GEOLOGY AND GEOCHEMISTRY REPORT

on the

LING CLAIMS

CLAIMS:

LING 1 #7951
LING II #7952

Omineca Mining District

North Central B.C.

N.T.S. 93N/14

Latitude 55 49' N
Longitude 125 18' W

for

CATHEDRAL GOLD CORPORATION

by

SANDRA T. BISHOP

OCTOBER, 1989

SUMMARY

The Ling group of claims consist of 40 units located in the Omineca mountains approximately 35 km to the west of Germansen Landing, north-central British Columbia. The claims are underlain by the contact between the Triassic Takla Group volcanics and the Intrusive Hogem suite.

Rock and soil samples collected and analyzed returned subtle gold anomalies associated with zones of silicification or quartz veining within the Takla volcanics. These anomalies appear to be localized and of limited extent.

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1.0 LOCATION, ACCESS AND TOPOGRAPHY

The Ling property is located in the Omineca mountains Swannell Range, north-central British Columbia (Figure 1). The claims are bordered to the south by the Omineca River valley, to the west by Duckling Creek and topographically consits of moderate relief ranging from a rounded peak at 1,769m to valleys at approximately 1,000m elevations. Vegetation consists mostly of open lodgepole pine and spruce forest with more decidious type trees occurring in the lower elevations.

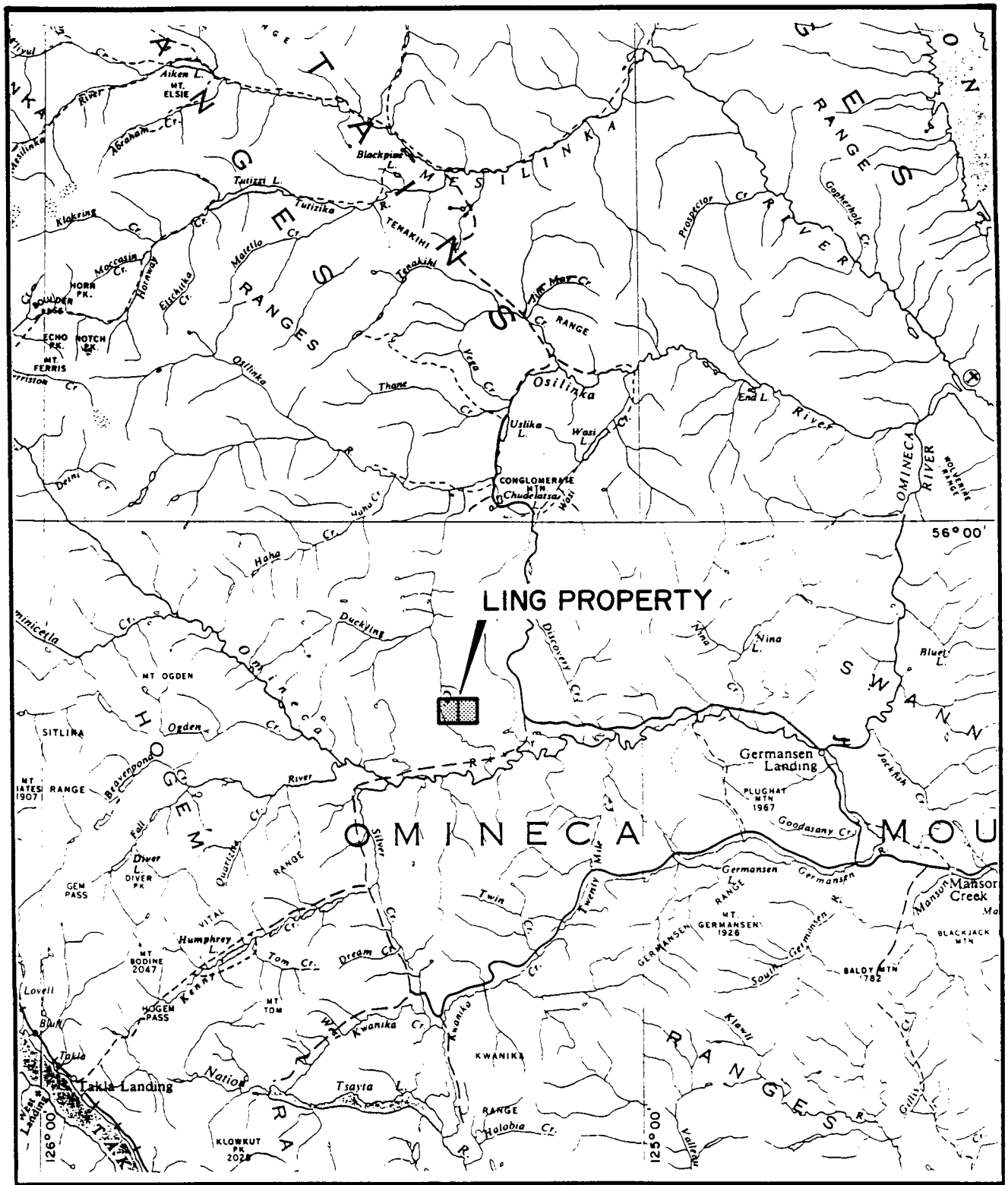
The Germansen-Johansen Lake road is located 5 km to the east of the claims. The nearest settlement, Germansen Landing, is 35 km east of the Ling property. Access to the property is presently by helicopter. Old cat roads do exist but would require major upgrading to render them fit for vehicle travel.

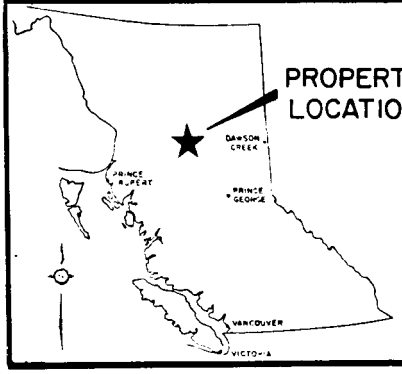
2.0 CLAIMS AND OWNERSHIP

The Ling property consists of 2 claim blocks which are 100% owned by Cathedral Gold Corporation (Figure 2). The claims have been grouped and consist of the following:

CLAIM NAME	RECORD NO.	NO. OF UNITS	EXPIRY DATE
Ling I	7951	20	Oct. 3, 1991
Ling II	7952	20	Oct. 3, 1992

Upon acceptance of this report, the claims will be in good standing until the above expiry date.





CATHEDRAL GOLD CORPORATION

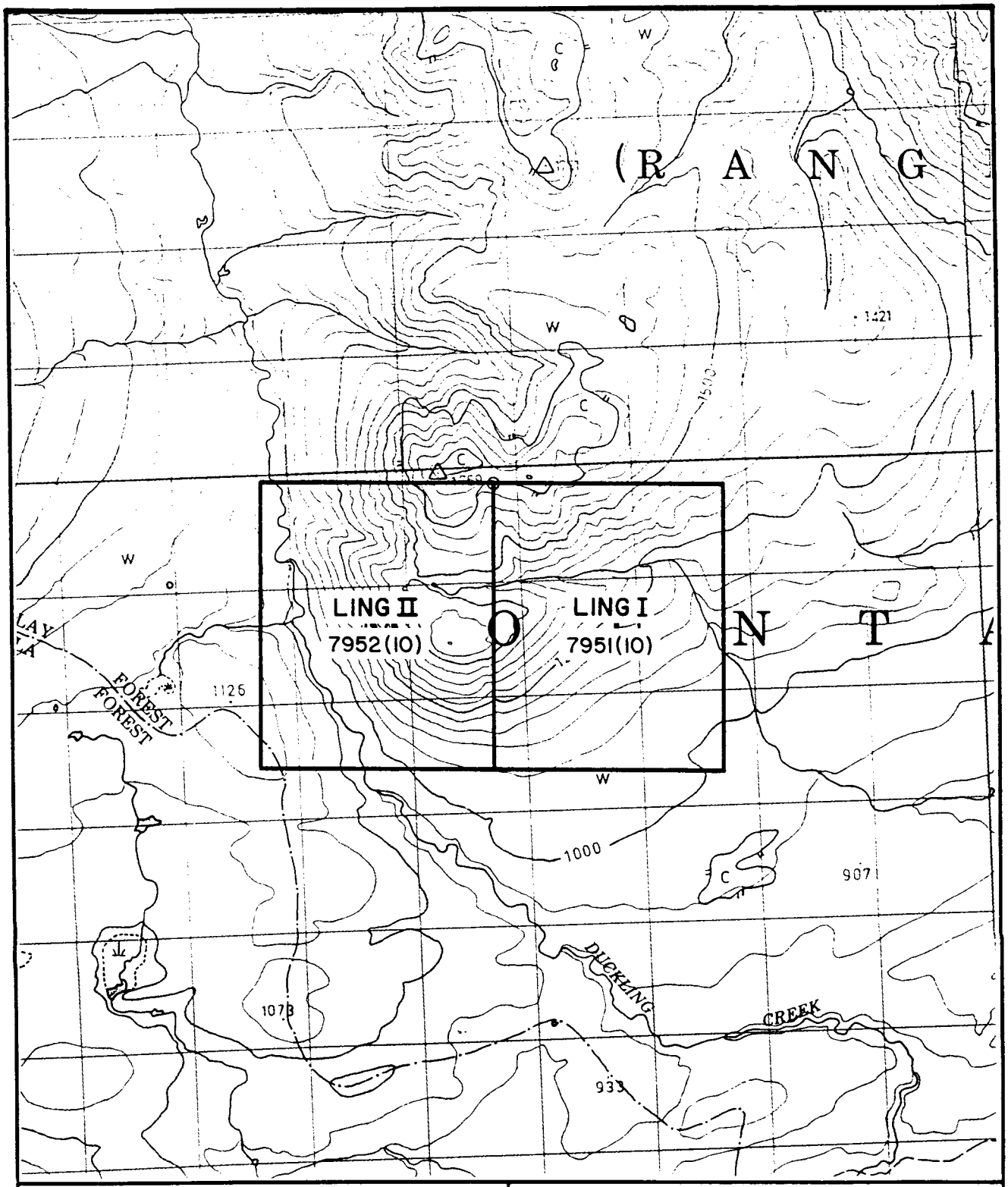
LING PROPERTY

FIGURE 1 N.T.S. 93N/14

LOCATION MAP

km 0 10 20 30 40 km

SCALE: 1:600 000	GEOLOGIST: A. TAYLOR
DATE: NOVEMBER 1987	DRAWN BY: J. CORKUM



CATHEDRAL GOLD CORPORATION

LING PROPERTY

FIGURE 2 N.T.S. 93N/14

CLAIM MAP

km 0 1 2 3 km

SCALE 1:50 000	GEOLOGIST A. TAYLOR
DATE NOVEMBER 1987	DRAWN BY J. CORKUM

3.0 WORK COMPLETED

The 1989 field program was completed by a two-man crew between August 17th and 23rd. A helicopter was used to mobilize the camp into a location on the property from which all work was completed.

The 1989 program consisted of soil sampling, some detailed rock sampling and the following up of the anomalies from 1987's exploration work. Most of the work was carried out in the southern portion of the two claim blocks. A strong gold anomaly in soil samples and a gold anomaly in a rock sample from the 1987 program led to the establishment of a grid over this area. A line from the previous grid was extended south to tie in the two grids. Lines, spaced 100 metres apart, were compassed, chained and flagged. B-horizon soil samples were collected at 25 m spacings along these lines.

A total of 163 soil samples and 73 rock samples were collected and sent to Acme Lab in Vancouver, B.C. for analysis. Samples were analyzed for 30 elements by ICP methods and for gold by atomic absorption to obtain an accurate ppb level. A sample location map is presented in Figure 3 and all analyses in Appendix I.

4.0 EXPLORATION HISTORY

The Ling claims cover a portion of the old Duckling Claim Group which have been worked since the early 1960's. Donna Mines Ltd. tested for high grade copper vein type and alkalic copper porphyry type mineralization. A major exploration program in the 1970's included detailed soil geochemistry, trenching and limited diamond drilling.

The Ling claims were staked by Imperial Metals Corporation in 1986 based on a regional reconnaissance stream sediment and soil program. In 1987 geological mapping, prospecting and a geochemical survey was completed by Imperial over the northern portion of the claim blocks.

5.0 PROPERTY HISTORY

The Ling property straddles the contact between the Triassic-Jurassic Takla Volcanic Group and the Jurassic Hogem Batholith. Near the contact, the intrusive exhibits many hybrid, syenitic phases. Takla rocks are generally fine grained, green andesitic rocks with minor tuffaceous and brecciated horizons. They normally contain trace amounts of pyrite and occasionally, augite phenocrysts. Propylitic alteration is common in the Takla volcanics.

6.0 GEOCHEMISTRY AND MINERALIZATION

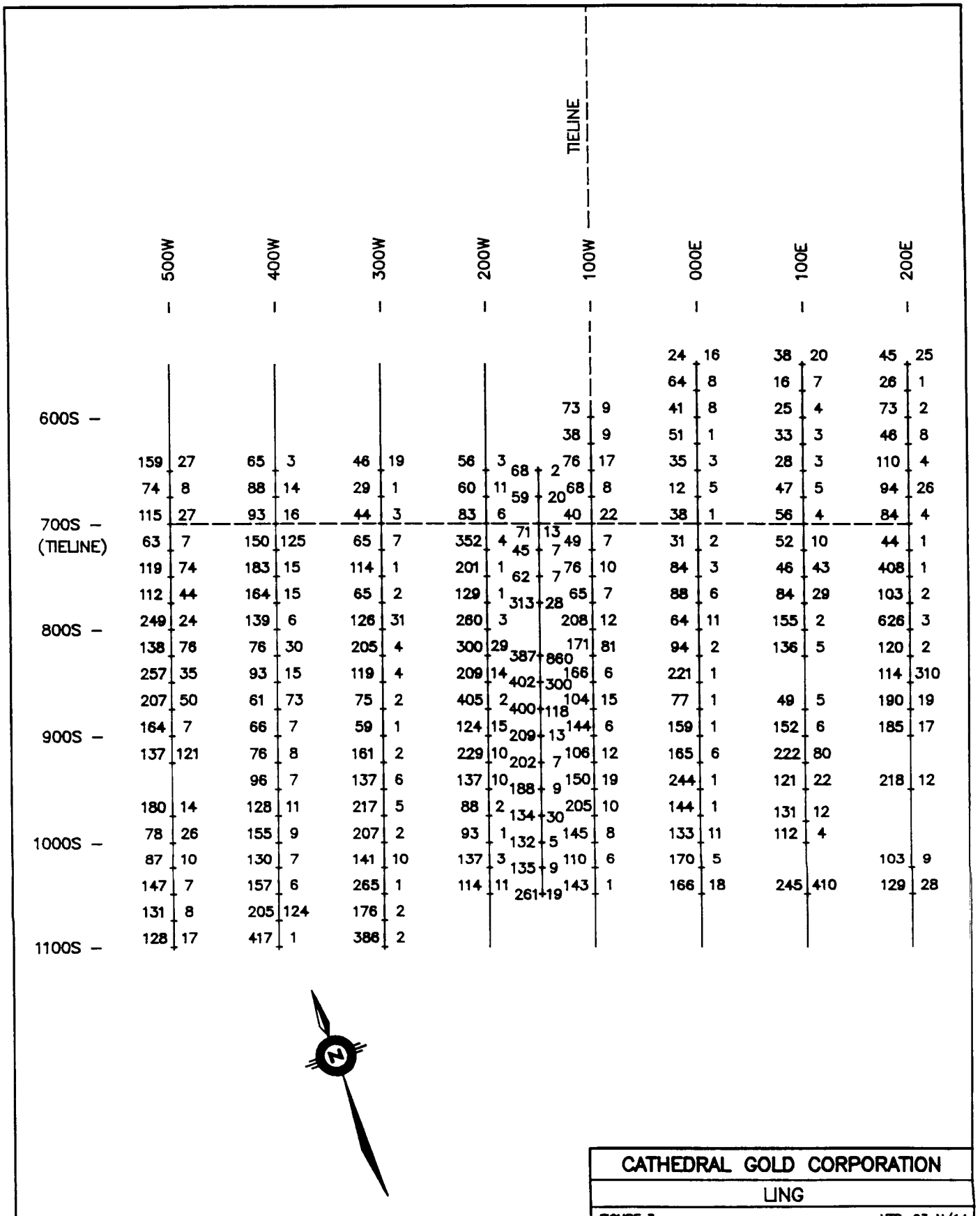
The soil geochemistry, conducted in the southern portion of the Ling II group, returned spotty anomalies in copper and gold. Many of these values (> 300 ppm Cu, > 50 ppb Au) were localized around the showing discovered in 1987 however, the other anomalies in the grid area do suggest a general trend of mineralization (Figure 4).

A new zone of alteration and mineralization was discovered as a result of the soil sampling program. The showing consists of a series subparallel, east-west striking quartz veins or zones of intense silicification. They are generally 0.5 metres in width and are mineralized with pyrite, chalcopyrite and occasionally covellite.

The rock geochemical anomalies are commonly coincident with the soil anomalies. Three anomalous area were defined. Gold values as high as 4130 ppb were returned from rock sampling in these zones.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The 1989 program on the Ling claims focused on the gold potential of the Takla volcanics, away from the contact with the Hogem Batholith. Rock and soil sampling in this area returned localized copper-gold anomalies which appear to be of limited extent. Further exploration in this area is necessary to determine the potential of a more extensive system of mineralization associated with the silicification. The copper mineralization in the northern portion of the claims blocks should be re-evaluated to determine its significance. A compilation of all the previous work on the claims would aid in determining the economic potential of the Ling property.


TIELINE
500W
400W
300W
200W
100W
000E
100E
200E
600S
700S
(TIELINE)
800S
900S
1000S
1100S
159 27
74 8
115 27
63 7
119 74
112 44
249 24
138 76
257 35
207 50
164 7
137 121
180 14
78 26
87 10
147 7
131 8
128 17
65 3
88 14
93 16
150 125
183 15
164 15
139 6
76 30
93 15
61 73
66 7
76 8
96 7
128 11
155 9
130 7
157 6
205 124
417 1
46 19
29 1
44 3
65 7
114 1
65 2
126 31
205 4
119 4
75 2
59 1
161 2
137 6
217 5
207 2
141 10
265 1
176 2
386 2
56 3
60 11
83 6
352 4
201 1
129 1
260 3
300 29
209 14
405 2
124 15
229 10
137 10
88 2
93 1
137 3
114 11
68 2
59 20
71 13
45 7
62 7
313 28
387 860
402 300
400 118
209 13
202 7
188 9
134 30
132 5
135 9
261 19
73 9
38 9
76 17
68 8
40 22
49 7
76 10
65 7
208 12
171 81
166 6
104 15
144 6
106 12
150 19
205 10
145 8
110 6
143 1
24 16
64 8
41 8
51 1
35 3
12 5
38 1
31 2
84 3
88 6
64 11
94 2
221 1
77 1
159 1
165 6
244 1
144 1
133 11
170 5
166 18
38 20
16 7
25 4
33 3
28 3
47 5
56 4
52 10
46 43
84 29
155 2
136 5
49 5
152 6
222 80
121 22
131 12
112 4
245 410
45 25
26 1
73 2
46 8
110 4
94 26
84 4
44 1
408 1
103 2
626 3
120 2
114 310
190 19
185 17
218 12
103 9
129 28
Cu VALUE IN p.p.m. 205 124 Au VALUE IN p.p.b.
CATHEDRAL GOLD CORPORATION
LING
FIGURE 3
NTS: 93 N/14
GEOCHEMISTRY: AU / CU
SCALE 1:5000
GEOLOGIST S. BISHOP
DATE NOVEMBER 1989
DRAWN BY S. WOOLVERTON

8.0 STATEMENT OF EXPENDITURES

TRANSPORT		
Helicopter 2 hrs + fuel	1,270	
Truck 2 days + fuel	240	$ 1,510
WAGES		
Sr. Geologist 8 days @ $200/day	1,600	
Jr. Geologist 8 days @ $125/day	1,000	2,600
GEOCHEMISTRY		
73 rocks @ $15/sample	1,095	
163 soil @ $12/sample	1,956	
Shipping	150	3,201
ROOM AND BOARD		
16 man-days @ $40/day	640	
2 nights hotel accommodation	120	760
SUPPLIES		
Sample bags, flagging, radio rental		400
EXPEDITING		50
REPORT WRITING		
2 days @ $200	400	
Typing, drafting	1,500	1,900
TOTAL:		$ 10,421

SB:mes
Dec. 4/89
SB#2Rpts89(rb)

9. AUTHOR'S QUALIFICATIONS

I, SANDRA T. BISHOP, residing at 3968 Commercial Drive, Vancouver, B.C., in the Province of British Columbia hereby certify that:

1. I received a B.Sc. (Geology) degree from the University of British Columbia, Vancouver, B.C. in May 1985.

2. Since May 1983, I have worked on mineral exploration programs in British Columbia, Ontario, Yukon Territory and Northwest Territories.

3. I am presently employed by Imperial Metals Corporation of Suite 800, 601 West Hastings Street, in the City of Vancouver, Province of British Columbia.

Dated this 19 day of December, 1989.

Sandra Bishop

Sandra T. Bishop
Vancouver, B.C.

SB:mes
Dec. 4/89
SB#2Rpts89(rb)

11. BIBLIOGRAPHY

Armstrong, J.E. (1944): "Manson Creek, Cassiar District, B.C." of Canada Map 876A Geol. Survey.

Armstrong, J.E.; Thurber, J.B. (1945): "Manson Creek Map-Area, B.C.". Geol. Survey of Canada Paper 45-9.

Armstrong, J.E. (1949): "Fort St. James Map-Area, Cassiar and Coast Districts, B.C." Geol. Survey of Canada Memoir 252.

Garnett, J.A. (1978): "Geology and Mineral Occurrences of the Southern Hogem Batholith" B.C. Department of Mines & Petroleum Resources, Bulletin 70.

Gorc, D.; Taylor, A.T. (1987): "Geochemical Report of the Valley Girl Property" Assessment Report #15634.

SB:mes
Dec. 4/89
SB#3Rpts89(rb)

APPENDIX 1

SAMPLE PREPARATION AND ANALYSES

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-P5 SOIL P6-P7 ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 28 1989 DATE REPORT MAILED: Sept 1/89 SIGNED BY. C. Leong ..D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

IMPERIAL METALS CORPORATION PROJECT 7105 File # 89-3286 Page 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
LG 500W 650S	26	159	17	122	.6	10	17	662	4.37	10	5	ND	1	130	1	2	2	99	.72	.076	4	12	1.15	44	.07	5	3.96	.01	.13	1	27
LG 500W 675S	2	74	21	190	.3	9	17	807	5.35	8	5	ND	1	202	1	2	3	160	.52	.061	3	16	1.14	89	.18	7	2.97	.02	.11	2	8
LG 500W 700S	2	115	13	224	.2	9	17	859	5.40	4	5	ND	1	286	1	2	2	141	.61	.060	3	13	1.39	104	.11	2	3.67	.01	.24	2	27
LG 500W 725S	2	63	16	122	.4	9	13	567	4.31	4	5	ND	2	283	1	2	2	112	.77	.065	3	13	.89	82	.11	2	3.15	.02	.12	1	7
LG 500W 750S	4	119	13	129	.1	12	22	1537	5.41	9	5	ND	1	251	1	2	2	153	.86	.060	2	14	1.61	83	.16	2	3.67	.01	.34	4	74
LG 500W 775S	4	112	14	186	.1	10	17	970	5.06	3	5	ND	1	279	1	2	2	134	.52	.045	3	14	1.29	93	.13	5	3.87	.02	.12	4	44
LG 500W 800S	4	249	11	142	.5	8	22	1176	4.54	3	5	ND	1	595	1	2	2	97	1.40	.081	2	8	1.01	125	.10	2	4.02	.01	.30	1	24
LG 500W 825S	16	138	31	160	.8	12	25	1955	5.27	6	5	ND	3	278	1	2	2	91	.70	.114	3	16	.98	81	.07	2	4.04	.01	.23	6	76
LG 500W 850S	15	257	20	131	.1	22	31	1238	6.15	4	5	ND	1	232	1	2	2	121	.56	.099	4	30	1.33	91	.13	3	4.29	.01	.40	5	35
LG 500W 875S	14	207	38	164	.4	43	27	1527	6.31	8	5	ND	3	226	1	2	2	154	.59	.073	3	72	1.89	94	.12	3	4.62	.01	.42	2	50
LG 500W 900S	6	164	14	164	.3	30	27	1108	5.84	12	5	ND	2	214	1	2	2	144	.60	.051	3	68	1.60	85	.15	2	3.94	.01	.22	1	7
LG 500W 925S	19	137	18	30	.4	10	21	927	5.76	10	5	ND	2	482	1	2	2	88	1.02	.127	3	15	.85	88	.06	4	5.27	.01	.34	8	121
LG 500W 975S	9	180	13	108	.3	5	22	1323	5.67	11	5	ND	1	869	1	2	2	117	1.56	.122	4	5	.97	79	.04	2	4.54	.01	.29	2	14
LG 500W 1000S	7	78	11	63	.3	11	13	352	4.34	6	5	ND	2	191	1	2	2	99	.59	.069	4	18	.69	46	.07	4	2.56	.01	.11	1	26
LG 500W 1025S	11	87	28	78	.5	11	14	484	4.16	3	5	ND	2	499	1	2	2	85	1.17	.055	5	16	.61	121	.03	3	3.46	.01	.17	1	10
LG 500W 1050S	10	147	19	88	.7	12	17	409	4.71	9	5	ND	2	151	1	2	2	101	.44	.082	5	16	.58	61	.08	2	3.78	.01	.05	3	7
LG 500W 1075S	4	131	16	89	.2	15	15	547	3.90	3	5	ND	3	146	1	2	2	87	.42	.069	5	19	.69	80	.09	2	3.41	.01	.05	3	8
LG 500W 1100S	4	128	26	135	.2	12	13	499	4.09	2	5	ND	2	154	1	2	2	90	.60	.061	5	16	.75	50	.09	3	3.66	.01	.08	4	17
LG 400W 650S	6	65	25	142	.2	15	13	541	4.69	6	5	ND	2	380	1	2	2	106	.47	.167	4	23	1.05	153	.12	3	3.37	.02	.08	1	3
LG 400W 675S	6	88	28	149	.1	15	16	772	4.66	8	5	ND	1	273	1	2	2	118	.64	.049	4	25	1.21	80	.12	4	3.93	.02	.11	1	14
LG 400W 700S	3	93	55	217	.4	13	21	1634	5.05	2	5	ND	1	611	1	2	2	137	1.40	.102	3	40	1.96	136	.13	4	4.80	.01	.55	1	16
LG 400W 725S	10	150	32	178	.2	9	27	1565	5.88	6	5	ND	1	276	1	2	2	147	.82	.100	3	11	1.60	90	.13	3	4.27	.01	.26	1	125
LG 400W 750S	6	183	29	175	.3	11	23	1502	5.61	8	5	ND	1	230	1	2	3	150	.85	.095	3	34	2.09	124	.16	2	4.23	.01	.33	1	15
LG 400W 775S	5	164	35	131	.1	12	22	1043	5.43	11	5	ND	1	290	1	2	2	129	1.22	.070	3	14	1.49	54	.07	2	4.25	.01	.24	1	15
LG 400W 800S	3	139	32	299	.3	10	26	3140	6.02	6	5	ND	1	183	4	2	2	169	.69	.086	3	12	1.57	137	.12	4	4.27	.01	.44	2	6
LG 400W 825S	5	76	18	314	.3	7	15	1109	4.56	3	5	ND	1	226	2	2	2	105	1.04	.080	3	9	.34	87	.06	3	3.36	.01	.24	2	30
LG 400W 850S	7	93	22	200	.3	7	16	1359	4.56	2	5	ND	1	425	1	2	3	100	.77	.073	3	10	1.04	118	.06	3	4.44	.01	.32	1	15
LG 400W 875S	6	61	18	110	.5	7	15	413	4.84	3	5	ND	3	338	1	2	2	95	.51	.064	3	17	.74	113	.10	2	3.81	.02	.11	2	73
LG 400W 900S	6	66	12	167	.2	10	27	1939	4.62	2	5	ND	2	201	1	2	2	110	.90	.103	3	46	1.57	165	.14	4	4.04	.01	.39	3	7
LG 400W 925S	11	76	16	85	.9	9	11	379	4.28	4	11	ND	3	160	1	2	2	87	.46	.109	4	16	.76	57	.05	2	3.18	.01	.11	1	8
LG 400W 950S	8	96	21	185	1.0	17	16	544	4.33	7	5	ND	2	218	1	2	2	92	.64	.093	4	35	1.10	74	.11	6	3.98	.01	.13	2	7
LG 400W 975S	7	128	21	133	.7	11	17	535	4.50	4	5	ND	1	180	1	2	2	87	.73	.195	4	14	.67	53	.08	3	3.75	.01	.09	1	11
LG 400W 1000S	11	155	19	75	1.6	12	13	411	4.13	3	5	ND	3	69	1	2	2	93	.53	.054	5	16	.67	79	.03	3	3.34	.02	.07	1	9
LG 400W 1025S	6	130	29	143	.4	15	20	1056	4.31	2	5	ND	1	137	1	2	2	98	.67	.069	4	19	.76	141	.05	6	3.35	.01	.11	1	7
LG 400W 1050S	5	157	17	115	.3	12	19	1986	4.12	2	5	ND	1	239	1	2	2	95	.73	.123	4	14	.87	153	.08	2	3.67	.01	.11	2	6
LG 400W 1075S	9	205	24	203	.6	7	20	1711	4.42	4	5	ND	2	428	1	2	2	106	1.58	.142	4	7	1.17	117	.12	6	5.11	.02	.35	4	124
STD C/AU-S	18	61	37	132	6.6	65	31	963	4.05	41	23	8	40	49	19	19	17	59	.49	.090	39	53	.90	181	.07	36	2.03	.06	.14	11	47

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
LG 400W 1100S	12	417	104	211	.8	7	27	2633	3.55	5	5	ND	1	347	1	2	2	80	2.55	.100	3	15	.80	68	.07	2	5.59	.01	.21	3	1
LG 300W 650S	4	46	13	57	.4	19	8	382	4.61	8	5	ND	1	51	1	2	4	93	.32	.128	5	35	.57	59	.06	2	2.58	.01	.05	1	19
LG 300W 675S	1	29	14	132	.3	13	11	624	4.04	2	5	ND	1	178	1	2	2	93	.42	.095	3	27	.88	119	.11	2	2.86	.02	.11	1	1
LG 300W 700S	1	44	18	112	.4	11	13	796	4.44	7	5	ND	1	570	1	2	2	100	.98	.079	2	21	1.30	92	.08	2	4.54	.01	.26	1	3
LG 300W 725S	2	65	17	146	.4	9	14	559	5.62	9	5	ND	1	205	1	2	3	120	.72	.076	2	20	1.05	54	.10	3	4.05	.02	.14	1	7
LG 300W 750S	6	114	19	183	.4	11	18	759	5.83	8	5	ND	1	230	1	3	2	135	.56	.062	2	20	1.55	84	.14	2	4.56	.01	.22	1	1
LG 300W 775S	2	65	14	166	.7	8	15	628	5.01	6	5	ND	1	378	1	2	3	109	.77	.078	2	15	1.12	75	.10	3	4.01	.01	.20	1	2
LG 300W 800S	3	126	22	170	.3	8	23	1495	7.53	8	5	ND	1	216	1	2	2	189	.62	.072	2	16	2.01	101	.20	2	4.72	.02	.44	1	31
LG 300W 825S	5	205	17	173	.7	10	19	826	5.80	13	5	ND	1	250	1	2	2	141	.79	.075	4	19	1.20	56	.14	3	3.95	.02	.14	1	4
LG 300W 350S	6	119	24	226	.5	8	23	1821	5.38	6	5	ND	1	312	1	2	2	127	.36	.123	3	15	1.16	91	.07	2	4.20	.02	.17	1	4
LG 300W 875S	6	75	24	193	.7	8	15	1256	3.90	5	5	ND	1	201	1	2	2	78	1.12	.105	4	15	.53	79	.07	6	4.00	.02	.09	1	2
LG 300W 900S	4	59	19	114	.3	10	12	829	3.72	2	5	ND	1	216	1	2	2	77	.73	.080	4	18	.49	76	.07	4	3.11	.01	.09	1	1
LG 300W 925S	10	161	19	158	.4	12	22	706	4.56	5	5	ND	1	218	1	2	5	81	.82	.130	4	19	.60	52	.05	2	3.64	.02	.08	1	2
LG 300W 350S	6	137	23	183	.6	4	14	1489	3.27	5	5	ND	1	305	1	2	2	66	2.29	.121	2	8	.64	58	.05	5	5.20	.01	.18	1	6
LG 300W 975S	20	217	30	144	1.4	38	20	874	6.34	10	5	ND	1	171	1	3	2	169	.84	.085	3	64	1.45	46	.11	2	4.29	.03	.07	1	5
LG 300W 1000S	10	207	26	113	1.0	27	20	919	4.65	8	5	ND	1	186	1	2	2	110	.85	.068	3	43	.93	44	.11	2	3.73	.01	.09	1	2
LG 300W 1025S	3	141	15	85	1.1	11	15	615	3.69	4	5	ND	1	210	1	2	2	75	.80	.115	3	18	.54	73	.07	2	4.39	.01	.08	1	10
LG 300W 1050S	7	265	23	121	1.2	13	20	916	4.54	7	5	ND	1	179	1	2	5	88	.50	.102	4	21	.64	115	.05	3	3.99	.01	.08	1	1
LG 300W 1075S	7	176	18	96	.6	12	19	910	4.55	5	5	ND	1	311	1	2	3	85	.75	.101	4	18	.49	100	.06	3	3.42	.02	.08	1	2
LG 300W 1100S	10	386	40	144	1.3	15	30	1439	6.56	7	5	ND	1	236	1	2	4	102	.88	.137	5	21	.58	136	.09	2	3.77	.01	.18	1	2
LG 200W 650S	1	56	20	156	.5	15	16	748	4.34	5	5	ND	1	426	1	2	2	105	.70	.146	2	28	1.45	139	.10	2	5.97	.03	.28	1	3
LG 200W 675S	1	60	17	198	.4	11	14	1063	5.28	4	5	ND	1	240	1	2	3	128	.55	.109	4	23	1.53	223	.14	2	4.26	.02	.21	1	11
LG 200W 700S	1	83	21	138	.2	12	16	1174	4.14	8	5	ND	1	373	1	2	2	103	1.81	.101	2	20	1.39	111	.09	8	4.64	.03	.16	1	6
LG 200W 725S	3	352	35	201	.7	10	38	1484	3.71	20	5	ND	1	293	1	2	2	161	1.39	.119	4	19	1.79	75	.14	2	4.07	.02	.27	1	4
LG 200W 750S	1	201	13	155	.3	10	21	1252	5.54	7	5	ND	1	283	1	2	2	129	1.24	.108	4	18	1.79	118	.12	2	4.20	.03	.34	1	1
LG 200W 775S	7	129	21	113	.5	9	16	816	4.11	8	5	ND	1	370	1	2	2	95	1.29	.085	3	15	.97	77	.08	2	4.19	.02	.11	1	1
LG 200W 800S	11	260	18	161	.4	11	30	1493	5.98	10	5	ND	1	370	1	2	2	137	1.47	.100	3	16	1.57	71	.12	2	4.26	.02	.17	1	3
LG 200W 825S	6	300	24	103	.6	10	14	673	5.60	17	5	ND	1	133	1	2	3	124	.48	.075	4	19	.77	84	.12	2	2.78	.01	.13	1	29
LG 200W 850S	19	209	24	113	.6	11	20	1172	5.03	10	5	ND	1	259	1	2	3	113	.92	.104	4	18	.93	100	.11	2	3.57	.02	.15	1	14
LG 200W 875S	14	405	22	142	1.3	10	23	1514	5.99	28	5	ND	1	325	1	2	4	118	1.07	.099	5	17	.95	110	.11	2	3.94	.02	.18	3	2
LG 200W 900S	4	124	17	108	.4	12	15	645	4.47	9	5	ND	1	175	1	2	5	99	.85	.093	4	19	.71	56	.10	2	3.32	.01	.08	1	15
LG 200W 925S	28	229	18	82	.3	11	15	763	4.06	9	5	ND	1	232	1	2	3	92	.78	.083	5	18	.65	66	.07	5	2.99	.01	.11	1	10
LG 200W 950S	4	137	17	146	.3	13	17	767	3.49	3	5	ND	1	233	1	2	4	65	1.76	.224	4	20	.63	66	.05	7	3.13	.01	.10	1	10
LG 200W 975S	6	88	20	130	.6	15	18	1291	3.72	8	5	ND	1	151	1	2	2	77	.73	.099	4	21	.52	68	.06	5	2.96	.01	.08	1	2
LG 200W 1000S	3	93	21	186	.4	13	26	1697	4.12	4	5	ND	1	194	2	2	5	73	.64	.156	4	18	.51	96	.05	2	3.20	.02	.07	1	1
LG 200W 1025S	3	137	24	135	.3	11	19	879	4.16	5	5	ND	1	229	1	2	3	83	.90	.099	4	17	.74	60	.08	2	4.05	.01	.12	1	3
STD C/AU-S	17	63	42	133	6.7	71	31	952	4.21	39	17	7	37	48	18	14	22	58	.49	.093	38	55	.86	175	.07	33	2.04	.06	.13	12	51

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPB	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
LG 200W 1050S	5	114	19	120	.3	14	18	581	4.52	2	5	ND	2	190	1	2	2	96	.62	.063	5	16	.96	76	.10	2	3.47	.01	.10	1	11
LG 150W 650S	2	68	17	129	.3	17	11	530	3.89	5	5	ND	1	77	1	2	2	34	.43	.093	5	22	1.10	66	.08	2	3.61	.01	.05	1	2
LG 150W 675S	1	59	13	256	.1	8	14	731	4.85	2	5	ND	1	104	1	2	3	108	.80	.095	3	11	1.17	65	.07	2	4.46	.01	.10	1	20
LG 150W 700S	3	71	12	70	.1	14	10	341	3.78	7	5	ND	1	66	1	2	2	87	.47	.131	6	22	.69	82	.07	2	3.34	.02	.07	1	13
LG 150W 725S	2	45	11	102	.1	9	14	614	4.73	2	5	ND	2	51	1	2	2	107	.29	.065	3	14	.83	119	.02	2	3.23	.01	.16	1	7
LG 150W 750S	3	62	10	74	.2	10	12	436	4.11	5	5	ND	1	144	1	2	2	96	.62	.099	4	15	.74	90	.06	6	3.01	.02	.10	1	7
LG 150W 775S	9	313	18	121	.5	8	29	1591	4.17	11	5	ND	1	476	1	2	2	90	2.54	.125	3	10	1.19	74	.08	2	5.28	.03	.17	1	28
LG 150W 825S	15	387	19	308	2.9	5	12	1074	11.72	179	5	ND	3	374	2	2	19	197	.27	.107	6	8	1.40	190	.24	2	3.84	.06	1.09	3	860
LG 150W 850S	14	402	31	464	1.5	9	34	2364	7.53	65	5	ND	1	283	3	2	2	151	.81	.119	4	9	1.18	135	.12	2	4.71	.02	.33	1	300
LG 150W 875S	9	400	16	175	1.1	12	23	1133	6.02	32	5	ND	2	220	1	2	2	117	.61	.123	5	16	.97	95	.10	3	3.51	.02	.17	9	119
LG 150W 900S	5	209	17	98	.2	15	16	675	4.04	10	5	ND	1	201	1	2	2	88	1.36	.087	4	16	.82	47	.08	11	4.62	.01	.08	1	13
LG 150W 925S	5	202	17	31	.3	11	14	546	3.47	11	5	ND	1	225	1	2	2	76	1.55	.110	4	14	.69	41	.07	8	4.85	.01	.12	1	7
LG 150W 950S	4	188	22	112	.6	12	19	1297	4.00	7	5	ND	1	258	1	2	2	78	1.13	.251	5	13	.80	86	.07	4	3.97	.01	.10	1	9
LG 150W 975S	17	134	27	93	.3	14	16	1075	4.15	7	5	ND	1	146	1	2	2	91	.65	.083	5	13	.87	102	.05	7	3.18	.01	.08	1	30
LG 150W 1000S	6	132	14	97	.2	14	17	920	4.32	5	5	ND	1	154	1	2	2	83	.57	.104	5	16	.78	70	.06	2	3.21	.01	.07	1	5
LG 150W 1025S	6	135	13	90	.4	16	16	714	4.35	4	5	ND	1	163	1	2	2	93	.59	.072	5	21	.79	69	.09	2	2.69	.01	.05	1	9
LG 150W 1050S	12	261	34	129	.7	10	30	1315	4.14	3	5	ND	1	312	1	2	2	96	.87	.104	4	11	.81	88	.07	2	4.48	.01	.10	1	19
LG 100W 600S	2	73	13	152	.1	13	10	416	4.15	3	5	ND	1	65	1	2	2	90	.33	.073	4	23	.81	67	.08	2	3.05	.01	.05	1	9
LG 100W 625S	2	38	12	115	.2	9	11	557	4.48	3	5	ND	2	84	1	2	3	116	.36	.095	4	17	.98	71	.12	2	2.48	.02	.09	1	9
LG 100W 650S	2	76	19	152	.5	11	16	670	4.90	5	5	ND	2	116	1	2	2	102	.46	.099	4	15	1.23	86	.11	2	4.90	.02	.08	1	17
LG 100W 675S	3	58	13	145	.5	10	13	625	4.35	7	5	ND	2	155	1	2	2	93	1.13	.160	4	13	1.08	105	.08	2	5.30	.02	.12	1	8
LG 100W 700S	2	40	8	90	.2	15	10	387	4.53	6	5	ND	2	93	1	3	2	116	.38	.056	4	24	.91	64	.12	4	2.63	.02	.05	1	22
LG 100W 725S	2	45	12	99	.2	17	12	367	4.20	3	5	ND	2	79	1	2	2	92	.28	.075	5	28	.77	87	.10	2	3.27	.01	.06	1	7
LG 100W 750S	2	76	6	161	.6	9	16	872	4.50	5	5	ND	1	841	1	2	2	99	1.23	.178	4	13	1.51	135	.13	3	7.05	.03	.14	1	10
LG 100W 775S	3	65	13	96	.3	14	11	441	3.97	6	5	ND	1	92	1	2	2	91	.38	.093	5	22	.65	66	.08	3	2.67	.01	.05	1	7
LG 100W 800S	8	208	18	152	.3	12	22	1123	4.83	5	5	ND	1	332	1	2	2	113	1.29	.126	4	13	1.29	92	.09	3	4.62	.02	.11	1	12
LG 100W 825S	6	171	14	158	.2	12	17	1625	5.38	9	5	ND	1	201	1	2	2	123	.81	.093	4	14	1.33	71	.13	3	4.24	.01	.17	1	81
LG 100W 850S	7	166	13	156	.4	11	18	1776	5.82	11	7	ND	2	173	1	2	2	132	.63	.091	4	13	1.42	91	.11	2	3.69	.02	.15	1	6
LG 100W 875S	5	104	16	125	.3	12	19	4862	3.74	2	5	ND	1	156	1	2	2	84	.70	.140	5	15	.67	159	.03	3	2.73	.01	.08	1	15
LG 100W 900S	5	144	13	78	.5	17	13	431	3.74	5	5	ND	1	110	1	2	2	87	.50	.077	5	22	.69	53	.08	2	3.00	.01	.05	1	6
LG 100W 925S	3	106	12	71	.6	16	11	345	3.77	7	5	ND	2	94	1	2	2	84	.40	.077	5	23	.57	54	.08	2	2.53	.01	.05	1	12
LG 100W 950S	6	150	18	98	.6	10	19	694	3.78	10	5	ND	1	385	1	2	2	87	2.13	.094	4	10	.85	36	.09	4	5.56	.01	.07	2	19
LG 100W 975S	11	205	19	109	.6	7	21	812	4.63	11	5	ND	1	627	1	2	2	108	1.96	.129	3	7	1.49	20	.13	4	4.30	.01	.06	1	10
LG 100W 1000S	7	145	18	141	.3	10	24	1521	4.79	10	5	ND	1	507	1	2	2	99	1.24	.139	4	9	1.36	74	.11	5	3.75	.01	.07	1	8
LG 100W 1025S	5	110	24	120	.4	13	24	2541	4.52	3	5	ND	2	247	1	2	3	91	.76	.148	6	16	.81	225	.10	3	3.35	.02	.08	1	6
LG 100W 1050S	4	143	15	81	.3	14	15	1149	3.73	3	5	ND	2	125	1	2	2	77	.62	.090	5	19	.66	113	.08	3	2.69	.01	.06	1	1
STD C/AU-S	19	60	38	132	6.7	72	31	1013	4.09	41	18	8	39	50	18	15	18	59	.49	.089	40	55	.90	181	.07	37	2.02	.06	.14	11	51

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
LG 0E 550S	1	24	16	98	.2	5	8	532	2.69	2	5	ND	1	140	1	2	2	80	.40	.035	3	9	.83	95	.12	2	2.37	.02	.08	2	16
LG 0E 575S	2	64	12	99	.2	12	12	528	4.13	9	5	ND	1	95	1	2	2	102	.39	.061	5	19	.99	73	.11	2	3.53	.02	.06	2	8
LG 0E 600S	1	41	16	112	.5	11	10	416	4.45	7	5	ND	2	71	1	2	2	101	.31	.068	3	19	.75	63	.08	2	3.16	.01	.05	1	8
LG 0E 625S	2	51	12	92	.3	10	9	407	3.82	5	5	ND	1	87	1	2	2	92	.39	.079	3	19	.87	78	.09	2	3.04	.02	.06	1	1
LG 0E 650S	2	35	9	100	.5	10	10	437	3.55	2	5	ND	1	103	1	2	2	90	.33	.062	6	17	.90	68	.09	2	2.76	.01	.07	1	3
LG 0E 675S	1	12	9	74	.1	4	8	482	2.36	2	5	ND	1	96	1	2	2	61	.31	.035	3	10	.62	77	.10	2	1.49	.02	.10	1	5
LG 0E 700S	1	38	7	108	.2	11	10	472	3.39	4	5	ND	1	114	1	2	2	80	.42	.078	5	19	.94	95	.09	2	3.30	.02	.06	1	1
LG 0E 725S	1	31	12	85	.4	9	8	359	2.59	4	5	ND	1	251	1	2	2	59	.54	.047	4	15	.54	96	.06	2	2.91	.02	.05	1	2
LG 0E 750S	2	84	10	124	.2	14	14	727	4.68	3	5	ND	1	149	1	2	2	116	.45	.100	3	22	1.12	118	.13	2	5.03	.02	.13	1	3
LG 0E 775S	2	88	11	153	.1	5	19	5620	3.85	2	5	ND	1	258	2	2	2	90	.71	.146	2	9	.93	232	.04	2	3.24	.02	.24	1	6
LG 0E 800S	12	64	18	339	.5	7	18	3223	9.10	7	5	ND	2	59	1	2	10	135	.20	.155	4	16	.93	137	.11	2	3.75	.01	.22	1	11
LG 0E 825S	3	94	10	150	.6	13	20	1184	5.36	3	5	ND	1	227	1	2	2	142	.54	.085	3	17	1.70	86	.18	2	5.27	.01	.28	2	2
LG 0E 850S	6	221	17	122	.5	11	24	2430	4.53	5	5	ND	1	227	1	2	2	110	.96	.095	5	13	1.02	77	.05	2	4.02	.02	.14	1	1
LG 0E 875S	3	77	13	139	.3	12	25	1965	5.04	5	5	ND	1	133	1	2	2	129	.95	.095	3	10	1.65	76	.15	2	3.65	.01	.28	2	1
LG 0E 900S	10	159	24	131	.4	10	25	1838	4.60	6	5	ND	1	287	1	2	2	115	.93	.102	4	9	1.19	101	.11	2	4.11	.01	.15	1	1
LG 0E 925S	7	165	17	93	.6	12	18	788	3.91	9	5	ND	1	241	1	3	2	95	.88	.073	4	13	.91	59	.10	2	3.47	.02	.06	1	6
LG 0E 950S	6	244	15	95	.5	11	18	722	3.95	4	5	ND	1	273	1	2	2	84	1.08	.170	4	14	.92	55	.09	2	3.12	.01	.09	1	1
LG 0E 975S	4	144	13	95	.6	12	14	509	3.60	7	5	ND	1	145	1	2	2	95	.77	.091	5	16	.72	46	.08	2	2.86	.01	.08	1	1
LG 0E 1000S	4	133	16	83	.4	12	15	1080	3.58	3	5	ND	1	114	1	2	2	78	.61	.084	4	15	.64	68	.07	3	2.44	.02	.06	1	11
LG 0E 1025S	3	179	21	82	.6	10	22	2045	3.56	6	5	ND	1	151	1	2	2	70	.73	.133	4	13	.56	118	.05	4	2.75	.01	.08	1	5
LG 0E 1050S	4	166	21	411	.2	8	31	3094	4.34	2	5	ND	1	101	3	2	3	95	.40	.095	4	13	.84	102	.08	3	3.93	.01	.08	1	18
LG 100E 550S	1	38	12	115	.1	9	11	531	4.54	5	5	ND	1	85	1	2	2	117	.34	.061	3	15	1.00	74	.16	2	2.69	.02	.06	1	20
LG 100E 575S	1	16	9	100	.2	6	9	464	2.76	2	5	ND	1	88	1	2	2	74	.36	.047	3	9	.88	63	.10	2	2.09	.02	.07	1	7
LG 100E 600S	1	25	10	97	.4	8	10	434	3.82	2	5	ND	1	130	1	2	2	102	.46	.055	2	12	.96	81	.15	2	2.67	.02	.07	1	4
LG 100E 625S	2	33	12	90	.2	11	10	466	4.66	3	5	ND	1	98	1	2	2	115	.33	.076	3	16	.89	79	.12	2	2.99	.01	.08	1	3
LG 100E 650S	1	28	13	91	.4	7	11	507	4.67	9	5	ND	1	140	1	2	2	127	.48	.058	3	14	.87	100	.16	2	2.92	.02	.09	2	3
LG 100E 675S	3	47	13	100	1.0	12	12	494	3.98	6	5	ND	1	144	1	2	2	92	.57	.082	5	18	.85	90	.09	2	3.84	.02	.05	1	5
LG 100E 700S	1	56	8	91	.4	8	13	621	5.44	3	5	ND	2	111	1	2	2	143	.35	.075	3	11	1.24	107	.19	2	3.51	.02	.10	2	4
LG 100E 725S	3	52	15	163	.3	9	14	769	5.10	4	5	ND	1	132	1	2	2	120	.37	.098	4	13	.99	117	.09	4	3.62	.01	.10	2	10
LG 100E 750S	12	46	39	482	.2	4	10	2510	14.99	6	5	ND	2	49	1	2	10	140	.08	.116	2	5	1.39	87	.11	2	3.40	.01	.78	1	43
LG 100E 775S	7	84	14	145	.4	9	15	729	6.01	8	5	ND	2	69	1	3	2	128	.28	.078	4	14	.93	73	.13	3	3.01	.01	.08	1	29
LG 100E 800S	5	155	15	172	1.2	16	17	464	4.20	9	5	ND	1	168	1	2	2	86	.70	.148	5	20	.73	84	.08	2	5.81	.01	.08	2	2
LG 100E 825S	6	136	19	168	1.1	12	16	612	4.94	24	5	ND	2	150	1	3	2	103	.41	.163	4	17	.82	89	.08	4	4.40	.02	.07	1	5
LG 100E 875S	4	49	14	116	.3	8	11	375	3.55	5	5	ND	1	146	1	2	2	83	.52	.075	4	14	.58	67	.10	2	2.06	.01	.06	1	5
LG 100E 900S	4	152	14	72	.1	19	14	445	3.71	8	5	ND	1	165	1	2	2	81	.82	.101	5	22	.79	55	.09	2	2.71	.01	.06	2	6
LG 100E 925S	29	222	20	137	.3	7	23	3133	6.90	11	5	ND	1	336	1	2	2	112	1.34	.139	5	8	.66	125	.05	4	3.96	.02	.14	2	80
STD C/AU-S	18	61	38	132	6.8	67	31	962	4.07	41	22	8	39	49	18	15	22	59	.49	.089	39	53	.89	179	.07	38	1.98	.06	.14	11	53

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
LG 100E 950S	7	121	13	114	.3	10	16	981	4.96	4	5	ND	1	200	1	2	2	94	1.07	.094	4	16	.83	34	.08	2	3.52	.02	.12	1	22
LG 100E 980S	4	131	36	113	.5	7	14	755	3.79	8	5	ND	1	259	1	2	2	82	1.92	.122	4	12	.63	40	.07	2	5.52	.01	.12	1	12
LG 100E 1000S	3	112	24	121	.3	11	18	1277	4.21	7	5	ND	1	247	1	2	2	88	1.18	.100	4	16	.64	74	.07	3	3.44	.01	.14	1	4
LG 100E 1050S	50	245	35	252	.7	6	26	2242	6.30	2	5	ND	1	994	2	2	2	77	1.69	.144	3	12	.54	107	.06	4	4.35	.02	.34	1	410
LG 200E 550S	1	45	12	138	.3	11	14	743	5.75	5	5	ND	1	143	1	2	2	114	.54	.132	4	22	1.11	90	.12	2	3.54	.01	.10	1	25
LG 200E 575S	1	26	9	181	.2	9	13	874	4.03	2	5	ND	1	90	1	2	2	98	.42	.045	3	16	1.49	74	.17	2	3.49	.02	.10	1	1
LG 200E 600S	2	73	14	186	.5	17	13	772	4.49	3	5	ND	1	123	1	2	2	96	.53	.101	5	27	1.21	97	.12	4	4.17	.02	.08	1	2
LG 200E 625S	2	46	21	117	.3	8	14	819	5.34	2	5	ND	1	127	1	2	2	115	.42	.075	3	17	.82	102	.12	3	3.47	.02	.07	1	3
LG 200E 650S	3	110	23	256	.3	16	17	1066	5.14	8	5	ND	1	126	1	2	2	100	.43	.074	4	25	1.13	110	.10	2	4.64	.02	.09	1	4
LG 200E 675S	4	94	16	384	.2	12	20	1489	5.40	5	5	ND	1	140	1	2	2	105	.49	.091	4	19	1.08	102	.10	3	3.77	.01	.14	1	26
LG 200E 700S	4	84	15	481	.1	13	14	804	5.32	3	5	ND	1	109	1	2	2	103	.42	.092	4	26	.82	88	.09	2	4.34	.01	.06	1	4
LG 200E 725S	2	44	12	163	.6	13	11	699	4.91	2	5	ND	1	108	1	2	2	115	.34	.137	4	26	.94	84	.13	3	3.04	.01	.08	1	1
LG 200E 750S	46	408	20	3982	.6	8	28	4896	10.03	8	5	ND	1	875	7	2	2	163	.56	.108	3	18	1.51	111	.14	2	4.52	.02	.18	1	1
LG 200E 775S	3	103	14	209	.6	11	15	822	5.83	4	5	ND	1	133	1	2	2	108	.51	.173	4	21	.95	90	.11	2	3.59	.01	.09	2	2
LG 200E 800S	8	626	22	201	1.4	11	17	995	5.13	3	5	ND	1	318	1	2	3	98	.61	.127	4	20	.81	105	.09	2	3.53	.01	.10	1	3
LG 200E 825S	4	120	16	212	.5	12	13	1581	5.44	4	5	ND	1	126	1	2	2	140	.55	.058	3	22	1.12	89	.14	3	3.64	.01	.09	1	2
LG 200E 850S	4	114	90	198	.5	10	35	4349	4.51	2	5	ND	1	186	3	2	2	86	.61	.133	4	17	.56	113	.04	5	2.43	.01	.09	1	310
LG 200E 875S	15	190	26	141	.6	13	21	1673	6.16	10	5	ND	1	64	1	2	2	97	.33	.077	5	19	.69	96	.02	4	3.18	.01	.12	1	19
LG 200E 900S	6	185	40	142	.3	13	23	1622	5.64	7	5	ND	1	139	1	2	2	124	.57	.102	4	21	1.01	119	.04	5	3.90	.01	.09	1	17
LG 200E 950S	10	218	48	111	.8	11	25	718	5.19	14	5	ND	1	226	1	3	4	91	.34	.130	4	17	.74	49	.09	6	5.31	.01	.06	2	12
LG 200E 1025S	5	103	18	238	.3	12	31	2861	5.20	2	5	ND	1	101	1	2	3	97	.51	.150	5	21	.51	108	.09	5	3.52	.01	.10	1	9
LG 200E 1050S	15	129	22	279	.5	14	16	1188	6.16	6	5	ND	1	124	1	2	2	125	.59	.062	4	25	.89	68	.12	3	3.29	.01	.11	1	23
STD C/AU-S	18	64	44	132	6.8	68	31	1055	4.27	41	20	7	38	49	18	15	19	59	.50	.093	39	56	.87	177	.07	35	2.04	.06	.13	13	48

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
LD-89-1	30	352	17	33	1.4	2	6	537	9.55	5	5	ND	2	133	1	2	2	92	.55	.073	2	2	.23	40	.11	9	1.44	.02	.23	3	69
LD-89-3	5	190	6	95	.2	4	5	651	2.46	4	5	ND	1	17	1	2	2	44	.33	.078	3	3	.34	39	.04	11	.97	.02	.32	1	30
LD-89-4	167	641	30	45	2.6	5	25	365	3.61	13	5	ND	1	17	1	2	2	26	.12	.056	2	3	.18	42	.03	7	.62	.02	.29	1	590
LD-89-5	7	26	16	20	.5	8	2	63	.74	4	5	ND	1	1	1	2	2	3	.01	.004	2	3	.01	8	.01	13	.09	.01	.04	1	48
LD-89-6	65	255	24	55	.4	4	12	402	3.44	9	5	ND	2	19	1	2	2	33	.14	.072	2	4	.21	37	.04	9	.79	.02	.30	1	76
LD-89-7	11	137	7	112	.1	5	14	1628	4.30	3	5	ND	1	55	1	2	2	64	.92	.101	2	6	.79	60	.13	14	1.79	.06	.32	1	14
LD-89-7A	20	75	10	75	.1	5	9	1146	3.67	5	5	ND	1	99	1	2	2	66	.91	.109	2	4	.77	48	.13	10	1.78	.06	.37	2	39
LD-89-8	27	56	25	24	.8	5	3	63	2.06	6	5	ND	1	15	1	2	11	9	.04	.022	2	4	.04	39	.01	12	.31	.01	.18	1	160
LD-89-9	17	60	18	52	.5	4	5	602	2.55	6	5	ND	1	57	1	2	2	35	.50	.064	2	4	.32	44	.07	9	1.19	.05	.31	3	165
LD-89-10	4	31	9	56	.1	5	14	641	5.33	5	5	ND	1	345	1	2	2	137	1.28	.149	2	5	1.16	98	.16	8	3.76	.25	.39	2	9
LD-89-11	12	430	5	116	1.7	4	9	274	13.74	2	5	ND	2	24	1	2	2	48	.20	.022	2	5	.08	2	.04	6	.45	.01	.02	8	62
LD-89-12	2	200	6	164	.1	9	8	1694	3.24	4	5	ND	1	91	1	2	2	63	1.68	.112	3	9	1.17	35	.13	7	2.39	.06	.35	1	14
LD-89-13	6	72	7	27	.3	4	21	223	5.59	25	5	ND	2	95	1	2	2	48	.38	.079	2	4	.24	43	.16	12	.75	.07	.16	1	17
LD-89-14	5	155	12	33	.2	3	29	236	11.63	31	5	ND	2	120	1	2	2	59	.41	.054	2	4	.22	34	.17	8	.79	.06	.14	2	67
LD-89-15	7	99	111	757	4.0	5	14	665	4.11	55	5	ND	1	147	16	2	2	304	.93	.086	2	5	.40	49	.10	7	1.91	.09	.41	12	1900
LD-89-16	37	294	21	30	10.9	9	297	107	12.90	310	5	4	3	152	1	2	2	37	.03	.024	2	5	.03	24	.04	11	.19	.05	.43	238	4130
LD-89-17	4	358	5	430	.2	5	19	1679	4.08	9	5	ND	1	163	2	2	2	115	.99	.127	5	6	1.14	74	.19	15	2.80	.04	.63	3	37
LD-89-18	9	376	7	326	.3	4	20	1252	5.77	6	5	ND	2	108	2	2	2	116	.58	.099	3	6	.34	54	.18	7	2.27	.04	.44	1	24
LD-89-19	29	1807	19	140	8.1	8	84	258	42.16	346	5	ND	5	7	1	2	11	100	.01	.041	2	4	.01	131	.03	5	.48	.01	.06	179	270
LD-89-20	32	196	28	60	5.8	3	3	381	8.02	79	5	ND	4	188	1	2	2	45	.05	.044	4	3	.02	58	.17	4	.34	.16	.62	4	103
LD-89-21	22	435	7	167	3.2	3	14	775	9.14	129	5	ND	4	195	1	2	2	92	.27	.086	4	5	.37	102	.17	11	1.02	.06	.46	65	650
LD-89-22	28	734	4	80	.7	5	14	468	13.55	116	5	ND	5	39	1	2	2	141	.12	.063	2	8	.81	45	.20	8	2.28	.02	.25	15	330
LD-89-23	27	148	2	87	.3	6	16	1220	4.92	8	5	ND	2	26	1	2	2	62	.36	.054	2	7	.55	52	.11	8	1.41	.04	.44	1	53
LD-89-24	7	63	4	274	.1	6	23	6380	13.90	2	5	ND	3	17	1	2	2	128	.32	.100	2	9	2.73	143	.14	2	5.65	.01	2.63	1	8
LD-89-25	13	9537	13	82	4.3	5	5	228	1.50	12	5	ND	1	176	3	2	2	25	1.56	.110	3	4	.14	8	.10	9	1.02	.02	.05	1	310
LD-89-26	13	132	103	355	.5	8	7	262	2.19	2	5	ND	2	38	1	2	2	47	.28	.048	2	9	.28	247	.08	8	.97	.02	.25	1	38
LD-89-27	3	97	2	69	.1	10	12	577	3.13	21	5	ND	1	270	1	2	2	79	.72	.069	2	12	1.05	94	.14	12	2.16	.12	.61	2	13
LD-89-28	79	97	3	49	.2	6	10	375	4.35	6	5	ND	2	109	1	2	2	76	.87	.099	4	9	.64	64	.14	10	1.15	.06	.35	2	18
LD-89-29	2	123	2	63	.3	8	11	448	3.89	10	5	ND	2	70	1	2	2	81	.82	.110	4	13	.69	61	.15	11	1.63	.08	.38	1	6
LS-89-1	2	25	9	39	.3	8	15	358	2.55	8	5	ND	2	92	1	2	3	54	.84	.093	2	11	.59	35	.14	9	1.01	.08	.12	1	8
LS-89-2	5	44	6	44	.9	4	16	417	4.75	5	5	ND	3	29	1	2	2	64	.50	.124	4	6	.66	63	.14	10	1.07	.06	.50	1	162
LS-89-3	62	57	18	22	.9	6	31	261	6.14	11	5	ND	2	33	1	2	2	29	.30	.052	2	5	.16	37	.06	7	.59	.04	.21	3	580
LS-89-4	90	77	20	15	6.4	7	7	139	4.46	22	5	ND	4	40	1	2	12	17	.03	.020	2	7	.02	71	.05	11	.19	.07	.32	1	490
LS-89-5	40	1175	19	820	5.2	5	5	148	3.23	4	5	ND	3	39	5	2	2	27	.23	.055	2	5	.12	36	.04	8	.46	.02	.18	1	250
LS-89-6	21	45	9	43	.8	3	7	182	4.67	5	5	ND	3	51	1	2	2	34	.16	.042	2	5	.06	67	.09	7	.35	.06	.26	3	63
LS-89-7	76	41	24	34	2.4	7	5	65	5.45	19	5	ND	3	28	1	2	2	15	.04	.007	2	6	.01	57	.02	8	.17	.04	.22	1	660
STD C/AU-R	18	57	38	132	6.6	71	30	1004	4.05	41	21	7	40	48	18	14	22	59	.48	.087	39	54	.89	176	.07	32	1.97	.06	.14	13	520

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
LS-89-8	6	152	11	612	.1	3	11	1110	4.80	4	5	ND	1	59	6	2	2	79	1.65	.116	4	4	.99	50	.17	2	3.68	.19	1.05	1	8
LS-89-9	25	74	8	133	.1	5	9	827	3.36	5	5	ND	1	286	1	2	2	42	.71	.061	2	5	.42	68	.07	2	1.58	.05	.37	1	2
LS-89-10	33	55	17	31	.2	6	11	188	4.74	3	5	ND	1	38	1	2	2	28	.24	.045	2	5	.14	49	.06	3	.60	.05	.27	1	20
LS-89-11	78	1381	30	1105	11.7	7	6	459	6.31	6	5	ND	1	139	3	2	2	38	.43	.050	2	6	.52	19	.09	2	1.14	.02	.09	1	86
LS-89-12	14	359	9	104	.1	10	11	1118	3.34	5	5	ND	1	62	1	2	2	49	2.04	.112	2	11	.78	30	.12	2	1.56	.05	.28	1	9
LS-89-13	5	94	13	257	.1	5	9	713	2.72	5	5	ND	1	110	2	2	3	64	1.39	.094	2	5	.59	24	.12	13	2.51	.15	.39	1	6
LS-89-14	10	45	7	187	.1	6	10	981	3.34	9	5	ND	1	81	1	2	2	68	1.81	.103	2	6	.73	34	.13	3	3.37	.17	.62	2	8
LS-89-15	145	19	31	23	1.7	5	9	139	5.81	13	5	ND	1	128	1	2	5	24	.07	.039	2	5	.06	48	.05	2	.34	.09	.42	1	420
LS-89-16	109	30	16	17	.6	9	8	46	4.19	15	5	ND	2	54	1	2	2	24	.02	.026	2	7	.02	50	.02	3	.19	.03	.21	1	360
LS-89-17	44	397	24	47	2.1	6	14	413	5.85	12	5	ND	1	106	1	2	2	54	.40	.090	2	5	.18	41	.10	2	.68	.04	.29	1	200
LS-89-18	12	421	9	174	.9	7	15	1288	6.93	6	5	ND	2	196	1	2	5	89	.95	.110	3	5	.80	27	.15	2	2.23	.07	.53	1	57
LS-89-19	38	3978	13	1100	5.2	7	24	426	9.97	12	5	ND	1	55	7	2	2	54	.47	.066	2	5	.37	25	.06	2	.92	.03	.19	1	300
LS-89-20	42	770	12	98	.3	9	33	751	9.00	6	5	ND	1	56	1	2	2	53	1.91	.124	2	5	.61	22	.11	4	1.43	.05	.19	1	7
LS-89-21	2	60	7	40	.2	7	12	395	6.73	11	5	ND	2	278	1	2	2	110	1.17	.131	2	6	.63	28	.16	2	2.26	.13	.36	1	1
LS-89-22	3	57	17	36	.1	9	18	190	5.61	13	5	ND	1	166	1	2	2	47	1.12	.114	2	5	.25	30	.15	4	1.04	.12	.11	1	1
LS-89-23	27	44	12	16	.3	7	3	110	1.61	4	5	ND	1	5	1	2	2	13	.03	.024	2	7	.08	28	.01	2	.22	.01	.15	1	1
LS-89-24	12	31	43	16	.6	10	7	170	2.82	2	5	ND	2	1	1	2	2	5	.02	.007	2	8	.06	10	.01	3	.13	.01	.07	1	48
LS-89-25	4	175	5	30	.2	18	29	233	3.02	15	5	ND	1	215	1	2	2	53	.99	.111	2	25	.27	36	.13	11	1.15	.10	.07	1	7
LS-89-26	6	284	3	27	.3	12	108	229	5.66	15	5	ND	1	103	1	2	2	23	1.01	.079	2	8	.23	19	.09	8	.69	.02	.05	1	4
LS-89-27	9	124	11	44	.3	6	10	346	6.73	16	5	ND	1	128	1	2	2	56	.74	.079	2	7	.48	31	.15	2	1.28	.02	.06	1	1
LS-89-28	32	548	9	30	6.8	11	312	115	8.34	105	5	ND	3	54	1	2	2	63	.22	.112	2	13	.10	20	.18	10	.31	.03	.32	1	68
LS-89-29	13	416	9	31	8.2	8	200	75	7.02	113	5	ND	3	48	1	2	2	45	.11	.094	2	8	.03	28	.17	2	.20	.03	.29	4	45
LS-89-30	15	218	9	14	3.6	5	31	76	8.17	154	5	ND	3	78	1	2	2	54	.10	.096	2	11	.18	23	.13	3	.36	.05	.59	2	6
LS-89-31	39	2063	9	77	5.2	23	44	1029	9.71	22	5	ND	2	55	1	2	2	77	2.93	.092	3	15	.21	14	.12	2	.97	.03	.12	3	3
LS-89-32	66	2132	33	81	1.3	19	133	169	43.00	77	5	ND	5	7	1	2	4	136	.03	.095	2	95	.04	34	.11	2	.44	.01	.06	5	15
LS-89-33	34	1424	17	119	2.4	7	74	173	24.35	63	5	ND	5	14	1	2	2	199	.07	.060	2	117	.19	65	.14	2	.62	.01	.22	1	7
LS-89-34	22	573	20	68	.4	13	37	224	12.76	44	5	ND	2	62	1	2	2	78	.29	.096	2	30	.30	43	.11	2	.88	.04	.13	1	9
LS-89-35	6	106	16	40	.2	13	15	189	4.77	45	5	ND	2	107	1	2	2	62	.56	.091	3	14	.31	36	.13	31	.91	.08	.14	1	2
LS-89-36	2	54	5	50	.1	10	16	282	4.61	13	5	ND	1	212	1	2	2	57	.78	.132	2	6	.34	28	.13	32	.87	.07	.13	1	1
LS-89-37	4	29	8	27	.1	12	13	331	4.16	19	5	ND	1	71	1	2	2	57	1.17	.097	2	11	.21	21	.11	2	1.06	.09	.10	1	3
LS-89-38	9	377	9	113	.4	14	33	3099	6.33	25	5	ND	2	20	1	2	2	51	.49	.089	5	27	.35	71	.11	15	.83	.01	.41	1	1
LS-89-39	59	138	175	117	6.1	11	11	1213	4.66	5	5	ND	2	8	1	2	29	57	.07	.024	2	13	.95	33	.05	35	1.03	.01	.22	1	1040
LS-89-40	11	35	30	20	.3	8	8	249	2.97	4	5	ND	2	3	1	2	2	9	.03	.018	2	8	.11	18	.01	29	.27	.01	.14	1	29
LS-89-41	2	33	7	98	.2	8	13	2011	3.29	6	5	ND	3	55	1	2	2	46	.51	.090	3	9	.88	111	.14	6	1.60	.03	.63	1	1
LS-89-42	13	29	272	15	1.9	10	4	70	3.20	2	5	ND	2	6	1	2	8	6	.01	.010	2	9	.03	21	.01	2	.11	.01	.13	1	120
STD C/AU-R	18	63	39	132	6.6	67	31	968	4.20	42	23	8	40	49	19	15	22	60	.50	.090	40	53	.91	179	.07	35	1.90	.06	.13	11	530

125° 20'

55° 45'

1250

1500

1000

TAKLA (2)
HOGEM (1)

Duckling Creek

LING II

LING I

S-31
S-28,29,30,32,33
rusty, altered py, cpy

S-25,26,27
py, cpy, bx
Rusty gougey bx matrix

D-29 Talus
andesite, pyritic

D-28 Talus
ep alt, andesite
pyritic

TIELINE
7+00 S

Rusty, silicified zones in
andesite, py ~120°/40° NE

D-27
40

silicified +
py andesite

D-26

11+00 S

L 5+00 W

L 4+00 W

L 3+00 W

L 2+00 W

L 1+50 W

L 1+00 W

0+00

L 1+00 E

L 2+00 E

10+50 S

5+50 S

D-1

D-22

D-25

D-15-21

D-24

D-23

S-34,35

D-10

D-11,12

LD-2

S-22

S-2

S-1

35

32

Rusty scree slope, 35 cm qtz vein;
py; 120°/32° NE, and silicified
andesite, py
S-23,24,36-42
D-13,14

Silicified andesite/qtz veins up to
0.8 m wide
py, cpy, covellite ≈ 090°/45° N
S-3-21
D-3-9

N

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,448

LEGEND

1 HOGEM INTRUSIVE (JURASSIC)

MOSTLY PINK SYENITE AND MONZONITE WITH VARIABLE COARSE GRAIN HYBRID STAGES OF PORPHYRITIC SYENITE (MEGACRYSTIC) THROUGH FINE GRAIN MONZONITES

2 TAKLA GROUP (TRIASSIC)

MOSTLY GREEN FINE GRAIN ANDESITIC VOLCANICS WITH MINOR TUFF AND BRECCIA. USUALLY CONTAINS TRACE AMOUNT OF PYRITE, MAGNETITE AND EPIDOTE. CONTAINS MOST OF THE MINERALIZATION IN THE FORM OF SMALL LENSES OR PODS OF MASSIVE TO DISSEMINATED CHALCOPYRITE - PYRITE - PYRROTITE WITH ASSOCIATED PROPYLITIC ALTERATION

• ROCK SAMPLE LOCATION

NOTE: ALL ROCK SAMPLE NUMBERS
ARE PREFIXED "L", i.e.:
LD-89-__
LS-89-__

MINERALIZATION

py	PYRITE
cpy	CHALCOPYRITE
ep	EPIDOTE
bx	BRECCIA

CATHEDRAL GOLD CORPORATION

LING PROPERTY

FIGURE 3

N.T.S. 93N/14
M.D. OMINECA

1989
GEOLOGY & SAMPLE LOCATION MAP

metres 0 200 400 600 800 metres

SCALE: 1:10000	GEOLOGIST: S. BISHOP
DATE: NOVEMBER 1989	DRAWN BY: J. CORKUM