek areas. Although masked on surface by oxidation, secondary biotite and K-feldspar are noted as common along fractures in drill core (Wilkins and MacKinnon, 1990), accompanied by silica and tourmaline. Pyrite is the most common sulphide present, occurring as fine disseminations and as fracture fillings with or without quartz. In the Slope Zone, chalcopyrite is noted to be common in areas associated with intense quartz flooding. Molybdenite is widely distributed in narrow quartz veinlets.

Further to the north and east, through the Ridge, Ridge Extension and North Face zones, mineralization consists chiefly of disseminated fine grained pyrite in granodiorite, rhyolites, dacites and greywackes. Also common are narrow 10 cm vuggy quartz veins, which increase in density to the east toward the PF showing in the East Cirque Zone. In 1990, grab samples from the PF grid returned assays as high as 30.53 opt Au, 520.3 opt Ag, and 1.05% Cu. Minor amounts of arsenopyrite, sphalerite, pyrrhotite, galena, chalcopyrite and pyrite were identified in east- and northeast trending veinlet sets.

The Slope, Ridge and East Cirque Zones were considered by Wilkins and MacKinnon (1990) to be part of a single porphyry system. Slope Zone is characterized by copper-molybdenum mineralization in sheeted to stockwork veins, representing the 'core' of the system.

The Ridge and East Cirque zones are interpreted as structurally controlled conduits characterized by precious metal enriched base metal veins peripheral to the core.

## **8.0 1991 EXPLORATION PROGRAMS**

The purpose of the 1991 exploration program was to sample gossanous areas in the vicinity of Red Cap Lake

- 1) to evaluate the geological setting of mineralization and provide local check mapping
- 2) to systematically sample known mineralized zones for a complete suite of elements, specifically to test for gold distribution in the porphyry system.
- 3) evaluate the style and distribution of high grade gold mineralization encountered in previous programs (PF grid).

Due to prevailing snow conditions in late June, work was largely restricted to the ridges north of Red Cap Lake. These ridges occur above, and to a lesser extent within, broad gossanous zones which cover much of the northeast flank of the cirque. On these ridges, two small chain and compass grids (the 140 and 277 grids) were constructed to facilitate systematic sampling. Lines were turned from baseline at 50 metre intervals and samples of bedrock collected where possible at approximately 25 metre stations. In addition, a number of traverses were conducted on selected areas to sample as many accessible gossans as possible. It was also intended to sample the "PF" grid northeast of the ridges, but this could not be located due to snow. Work on this grid was the subject of a subsequent examination of the property in late summer 1991 by Corona.

## **8.1 RESULTS**

A total of 160 rock samples were collected and submitted to Bondar-Clegg Laboratories of Vancouver for analysis. Cu, Pb, Zn, As, Sb

and Mo were analysed by ICP methods; Au and Ag were analysed by one assay-ton Fire Assay methods. A summary of results is given on the following pages.

In general, surface sampling failed to return significant assays from most of the grid areas. Of the 160 samples, only four returned gold values in excess of 0.01 o.p.t. Au; three of these are from the southeastern portion of 140 grid (Figure 5), near the periphery of the PF zone. Nine samples returned values in excess of 1000 ppm copper, from both the 140 and 277 grids. Only one sample, taken from 13+10E, 10+75N on the 140 grid, returned a strong polymetallic signature, with 0.199 opt Au, 5.01 opt Ag, 1606 ppm Cu, 2333 ppm Pb, 1899 ppm Zn and >2000 ppm As.

Limited sampling was done on the 277 grid (Figure 6) due to extreme topography in the area. However a discontinuous zone of semi-massive pyrite mineralization was encountered in strongly chloritized mafic volcanic rocks just south of the 20+00N baseline. This mineralized zone is up to 3 metres wide and can be traced on surface for approximately 40 metres; on its east and west ends the shallowly southwest dipping zone can be visually traced through cliffs. Copper values in this zone range from 1520 to 2294 ppm .

The sampling suggests that the high elevation ridgetops above the main gossans are not favourable for significant copper mineralization. Further drilling will be required from lower elevations to evaluate the extent of copper mineralization. However, surface sampling did indicate that the PF zone of enhanced gold mineralization is present in the form of narrow, vuggy stockwork quartz veins. Elevated gold grades from sampling on the east end of 140 grid indicate that PF style mineralization extends some distance into the ridge areas. Snow cover prevented delineation of the size of the PF zone. Sampling of the PF grid will be conducted in late summer of 1991 as snow conditions allow.

TABLE 2: 1991 RED CAP SAMPLING PROGRAM

SAMPLE NUMBER	GRID	SAMPLE DESCRIPTION	GRID NORTH	GRID EAST	Au Assay opt	Ag Assay opt	Cu ICP ppm	Pb ICP ppm	Zn ICP ppm	As ICP ppm	Sb ICP ppm	Mo ICP ppm
65101		equigranular granodiorite			<0.002	<0.02	48	4	19	20	-5	-5
65102		equigranular granodiorite			0.004	<0.02	92	6	28	15	-5	-1
65103		equigranular granodiorite			0.003	<0.02	33	-2	13	-5	-5	-1
65104		equigranular granodiorite			<0.002	<0.02	7	3	12	-5	-5	-1
65105		equigranular granodiorite			<0.002	<0.02	6	38	85	8	-5	-1
65106		andesite, chloritic			<0.002	<0.02						
65107	140	altered granodiorite, 3% fg py	10+25	6+50	<0.002	0.03	107	22	66	-5	-5	42
65108	140	siliceous hornfels	10+25	6+35	<0.002	0.03	87	21	17	13	5	83
65109	140	siliceous rock, boil, 2% diss py	10+28	6+75	<0.002	0.05	23	30	32	13	-5	-1
65110	140	siliceous rock, boil, 2% diss py	10+15	6+75	<0.002	0.05	261	16	35	-5	-5	-1
65111	140	fine greywacke, 2% py	10+27	7+00	<0.002	0.08	223	80	23	11	7	-1
65112	140	siliceous rhyolite 2% py	10+00	7+25	<0.002	1.53	2851	154	104	189	2	-1
65113	140	rhyolite; 2% py tr Mo	10+00	7+53	<0.002	0.48	294	394	75	62	-5	8
65114	140	rhyolite, epidote, tr Mo	10+00	7+47	<0.002	0.03	35	21	52	10	-5	-1
65115	140	aphanitic rhyolite, 2% diss py	10+27	7+50	<0.002	0.03	82	16	59	-5	-5	-1
65116	140	fg rhyolite 2% fine pyrite	9+75	7+50	<0.002	0.12	147	24	46	-5	-5	-1
65117	140	gossanous rhyolite; 1-2% diss py	10+00	7+75	<0.002	0.07	73	19	18	8	6	-1
65118	140	rhyolite 1% py, tr Mo	9+85	7+75	<0.002	0.03	39	42	154	29	6	-1
65119	140	sericitic rhyolite, chlorite local; 8% py	10+08	7+80	<0.002	0.11	213	34	47	60	22	-1
65120	140	deeply weathered gritty rock, 8% py	10+08	7+80	0.003	0.15	188	32	40	37	13	-1
65121	140	as 65120 4% fine diss py	9+98	7+98	<0.002	0.1	498	11	32	20	-5	4
65122	140	as 65121 5% ine py dissem	9+90	7+98	<0.002	0.12	41	26	24	31	8	30
65123	140	white aphanitic felsic, 2% diss py	9+90	8+07	<0.002	0.05	70	10	29	21	-5	-1
65124	140	aphanitic rhyolite 5% idiobl. py	10+10	7+90	<0.002	0.14	743	9	69	19	6	-1
65125	140	rhyolite, strongly cleaved 3% py	10+10	8+20	<0.002	<0.02	218	5	37	9	-5	-1
65126	140	white, weathered granular rock, 3% py	10+00	8+25	<0.002	<0.02	28	8	20	13	6	-1
65127	140	as 65126, 3% py tr Mo	9+85	8+25	<0.002	0.18	1407	12	322	20	-5	-1
65128	140	med grey siliceous wacke, weak carbonate	9+27	8+50	<0.002	<0.02	55	13	70	17	8	1
65129	140	coarse siliceous wacke tr. py, Mo	8+80	8+30	<0.002	0.08	805	16	75	-5	-5	69
65130	140	unknown; granular whitish rock, 4% py	8+80	8+40	<0.002	0.07	947	20	87	14	6	85
65131	140	as 65130 at cliff	8+80	8+45	<0.002	0.09	346	34	41	-5	-5	57
65132	140	boil, deeply weathered rhyolite, 3% py	9+68	8+40	<0.002	<0.02	55	27	34	39	-5	2
65133	140	siliceous seds, subcrop, 1% py	9+84	8+45	<0.002	<0.02	116	11	26	-5	-5	-1
65134	140	rhyolite, sericitic, 3% py	10+28	8+50	<0.002	0.05	197	48	86	6	-5	-1
65135	140	aphanitic rhyolite 1% py	10+00	9+00	<0.002	<0.02	37	31	164	17	-5	-1
65136	140	siliceous wacke, tr. pyrite	9+75	9+00	<0.002	<0.02	35	6	67	14	-5	-1
65137	140	massive rhyolite; no sulphide	10+00	9+25	<0.002	<0.02	18	8	34	-5	-5	-1
65138	140	fine grained felsic intrusive	10+00	9+75	<0.002	<0.02	7	17	60	20	-5	-1
65139	140	as 65138; 2% fg py	10+00	9+50	<0.002	<0.02	25	17	47	-5	-5	-1
65140	140	talus grab; granodiorite	10+15	9+50	<0.002	<0.02	10	7	43	9	-5	-1
65141	140	mafic intrusive, chloritic	10+15	9+50	<0.002	<0.02	34	5	60	7	-5	-1
65142	277	mafic intrusive, 30% py	19+94	19+61	<0.002	0.1	2294	5	29	-5	-5	-1
65143	277	intermediate volcanic 5% py	19+97	19+64	<0.002	0.04	533	-2	19	147	-5	-1
65144	277	sericitic rhyolite 4% py	19+77	19+57	<0.002	0.14	593	8	8	-5	-5	-1
65145	277	strongly altered, ser-chl rock 3% py	19+80	19+72	<0.002	0.09	1562	4	18	46	-5	-1

TABLE 2: 1991 RED CAP SAMPLING PROGRAM

SAMPLE NUMBER	GRID	SAMPLE DESCRIPTION	GRID NORTH	GRID EAST	Au Assay opt	Ag Assay opt	Cu ICP ppm	Pb ICP ppm	Zn ICP ppm	As ICP ppm	Sb ICP ppm	Mo ICP ppm
65146	277	chloritic volcanic 3% py	19+95	19+74	<0.002	0.05	1741	5	48	181	-5	-1
65147	277	intermediate volcanic, 2% py+po	19+75	19+68	<0.002	0.14	2022	20	81	35	-5	-1
65148	277	as 65147; 1% py	19+75	19+50	<0.002	0.08	420	-2	-1	35	-5	-1
65149	277	rhyolite, 1% diss py	19+73	19+44	<0.002	0.06	2181	10	16	33	7	-1
65150	277	aphanitic rhyolite, sericite, 2% py	19+75	19+25	<0.002	0.05	302	5	19	6	-5	-1
65151	277	aphanitic rhyolite, 2% py	20+02	19+54	<0.002	0.09	744	3	40	35	-5	-1
65152		rhyolite, 1% diss py			<0.002	0.03	112	8	26	-5	-5	13
65153		gossanous rhyolite, 1% py			<0.002	0.03	350	31	8	-5	-5	-1
65154		granodiorite, fresh, no sulphide			<0.002	<0.02	34	9	36	14	-5	-1
65155		fine granodiorite, 5% py			<0.002	0.22	1165	16	32	41	-5	-1
65156		fine granodiorite, 1% py			<0.002	<0.02	40	10	21	15	-5	4
65234					<0.002	<0.02	15	24	46	-5	-5	-1
65235					<0.002	0.03	350	8	31	8		11
91MRC-001		silicified intrusive			<0.002	<0.02	74	9	15	42	-5	-1
91MRC-002		silicified dacite			<0.002	<0.02	43	3	22	60	-5	-1
91MRC-003		siliceous sediment 1% py			<0.002	<0.02	105	14	66	43	8	5
91MRC-004		greywacke, no sulphides			<0.002	<0.02	69	3	9	56	-5	-1
91MRC-005		silicified andesite			<0.002	<0.02	58	25	59	10	-5	-1
91MRC-006		core; silicified rock with 5% asp			0.041	0.21	59	1082	990	>2000	120	-1
91MRC-007	277	277 grid; silicified, limonitic	19+75	19+30	<0.002	<0.02	173	8	9	273	-5	9
91MRC-008	277	277 grid; argillized, weathered, 3% py	20+00	19+75	<0.002	0.14	756	10	8	139	5	-1
91MRC-009	277	277 grid; silicified dacite 3% py	20+70	19+50	<0.002	<0.02	81	8	34	24	-5	-1
91MRC-010	277	277 grid; andesite, 3% py	19+93	19+35	<0.002	0.06	349	-2	39	43	-5	-1
91MRC-011	277	277 grid; andesite, 15% py	19+95	19+25	<0.002	0.08	996	10	42	35	14	-1
91MRC-012	277	277 grid; siliceous dacite	20+50	19+23	<0.002	<0.02	94	3	25	8	-5	-1
91MRC-013	277	277 grid; siliceous dacite	20+00	18+95	<0.002	<0.02	61	29	16	34	6	15
91MRC-014	277	277 grid; siliceous dacite	20+00	18+68	<0.002	<0.02	106	6	5	51	-5	-1
91MRC-015	277	277 grid; andesite	19+92	18+75	<0.002	0.04	443	8	14	9	-5	-1
91MRC-016	277	277 grid; andesite, 1% py	20+25	20+05	<0.002	0.06	164	9	-1	-5	-5	-1
91MRC-017	277	277 grid; argillized, limonitic, 1% py	20+32	19+95	<0.002	0.04	92	6	5	6	7	-1
91MRC-018	277	277 grid; siliceous dacite	20+57	20+00	<0.002	<0.02	28	12	21	5	-5	-1
91MRC-019	277	277 grid; chloritized andesite	20+53	19+75	<0.002	0.03	122	8	38	7	7	-1
91MRC-020	277	277 grid; fine grained dacite, 5% py	20+50	19+50	<0.002	0.03	90	7	17	17	6	-1
91MRC-021	277	277 grid; dacite, 1% py	20+25	19+50	<0.002	0.05	399	12	22	8	8	2
91MRC-022		siliceous rhyolite, 1% py			<0.002	<0.02	50	5	55	6	-5	-1
91MRC-023		siliceous rhyolite, 1% py			<0.002	<0.02	21	4	14	27	-5	-1
91MRC-024		massive rhyolite, 1% py			<0.002	<0.02	63	6	14	13	-5	-1
91MRC-025		massive rhyolite, 1% magnetite			<0.002	0.14	403	8	40	26	-5	-1
91MRC-026		rhyolite, 3% diss po			<0.002	<0.02	42	9	14	10	-5	-1
91MRC-027		intrusive border phase			<0.002	0.04	43	29	157	21	-5	-1
91MRC-028		intrusive border phase			0.004	0.13	299	14	31	23	-5	11
140 GRID	140	140 grid grab sample	11+00	10+00	<0.002	<0.02	38	35	50	16	-5	-1
140 GRID	140	140 grid grab sample	10+75	10+00	<0.002	0.03	65	86	58	31	-5	-1
140 GRID	140	140 grid grab sample	10+50	10+00	<0.002	<0.02	26	51	76	14	-5	-1
140 GRID	140	140 grid grab sample	10+25	10+00	<0.002	0.07	35	358	440	15	5	-1

TABLE 2: 1991 RED CAP SAMPLING PROGRAM

SAMPLE NUMBER	GRID SAMPLE DESCRIPTION	GRID NORTH	GRID EAST	Au Assay opt	Ag Assay opt	Cu ICP ppm	Pb ICP ppm	Zn ICP ppm	As ICP ppm	Sb ICP ppm	Mo ICP ppm
140 GRID	140 140 grid grab sample	10+00	10+00	<0.002	<0.02	28	35	77	27	5	-1
140 GRID	140 140 grid grab sample	9+75	10+00	<0.002	<0.02	40	26	65	26	-5	-1
140 GRID	140 140 grid grab sample	9+25	10+00	<0.002	0.04	43	41	87	52	8	-1
140 GRID	140 140 grid grab sample	9+00	10+00	<0.002	0.04	50	33	36	31	6	1
140 GRID	140 140 grid grab sample	11+25	10+50	<0.002	<0.02	19	8	48	17	5	-1
140 GRID	140 140 grid grab sample	11+00	10+50	0.003	0.16	80	40	35	118	-5	-1
140 GRID	140 140 grid grab sample	10+75	10+50	<0.002	<0.02	12	9	49	19	-5	-1
140 GRID	140 140 grid grab sample	10+50	10+50	<0.002	<0.02	7	13	45	10	-5	-1
140 GRID	140 140 grid grab sample	9+75	10+50	<0.002	<0.02	29	16	74	27	9	-1
140 GRID	140 140 grid grab sample	9+50	10+50	<0.002	<0.02	65	30	73	12	-5	-1
140 GRID	140 140 grid grab sample	9+75	11+00	<0.002	0.03	55	82	288	10	-5	-1
140 GRID	140 140 grid grab sample	9+50	11+00	0.017	0.04	69	27	190	16	-5	-1
140 GRID	140 140 grid grab sample	10+75	11+50	<0.002	0.1	74	194	367	46	-5	-1
140 GRID	140 140 grid grab sample	10+75 A	11+50	<0.002	0.03	36	65	48	11	11	-1
140 GRID	140 140 grid grab sample	10+25	11+50	<0.002	0.43	283	176	345	12	6	-1
140 GRID	140 140 grid grab sample	10+00	11+50	<0.002	0.06	132	50	65	187	17	-1
140 GRID	140 140 grid grab sample	9+75	11+50	<0.002	<0.02	11	11	71	-5	-5	-1
140 GRID	140 140 grid grab sample	9+50	11+50	<0.002	0.03	11	137	385	14	6	-1
140 GRID	140 140 grid grab sample	10+92	12+00	<0.002	0.05	149	70	245	24	-5	-1
140 GRID	140 140 grid grab sample	10+75	12+00	0.005	1.16	276	1376	125	20	5	-1
140 GRID	140 140 grid grab sample	10+50	12+00	<0.002	0.25	133	291	125	143	8	6
140 GRID	140 140 grid grab sample	10+25	12+00	<0.002	<0.02	46	23	157	12	-5	-1
140 GRID	140 140 grid grab sample	10+00	12+00	<0.002	0.07	159	147	343	30	5	5
140 GRID	140 140 grid grab sample	9+75	12+00	<0.002	0.04	143	22	127	9	6	-1
140 GRID	140 140 grid grab sample	9+50	12+00	<0.002	0.03	82	34	57	16	-5	-1
140 GRID	140 quartz vein subcrop	10+35	12+40	0.124	1.62	122	>10000	422	>2000	211	-1
140 GRID	140 140 grid grab sample	11+20	12+50	<0.002	0.03	40	131	81	118	10	-1
140 GRID	140 140 grid grab sample	11+00	12+50	<0.002	<0.02	68	55	62	51	-5	-1
140 GRID	140 140 grid grab sample	10+75	12+50	<0.002	<0.02	27	48	97	22	7	-1
140 GRID	140 140 grid grab sample	10+50	12+50	<0.002	<0.02	19	37	107	29	-5	-1
140 GRID	140 140 grid grab sample	10+25	12+50	<0.002	0.07	293	80	307	15	-5	-1
140 GRID	140 140 grid grab sample	10+00	12+50	<0.002	0.05	176	33	67	26	-5	3
140 GRID	140 140 grid grab sample	9+75	12+50	<0.002	0.11	160	36	50	12	-5	-1
140 GRID	140 140 grid grab sample	9+50	12+50	<0.002	0.07	175	33	75	54	-5	-1
140 GRID	140 140 grid grab sample	11+00	13+00	<0.002	0.3	302	104	97	278	7	-1
140 GRID	140 140 grid grab sample	10+75	13+00	<0.002	0.39	573	553	106	49	-5	-1
140 GRID	140 140 grid grab sample	10+50	13+00	<0.002	<0.02	16	20	62	10	-5	-1
140 GRID	140 140 grid grab sample	10+00	13+00	<0.002	0.07	139	33	53	64	-5	-1
140 GRID	140 140 grid grab sample	9+75	13+00	<0.002	0.03	69	20	55	42	-5	-1
140 GRID	140 140 grid grab sample	9+50	13+00	<0.002	0.03	79	22	45	34	-5	-1
140 GRID	140 140 grid grab sample	9+30	13+00	<0.002	0.04	139	71	152	62	-5	-1
140 GRID	140 140 grid grab sample	8+75	13+00	<0.002	0.07	309	94	58	46	-5	-1
140 GRID	140 quartz vein, 5% pyrite	10+75	13+10	0.199	5.01	1606	2333	1899	>2000	622	2
140 GRID	140 140 grid grab sample	9+00	13+40	<0.002	0.07	303	34	71	78	6	-1
140 GRID	140 140 grid grab sample	8+75	13+40	<0.002	0.05	281	21	43	41	9	-1

TABLE 2: 1991 RED CAP SAMPLING PROGRAM

SAMPLE NUMBER	GRID	SAMPLE DESCRIPTION	GRID NORTH	GRID EAST	Au Assay opt	Ag Assay opt	Cu ICP ppm	Pb ICP ppm	Zn ICP ppm	As ICP ppm	Sb ICP ppm	Mo ICP ppm
140 GRID	140	140 grid grab sample	11+30	13+50	<0.002	0.09	124	83	145	143	-5	-1
140 GRID	140	140 grid grab sample	11+00	13+50	<0.002	0.06	51	31	21	77	7	3
140 GRID	140	140 grid grab sample	10+75	13+50	<0.002	0.03	106	19	170	16	-5	-1
140 GRID	140	140 grid grab sample	10+50	13+50	<0.002	0.05	18	5	14	16	-5	-1
140 GRID	140	140 grid grab sample	10+25	13+50	<0.002	0.05	69	18	18	18	-5	3
140 GRID	140	140 grid grab sample	10+00	13+50	<0.002	0.04	116	33	35	15	-5	-1
140 GRID	140	140 grid grab sample	9+75	13+50	<0.002	0.05	62	28	10	29	7	-1
140 GRID	140	140 grid grab sample	11+00	13+90	<0.002	0.07	65	95	209	71	-5	-1
140 GRID	140	140 grid grab sample	9+75	13+90	<0.002	0.05	144	15	53	14	-5	-1
140 GRID	140	140 grid grab sample	11+45	14+00	<0.002	0.09	58	387	151	348	-5	-1
140 GRID	140	140 grid grab sample	11+25	14+00	<0.002	0.16	159	108	213	86	-5	-1
140 GRID	140	140 grid grab sample	10+75	14+00	<0.002	0.03	24	6	4	12	-5	-1
140 GRID	140	140 grid grab sample	10+50	14+00	<0.002	0.09	121	13	22	49	-5	-1
140 GRID	140	140 grid grab sample	10+25	14+00	0.006	0.59	150	559	535	822	-5	-1
140 GRID	140	140 grid grab sample	9+75	14+00	<0.002	<0.02	54	19	50	31	-5	-1
140 GRID	140	140 grid grab sample	9+25	14+00	<0.002	0.03	63	11	42	-5	-5	-1
140 GRID	140	140 grid grab sample	8+95	14+00	<0.002	0.05	388	17	46	8	-5	-1
140 GRID	140	140 grid grab sample	11+00	14+50	<0.002	<0.02	7	27	56	15	-5	-1
140 GRID	140	140 grid grab sample	10+75	14+50	0.004	0.4	122	276	320	143	7	11
140 GRID	140	140 grid grab sample	10+50	14+50	<0.002	<0.02	2	8	40	32	-5	-1
140 GRID	140	140 grid grab sample	10+25	14+50	<0.002	0.03	74	12	59	41	-5	-1
140 GRID	140	140 grid grab sample	8+50	14+50	<0.002	0.04	345	23	38	29	11	2
140 GRID	140	140 grid grab sample	8+35	14+50	<0.002	<0.02	1	7	28	-5	-5	-1
140 GRID	140	140 grid grab sample	9+55	14+55	<0.002	0.03	82	13	61	15	-5	13
140 GRID	140	140 grid grab sample	9+25	14+60	<0.002	<0.02	50	37	74	9	-5	-1

## 9.0 CONCLUSIONS AND RECOMMENDATIONS

The purpose of the 1991 sampling program was (i) to check sample surface gossans on ridges northeast of Red Cap Lake, specifically as a check on gold contents, (ii) to evaluate the style and extent of gold mineralization known to occur at the PF grid, (iii) continue sampling of alteration zones in the valley floor southeast of Red Cap Lake.

The property is underlain by volcanic and sedimentary rocks of the Stuhini Group. Felsic volcanic rocks and King Salmon Formation clastic sedimentary rocks dominate the upper elevations along ridges north of Red Cap Lake. The volcanosedimentary sequence is intruded by diorite and granodiorites. Hydrothermal fluids related to intrusive activity have produced broad, intense alteration zones and hornfelsing within enclosing rocks and major structures. The Slope Zone of sheeted and stockwork copper-molybdenum mineralization appears to be the core of a large porphyry Cu-Mo-Au system. The Ridge and East Cirque Zones, characterized by precious metal-bearing massive sulphide veins and stockworks, may represent structurally controlled fluid conduits peripheral to the main Slope Zone. Areas of pronounced gold enrichment, such as the PF zone, are also concentrated away from Slope Zone Cu-Mo mineralization (cf. Wilkins and MacKinnon, 1989).

On the ridges north of Red Cap Lake, both base and precious metal contents of gossanous zones were found to be low, and no further work is required in these areas. Snow conditions at higher elevations and within the center of the cirque prevented sampling of PF zone gold mineralization and of alteration zones in the vicinity of Red Cap Lake. Such sampling is the subject of further work on this property to be conducted in late summer 1991.



Recommendations are as follows

- 1) sample the PF zone in detail, to evaluate the breadth of gold enrichment, style of mineralization, its relation to the main porphyry core and plunge of the system
- 2) should sampling of PF grid be encouraging, a limited drill program of approximately 5,000 feet is recommended to test this zone. Such drilling would be in 3 to 4 steep holes, depending on attitude of the PF zone.
- 3) comprehensively sample the north side of the cirque as recommended by Wilkins and MacKinnon (1989) to establish vertical variations in mineralization. Such work would require experienced climbing geologists.

REFERENCES

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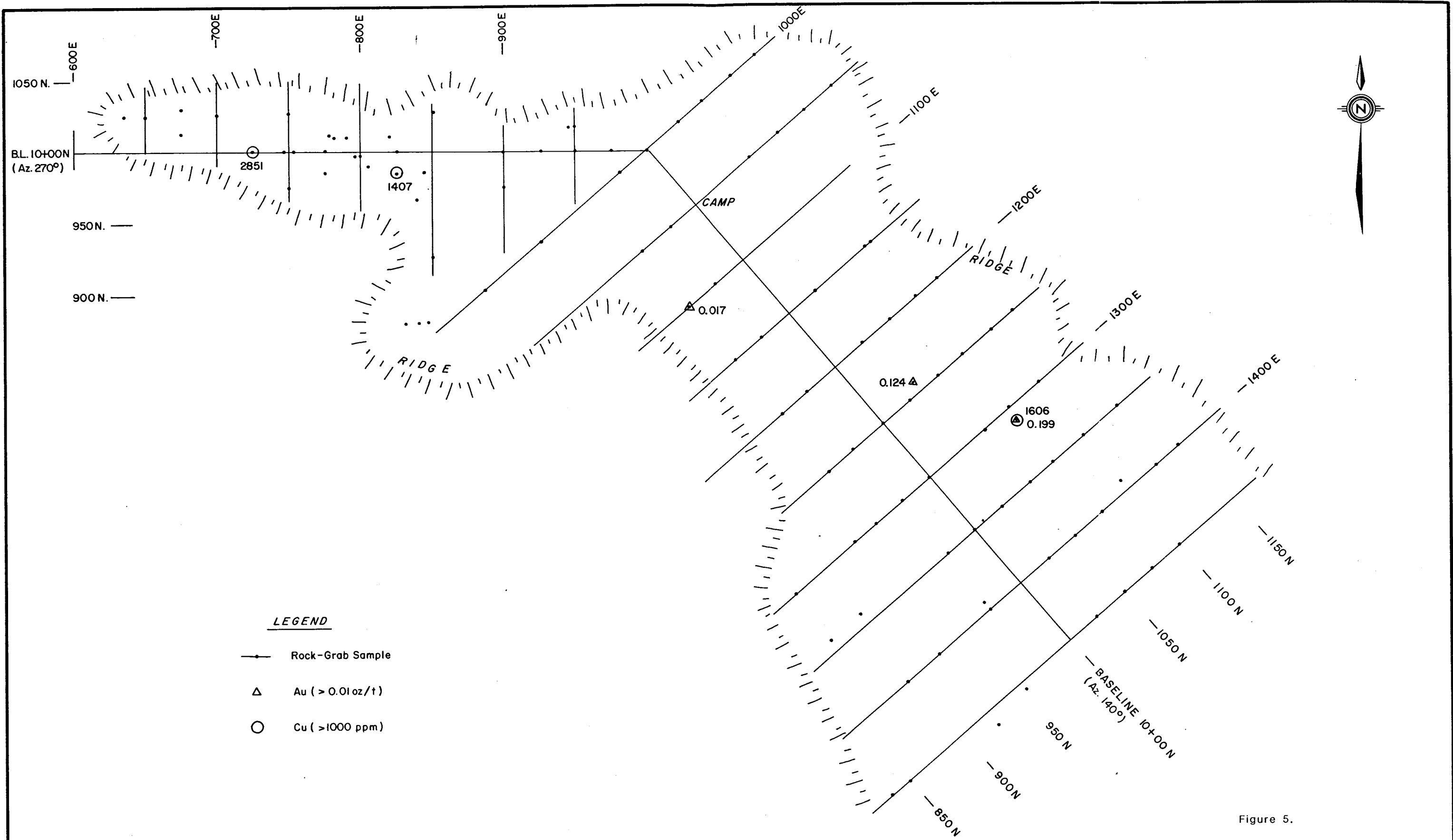
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Wesa, G.L., 1990. Geological and Geochemical Report on the Red Claims. Assessment Report for the B.C. Ministry of Energy, Mines and Petroleum Resources.

Wilkins, A.L., and MacKinnon, H.F., 1989. Geological and Geochemical Report on the Red Cap Prospect. Assessment Report for the B.C. Ministry of Energy, Mines and Petroleum Resources.

STATEMENT OF EXPENDITURES

SALARIES	
K. Rye - Geologist June 18-June 28 @ \$275/day	3025.00
M. Tindall - Geologist June 21-June 28 @ \$325/day	2600.00
A. Ransom - Assistant June 21-June 28 @ \$125/day	1000.00
HELICOPTER - 8.5 hours @ \$545/hr	4633.00
FUEL	2525.00
MOBILIZATION/ - crew and fuel DEMOBILIZATION	3645.00
ANALYTICAL -	2744.00
ACCOMMODATION 8 days @ \$150/crewday June 21-28 incl.	1200.00
FOOD	436.00
DRAFTING, REPRODUCTIONS	189.00
EXPEDITING	125.00
P.A.C. CREDITS APPLIED	1500.00
TOTAL	23622.00
	=====
TOTAL EXPENDITURES APPLIED TO CLAIMS	17500.00
BALANCE TO INTERNATIONAL CORONA CORPORATION'S P.A.C.	6122.00

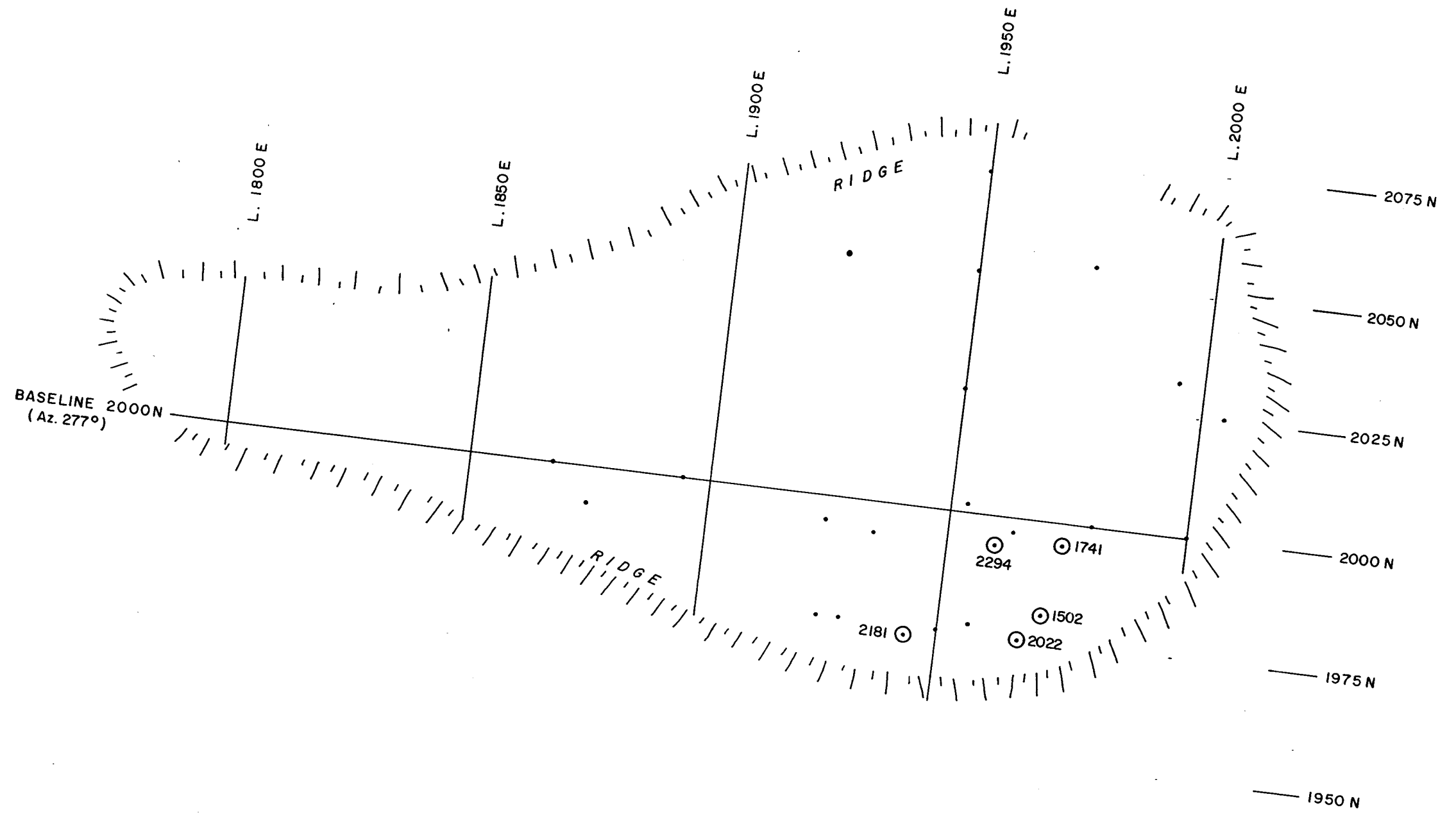
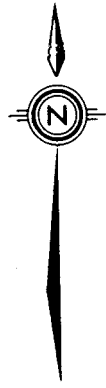


**LEGEND**

- Rock-Grab Sample
- △ Au (> 0.01 oz/t)
- Cu (>1000 ppm)

Figure 5.

			<b>RED CAP PROPERTY 140 GRID SAMPLE LOCATIONS</b>				
			DATE	OFFICE	DEPARTMENT	MAP INDEX NO.	SCALE
SEPT. / 1991						1: 2500	



**LEGEND**

- Rock-Grab Sample
- ⊙ 2022 Sample (Cu > 1000ppm)



Figure 6.

			<b>RED CAP PROPERTY 277 GRID</b>		
			<b>SAMPLE LOCATIONS</b>		
DATE	OFFICE	DEPARTMENT	MAP INDEX NO.	SCALE	DRAWING NO.
SEPT. / 1991				1:1000	

LIST OF PERSONNEL

KEN RYE - GEOLOGIST

June 18 through June 28

MARK TINDALL - GEOLOGIST

June 21 through June 28

ANDREW RANSOM - ASSISTANT

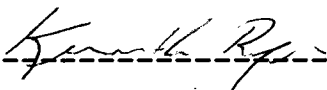
June 21 through June 28

**STATEMENT OF QUALIFICATIONS**

I, Kenneth Alan Rye, of #321-1333 Hornby St., Vancouver, B.C., certify that:

- 1) I am a graduate of the University of Waterloo with an Honours B.Sc. in Earth Sciences,
- 2) I am a graduate of the University of Western Ontario with an M.Sc. in Geology,
- 3) I hold the position of Project Geologist with International Corona Corporation, and was involved in the work performed on the Red Cap property presented in this report,
- 4) I have worked continuously in the mining exploration industry in various parts of Canada since 1980,
- 5) I have no interest either direct or indirect in this property.

Dated this twenty-fourth day of September, 1991

-----  
  
Kenneth A. Rye, M.Sc.

APPENDIX I

ASSAY CERTIFICATES



APPENDIX I

ASSAY CERTIFICATES AND  
SUMMARY OF ANALYTICAL METHODS

Bondar-Clegg & Company Ltd.  
 130 Pemberton Ave.  
 North Vancouver, B.C.  
 V7P 2R5  
 (604) 985-0681 Telex 04-352667



**Certificate  
 of Analysis**

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: V91-01305.4 ( COMPLETE )

REFERENCE INFO:

CLIENT: CORONA CORPORATION  
 PROJECT: NONE GIVEN

SUBMITTED BY: UNKNOWN  
 DATE PRINTED: 13-SEP-91

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	32	0.002 OPT		Fire Assay
2	Ag Silver	32	0.02 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	32	2 -150	32	CRUSH, PULVERIZE -150	32
				RE-BAG SAMPLE	32

REPORT COPIES TO: MR. KEN RYE

INVOICE TO: MR. KEN RYE

Bondar-Clegg & Company Ltd.  
 130 Pemberton Ave.  
 North Vancouver, B.C.  
 V7P 2R5  
 (604) 985-0681 Telex 04-352667



**Geochemical  
 Lab Report**

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: V91-01305.0 ( COMPLETE )

REFERENCE INFO:

CLIENT: CORONA CORPORATION  
 PROJECT: NONE GIVEN

SUBMITTED BY: UNKNOWN  
 DATE PRINTED: 13-SEP-91

ORDER	ELEMENT	NUMBFR OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Cu Copper	32	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
2	Pb Lead	32	2 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
3	Zn Zinc	32	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
4	As Arsenic	32	5 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
5	Sb Antimony	32	5 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
6	Mo Molybdenum	32	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BHD ROCK	32	2 -150	32	CRUSH, PULVERTIZE -150	32
				RE-BAG SAMPLE	32

REMARKS: ASSAY OF Cu >5000 PPM TO FOLLOW ON V91-01305.6

REPORT COPIES TO: MR. KEN RYE

INVOICE TO: MR. KEN RYE

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 29-JUL-91

REPORT: V91-00874.0 ( COMPLETE )

PROJECT: 1074

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM
R2 65101		48	4	19	20	<5	<1
R2 65102		92	6	28	15	<5	<1
R2 65103		33	<2	13	<5	<5	<1
R2 65104		7	3	12	<5	<5	<1
R2 65105		6	38	85	8	<5	<1
R2 65107		107	22	66	<5	<5	42
R2 65108		87	21	17	13	5	83
R2 65109		23	30	32	13	<5	<1
R2 65110		261	16	35	<5	<5	<1
R2 65111		223	80	23	11	7	<1
R2 65112		2851	154	104	189	22	<1
R2 65113		294	394	75	62	<5	8
R2 65114		35	21	52	10	<5	<1
R2 65115		82	16	59	<5	<5	<1
R2 65116		147	24	46	<5	<5	<1
R2 65117		73	19	18	8	6	<1
R2 65118		39	42	154	29	6	<1
R2 65119		213	34	47	60	22	<1
R2 65120		188	32	40	37	13	<1
R2 65121		498	11	32	20	<5	4
R2 65122		41	26	24	31	8	30
R2 65123		70	10	29	21	<5	<1
R2 65124		743	9	69	19	6	<1
R2 65125		218	5	37	9	<5	<1
R2 65126		28	8	20	13	6	<1
R2 65127		1407	12	322	20	<5	<1
R2 65128		55	13	70	17	8	1
R2 65129		805	16	75	<5	<5	69
R2 65130		947	20	87	14	6	85
R2 65131		346	34	41	<5	<5	57
R2 65132		55	27	34	39	<5	2
R2 65133		116	11	26	<5	<5	<1
R2 65134		197	48	86	6	<5	<1
R2 65135		37	31	164	17	<5	<1
R2 65136		35	6	67	14	<5	<1
R2 65137		18	8	34	<5	<5	<1
R2 65138		7	17	60	20	<5	<1
R2 65139		25	17	47	<5	<5	<1
R2 65140		10	7	43	9	<5	<1
R2 65141		34	5	60	7	<5	<1

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM
R2 65142		2294	5	29	<5	<5	<1
R2 65143		533	<2	19	147	<5	<1
R2 65144		593	8	8	<5	<5	<1
R2 65145		1562	4	18	46	<5	<1
R2 65146		1741	5	48	181	<5	<1
R2 65147		2022	20	81	35	<5	<1
R2 65148		420	<2	<1	35	<5	<1
R2 65149		2181	10	16	33	7	<1
R2 65150		302	5	19	6	<5	<1
R2 65151		744	3	40	35	<5	<1
R2 65152		112	8	26	<5	<5	13
R2 65153		350	8	31	8	<5	<1
R2 65154		34	9	36	14	<5	<1
R2 65155		1165	16	32	41	<5	<1
R2 65156		40	10	21	15	<5	4
R2 65234		15	24	46	136	7	<1
R2 65235		10	145	459	27	<5	11
R2 91MRC-001		74	9	15	42	<5	<1
R2 91MRC-002		43	3	22	60	<5	<1
R2 91MRC-003		105	14	66	43	8	5
R2 91MRC-004		69	3	9	56	<5	<1
R2 91MRC-005		58	25	59	10	<5	<1
R2 91MRC-006		59	1082	990	>2000	120	<1
R2 91MRC-007		173	8	9	273	<5	9
R2 91MRC-008		756	10	8	139	5	<1
R2 91MRC-009		81	8	34	24	<5	<1
R2 91MRC-010		349	<2	39	43	<5	<1
R2 91MRC-011		996	10	42	35	14	<1
R2 91MRC-012		94	3	25	8	<5	<1
R2 91MRC-013		61	29	16	34	6	15
R2 91MRC-014		106	6	5	51	<5	<1
R2 91MRC-015		443	8	14	9	<5	<1
R2 91MRC-016		164	9	<1	<5	<5	<1
R2 91MRC-017		92	6	5	6	7	<1
R2 91MRC-018		28	12	21	5	<5	<1
R2 91MRC-019		122	8	38	7	7	<1
R2 91MRC-020		90	7	17	17	6	<1
R2 91MRC-021		399	12	22	8	8	2
R2 91MRC-022		50	5	55	6	<5	<1
R2 91MRC-023		21	4	14	27	<5	<1

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM
R2 91MRC-024		63	6	14	13	<5	<1
R2 91MRC-025		403	8	40	26	<5	<1
R2 91MRC-026		42	9	14	10	<5	<1
R2 91MRC-027		43	29	157	21	<5	<1
R2 91MRC-028		299	14	31	23	<5	11
R2 L10+00E 11+00N		38	35	50	16	<5	<1
R2 L10+00E 10+75N		65	86	58	31	<5	<1
R2 L10+00E 10+50N		26	51	76	14	<5	<1
R2 L10+00E 10+25N		35	358	440	15	5	<1
R2 L10+00E 10+00N		28	35	77	27	5	<1
R2 L10+00E 9+75N		40	26	65	26	<5	<1
R2 L10+00E 9+25N		43	41	87	52	8	<1
R2 L10+00E 9+00N		50	33	36	31	6	1
R2 L10+50E 11+25N		19	8	48	17	5	<1
R2 L10+50E 11+00N		80	40	35	118	<5	<1
R2 L10+50E 10+75N		12	9	49	19	<5	<1
R2 L10+50E 10+50N		7	13	45	10	<5	<1
R2 L10+50E 9+75N		29	16	74	27	9	<1
R2 L10+50E 9+50N		65	30	73	12	<5	<1
R2 L11+00E 9+75N		55	82	288	10	<5	<1
R2 L11+00E 9+50N		69	27	190	16	<5	<1
R2 L11+50E 10+75N		74	194	367	46	<5	<1
R2 L11+50E 10+75N A		36	65	48	11	11	<1
R2 L11+50E 10+25N		283	176	345	12	6	<1
R2 L11+50E 10+00N		132	50	65	187	17	<1
R2 L11+50E 9+75N		11	11	71	<5	<5	<1
R2 L11+50E 9+50N		11	137	385	14	6	<1
R2 L12+00E 10+92N		149	70	245	24	<5	<1
R2 L12+00E 10+75N		276	1376	125	20	5	<1
R2 L12+00E 10+50N		133	291	125	143	8	6
R2 L12+00E 10+25N		46	23	157	12	<5	<1
R2 L12+00E 10+00N		159	147	343	30	5	5
R2 L12+00E 9+75N		143	22	127	9	6	<1
R2 L12+00E 9+50N		82	34	57	16	<5	<1
R2 L12+40E 10+35N		122	>10000	422	>2000	211	<1
R2 L12+50E 11+20N		40	131	81	118	10	<1
R2 L12+50E 11+00N		68	55	62	51	<5	<1
R2 L12+50E 10+75N		27	48	97	22	7	<1
R2 L12+50E 10+50N		19	37	107	29	<5	<1
R2 L12+50E 10+25N		293	80	307	15	<5	<1

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM
R2 L12+50E 10+00N		176	33	67	26	<5	3
R2 L12+50E 9+75N		160	36	50	12	<5	<1
R2 L12+50E 9+50N		175	33	75	54	<5	<1
R2 L13+00E 11+00N		302	104	97	278	7	<1
R2 L13+00E 10+75		573	553	106	49	<5	<1
R2 L13+00E 10+50		16	20	62	10	<5	<1
R2 L13+00E 10+00N		139	33	53	64	<5	<1
R2 L13+00E 9+75N		69	20	55	42	<5	<1
R2 L13+00E 9+50N		79	22	45	34	<5	<1
R2 L13+00E 9+30N		139	71	152	62	<5	<1
R2 L13+00E 8+75N		309	94	58	46	9	12
R2 L13+10E 10+75N		1606	2333	1899	>2000	622	2
R2 L13+40E 9+00N		303	34	71	78	6	<1
R2 L13+40E 8+75N		281	21	43	41	9	<1
R2 L13+50E 11+30N		124	83	145	143	<5	<1
R2 L13+50E 11+00N		51	31	21	77	7	3
R2 L13+50E 10+75N		106	19	170	16	<5	<1
R2 L13+50E 10+50N		18	5	14	16	<5	<1
R2 L13+50E 10+25N		69	18	18	18	<5	3
R2 L13+50E 10+00N		116	33	35	15	<5	<1
R2 L13+50E 9+75N		62	28	10	29	7	<1
R2 L13+90E 11+00N		65	95	209	71	<5	<1
R2 L13+90E 9+75N		144	15	53	14	<5	<1
R2 L14+00E 11+45N		58	387	151	348	<5	<1
R2 L14+00E 11+25N		159	108	213	86	<5	<1
R2 L14+00E 10+75N		24	6	4	12	<5	<1
R2 L14+00E 10+50N		121	13	22	49	<5	<1
R2 L14+00E 10+25N		150	559	535	822	19	<1
R2 L14+00E 9+75N		54	19	50	31	<5	<1
R2 L14+00E 9+25N		63	11	42	<5	15	<1
R2 L14+00E 8+95N		388	17	46	8	<5	<1
R2 L14+50E 11+00N		7	27	56	15	<5	<1
R2 L14+50E 10+75N		122	276	320	143	7	11
R2 L14+50E 10+50N		2	8	40	32	<5	<1
R2 L14+50E 10+25N		74	12	59	41	<5	<1
R2 L14+50E 8+50N		345	23	38	29	11	2
R2 L14+50E 8+35N		1	7	28	<5	<5	<1
R2 L14+55E 9+55N		82	13	61	15	<5	13
R2 L14+60E 9+25N		50	37	74	9	<5	<1

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STANDARD NAME	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM
GEO TRACE STD-2 1989		812	221	466	295	32	577
GEO TRACE STD-2 1989		796	223	480	337	50	568
Number of Analyses		2	2	2	2	2	2
Mean Value		804.0	222.0	473.1	315.8	41.0	572.5
Standard Deviation		11.31	1.41	9.29	29.44	12.73	6.36

Accepted Value		820	250	500	320	50	600
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ANALYTICAL BLANK		<1	<2	<1	<5	<5	<1
ANALYTICAL BLANK		<1	<2	<1	7	<5	<1
ANALYTICAL BLANK		<1	<2	<1	<5	<5	<1
ANALYTICAL BLANK		<1	<2	<1	<5	<5	<1
ANALYTICAL BLANK		<1	<2	<1	<5	<5	<1

Number of Analyses		5	5	5	5	5	5
Mean Value		0.5	1.0	0.5	3.3	2.5	0.5
Standard Deviation		0.00	0.00	0.00	1.82	0.00	0.00
Accepted Value		-	-	-	-	-	-

GEO TRACE STD1 1989		154	14	57	8	<5	14
GEO TRACE STD1 1989		158	12	56	<5	<5	13
Number of Analyses		2	2	2	2	2	2
Mean Value		156.3	13.0	56.5	5.2	2.5	13.4
Standard Deviation		2.84	1.41	0.71	3.83	0.00	0.81

Accepted Value		190	15	62	8	7	17
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GEO TRACE STD 3 1989		233	29	232	32	<5	3
Number of Analyses		1	1	1	1	1	1
Mean Value		233.4	29.5	232.2	31.5	2.5	3.0
Standard Deviation		-	-	-	-	-	-
Accepted Value		290	33	255	30	5	4



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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM
65105		6	38	85	8	<5	<1
Duplicate		6	41	89	16	<5	<1
65123		70	10	29	21	<5	<1
Duplicate		72	11	29	22	5	<1
65137		18	8	34	<5	<5	<1
Prep Duplicate		16	7	32	7	<5	<1
65142		2294	5	29	<5	<5	<1
Duplicate		2094	<2	25	<5	<5	<1
65144		593	8	8	<5	<5	<1
Prep Duplicate		583	9	8	9	<5	<1
91MRC-001		74	9	15	42	<5	<1
Duplicate		75	6	14	30	<5	<1
91MRC-021		399	12	22	8	8	2
Duplicate		431	10	24	<5	5	2
L10+00E 9+75N		40	26	65	26	<5	<1
Prep Duplicate		42	29	71	31	<5	<1
L10+50E 11+25N		19	8	48	17	5	<1
Duplicate		18	3	48	<5	<5	<1
L12+00E 9+50N		82	34	57	16	<5	<1
Duplicate		83	36	58	25	<5	<1
L13+00E 9+30N		139	71	152	62	<5	<1
Duplicate		141	76	158	71	<5	<1
L14+00E 9+25N		63	11	42	<5	15	<1
Prep Duplicate		71	19	46	23	26	<1
Duplicate		65	14	43	6	23	<1
L14+55E 9+55N		82	13	61	15	<5	13
Prep Duplicate		82	14	62	18	<5	14

Bondar-Clegg & Company Ltd.  
130 Pemberton Ave.  
North Vancouver, B.C.  
V7P 2R5  
(604) 985-0681 Telex 04-352667



# Certificate of Analysis

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

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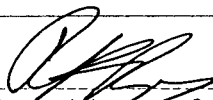
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SAMPLE NUMBER	ELEMENT UNITS	Pb PCT
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R2 L12+40F 10+35N		1.52
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Registered Assayer, Province of British Columbia



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SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
R2 65101		<0.002	<0.02	R2 65142		<0.002	0.10
R2 65102		0.004	<0.02	R2 65143		<0.002	0.04
R2 65103		0.003	<0.02	R2 65144		<0.002	0.14
R2 65104		<0.002	<0.02	R2 65145		<0.002	0.09
R2 65105		<0.002	<0.02	R2 65146		<0.002	0.15
R2 65107		<0.002	0.03	R2 65147		<0.002	0.14
R2 65108		<0.002	0.03	R2 65148		<0.002	0.08
R2 65109		<0.002	0.05	R2 65149		<0.002	0.06
R2 65110		<0.002	0.05	R2 65150		<0.002	0.05
R2 65111		<0.002	0.08	R2 65151		<0.002	0.09
R2 65112		<0.002	1.53	R2 65152		<0.002	0.03
R2 65113		<0.002	0.48	R2 65153		<0.002	0.03
R2 65114		<0.002	0.03	R2 65154		<0.002	<0.02
R2 65115		<0.002	0.03	R2 65155		0.003	0.22
R2 65116		<0.002	0.12	R2 65156		<0.002	<0.02
R2 65117		<0.002	0.07	R2 65234		<0.002	<0.02
R2 65118		<0.002	0.03	R2 65235		<0.002	0.03
R2 65119		<0.002	0.11	R2 91MRC-001		<0.002	<0.02
R2 65120		0.003	0.15	R2 91MRC-002		<0.002	<0.02
R2 65121		<0.002	0.10	R2 91MRC-003		<0.002	<0.02
R2 65122		<0.002	0.12	R2 91MRC-004		<0.002	<0.02
R2 65123		<0.002	0.05	R2 91MRC-005		<0.002	<0.02
R2 65124		<0.002	0.14	R2 91MRC-006		0.041	0.21
R2 65125		<0.002	<0.02	R2 91MRC-007		<0.002	<0.02
R2 65126		<0.002	<0.02	R2 91MRC-008		<0.002	0.14
R2 65127		<0.002	0.18	R2 91MRC-009		<0.002	<0.02
R2 65128		<0.002	<0.02	R2 91MRC-010		<0.002	0.06
R2 65129		<0.002	0.08	R2 91MRC-011		<0.002	0.08
R2 65130		<0.002	0.07	R2 91MRC-012		<0.002	<0.02
R2 65131		<0.002	0.09	R2 91MRC-013		<0.002	<0.02
R2 65132		<0.002	<0.02	R2 91MRC-014		<0.002	<0.02
R2 65133		<0.002	<0.02	R2 91MRC-015		<0.002	0.04
R2 65134		<0.002	0.05	R2 91MRC-016		<0.002	0.06
R2 65135		<0.002	<0.02	R2 91MRC-017		<0.002	0.04
R2 65136		<0.002	<0.02	R2 91MRC-018		<0.002	<0.02
R2 65137		<0.002	<0.02	R2 91MRC-019		<0.002	0.03
R2 65138		<0.002	<0.02	R2 91MRC-020		<0.002	0.03
R2 65139		<0.002	<0.02	R2 91MRC-021		<0.002	0.05
R2 65140		<0.002	<0.02	R2 91MRC-022		<0.002	<0.02
R2 65141		<0.002	<0.02	R2 91MRC-023		<0.002	<0.02



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SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
R2 91MRC-024		<0.002	<0.02	R2 L12+50E 10+00N		<0.002	0.05
R2 91MRC-025		<0.002	0.14	R2 L12+50E 9+75N		<0.002	0.11
R2 91MRC-026		<0.002	<0.02	R2 L12+50E 9+50N		<0.002	0.07
R2 91MRC-027		<0.002	0.04	R2 L13+00E 11+00N		<0.002	0.30
R2 91MRC-028		0.004	0.13	R2 L13+00E 10+75		<0.002	0.39
R2 L10+00E 11+00N		<0.002	<0.02	R2 L13+00E 10+50		<0.002	<0.02
R2 L10+00E 10+75N		<0.002	0.03	R2 L13+00E 10+00N		<0.002	0.07
R2 L10+00E 10+50N		<0.002	<0.02	R2 L13+00E 9+75N		<0.002	0.03
R2 L10+00E 10+25N		<0.002	0.07	R2 L13+00E 9+50N		<0.002	0.03
R2 L10+00E 10+00N		<0.002	<0.02	R2 L13+00E 9+30N		<0.002	0.04
R2 L10+00E 9+75N		<0.002	<0.02	R2 L13+00E 8+75N		<0.002	0.07
R2 L10+00E 9+25N		<0.002	0.04	R2 L13+10E 10+75N		0.199	5.01
R2 L10+00E 9+00N		<0.002	0.04	R2 L13+40E 9+00N		<0.002	0.07
R2 L10+50E 11+25N		<0.002	<0.02	R2 L13+40E 8+75N		<0.002	0.05
R2 L10+50E 11+00N		0.003	0.16	R2 L13+50E 11+30N		<0.002	0.09
R2 L10+50E 10+75N		<0.002	<0.02	R2 L13+50E 11+00N		<0.002	0.06
R2 L10+50E 10+50N		<0.002	<0.02	R2 L13+50E 10+75N		<0.002	0.03
R2 L10+50E 9+75N		<0.002	<0.02	R2 L13+50E 10+50N		<0.002	0.05
R2 L10+50E 9+50N		<0.002	<0.02	R2 L13+50E 10+25N		<0.002	0.05
R2 L11+00E 9+75N		<0.002	0.03	R2 L13+50E 10+00N		<0.002	0.04
R2 L11+00E 9+50N		0.017	0.04	R2 L13+50E 9+75N		<0.002	0.05
R2 L11+50E 10+75N		<0.002	0.10	R2 L13+90E 11+00N		<0.002	0.07
R2 L11+50E 10+75N A		<0.002	0.03	R2 L13+90E 9+75N		<0.002	0.05
R2 L11+50E 10+25N		<0.002	0.43	R2 L14+00E 11+45N		<0.002	0.09
R2 L11+50E 10+00N		<0.002	0.06	R2 L14+00E 11+25N		<0.002	0.16
R2 L11+50E 9+75N		<0.002	<0.02	R2 L14+00E 10+75N		<0.002	0.03
R2 L11+50E 9+50N		<0.002	0.03	R2 L14+00E 10+50N		<0.002	0.09
R2 L12+00E 10+92N		<0.002	0.05	R2 L14+00E 10+25N		0.006	0.59
R2 L12+00E 10+75N		0.005	1.16	R2 L14+00E 9+75N		<0.002	<0.02
R2 L12+00E 10+50N		<0.002	0.25	R2 L14+00E 9+25N		<0.002	0.03
R2 L12+00E 10+25N		<0.002	<0.02	R2 L14+00E 8+95N		<0.002	0.05
R2 L12+00E 10+00N		<0.002	0.07	R2 L14+50E 11+00N		<0.002	<0.02
R2 L12+00E 9+75N		<0.002	0.04	R2 L14+50E 10+75N		0.004	0.40
R2 L12+00E 9+50N		<0.002	0.03	R2 L14+50E 10+50N		<0.002	<0.02
R2 L12+40E 10+35N		0.124	1.62	R2 L14+50E 10+25N		<0.002	0.03
R2 L12+50E 11+20N		<0.002	0.03	R2 L14+50E 8+50N		<0.002	0.04
R2 L12+50E 11+00N		<0.002	<0.02	R2 L14+50E 8+35N		<0.002	<0.02
R2 L12+50E 10+75N		<0.002	<0.02	R2 L14+55E 9+55N		<0.002	0.03
R2 L12+50E 10+50N		<0.002	<0.02	R2 L14+60E 9+25N		<0.002	<0.02
R2 L12+50E 10+25N		<0.002	0.07				

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES


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REPORT: V91-00874.4 ( COMPLETE )

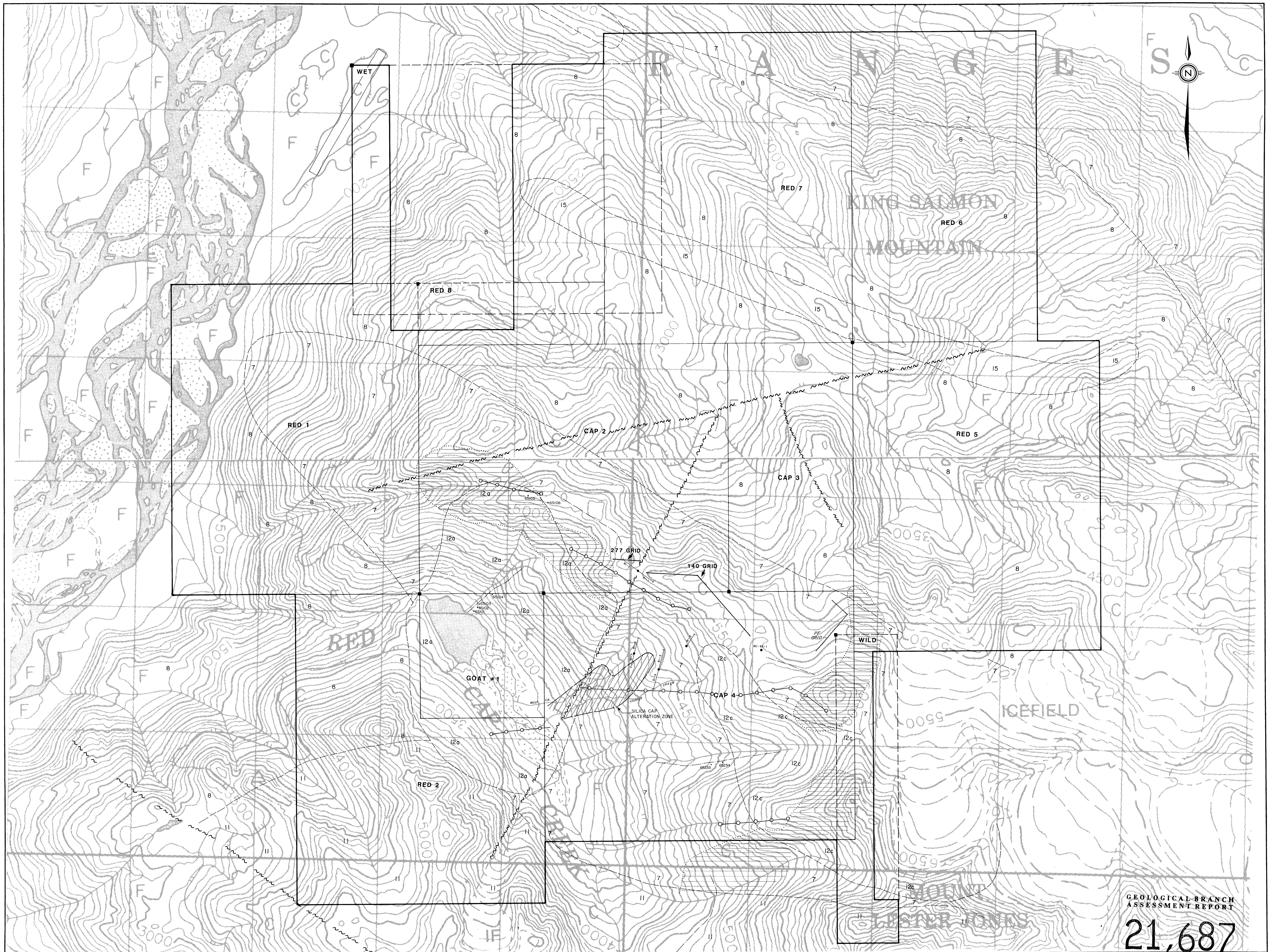
PROJECT: 1074

PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
65107		<0.002	0.03	L14+50E 10+75N		0.004	0.40
Duplicate		<0.002	0.04	Duplicate		0.003	0.38
65119		<0.002	0.11	L14+55E 9+55N		<0.002	0.03
Duplicate		<0.002	0.10	Prep Duplicate		<0.002	0.03
65130		<0.002	0.07				
Duplicate		<0.002	0.06				
65137		<0.002	<0.02				
Prep Duplicate		<0.002	<0.02				
65141		<0.002	<0.02				
Duplicate		<0.002	<0.02				
65144		<0.002	0.14				
Prep Duplicate		<0.002	0.13				
65152		<0.002	0.03				
Duplicate		<0.002	0.02				
91MRC-006		0.041	0.21				
Duplicate		0.044	0.22				
91MRC-017		<0.002	0.04				
Duplicate		<0.002	0.04				
L10+00E 9+75N		<0.002	<0.02				
Prep Duplicate		<0.002	<0.02				
L10+50E 10+75N		<0.002	<0.02				
Duplicate		<0.002	<0.02				
L12+00E 10+92N		<0.002	0.05				
Duplicate		<0.002	0.05				
L12+50E 10+75N		<0.002	<0.02				
Duplicate		<0.002	<0.02				
L13+00E 9+30N		<0.002	0.04				
Duplicate		<0.002	0.04				
L13+50E 9+75N		<0.002	0.05				
Duplicate		<0.002	0.04				
L14+00E 9+25N		<0.002	0.03				
Prep Duplicate		<0.002	0.03				

  
 Registered Assayer, Province of British Columbia





GEOLOGICAL BRANCH  
ASSESSMENT REPORT

21,687

<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li> 1991 - TRAVERSE</li> <li> ROCK SAMPLE LOCATION &amp; NUMBER</li> <li> DIAMOND DRILL HOLE</li> <li> VLF - EM CONDUCTOR</li> <li> AEROMAGNETIC HIGH</li> <li> GEOLOGICAL FAULT</li> <li> GEOLOGICAL CONTACT</li> </ul> <p>NOTE: FOR GEOLOGY LEGEND SEE (FIG. 4)</p>	<p>MAP SCALE</p> <p>NTS 1:104K/11,104K/14</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DATE</th> <th>MADE BY</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> </tr> </table>	NO.	DATE	MADE BY	DESCRIPTION	1				2				3				4				5				<p><b>CORONA CORPORATION</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DATE</td> <td>DRAWN BY</td> <td>CHECKED</td> <td>APPROVED</td> </tr> <tr> <td>SEPT. 1991</td> <td>M.K.</td> <td></td> <td></td> </tr> </table>	DATE	DRAWN BY	CHECKED	APPROVED	SEPT. 1991	M.K.			<p><b>RED CAP PROPERTY COMPILATION MAP</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>OFFICE</td> <td>DEPARTMENT</td> <td>MAP INDEX NUMBER</td> <td>SCALE</td> <td>DRAWING NUMBER</td> </tr> <tr> <td></td> <td></td> <td></td> <td>1:10000</td> <td>Fig. 3</td> </tr> </table>	OFFICE	DEPARTMENT	MAP INDEX NUMBER	SCALE	DRAWING NUMBER				1:10000	Fig. 3
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