

ARIS SUMMARY SHEET

District Geologist, Smithers

Off Confidential: 92.09.10

ASSESSMENT REPORT 21900

MINING DIVISION: Liard

PROPERTY: Galore Creek

LOCATION: LAT 57 07 00 LONG 131 27 00
 UTM 09 6332824 351646
 NTS 104G03W 104G04E

CLAIM(S): GC, Hab, Buy, Kennco GC, SK

OPERATOR(S): Kennecott Can.

AUTHOR(S): Yarrow, E.W.

REPORT YEAR: 1991, 358 Pages

COMMODITIES

SEARCHED FOR: Copper, Gold, Silver

KEYWORDS: Triassic, Pyroclastics, Trachytes, Breccias, Syenite dykes
 Metasomatism, Hydrothermal alteration, Pods, Mantos, Chalcopyrite
 Bornite, Native copper, Chalcocite, Malachite

WORK

DONE: Drilling, Geophysical, Geochemical

DIAD 6186.5 m 22 hole(s); NQ
 Map(s) - 1; Scale(s) - 1:10 000

EMAB 459.0 km
 Map(s) - 3; Scale(s) - 1:10 000

IPOL 90.2 km
 Map(s) - 73; Scale(s) - 1:2000

MAGA 459.0 km
 Map(s) - 3; Scale(s) - 1:10 000

RADA 459.0 km
 Map(s) - 4; Scale(s) - 1:10 000

SAMP 925 sample(s); CU, AU, AG

RELATED

REPORTS: 00367, 00368, 00371, 00372, 00373, 00445, 19397, 20558

MINFILE: 104G 090, 104G 091, 104G 092, 104G 093

LOG NO:	DEC 11 1991	RD.
ACTION:		
FILE NO:		

**REPORT ON AIRBORNE, INDUCED POLARIZATION
AND
DIAMOND DRILL SURVEYS**

**GALORE CREEK GROUP I, II, & III CLAIMS
LIARD MINING DIVISION, BRITISH COLUMBIA
NTS 104G/3 & 4
LAT. 57 07'30"N LONG. 131 27'W**

**SUB-RECORDER
RECEIVED
DEC 9 - 1991
M.R. # \$
VANCOUVER, B.C.**

*Kennecott Canada Inc.
#138-200 Granville Street
Granville Square
Vancouver, B.C.
V6C 1S4*

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

Owner: Stikine Copper Ltd.
Operator: Kennecott Canada Inc.
Author: E.W. Yarrow
Date: December 3, 1991

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21,900

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1.0 INTRODUCTION

The following report describes the geophysical and diamond drill programs conducted by Kennecott Canada Inc. personnel during the period June 10, 1991 to October 26, 1991. For assessment purposes the Galore Creek claims have been subdivided into three groups (Group I,II,III). Work has been filed on these claim groups according to anniversary dates of individual claims and the timeframe work was done. All relevant data on the claims is contained in the "Claims & Ownership" section of this report.

The 1991 program at Galore Creek comprised airborne geophysics, induced polarization (IP) surveys and an extensive diamond drill program. Table 1 is a claim grouping breakdown of the work being applied for assessment credit.

TABLE 1: Breakdown Of 1991 Exploration Program

WORK TIMEFRAME	CLAIM GROUP NO	DRILL HOLE NO	METERS DRILLED	AIRBORNE GEOPHYSICS	IP
June 25 - Sept.4/91	I	GC400,402, 403	1030.5	38.4km	7km
Sept.9 - Oct.10/91	I	GC410,414, 417,419, 432	1063.9		
July 20 - Sept.1/91	II	GC388,390, 393,393A, 397,398	2047.6		
Oct.8 - Oct.18/91	II	GC433,434, 435	912.7		
July 20 - Sept.3/91	III	GC404,405, 409	551.4		
Sept.23 - Oct.4/91	III	GC420,427	580.4		

KENNECOTT CANADA INC.

138 - 200 GRANVILLE STREET

VANCOUVER, B.C.

GALORE CREEK PROJECT

DEPOSIT LOCATION

COMPILED BY: AM, FLC

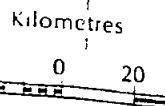
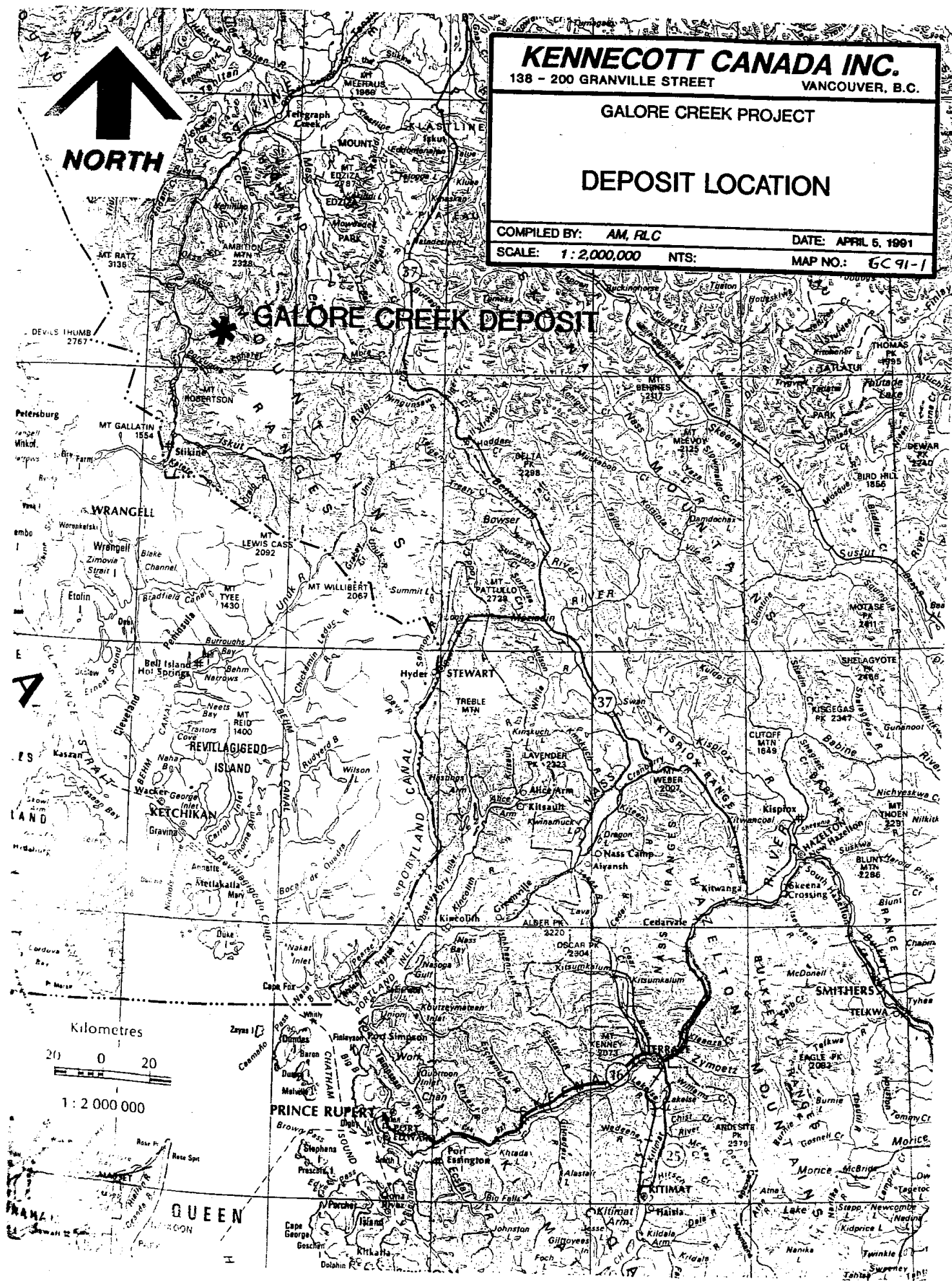
DATE: APRIL 6, 1991

SCALE: 1:2,000,000

NTS:

MAP NO.: GC 91-1

GALORE CREEK DEPOSIT



1:2,000,000

2.0 LOCATION, ACCESS & CLIMATE

The Galore Creek property of Stikine Copper Ltd. is situated in a basin at the headwaters of Galore Creek, a tributary of the Scud River, in the northwestern part of British Columbia. The property is centred at a latitude of 57°07'30"N and a longitude of 131°27'W (see Plate GC91-1). The claims occur within the Liard Mining Division and extend across the boundary between N.T.S. mapsheets 104G/3 and 104G/4.

The property is approximately 355 kilometres northwest of Smithers, B.C. which is the major supply centre for the area. Central Mountain Air in 1991 operated a scheduled fixed-wing service from Smithers to the Bob Quinn Airstrip which is located 70 kilometres east of the Galore Creek property. In addition, a turbine-equipped Otter aircraft made trips to the Galore Creek airstrip on a weekly basis. In 1991 helicopters were available on a casual basis from Bronson Airstrip (55km), Bob Quinn Airstrip (70km), and the Galore Creek camp.

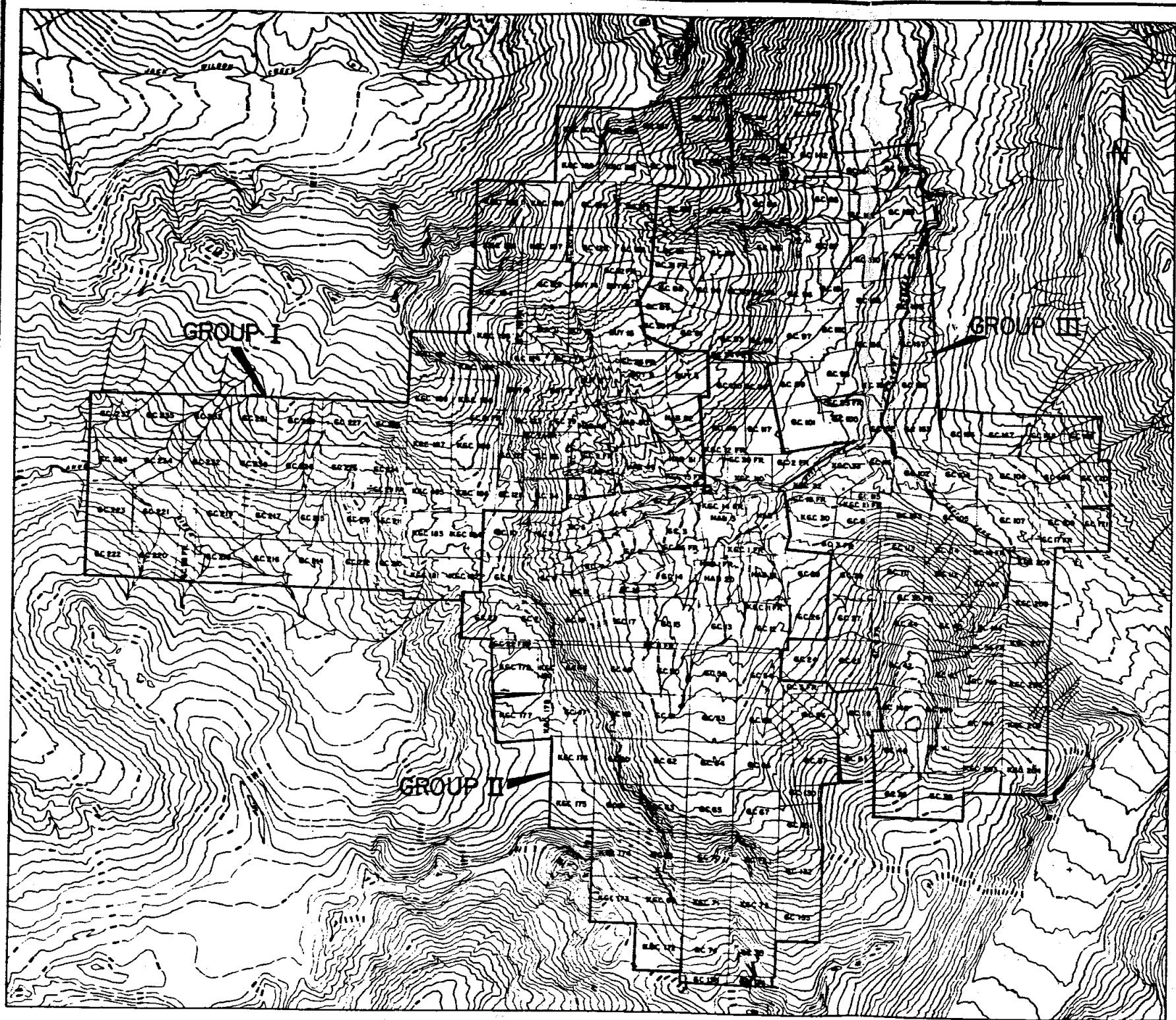
A private road was constructed by Stikine Copper Ltd. from the Scud Airstrip, at the junction of the Scud and Stikine Rivers, to the Galore Creek camp in the early 1960's. At that time it was anticipated that production from the Galore Creek copper deposit was imminent. As it turned out the only use of the road was for transporting several pieces of heavy duty equipment. With lack of use over the years the road has become overgrown with alders and bridges have been washed out.

The old road between the Galore Creek (Portal) Airstrip and the camp has been upgraded to allow passage of four-wheel drive vehicles. This permits the transport of personnel and supply by truck instead of by helicopter.

The camp is located on the eastern side of the Galore Creek valley at an elevation of approximately 760 meters above sea level. Elevations within the property boundary vary from a low of 550 meters to over 1,800 meters on the slopes of Saddlehorn Mountain.

Snow pack in the area is heavy, with peak levels of 5 meters or more being typical. Snow-free conditions below the 1,200 meter elevation are restricted to mid-June to late-September, with air temperatures remaining relatively cool throughout the summer.

Vegetation is generally quite dense within the Galore Creek valley and consists of mature stands of pine, spruce and cottonwood at lower elevations and passing into scrub evergreens up to the treeline at 1,200 meters. Underbrush of alder, willow and devils club is thick, this, in combination with the deeply incised creek gullies makes traversing arduous.



STIKINE COPPER LIMITED
 GALORE CREEK PROPERTY
 Galore Creek, British Columbia
 CLAIM GROUPING

Date: Nov. 19 Plate No. GC. 91-2
 SCALE

0 5 10 15 KM.

3.0 CLAIMS & OWNERSHIP (Plate GC91-2)

The Galore Creek property consists of 252 claims and 39 fractions for a total of 291 two-post claims. These claims are wholly owned by Stikine Copper Ltd. which is controlled by Kennecott Canada Inc., Hudson Bay Mining and Smelting Co. Ltd. and Cominco Ltd. Assessment work has been filed on claims based on anniversary dates and the dates work was conducted (Table 1). A complete listing of the claims by grouping and new anniversary dates (if work accepted) is given in Table 2.

4.0 PERSONNEL

The following personnel were involved in the Galore Creek Project during the course of the 1991 field season: E.W.Yarrow, Field Manager; S.Enns, Senior Geologist; M.Baknes, P.Varas, P.Beck, T. Heah and S. Butler, all geologists; R.Weishaupt and R. Versoza, technicians. Overall project supervision was provided by D. Johnson of Kennecott, Vancouver. Statement of qualifications for relevant technical personnel are located in Appendix II of this report.

Contract companies which completed work at the project site during the course of the field season are: Northern Mountain Helicopters, Prince George, B.C.; Quest Canada Drilling, Vancouver, B.C.; Lloyd Geophysics Inc., Vancouver, B.C.; Aerodat Limited, Mississauga, Ontario; Cando Foods Limited, Whitehorse, Y.T.; Gordon Clark & Associates, Whitehorse, Y.T. and; Central Mountain Airlines, Smithers, B.C.

5.0 HISTORY

Copper deposits were first discovered in the Galore Creek valley in 1955 by prospectors working for Hudson Bay Exploration and Development Co. Ltd. Staking and sampling was conducted in the same year. In 1956, mapping, trenching and diamond drilling were carried out. Due to the remoteness of the area and higher priorities for expenditures elsewhere, no further work was undertaken and all but 16 claims were allowed to lapse.

In 1959, Kennco Exploration sampled the creeks in the area as part of a reconnaissance stream silt survey. Kennco began staking the highly anomalous copper samples in the headwaters of Galore Creek in 1960. The claims surrounded the H.B.E.D. ground as well as four claims which had been optioned by Cominco from one of the co-discoverers. In 1962 the three companies agreed to jointly develop the property and formed Stikine Copper to be the corporate vehicle.

TABLE 2

GALORE CREEK GROUP I						
	CLAIM NAME	NEW	OLD	No. OF	CURRENT	NEW
		RECORD NO.	RECORD	UNITS	EXPIRY	EXPIRY
1	Buy 4	226175	4489	1	Aug 8/92	Aug 8/2001
2	Buy 5	226176	4490	1	Aug 8/92	Aug 8/2001
3	Buy 6	226177	4491	1	Aug 8/92	Aug 8/2001
4	Buy 7	226178	4492	1	Aug 8/92	Aug 8/2001
5	Buy 8	226179	4493	1	Aug 8/92	Aug 8/2001
6	Buy 11	226180	4504	1	Aug. 13/92	Aug. 13/2001
7	Buy 13	226181	4506	1	Aug. 13/92	Aug. 13/2001
8	Buy 14	226182	4507	1	Aug. 13/92	Aug. 13/2001
9	Buy 15	226183	4508	1	Aug. 13/92	Aug. 13/2001
10	Buy 16	226184	4509	1	Aug. 13/92	Aug. 13/2001
11	HAB 47	226164	3792	1	October 11/92	October 11/99
12	HAB 48	226165	3793	1	October 11/92	October 11/99
13	HAB 49	226166	3794	1	October 11/92	October 11/99
14	HAB 50	226167	3795	1	October 11/92	October 11/99
15	HAB 51	226168	3796	1	October 11/92	October 11/99
16	HAB 52	226169	3797	1	October 11/92	October 11/99
17	GC 34	226247	8676	1	Sept21/92	Sept 21/2001
18	GC 36	226249	8678	1	Sept21/92	Sept 21/2001
19	GC 37	226250	8679	1	Sept21/92	Sept 21/2001
20	GC 79	226286	8786	1	Sept21/92	Sept 21/2001
21	GC 121	226344	9618	1	Sept. 5/92	Sept. 5/2001
22	GC 122	226345	9619	1	Sept. 5/92	Sept. 5/2001
23	GC 123	226346	9620	1	Sept. 5/92	Sept. 5/2001
24	GC 124	226347	9621	1	Sept. 5/92	Sept. 5/2001
25	GC 125	226348	9622	1	Sept. 5/92	Sept. 5/2001
26	GC 126	226349	9623	1	Sept. 5/92	Sept. 5/2001
27	GC 127	226350	9624	1	Sept. 5/92	Sept. 5/2001
28	GC 128	226351	9625	1	Sept. 5/92	Sept. 5/2001
29	GC 129	226352	9626	1	Sept. 5/92	Sept. 5/2001
30	GC 136	226359	9633	1	Sept. 5/92	Sept. 5/2001
31	GC 137	226360	9634	1	Sept. 5/92	Sept. 5/2001
32	GC 138	226361	9635	1	Sept. 5/92	Sept. 5/2001
33	GC 139	226362	9636	1	Sept. 5/92	Sept. 5/2001
34	GC 140	226363	9637	1	Sept. 5/92	Sept. 5/2001
35	GC 141	226364	9638	1	Sept. 5/92	Sept. 5/2001
36	GC 142	226365	9639	1	Sept. 5/92	Sept. 5/2001
37	GC 143	226366	9640	1	Sept. 5/92	Sept. 5/2001
38	KENNCO GC 181	226417	12184	1	October 9/93	October 9/2000
39	KENNCO GC 182	226418	12185	1	October 9/93	October 9/2000
40	KENNCO GC 183	226419	12186	1	October 9/92	October 9/99
41	KENNCO GC 184	226420	12187	1	October 9/92	October 9/99
42	KENNCO GC 185	226421	12188	1	October 9/92	October 9/99
43	KENNCO GC 186	226422	12189	1	October 9/92	October 9/99
44	KENNCO GC 187	226423	12190	1	October 9/92	October 9/99
45	KENNCO GC 188	226424	12191	1	October 9/92	October 9/99
46	KENNCO GC 189	226425	12192	1	October 9/92	October 9/99
47	KENNCO GC 190	226426	12193	1	October 9/92	October 9/99
48	KENNCO GC 191	226427	12194	1	October 9/92	October 9/99
49	KENNCO GC 192	226428	12195	1	October 9/92	October 9/99

50	GC 144	226367	9641	1	Sept. 5/99	Sept. 5/2001
51	GC 145	226368	9642	1	Sept. 5/99	Sept. 5/2001
52	GC 146	226369	9643	1	Sept. 5/99	Sept. 5/2001
53	GC 147	226370	9644	1	Sept. 5/99	Sept. 5/2001
54	GC 148	226371	9645	1	Sept. 5/99	Sept. 5/2001
55	GC 149	226372	9646	1	Sept. 5/99	Sept. 5/2001
56	GC 150	226374	10192	1	Nov 7/1999	Nov 7/2001
57	GC 151	226375	10193	1	Nov 7/1999	Nov 7/2001
58	GC 152	226376	10194	1	Nov 7/1999	Nov 7/2001
59	GC 153	226377	10195	1	Nov 7/1999	Nov 7/2001
60	GC 154	226378	10196	1	Nov 7/1999	Nov 7/2001
61	GC 155	226379	10197	1	Nov 7/1999	Nov 7/2001
62	GC 156	226380	10198	1	Nov 7/1999	Nov 7/2001
63	GC 157	226381	10199	1	Nov 7/1999	Nov 7/2001
64	GC 158	226382	10200	1	Nov 7/1999	Nov 7/2001
65	GC 159	226383	10201	1	Nov 7/1999	Nov 7/2001
66	GC 160	226384	10202	1	Nov 7/1999	Nov 7/2001
67	GC 161	226385	10203	1	Nov 7/1999	Nov 7/2001
68	GC 162	226386	10204	1	Nov 7/1999	Nov 7/2001
69	GC 163	226387	10205	1	Nov 7/1999	Nov 7/2001
70	GC 164	226388	10206	1	Nov 7/1999	Nov 7/2001
71	GC 165	226389	10207	1	Nov 7/1999	Nov 7/2001
72	GC 166	226390	10849	1	Aug. 6/2000	Aug. 6/2001
73	GC 167	226391	10850	1	Aug. 6/2000	Aug. 6/2001
74	GC 168	226392	10851	1	Aug. 6/2000	Aug. 6/2001
75	GC 169	226393	10852	1	Aug. 6/2000	Aug. 6/2001
76	GC 170	226394	10853	1	Aug. 6/2000	Aug. 6/2001
77	GC 171	226395	10854	1	Aug. 6/2000	Aug. 6/2001
78	XGC 30	226521	14896	1	Sept. 4/97	Sept. 4/2001
79	XGC 32	226522	14897	1	Sept. 4/97	Sept. 4/2001
80	XGC 33	226523	14898	1	Sept. 4/97	Sept. 4/2001
81	KENNCO GC 203	226439	12206	1	Oct 9/1998	Oct 9/2001
82	KENNCO GC 204	226440	12207	1	Oct 9/1998	Oct 9/2001
83	KENNCO GC 205	226441	12208	1	Oct 9/1998	Oct 9/2001
84	KENNCO GC 206	226442	12209	1	Oct 9/1998	Oct 9/2001
85	KENNCO GC 207	226443	12210	1	Oct 9/1998	Oct 9/2001
86	KENNCO GC 208	226444	12211	1	Oct 9/1998	Oct 9/2001
87	KENNCO GC 209	226445	12212	1	Oct 9/1998	Oct 9/2001
88	GC 3 Fr.	226396	10855	1	Aug. 6/2000	Aug. 6/2001
89	GC 6 Fr.	226398	10858	1	Aug. 6/2000	Aug. 6/2001
90	GC 10 FR	226402	11006	1	Sept 10/1997	Sept 10 2001
91	GC 16 Fr.	226519	14894	1	Sept. 4/97	Sept. 4/2001
92	GC 17 Fr.	226520	14895	1	Sept. 4/97	Sept. 4/2001
93	GC 23 FR	226553	15986	1	Oct 30/1997	Oct 30/2001
94	GC 31 FR	226561	16234	1	Nov 23/1997	Nov 23/2001
95	GC 35 FR	226565	16238	1	Nov 23/1997	Nov 23/2001
96	GC 36 FR	226566	16239	1	Nov 23/1997	Nov 23/2001
97	Kennoo GC 15 Fr	226467	11976	1	Aug. 29/94	Aug. 29/2001
98	SK 1 Fr.	226633	22739	1	June 2/2000	June 2/2001
99	SK 2 Fr.	226634	22740	1	June 2/2000	June 2/2001
100	S.K. 3 FR	226659	24745	1	Sept 12/1997	Sept 12/2001

GALORE CREEK GROUP II						
	CLAIM NAME	NEW RECORD NO.	OLD RECORD	No. OF UNITS	CURRENT EXPIRY DATE	NEW EXPIRY DATE
1	HAB 1	226160	3760	1	October 11/95	Oct 11/2001
2	HAB 3	226161	3762	1	October 11/95	Oct 11/2001
3	HAB 18	22162	3777	1	October 11/95	Oct 11/2001
4	HAB 20	226163	3779	1	October 11/95	Oct 11/2001
5	GC 1	226219	8643	1	September 21/95	Sept 21/2001
6	GC 2	226220	8644	1	September 21/95	Sept 21/2001
7	GC 3	226221	8645	1	September 21/95	Sept 21/2001
8	GC 4	226222	8646	1	September 21/95	Sept 21/2001
9	GC 5	226223	8647	1	September 21/95	Sept 21/2001
10	GC 6	226224	8648	1	September 21/95	Sept 21/2001
11	GC 7	226225	8649	1	September 21/95	Sept 21/2001
12	GC 8	226226	8650	1	September 21/95	Sept 21/2001
13	GC 9	226227	8651	1	September 21/95	Sept 21/2001
14	GC 10	226228	8652	1	September 21/95	Sept 21/2001
15	GC 11	226229	8653	1	September 21/95	Sept 21/2001
16	GC 12	226230	8654	1	September 21/95	Sept 21/2001
17	GC 13	226231	8655	1	September 21/95	Sept 21/2001
18	GC 14	226232	8656	1	September 21/95	Sept 21/2001
19	GC 15	226233	8657	1	September 21/95	Sept 21/2001
20	GC 16	226234	8658	1	September 21/95	Sept 21/2001
21	GC 17	226235	8659	1	September 21/95	Sept 21/2001
22	GC 18	226236	8660	1	September 21/95	Sept 21/2001
23	GC 19	226237	8661	1	September 21/95	Sept 21/2001
24	GC 21	226238	8663	1	September 21/95	Sept 21/2001
25	GC 23	226239	8665	1	September 21/95	Sept 21/2001
26	GC 26	226242	8668	1	September 21/95	Sept 21/2001
27	GC 28	226244	8670	1	September 21/95	Sept 21/2001
28	GC 35	226248	8677	1	September 21/95	Sept 21/2001
29	GC 46	226259	8688	1	September 21/95	Sept 21/2001
30	GC 47	226260	8689	1	September 21/95	Sept 21/2001
31	GC 48	226261	8690	1	September 21/95	Sept 21/2001
32	GC 49	226262	8691	1	September 21/95	Sept 21/2001
33	GC 50	226263	8692	1	September 21/95	Sept 21/2001
34	GC 51	226264	8693	1	September 21/95	Sept 21/2001
35	GC52	226265	8694	1	September 21/95	Sept 21/2001
36	GC53	226266	8695	1	September 21/95	Sept 21/2001
37	GC54	226267	8696	1	September 21/85	Sept 21/2001
38	GC55	226268	8697	1	September 21/95	Sept 21/2001
39	GC56	226269	8698	1	September 21/95	Sept 21/2001
40	GC57	226270	8699	1	September 21/95	Sept 21/2001
41	GC58	226271	8700	1	September 21/95	Sept 21/2001
42	GC59	226272	8701	1	September 21/95	Sept 21/2001
43	GC60	226273	8702	1	September 21/95	Sept 21/2001
44	GC61	226274	8703	1	September 21/95	Sept 21/2001
45	GC62	226275	8704	1	September 21/95	Sept 21/2001
46	GC63	226276	8705	1	September 21/95	Sept 21/2001
47	GC64	226277	8706	1	September 21/95	Sept 21/2001
48	GC65	226278	8707	1	September 21/95	Sept 21/2001
49	GC66	226279	8708	1	September 21/95	Sept 21/2001

50	KENNCO GC 193	226429	12196	1	October 9/92	October 9/99
51	KENNCO GC 194	226430	12197	1	October 9/92	October 9/99
52	KENNCO GC 195	226431	12198	1	October 9/92	October 9/99
53	KENNCO GC 196	226432	12199	1	October 9/92	October 9/99
54	KENNCO GC 197	226433	12200	1	October 9/92	October 9/99
55	KENNCO GC 198	226434	12201	1	October 9/92	October 9/99
56	KENNCO GC 199	226435	12202	1	October 9/92	October 9/99
57	KENNCO GC 200	226436	12203	1	October 9/92	October 9/99
58	KENNCO GC 201	226437	12204	1	October 9/92	October 9/99
59	KENNCO GC 202	226438	12205	1	October 9/92	October 9/99
60	GC 210	226469	13444	1	April 2/92	April 2/2001
61	GC 211	226470	13445	1	April 2/92	April 2/2001
62	GC 212	226471	13446	1	April 2/92	April 2/2001
63	GC 213	226472	13447	1	April 2/92	April 2/2001
64	GC 214	226473	13448	1	April 2/92	April 2/2001
65	GC 215	226474	13449	1	April 2/92	April 2/2001
66	GC 216	226475	13450	1	April 2/92	April 2/2001
67	GC 217	226476	13451	1	April 2/92	April 2/2001
68	GC 218	226477	13452	1	April 2/92	April 2/2001
69	GC 219	226478	13453	1	April 2/92	April 2/2001
70	GC 220	226479	13454	1	April 2/92	April 2/2001
71	GC 221	226480	13455	1	April 2/92	April 2/2001
72	GC 222	226481	13456	1	April 2/92	April 2/2001
73	GC 223	226482	13457	1	April 2/92	April 2/2001
74	GC 224	226483	13458	1	April 2/92	April 2/2001
75	GC 225	226484	13571	1	April 6/92	April 6/2001
76	GC 226	226485	13572	1	April 6/92	April 6/2001
77	GC 227	226486	13573	1	April 6/92	April 6/2001
78	GC 228	226487	13574	1	April 6/92	April 6/2001
79	GC 229	226488	13575	1	April 6/92	April 6/2001
80	GC 230	226489	13576	1	April 6/92	April 6/2001
81	GC 231	226490	13577	1	April 6/92	April 6/2001
82	GC 232	226491	13578	1	April 6/92	April 6/2001
83	GC 233	226492	13579	1	April 6/92	April 6/2001
84	GC 234	226493	13580	1	April 6/92	April 6/2001
85	GC 235	226494	13581	1	April 6/92	April 6/2001
86	GC 236	226495	13582	1	April 6/92	April 6/2001
87	GC 237	226496	13583	1	April 6/92	April 6/2001
88	GC 7 FR	226399	11003	1	September 10/92	Sept 10/2001
89	GC 9 FR	226401	11005	1	September 10/92	Sept 10/2001
90	GC 19 FR	226549	15982	1	October 30/92	October 30/99
91	GC 20 FR	226550	15983	1	October 30/92	October 30/99
92	GC 21 FR	226551	15984	1	October 30/92	October 30/99
93	GC 24 FR	226554	15987	1	October 30/92	October 30/99
94	GC 25 FR	226555	15988	1	October 30/92	October 30/99
95	GC 27 FR	226559	16184	1	November 17/92	Nov 17/2001
96	GC 28 FR	226559	15990	1	October 30/92	October 30/99
97	GC 29 FR	226560	15991	1	October 30/92	October 30/99
98	GC 32 FR	226562	16235	1	November 23/92	Nov 23/2001
99	GC 33 FR	226563	16236	1	November 23/92	Nov 23/2001

GALORE CREEK GROUP III						
	CLAIM NAME	NEW RECORD NO.	RECORD NO.	No. OF UNITS	CURRENT EXPIRY DATE	NEW EXPIRY DATE
1	GC 24	226240	8666	1	Sept 21/1997	Sept. 21/2001
2	GC 25	226241	8667	1	Sept 21/1997	Sept. 21/2001
3	GC 27	226243	8669	1	Sept 21/1997	Sept. 21/2001
4	GC29	226245	8671	1	Sept 21/1997	Sept. 21/2001
5	GC 31	226246	8673	1	Sept 21/1997	Sept. 21/2001
6	GC 38	226251	8680	1	Sept 21/1997	Sept. 21/2001
7	GC 39	226252	8681	1	Sept 21/1997	Sept. 21/2001
8	GC 40	226253	8682	1	Sept 21/1997	Sept. 21/2001
9	GC 41	226254	8683	1	Sept 21/1997	Sept. 21/2001
10	GC 42	226255	8684	1	Sept 21/1997	Sept. 21/2001
11	GC 43	226256	8685	1	Sept 21/1997	Sept. 21/2001
12	GC 44	226257	8686	1	Sept 21/1997	Sept. 21/2001
13	GC 45	226258	8687	1	Sept 21/1997	Sept. 21/2001
14	GC 80	226287	8808	1	Nov 3/1997	Nov. 3/2001
15	GC 81	226288	8807	1	Nov 3/1997	Nov. 3/2001
16	GC 82	226289	8808	1	Nov 3/1997	Nov. 3/2001
17	GC 83	226290	8809	1	Nov 3/1997	Nov. 3/2001
18	GC 84	226291	8810	1	Nov 3/1997	Nov. 3/2001
19	GC 85	226292	8811	1	Nov 3/1997	Nov. 3/2001
20	GC 86	226293	8812	1	Nov 3/1997	Nov. 3/2001
21	GC 87	226294	8813	1	Nov 3/1997	Nov. 3/2001
22	GC 88	226295	8814	1	Nov 3/1997	Nov. 3/2001
23	GC 89	226296	8815	1	Nov 3/1997	Nov. 3/2001
24	GC 90	226297	8816	1	Nov 3/1997	Nov. 3/2001
25	GC 91	226298	8817	1	Nov 3/1997	Nov. 3/2001
26	GC 92	226299	8818	1	Nov 3/1997	Nov. 3/2001
27	GC 93	226300	8819	1	Nov 3/1997	Nov. 3/2001
28	GC 94	226301	8820	1	Nov 3/1997	Nov. 3/2001
29	GC 95	226302	8821	1	Nov 3/1997	Nov. 3/2001
30	GC 96	226303	8822	1	Nov 3/1997	Nov. 3/2001
31	GC 97	226304	8823	1	Nov 3/1997	Nov. 3/2001
32	GC 98	226305	8824	1	Nov 3/1999	Nov. 3/2001
33	GC 99	226306	8825	1	Nov 3/1999	Nov. 3/2001
34	GC 100	226307	8826	1	Nov 3/1999	Nov 3/2001
35	GC 101	226308	8827	1	Nov 3/2000	Nov 3/2001
36	GC 102	226309	8828	1	Nov 3/1999	Nov 3/2001
37	GC 103	226310	8829	1	Nov 3/1999	Nov 3/2001
38	GC 104	226311	8830	1	Nov 3/1999	Nov 3/2001
39	GC 105	226312	8831	1	Nov 3/1999	Nov 3/2001
40	GC 106	226313	8832	1	Nov 3/1999	Nov 3/2001
41	GC 107	226314	8833	1	Nov 3/1999	Nov 3/2001
42	GC 108	226315	8834	1	Nov 3/1999	Nov 3/2001
43	GC 109	226316	8835	1	Nov 3/1999	Nov 3/2001
44	GC 111	226334	9608	1	Sept. 5/99	Sept. 5/2001
45	GC 112	226335	9609	1	Sept. 5/99	Sept. 5/2001
46	GC 113	226336	9610	1	Sept. 5/99	Sept. 5/2001
47	GC 114	226337	9611	1	Sept. 5/99	Sept. 5/2001
48	GC 115	226338	9612	1	Sept. 5/99	Sept. 5/2001
49	GC 116	226339	9613	1	Sept. 5/99	Sept. 5/2001

50	GC67	226280	8709	1	September 21/95	Sept 21/2001
51	GC68	226281	8710	1	September 21/95	Sept 21/2001
52	GC70	226282	8712	1	September 21/95	Sept 21/2001
53	GC72	226283	8714	1	September 21/95	Sept 21/2001
54	GC74	226284	8716	1	September 21/95	Sept 21/2001
55	GC75	226285	8717	1	September 21/95	Sept 21/2001
56	GC 117					
57	GC 118	226341	9615	1	Sept. 5/95	Sept. 5/2001
58	GC 119	226342	9616	1	Sept. 5/95	Sept. 5/2001
59	GC 120	226343	9617	1	Sept. 5/95	Sept. 5/2001
60	GC 130	226353	9627	1	Sept. 5/95	Sept. 5/2001
61	GC 131	226354	9628	1	Sept. 5/95	Sept. 5/2001
62	GC 132	226355	9629	1	Sept. 5/95	Sept. 5/2001
63	GC 133	226356	9630	1	Sept. 5/95	Sept. 5/2001
64	GC 134	226357	9631	1	Sept. 5/95	Sept. 5/2001
65	GC 135	226358	9632	1	Sept. 5/95	Sept. 5/2001
66	XGC 69	226524	14899	1	Sept. 4/95	Sept. 4/2001
67	XGC 71	226283				
68	XGC 73					
69	XGC 110					
70	KENNCO GC 172	226408	12175	1	October 9/95	October 9/2001
71	KENNCO GC 173	226409	12176	1	October 9/95	October 9/2001
72	KENNCO GC 174	226410	12177	1	October 9/95	October 9/2001
73	KENNCO GC 175	226411	12178	1	October 9/95	October 9/2001
74	KENNCO GC 176	226412	12179	1	October 9/95	October 9/2001
75	KENNCO GC 177	226413	12180	1	October 9/95	October 9/2001
76	KENNCO GC 178	226414	12181	1	October 9/95	October 9/2001
77	KENNCO GC 179	226415	12182	1	October 9/95	October 9/2001
78	KENNCO GC 180	226416	12183	1	October 9/95	October 9/2001
79	GC 2 Fr.	226333	9609	1	Sept. 5/95	Sept. 5/2001
80	GC 5 Fr.	226397	10857	1	Aug.6/2000	Aug. 6/2001
81	GC 8 FR	226400	11004	1	Sept 10/95	Sept/10/2001
82	GC 18 FR	226548	15981	1	Oct 30/2000	October 30/2001
83	GC 22 FR	226552	15985	1	Oct 30/2000	October 30/2001
84	GC 26 FR	226552	15989	1	Oct 30/2000	October 30/2001
85	GC 30 FR	226560	16233	1	Nov 23/2000	Nov 23/2001
86	GC 34 FR	226564	16237	1	Nov 23/2001	Nov 23/2001
87	XGC 1 FR	226518	14893	1	Sept 21/96	Sept 21/2001
88	Kennco GC 11Fr	226403	11972	1	Aug.29/97	Aug.29/2001
89	Kennco GC 12 Fr	226404	11973	1	Aug.29/97	Aug.29/2001
90	Kennco GC 13 Fr	226405	11974	1	Aug.29/97	Aug.29/2001
91	Kennco GC 14 Fr	226406	11975	1	Aug.29/97	Aug.29/2001
92	HAB 1 Fr.	226373	9655	1	Aug. 16/2000	Aug. 16/2001

Kennco was the operator of the exploration programs until 1967. Work included 53,164 meters of diamond drilling in 235 holes and 807 meters of tunnelling in two adits. The Central Zone which occupies the valley bottom of Galore Creek became the main focus of exploration. No exploration was carried out from 1968 to 1972.

In 1972, Hudson Bay Mining and Smelting became operator of the property and in 1972 and 1973 an additional 25,352 meters of diamond drilling was completed in 111 holes. This work focused on blocking out reserves on the Central and North Junction Zones.

Wright Engineers undertook a feasibility study on the property in 1974, and devised a preliminary mine plan for the project.

Hudson Bay continued fill-in drilling in 1976, completing an additional 5,310 meters of diamond drilling in 24 holes.

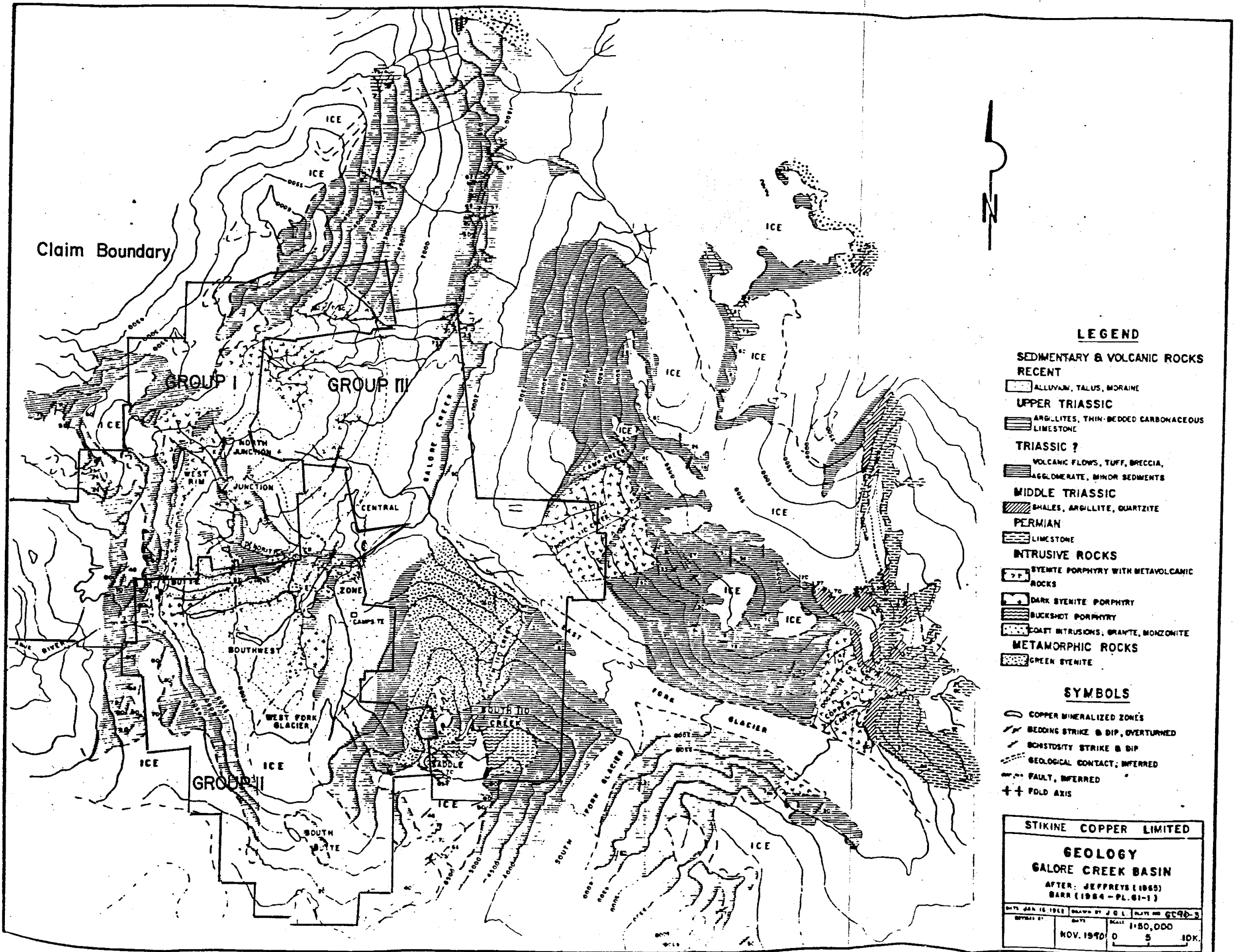
In 1990 Hudson Bay, through an affiliated company (Mingold Resources), undertook preliminary evaluation of the gold potential associated with the porphyry system. Although it was previously known the gold content in the Galore Creek copper deposits was high for a porphyry copper deposit, the main focus of previous exploration was to delineate the copper reserve.

Kennecott resumed operatorship of the project in 1991, and set out to delineate new reserves of copper-gold mineralization and reliably determine gold grades in previously explored zones. This assessment report describes the former objective.

6.0 GEOLOGY

The Galore Creek deposits are situated on the western margin of the Intermontane Belt, just east of the Coast Plutonic Complex. The area contains three major lithologic units: Paleozoic and Middle Triassic metamorphic rocks; Upper Triassic volcanic and sedimentary rocks; and intrusive rocks of various ages and types. The later two units are of prime concern in the vicinity of the copper deposits (see GC91-3).

The Upper Triassic rocks within the Galore Creek valley are primarily volcanics with minor sediments. The volcanics include pyroclastics, trachytes and augite bearing flows. Breccias of various origins are common throughout the valley. These rocks have been intruded by a number of syenite and syenite porphyry dykes, sills and plugs. Most of the rocks have undergone moderate to intense hydrothermal alteration and contact metasomatism. The effects of this alteration have made identification of original lithologies extremely difficult.



LEGEND

- SEDIMENTARY & VOLCANIC ROCKS**
- RECENT**
- ALLUVIUM, TALUS, MORAINÉ
- UPPER TRIASSIC**
- ARGILLITES, THIN-BEDDED CARBONACEOUS LIMESTONE
- TRIASSIC ?**
- VOLCANIC FLOWS, TUFF, BRECCIA, AGGLOMERATE, MINOR SEDIMENTS
- MIDDLE TRIASSIC**
- SHALES, ARGILLITE, QUARTZITE
- PERMIAN**
- LIMESTONE
- INTRUSIVE ROCKS**
- SYENITE PORPHYRY WITH METAVOLCANIC ROCKS
 - DARK SYENITE PORPHYRY
 - BUCKSHOT PORPHYRY
 - COAST INTRUSIONS, GRANITE, MONZONITE
- METAMORPHIC ROCKS**
- GREEN SYENITE

SYMBOLS

- COPPER MINERALIZED ZONES
- BEDDING STRIKE & DIP, OVERTURNED
- SCHISTOSITY STRIKE & DIP
- GEOLOGICAL CONTACT, INFERRED
- FAULT, INFERRED
- FOLD AXIS

STIKINE COPPER LIMITED

GEOLOGY

GALORE CREEK BASIN

AFTER: JEFFREYS (1965)
BARR (1964 - PL. 61-1)

DATE: JAN 15 1968 DRAWN BY: J. G. L. PLATE NO: GC90-3

NOV. 1970 SCALE: 1:50,000

0 5 10K.

The intrusive rocks vary considerably in texture, colour and age, however the predominant composition is alkaline. Syenite intrusive rocks are the most important, both volumetrically and economically. These rocks have been divided into four main rock types which in order of intrusion are grey syenite porphyry, dark syenite porphyry, medium grained orthoclase syenite megaporphyry and fine grained syenite. On the detailed level, many subdivisions of each type are possible, however, in order to allow some form of geological interpretation these major divisions have been adopted. The syenites are Upper Triassic to Lower Jurassic in age.

Known copper mineralization occurs in ten incompletely defined deposits as well as numerous erratic high-grade pods and low-grade showings. The deposits occur mainly within feldspathized and biotite altered volcanic rocks and pipe-like breccias associated with syenitic intrusives. The deposits are tabular to manto shaped and most have a north to northeast orientation parallel to the structural trend of the area. Gold is generally associated with the higher grade copper mineralization although many areas of high copper grades lack appreciable gold.

The largest known zone at Galore Creek is called the Central Zone. According to CIM Special Volume 15 "Porphyry Deposits of the Canadian Cordillera", page 411, the main Central Zone deposit contains 125,000,000 tonnes grading 1.06 percent copper 0.40 grams/tonne gold and 7.7 grams/tonne silver.

7.0 DISCUSSION OF RESULTS (Plate GC91-4 to GC91-8)

The following section is subdivided into three sections: Airborne Geophysics, Induced Polarization and Diamond Drilling. The first two sections are brief summaries of work performed with comprehensive independent reports on the two surveys included as Appendix IV and V of this report. The section on Diamond Drilling refers to these reports where necessary. Plate GC91-4 is a 1:10000 Area Location Map which outlines the geophysical survey areas and drill locations as they relate to topography, claim group boundaries and property grid coordinates and is contained in the back folder of this report.

7.1 Airborne Geophysics

Aerodat Limited was contracted to do an airborne geophysical survey on the Galore Creek property in 1991. During the period June 23 to June 25, 1991 a total of 459 line kilometres was flown over the property. A total of 38.4 line kilometres of this survey is being applied to Group I assessment (see Table No. 1).

All data pertinent to this survey, including interpretations and conclusions, is contained in Appendix IV of this report.

7.2 Induced Polarization Survey

Lloyd Geophysics Inc. was contracted to do pole-dipole induced polarization surveys on the property in 1991. During the period July 7 to August 18, 1991 a total of 90.17 line kilometres was completed over three separate grids. A total of 7 kilometres of this survey is being applied to Group I assessment (Table No. 1).

All data pertinent to the IP survey, including interpretation and maps is contained in Appendix V of this report.

7.3 Diamond Drilling

During the 1991 field season, a total of 13,830 meters of diamond drilling in 49 holes was completed at Galore Creek. A total of 6,186.5 meters in 22 holes is being applied for assessment credit. Quest Canada Drilling Ltd., Suite 810, 610 W. Georgia Street, Vancouver, B.C., V6B 4N8, provided three diamond drills and operating personnel for the drill program. The program commenced on July 20 and concluded on October 18, 1991. The location of all drillholes is shown on Plate No.91-5 to 91-8 which are located in the text of this report. Drill logs with assay results are contained in Appendix VI of this report. The mineral zones mentioned in this section are keyed to Plate No.GC91-3 with claim groupings located on Plate No.GC91-2. Table No. 3 lists all relevant drillhole information with holes used for assessment marked by an asterisk.

The objectives of the drilling program were to:

- 1) Test the strike and dip extensions of known zones and new showings.
- 2) Test I.P. targets outlined by the 1991 I.P. program.

The results of the drilling are described on a claim group basis below:

GROUP I: Eight drillholes totalling 2,094.4 meters tested various targets on the claim group. Three holes tested the North Junction Zone. This volcanic hosted copper-gold zone had been tested by drilling in the 1960's and early 1970's. This work delineated a mineralized zone which strikes N20E and dips northwest at angles between 20 and 60. The zone has been traced for a length of 300 meters and a down dip thickness of 250 meters and has an average width of 60 meters. Drillholes GC400, 402 and 403 were designed to test the northern strike extension of the North Junction Zone.

GC400, the southernmost hole of the three, intersected the favourable volcanic lithology from 181 to 338.3 meters, however copper and gold grades were low. An intercept from 181 to 199 meters grades 0.46 percent copper and 0.051 grams/tonne gold.

	Hole ID	Northing	Easting	Elevation	Length	Depth	Dip	Azimuth	%Recover	OB	Started	Finished	Size	Zone
*	GC-388	5717.24	4951.66	887.35	352.70	0.00	-45.00	180.00	95.00	15.20	.07-20	.07-23	NQ	SOUTHWEST
	GC-388					130.10	-42.00	180.00						
	GC-388					250.00	-39.50	161.00						
	GC-388					350.00	-35.50	180.00						
	GC-389	6735.48	6316.60	658.93	279.80	0.00	-90.00	180.00	92.00	18.90	.07-20	.07-23	NQ	CENTRAL
	GC-389					120.70	-87.20	188.00						
	GC-389					279.80	-88.00	179.00						
*	GC-390	5348.24	5029.74	897.90	262.10	0.00	-45.00	0.00	95.00	67.70	.07-23	.07-30	NQ	SOUTHWEST
	GC-390					137.80	-45.75	5.00						
	GC-390					259.70	-47.50	1.00						
	GC-390					262.10	-47.50	1.00						
	GC-391	7658.22	6150.15	705.86	234.70	0.00	-90.00	0.00	95.00	38.90	.07-24	.07-26	NQ	CENTRAL
	GC-391					234.70	-84.70	0.00						
	GC-392	6679.52	6258.31	675.93	225.60	0.00	-90.00	0.00	95.00	15.20	.07-27	.07-30	NQ	CENTRAL
	GC-392					225.60	-85.30	0.00						
*	GC-393	5365.68	5143.05	880.89	76.20	0.00	-50.00	0.00	0.00	76.80	.07-30	.08-01	NQ	SOUTHWEST
	GC-393					76.20	-50.00	0.00						
*	GC-393A	5355.96	5145.47	880.43	249.00	0.00	-60.00	0.00	96.00	45.70	.08-02	.08-04	NQ	SOUTHWEST
	GC-393A					125.90	-58.50	2.50						
	GC-393A					247.80	-58.50	5.00						
	GC-394	6944.66	5862.05	759.00	172.60	0.00	-90.00	0.00	91.00	11.50	.07-31	.08-03	NQ	CENTRAL
	GC-394					172.60	-90.00	0.00						
	GC-395	6847.50	5899.67	753.24	396.30	0.00	-80.00	86.50	95.00	33.50	.08-04	.08-10	NQ	CENTRAL
	GC-395					243.90	-78.75	44.00						
	GC-395					396.30	-78.75	59.00						
	GC-396	5390.62	4524.50	983.50	343.50	0.00	-50.00	0.00	85.00	17.40	.08-04	.08-09	NQ	SOUTHWEST
	GC-396					160.60	-50.00	12.00						
	GC-396					343.50	-48.00	9.00						
*	GC-397	5449.01	4317.58	1042.29	383.10	0.00	-50.00	0.00	95.00	30.50	.08-11	.08-15	NQ	SOUTHWEST
	GC-397					188.90	-54.00	5.00						
	GC-397					371.80	-51.50	11.00						
	GC-397					383.10	-51.50	11.00						
	* = Not Surveyed													

TABLE 3

Hole ID.	Northing	Easting	Elevation	Length	Depth	Dip	Azimuth	%Recover	OB	Started	Finished	Size	Zone
* GC-398	5388.77	4734.22	932.38	381.10	0.00	-60.50	2.00	94.00	15.20	.08-11	.08-16	NQ	SOUTH WEST
GC-398					207.30	-57.50	348.00						
GC-398					381.00	-51.25	347.00						
GC-399	5509.76	5145.43	874.63	115.50	0.00	-55.00	0.00	87.00	49.50	.08-17	.08-19	NQ	SOUTH WEST
GC-399					115.50	-55.00	0.00						
* GC-400	8278.92	4350.46	1270.72	338.40	0.00	-90.00	100.00	92.00	9.00	.08-16	.08-19	NQ	NORTH JUNCTION
GC-400					338.30	-88.90	100.00						
GC-401	5580.46	5148.44	868.89	278.00	0.00	-60.00	0.00	95.00	40.20	.08-20	.08-24	NQ	SOUTH WEST
GC-401					278.00	-55.00	5.00						
* GC-402	8385.14	4351.02	1313.17	329.19	0.00	-60.00	100.00	95.00	10.00	.08-20	.08-23	NQ	NORTH JUNCTION
GC-402					329.20	-61.00	94.00						
* GC-403	8477.79	4514.79	1292.52	362.71	0.00	-60.00	100.00	95.00	6.00	.08-23	.08-27	NQ	NORTH JUNCTION
GC-403					362.70	-63.60	100.00						
* GC-404	9000.00	6800.00	720.00	147.50	0.00	-50.00	90.00	0.00	147.50	.08-24	.08-27	NQ	NORTH CENTRAL
* GC-404					147.50	-50.00	90.00						
* GC-405	9000.00	6558.00	710.00	352.65	0.00	-55.00	90.00	95.00	64.00	.08-27	.09-01	NQ	NORTH CENTRAL
* GC-405					352.65	-45.00	95.00						
GC-406	5282.25	4863.26	921.35	469.70	0.00	-60.00	0.00	94.00	53.90	.08-28	.09-06	NQ/BQ	SOUTH WEST
GC-406					152.40	-56.00	0.00						
GC-406					304.80	-54.00	0.00						
GC-406					468.50	-64.00	7.00						
GC-407	7890.59	4447.06	1171.94	310.90	0.00	-50.00	130.00	95.00	22.90	.08-28	.09-01	NQ	NORTH JUNCTION
GC-407					310.90	-47.00	101.00						
GC-408	7800.27	4060.41	1144.30	402.30	0.00	-55.00	100.00	95.00	13.70	.09-01	.09-06	NQ	NORTH JUNCTION
GC-408					402.30	-47.00	108.00						
* GC-409A	9000.00	6310.00	770.00	326.40	0.00	-60.00	91.00	99.00	40.20	.09-02	.09-11	NQ/BQ	NORTH CENTRAL
* GC-409A					166.70	-53.00	91.00						
* GC-409A					326.40	-49.00	91.00						
* GC-410	7385.80	4058.74	1067.08	246.90	0.00	-50.00	100.00	95.00	15.20	.09-06	.09-09	NQ	NORTH JUNCTION
GC-410					246.90	-45.00	100.00						
*-Not Surveyed													

Hole ID	Northing	Easting	Elevation	Length	Depth	Dip	Azimuth	%Recover	OB	Started	Finished	Size	Zone
GC-411	5284.77	4621.68	968.81	477.70	0.00	-60.00	6.00	80.00	32.60	.09-09	.09-18	NQ/BQ	SOUTH WEST
GC-411					152.40	-53.50	6.00						
GC-411					304.80	-53.50	6.00						
GC-411					477.70	-55.00	16.50						
GC-412	7080.59	4928.75	935.79	183.80	0.00	-55.00	90.00	95.00	36.50	.09-10	.09-13	NQ	DRY CREEK
GC-412					183.80	-55.00	90.00						
* GC-413	9510.00	6430.00	710.00	343.50	0.00	-54.50	90.00	94.00	33.30	.09-11	.09-16	NQ	NORTH CENTRAL
* GC-413					343.50	-47.00	90.00						
* GC-414	7029.60	4769.54	952.86	189.00	0.00	-55.00	84.00	85.00	57.90	.09-14	.09-20	NQ	MIDDLE CREEK
GC-414					189.00	-55.00	84.00						
* GC-415	9510.00	6640.00	675.00	227.70	0.00	-55.00	89.00	94.00	26.50	.09-16	.09-22	NQ	NORTH CENTRAL
* GC-415					227.70	-57.00	89.00						
GC-416	5606.79	5302.52	852.47	297.80	0.00	-60.00	90.00	95.00	39.60	.09-18	.09-21	NQ	SOUTH CENTRAL
GC-416					145.40	-59.00	90.00						
GC-416					291.70	-59.00	90.00						
GC-416					297.80	-59.00	90.00						
* GC-417	7075.92	5036.90	875.58	185.90	0.00	-61.00	90.00	95.00	8.10	.09-20	.09-22	NQ	DRY CREEK
GC-417					185.90	-61.00	90.00						
GC-418	5597.62	5555.54	786.96	291.40	0.00	-50.00	88.00	92.00	6.40	.09-22	.09-25	NQ/BQ	SOUTH CENTRAL
GC-418					152.40	-50.50	88.00						
GC-418					289.60	-41.00	101.00						
GC-418					291.40	-41.00	101.00						
* GC-419	7080.59	4926.25	952.86	164.60	0.00	-65.00	270.00	95.00	29.00	.09-22	.09-25	NQ	DRY CREEK
GC-419					164.60	-65.00	270.00						
* GC-420	8500.00	6100.00	830.00	316.10	0.00	-59.50	90.00	95.00	25.00	.09-23	.09-27	NQ	NORTH CENTRAL
* GC-420					316.10	-51.50	90.00						
GC-421	8710.01	4978.93	1284.97	268.20	0.00	-50.00	90.00	95.00	4.20	.09-25	.09-27	NQ	NORTH WEST PLATEAU
GC-421					268.20	-50.00	90.00						
GC-422	5595.15	5781.27	764.62	313.00	0.00	-55.00	90.00	95.00	6.10	.09-26	.09-28	NQ	SOUTH CENTRAL
GC-422					152.40	-52.00	90.00						
GC-422					310.90	-53.50	97.50						
GC-422					313.00	-53.50	97.50						
* = Not Surveyed													

	Hole ID	Northing	Easting	Elevation	Length	Depth	Dip	Azimuth	%Recover	OB	Started	Finished	Size	Zone
*	GC-423	8504.00	6680.00	737.00	138.40	0.00	-60.00	90.00	0.00	138.40	,09-27	,10-01	NQ	NORTH CENTRAL
*	GC-423					138.40	-60.00	90.00						
	GC-424	8713.43	5246.59	1238.87	216.40	0.00	-50.00	90.00	95.00	5.10	,09-28	,09-10	NQ	NORTH WEST PLATEAU
	GC-424					216.40	-50.00	90.00						
	GC-425	5222.19	5422.96	822.02	277.10	0.00	-50.00	90.00	85.00	8.20	,09-29	,10-03	NQ	SOUTH CENTRAL
	GC-425					152.40	-43.50	90.00						
	GC-425					275.20	-43.50	98.00						
	GC-425					277.10	-43.50	98.00						
	GC-426	8498.22	5240.43	1225.12	82.30	0.00	-55.00	90.00	95.00	2.90	,09-30	,10-01	NQ	NORTH WEST PLATEAU
	GC-426					82.30	-55.00	90.00						
* *	GC-427	7808.00	6850.00	647.00	264.30	0.00	-60.00	90.00	95.00	30.50	,10-01	,10-04	NQ	NORTH CENTRAL
	GC-427					264.30	-53.00	90.00						
	GC-428	6534.52	3604.86	1348.04	348.10	0.00	-60.00	90.00	95.00	1.20	,10-02	,10-07	NQ	BUTTE
	GC-428					348.10	-60.00	90.00						
	GC-429	5240.58	5857.00	783.26	276.50	0.00	-51.00	92.00	95.00	6.10	,10-03	,10-05	NQ	SOUTH CENTRAL
	GC-429					152.40	-43.50	92.00						
	GC-429					275.20	-44.00	107.50						
	GC-429					276.50	-44.00	107.50						
	GC-430	5822.72	5196.89	846.49	252.10	0.00	-59.50	0.00	98.00	15.20	,10-04	,10-07	NQ	SOUTH CENTRAL
	GC-430					252.10	-59.00	0.00						
	GC-431	6524.13	5773.92	724.60	483.70	0.00	-75.00	90.00	98.00	18.30	,10-05	,10-12	NQ	CENTRAL
	GC-431					182.88	-75.00	101.00						
	GC-431					306.93	-75.50	41.00						
	GC-431					483.72	-76.00	61.00						
* *	GC-432	7868.45	3727.27	1249.93	277.40	0.00	-50.00	110.00	95.00	8.60	,10-07	,10-10	NQ	WEST RIM
	GC-432					277.40	-50.00	110.00						
* *	GC-433	6097.30	4191.18	1033.09	316.10	0.00	-58.00	90.00	80.00	6.10	,10-08	,10-13	NQ	SOUTH WEST
	GC-433					316.10	-58.00	90.00						
* *	GC-434	5844.02	4155.08	1053.07	297.20	0.00	-60.00	0.00	95.00	12.40	,10-10	,10-15	NQ	BUTTE
	GC-434					297.20	-60.00	0.00						
* *	GC-435	6246.39	3493.13	1367.43	299.40	0.00	-65.00	84.00	95.00	3.00	,10-15	,10-18	NQ	BUTTE
	GC-435					152.40	-60.00	84.00						
	GC-435					295.60	-60.00	84.00						
* = Not Surveyed														

GC402 located 100 meters north of GC400 intersected an intermediate to mafic volcanic from 133 meters to the bottom of the hole. A narrow intercept from 106 meters to 115 meters averaged 0.66 percent and 0.247 grams/tonne gold. GC403, the last hole designed to test for the northern extension of the North Junction Zone, intersected a thick sequence of host volcanics comprising intermediate composition lapilli and ash tuffs. A 57 meter intercept from 187 meters to 244 meters averaged 0.51 percent copper and 0.253 grams/tonne gold.

Drill holes GC414, 417, and 419 tested two copper zones hosted in tuffaceous volcanics and located on Middle and Dry Creeks (Plate No. GC6). The Middle Creek copper-gold showing is exposed on surface and comprises disseminated and fracture controlled chalcopyrite and bornite in tuffaceous volcanics. Prior to 1991 this showing had not been tested by drilling. GC414 drilled at an azimuth of 082, intersected the host lithology from 112 meters to the bottom of the hole at 189 meters. Fine chalcopyrite, bornite and traces of native copper were observed in this interval which averaged 0.36 percent copper and 0.06 grams/tonne gold. Core recovery in this section averaged only 20 percent.

GC419 was spotted 190 meters east of GC414 and was drilled west towards this hole. GC419 intersected a zone from 124 meters to 141.8 meters (17.8 meters) which averaged 1.77 percent copper and 3.68 grams/tonne gold. This tenor of mineralization is analogous to results obtained on surface, and suggests the zone dips very steeply east. GC417 was spotted 200 meters east of the Middle Creek showing and was drilled to test a zone located in Dry Creek. In the past GC100 tested this zone and contained 0.55 percent copper over a core interval of 124 meters. GC417 intersected a zone from 35.2 meters to 47.7 meters which averaged 0.90 percent copper and 0.13 grams/tonne gold. Both GC100 and GC417 contain native copper, chalcocite and malachite with very little chalcopyrite and no bornite, leading the writer to conclude the copper grades are directly related to supergene enrichment processes. As a result the economic potential of this zone is limited.

GC432, the last hole applied to Group I assessment, was drilled to test a copper showing called the West Rim showing. No significant copper-gold intercepts were obtained in this hole.

GROUP II: A total of 2,960 meters in ten holes was completed on Group II claims during the course of the field season. Seventy percent of this total was used to test the Southwest (copper-gold) Zone. The Southwest Zone is interpreted as a tabular east-west striking zone approximately 400 meters long and 100 meters wide, which dips steeply south. It is localized within a breccia

zone which has characteristics of a diatreme with poly lithologic fragments, unsorted and unbedded with clasts supported by a fine rock flour matrix. Sulphide mineralization comprises chalcopyrite, pyrite and traces of bornite. Pyrite is predominant beyond the copper zone and may occupy up to 10 percent by volume of the breccia in these areas. This pyrite content plus the presence of magnetite explains the strong IP response which encompasses the Southwest Zone (see Appendix V pages 9-11). Drillholes GC388, 390, 393, 393A and 396 to 398 tested the Southwest Zone along strike and down dip. Table IV lists the significant intercepts obtained in this drilling.

Drillholes GC433 and 434 were holes designed to test an induced polarization anomaly (Appendix V, p. 11) located northwest of the Southwest Zone. Neither hole intersected any significant copper values, but both holes contained up to 3 percent pyrite and 2 percent magnetite. These two minerals are the likely source of the anomalous IP response.

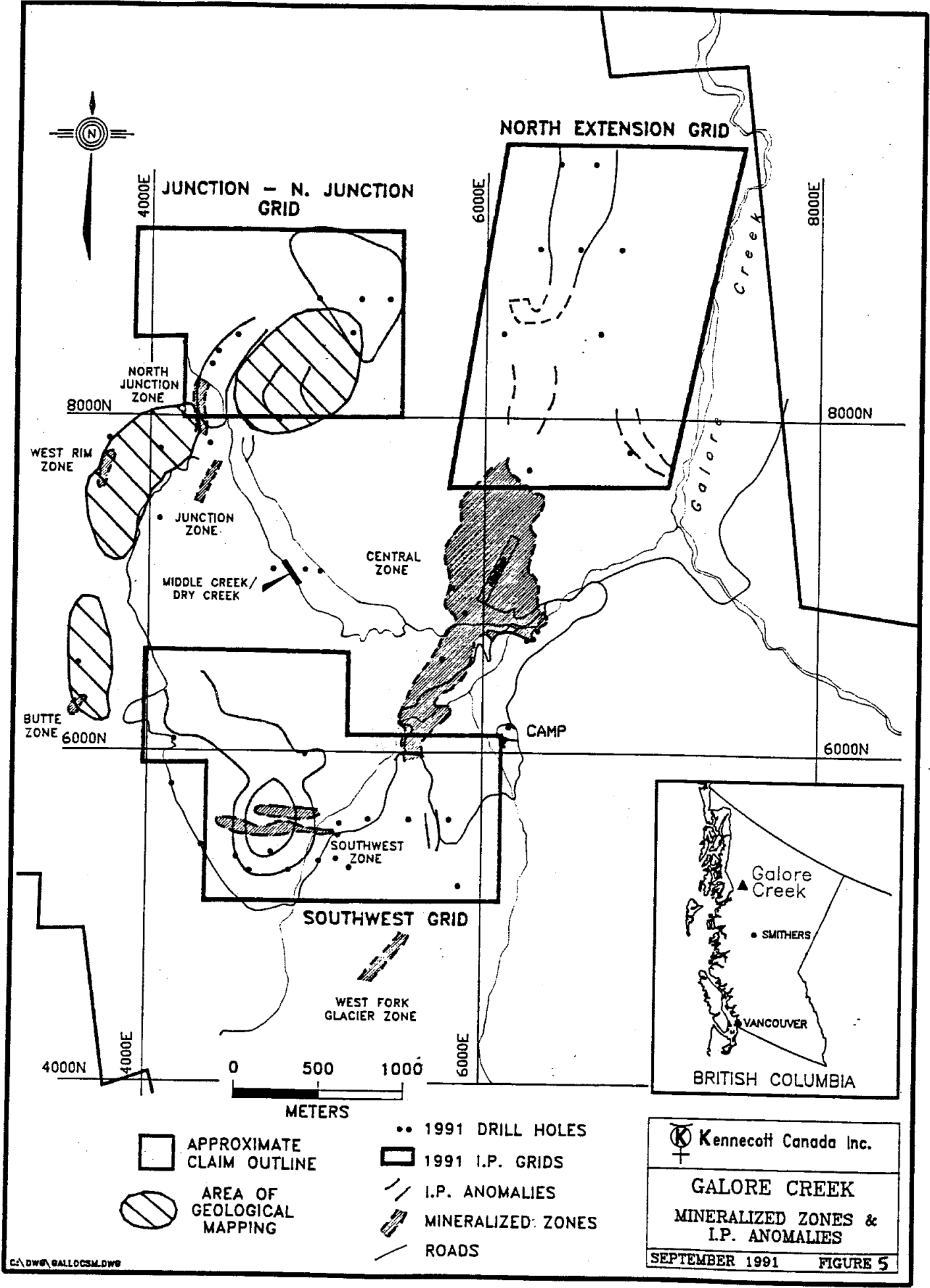
GC435 was designed to test for a possible west dip of a copper showing called the Butte Zone. No significant copper intercepts were obtained as the hole contained only post copper mineral syenite porphyry.

GROUP III: A total of 1,131.8 meters in five holes was applied to Group III claim assessment. These holes tested the overburden covered region, north along the projected strike of the Central Zone. GC404 was stopped in overburden at a depth of 147.5 meters. GC405 tested the eastern flank of an induced polarization anomaly located north of the Central Zone. No significant copper mineralization was intersected in this hole.

The IP anomaly is believed to be caused by disseminated pyrite observed throughout the core. GC409 was lost in overburden at a depth of 55.5 meters. GC420 is located 700 meters north on strike of the Central Zone and was drilled to test for a possible north strike extension of this deposit. An interval from 266 meters to 288 meters averages 0.44 percent copper and 0.85 grams/tonne gold. Potassic alteration (orthoclase, biotite), which is prevalent in the Central Zone is weak in GC420, which is dominated by an alteration assemblage comprising chlorite and epidote. This assemblage would suggest a peripheral type alteration to a porphyry system. GC427 tested an induced polarization anomaly located in an overburden covered area northeast of the Central Zone. The predominant rock type encountered in the hole is relatively unaltered fine grained lapilli tuff and mafic volcanic flows. No significant copper mineralization or alteration was observed in the core and the IP anomaly is caused by pyrite which is weakly disseminated throughout the rock.

TABLE 4**INTERCEPTS IN DIAMOND DRILLING IN SW ZONE, GALORE CREEK IN 1991
0.3% USED AS CUT-OFF GRADE**

D	D	FROM	TO	WIDTH	Cu	Au	Ag	ROCK TY	ZONE	REMARK
		m	m	m	%	g/t	g/t			
GC	388								SW	NO SIGNIF
GC	390	159.8	180.8	21.0	0.720	1.39	6.0	DBX	SW	
GC	393A								SW	NO SIGNIF
GC	396	268.4	298.4	30.0	0.455	0.62	2.6	MOSMP,F	SW	
GC	397								SW	NO SIGNIF
GC	398	108.1	114.1	6.0	0.638	0.54	2.0	MOSMP	SW	
		163.8	250.8	87.0	1.120	0.86	5.5	DBX, FGS		



NORTH EXTENSION GRID

JUNCTION - N. JUNCTION GRID

4000E
8000N

6000E

8000E

NORTH JUNCTION ZONE

WEST RIM ZONE

JUNCTION ZONE

CENTRAL ZONE

MIDDLE CREEK/
DRY CREEK

BUTTE ZONE
6000N

CAMP

6000N

SOUTHWEST GRID

SOUTHWEST ZONE

WEST FORK
GLACIER ZONE

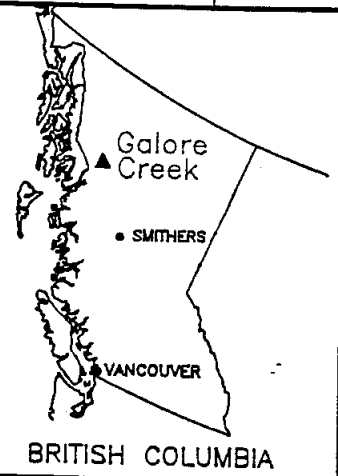
4000N

4000E

0 500 1000

6000E

METERS



□ APPROXIMATE CLAIM OUTLINE

◌ AREA OF GEOLOGICAL MAPPING

•• 1991 DRILL HOLES

▭ 1991 I.P. GRIDS

— I.P. ANOMALIES

▨ MINERALIZED ZONES

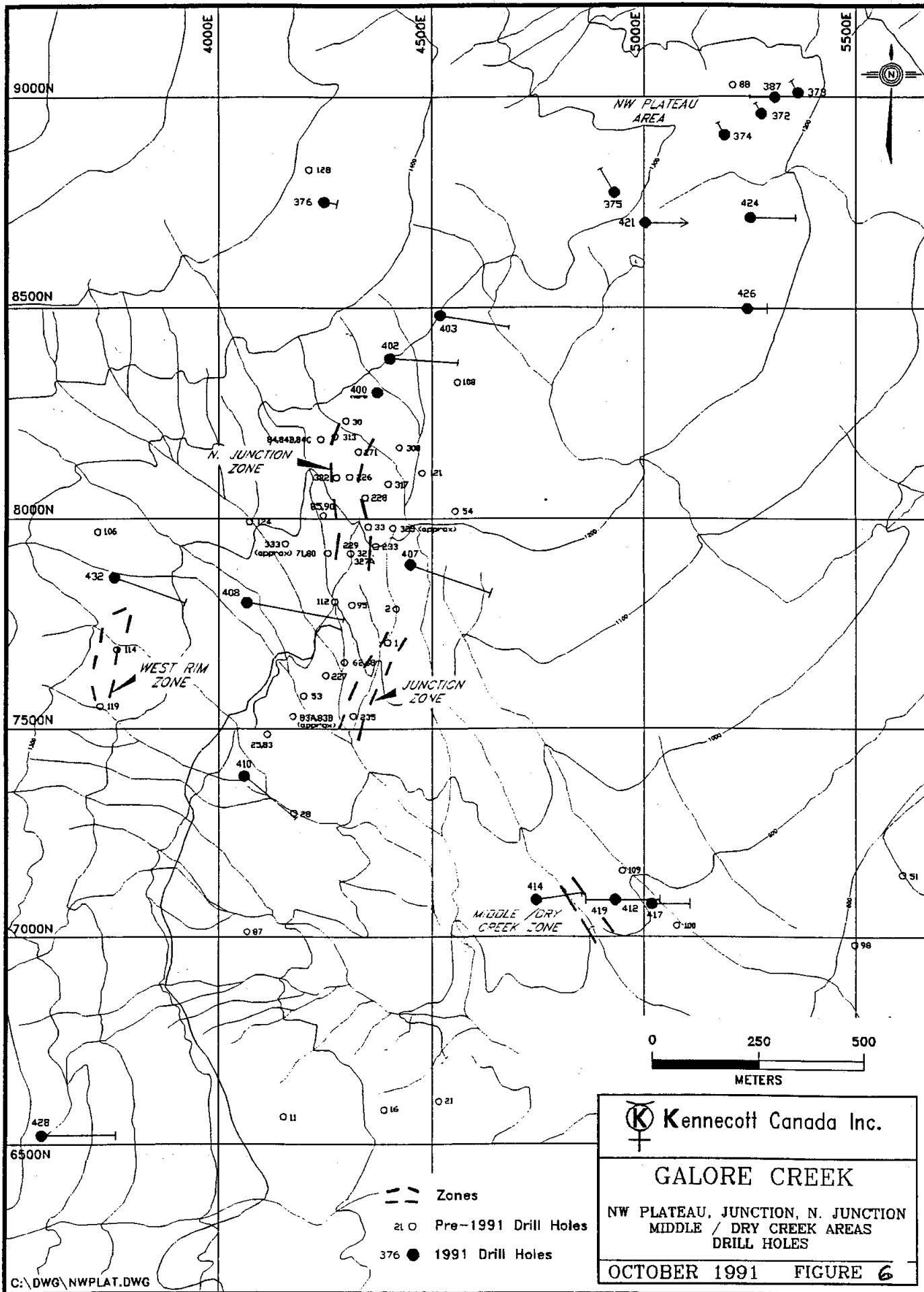
— ROADS

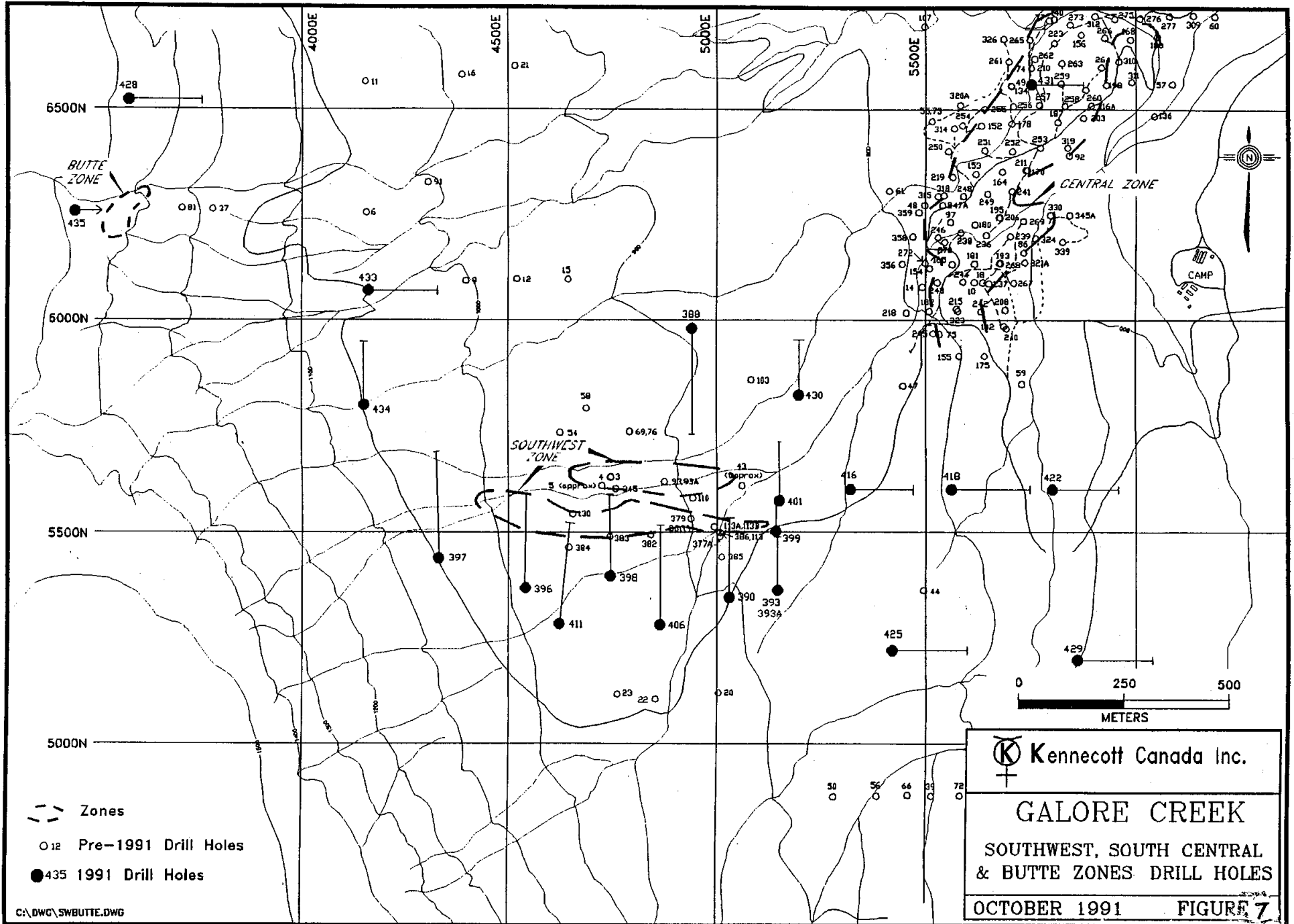
Kennecott Canada Inc.

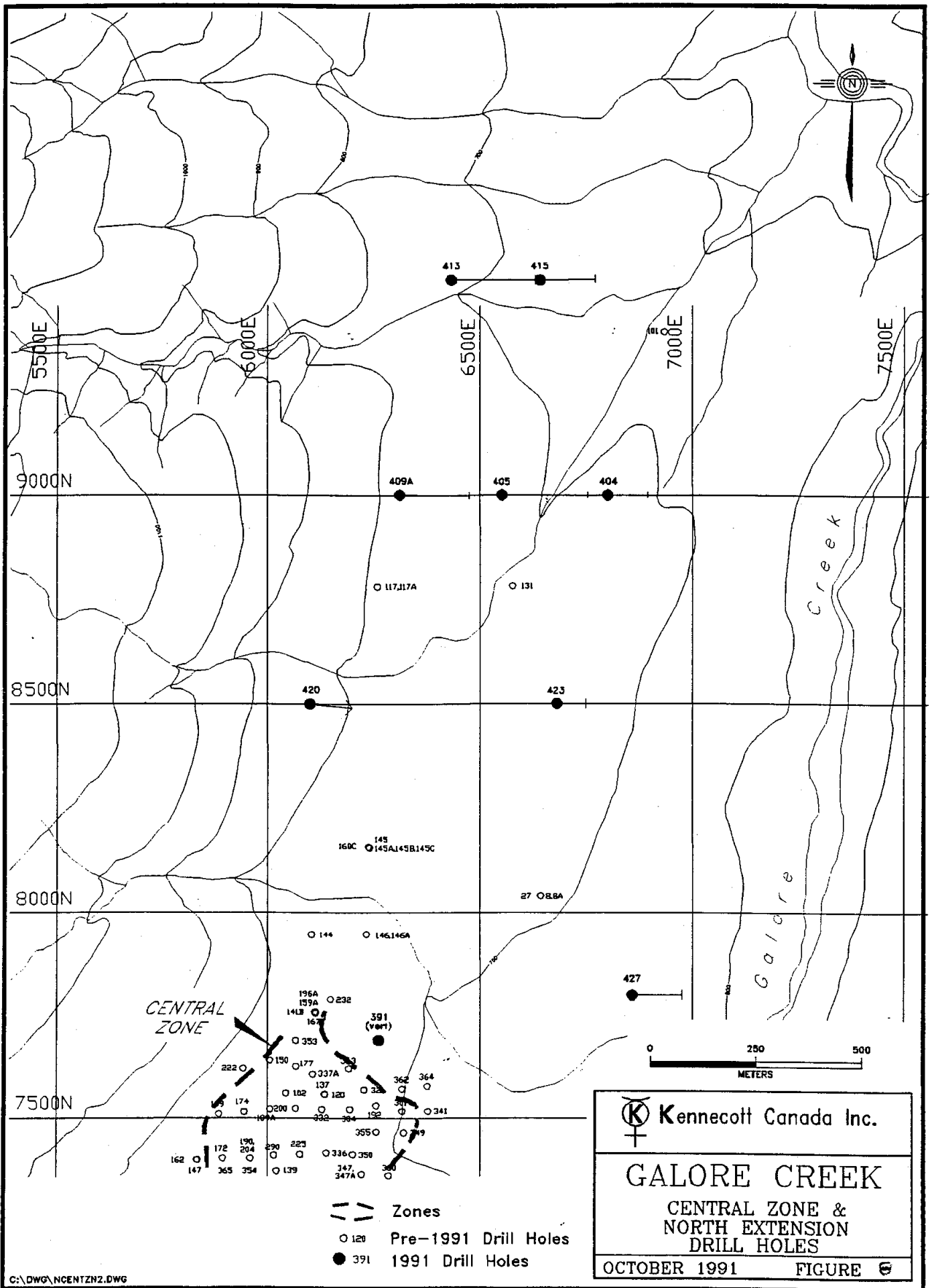
GALORE CREEK
MINERALIZED ZONES &
I.P. ANOMALIES

SEPTEMBER 1991 FIGURE 5

CA:DW6:GALLOCSM.DWG







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8.0 CONCLUSIONS

The 1991 field program at Galore Creek encompassed a five month period during which airborne geophysics, induced polarization and diamond drilling programs were conducted. The airborne survey conducted by AERODAT outlined one low priority target on or near the boundary of Group I and II. This anomaly designated anomaly "A" in the report (p.18, Appendix IV) is marked by low magnetic relief and relatively high potassium count. Prospecting in this region did not locate any significant copper zones. The IP survey outlined eight well defined zones of anomalous chargeability responses. Five of these targets were tested by the drilling which has been filed for assessment and were explained by a combination of pyrite, magnetite and occasional chalcopyrite. The other three IP targets are associated with known copper zones. Diamond drilling was successful in delineating the maximum dimensions of the Southwest Zone and determining the limited north strike potential of the North Junction Zone. Drilling in the Middle Creek area was successful in discovering a new zone, however the narrow width and apparent limited strike extent suggest tonnage potential is limited.

9.0 SELECTED BIBLIOGRAPHY

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APPENDIX I

STATEMENT OF COSTS

STATEMENT OF COSTS

Group I Filing - September 10, 1991

DRILL HOLES GC400, 402, 403:

Direct Drilling Costs

Mob/demob drill	9% of 35,000	\$3,182.00
Site prep.	3 days x 2 men x \$130/manday	780.00
Drill fuel	3000l x \$0.70/l (incl trans)	2,100.00
Core boxes	150 boxes x \$6.50/box	975.00
Drilling costs	1030.5m x \$52/m	53,586.00

Drill supervision, core splitting

1 geologist	\$200/day x 20 days	4,000.00
1 helper	\$130.00/day x 20 days	2,600.00

Aircraft support

Fixed wing	Central Mtn Air - 3 trips @ \$2400/trip	7,200.00
Helicopter	North Mtn. Heli. - 12 hours @ \$660/hr.	7,920.00

Camp Support	20 days x 7 people x \$38/manday	5,320.00
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Assay Charges	250 samples x \$15/sample	3,750.00
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Report Preparation	1 geologist @ \$200/day for 4 days	800.00
	Secretarial & drafting	<u>1,500.00</u>

TOTAL COSTS	<u>\$93,713.00</u>
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STATEMENT OF COSTS

Group I Filing - September 10, 1991

GEOPHYSICS:

Airborne Geophysics (AERODAT)

38.4km @ \$179.0km \$6,874.00

Induced Polarization (Lloyd Geophysics)

Mob/demob linecutters		1,500.00
Mob/demob IP crew		422.00
Grid preparation	7km x \$500/km	3,500.00
Air support	2.8 hrs x \$660/hr	1,848.00
Camp support	7 days x 7 men x \$38	1,862.00
IP survey	7km x 575/km	<u>4,025.00</u>

TOTAL COSTS \$20,031.00

STATEMENT OF COSTS

Group I Filing - November 15, 1991

DRILL HOLES GC410, 414, 417, 419, 432:

Direct Drilling Costs

GC410	246.9m x \$56.07/m	
GC414	189.0m x \$92.21/m	
GC417	186.0m x \$57.78/m	
GC419	164.6m x \$75.24/m	
GC432	277.4m x \$55.46/m	
		\$69,787.55
Drill site preparation	5 days x 2 men x \$130/manday	1,300.00
Core boxes	150 boxes x \$6.50/box	975.00
Supervision, core splitting		
1 geologist	20 days x \$200/day	4,000.00
1 core splitter	20 days x \$130/day	2,600.00
Aircraft support		
Helicopter	15hrs x \$660/hr	9,900.00
Camp support	6 men x 17 days x \$38/manday	3,876.00
Analytical charges	300 samples x \$15/sample	4,500.00
Report Preparation		
1 geologist	4 days @ \$200/day	800.00
secretarial & drafting		<u>1,500.00</u>
	TOTAL COSTS	<u>\$99,238.55</u>

STATEMENT OF COSTS

Group II Filing - September 10, 1991

Direct Drilling Costs

GC388	352.7m x \$52/m
GC390	262.1m x \$52/m
GC393	76.2m x \$52/m
GC393A	249.0m x \$52/m
GC396	343.5m x \$52/m
GC397	383.1m x \$52/m
GC398	381.1m x \$52/m

TOTAL COSTS

\$106,476.20

STATEMENT OF COSTS

Group II Filing - November 15, 1991

DRILL HOLES GC433, 434, 435:

Direct Drilling Costs

GC433	316.1m x \$69.50/m	
GC434	297.2m x \$48.93/m	
GC435	299.4m x \$52.04/m	
		\$52,091.73
Drill site preparation	3 days x 2 men x \$130/manday	780.00
Core boxes	125 boxes x \$6.50/box	812.00
Supervision & core splitting		
1 geologist	10 days x \$200/manday	2,000.00
1 helper	10 days x \$130/manday	1,300.00
Camp charges		
	6 people x 10 days x \$38/manday	2,280.00
Aircraft support		
Helicopter	10 hours x \$660/hr.	6,600.00
Analytical costs	275 samples x \$15/sample	4,200.00
Report preparation		
1 geologist	4 days x \$200/manday	800.00
secretarial & drafting		<u>1,500.00</u>
	TOTAL COSTS	<u>\$72,363.73</u>

STATEMENT OF COSTS

Group III - November 15, 1991

Direct Drilling Costs

GC 427	264.3m x \$50.38/m	\$13,315.43
GC 420	316.1m x 51.91/m	16,408.75
Drill Site Preparation	2 days x 2 men x \$130/manday	520.00
Core boxes	80 boxes x \$6.50/box	520.00
Air Support	5 hours x \$660/hour	3,300.00
Camp charges	6 personnel x 8 days x \$38/manday	1,824.00
Report Preparation		<u>500.00</u>
	TOTAL COSTS	<u>\$38,638.00</u>

STATEMENT OF COSTS

Group III Filing - September 10, 1991

DRILL HOLES GC404, 405, 407:

Direct Drilling Costs

GC404	146.3m x \$52/m	
GC405	349.6m x \$52/m	
GC409	55.5m x \$52/m	
		\$28,672.80
Mobil of drill & crew	5% of \$35,000	1,754.00
Drill site preparation	3 days x 2 men x \$130/manday	780.00
Drill fuel	2835l x \$0.70/l (incl. trans.)	1,984.00
Core boxes	50 x \$6.50/box	325.00
Air support		
Fixed wing	(Cent. Mtn. Air) 2 x \$2400/trip	4,800.00
Helicopter	11 hours x \$660/hr	7,260.00
Camp support	10 days x 6 people x \$38/manday	2,280.00
Supervision & core splitting		
1 geologist	10 days x \$200/day	2,000.00
1 helper	10 days x \$130/day	1,300.00
Analytical Costs	100 samples x \$15/ sample	1,500.00
Report Preparation		
1 geologist	3 days x \$200/day	600.00
secretarial & drafting		<u>500.00</u>
TOTAL COSTS		<u>\$53,756.30</u>

APPENDIX II

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Edward W. Yarrow of 1819-127A Street, Surrey, British Columbia do hereby certify that:

1. I am a geologist with a B.Sc. in Geology from the University of British Columbia, 1970 and a Masters in Business Administration from Simon Fraser University, 1990.

2. I have practised my profession continuously since 1970.

3. I am a Fellow of the Geological Association of Canada. Number F2869.

4. I directly supervised and co-executed the 1991 fieldwork at the Galore Creek property on behalf of Kennecott Canada Ltd.

Edward W. Yarrow

Regional Representative, Western District
Hudson Bay Exploration & Development


December 6, 1991

STATEMENT OF QUALIFICATIONS

I, Steve G. Enns of 1696 Davenport Place, North Vancouver B.C. V7J 1N5 do hereby certify that:

1. I am a geologist with a B.Sc. in Geology from the University of Manitoba, 1967 and a Master of Science in Geology from University of Manitoba, 1971.
2. I have practised my profession continuously since 1967.
3. I logged core, under the direction of E.W. Yarrow, at Galore Creek during the 1991 field season.

Steve G. Enns,


Senior Geologist
December 5, 1991

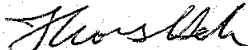
December 6, 1991

STATEMENT OF QUALIFICATIONS

I, Tom S.T. Heah of 3685 W. 11 Avenue, Vancouver B.C. V6R 2K4

1. I am a geologist with a B.Sc. in Geology from the University of British Columbia, 1982 and a Master of Science in Geology from University of British Columbia, 1991
2. I have practised my profession continuously since 1982.
3. I logged core, under the direction of E.W. Yarrow, at Galore Creek during the 1991 field season.

Tom S.T. Heah



Geologist
Kennecott Canada Inc.

December 6, 1991

STATEMENT OF QUALIFICATIONS

I, Mark E. Baknes of Apt. 101, 2098 W. 46 Avenue, Vancouver B.C. V6M 2K9 do hereby certify that:

1. I am a geologist with a B.Sc. in Geology from the University of British Columbia, 1986 and a Master of Science in Geology from McMaster University, 1990
2. I have practised my profession continuously since 1986.
3. I logged core, under the direction of E.W. Yarrow, at Galore Creek during the 1991 field season.

Mark E. Baknes



Geologist
Kennecott Canada Inc.

December 6, 1991

STATEMENT OF QUALIFICATIONS

I, J. Patricio Varas of 104-7155 Granville Street, Vancouver B.C. V6P 4X6 do hereby certify that

1. I am a geologist with a B.Sc. in Geology from the University of British Columbia, 1986.
2. I have practised my profession continuously since 1986.
3. I logged core, under the direction of E.W. Yarrow, at Galore Creek during the 1991 field season.

J. Patricio Varas

Geologist, Kennecott Canada Ltd.
November 30, 1991

APPENDIX III

CERTIFICATE OF ASSAYS

Assay Certificate

1S-0228-RA1

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER 02400**
Attn: **D. JOHNSON/E. YARROW**

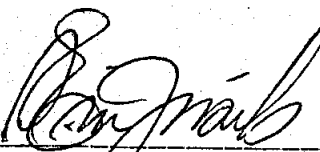
Date: **JUL-31-91**

Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

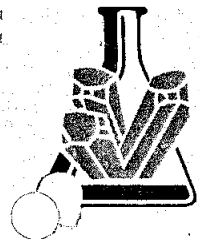
We hereby certify the following Assay of 24 ROCK samples submitted JUL-25-91 by MARK BAKNES.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton	AG g/tonne	AG oz/ton	CU %
911501	.02	.001	2.5	.07	.008
911502	.01	.001	0.4	.01	.007
911503	.01	.001	2.3	.07	.010
911504	.01	.001	1.5	.04	.015
911505	.01	.001	1.3	.04	.007
911506	.01	.001	1.6	.05	.009
911507	.01	.001	2.3	.07	.019
911508	.01	.001	2.8	.08	.010
911509	.02	.001	1.9	.06	.007
911510	.01	.001	1.3	.04	.010
911511	.01	.001	2.7	.08	.005
911512	.01	.001	1.7	.05	.004
911513	.01	.001	1.2	.04	.002
911514	.01	.001	2.5	.07	.005
911515	.01	.001	1.3	.04	.004
911526	.03	.001	6.6	.19	.329
911527A&B	.04	.001	6.6	.19	.362
911528	.02	.001	6.2	.18	.376
911529	.05	.001	6.9	.20	.500
911530	.01	.001	6.0	.18	.353
911531	.03	.001	9.3	.27	.479
911532	.02	.001	5.7	.17	.292
911533	.01	.001	5.8	.17	.303
911534	.02	.001	4.5	.13	.224

Certified by _____



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LABORATORIES**
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FAX (604) 980-9621

SMITHERS LAB.:

3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0228-RA2

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER 02400**
Attn: **D. JOHNSON/E. YARROW**

Date: **JUL-31-91**

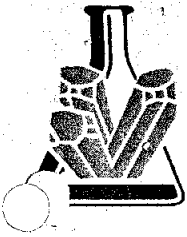
Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

**We hereby certify the following Assay of 24 ROCK samples
submitted JUL-25-91 by MARK BAKNES.**

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton	AG g/tonne	AG oz/ton	CU %	
911535	.01	.001	6.0	.18	.246	GC 389 ↓
911536	.02	.001	4.5	.13	.171	
911537	.02	.001	3.7	.11	.128	
911538	.02	.001	4.8	.14	.218	
911539	.01	.001	7.2	.21	.414	
911540	.01	.001	5.3	.15	.189	ICP ↑
911541	.02	.001	5.1	.15	.170	
911542	.01	.001	5.9	.17	.198	
911543	.12	.004	16.6	.48	.359	
911544	.02	.001	5.4	.16	.214	
911545	.01	.001	5.6	.16	.229	GC 388 ↓
912037	.51	.015	3.1	.09	.025	
912038	.32	.009	3.4	.10	.020	
912039	.17	.005	2.7	.08	.015	
912046	.28	.008	3.5	.10	.031	
912048	.30	.009	3.5	.10	.013	✓
912049	.28	.008	3.3	.10	.012	
912050	.09	.003	3.8	.11	.013	
912051	.04	.001	3.9	.11	.022	
912052	.04	.001	3.6	.11	.028	
912053	.03	.001	2.9	.08	.033	✓
912054	.15	.004	1.3	.04	.028	
912055	.22	.006	4.2	.12	.023	
912056	.12	.004	4.3	.13	.028	

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0228-RA3

Company: **KENNECOTT CANADA**
Project: STIKINE COPPER 02400
Attn: D. JOHNSON/E. YARROW

Date: JUL-31-91

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 4 ROCK samples
submitted JUL-25-91 by MARK BAKNES.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton	AG g/tonne	AG oz/ton	CU %	
912057	.05	.001	4.2	.12	.037	GC38P
912058	.18	.005	4.0	.12	.038	
912059	.02	.001	3.9	.11	.036	

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0228-XA4

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER 02400**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-15-91**

Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

***He hereby certify the following Assay of 23 ROCK samples
submitted JUL-25-91 by MARK BAKNES.***

Sample Number	CU %	AG g/tonne
91-2001	.005	1.3
91-2002	.005	1.1
91-2003	.006	1.4
91-2004	.015	1.6
91-2005	.010	1.0
91-2006	.007	1.4
91-2007	.009	2.1
91-2008+91-2009	.012	1.4
91-2010	.020	1.2
91-2011	.013	1.6
2012	.004	0.7
91-2013	.011	0.9
91-2014	.011	1.0
91-2015	.010	1.0
91-2016	.010	1.2
91-2017	.006	1.1
91-2018	.015	1.3
91-2019	.008	1.4
91-2020	.006	0.8
91-2021	.011	1.1
91-2022	.034	1.7
91-2023	.024	1.3
91-2024	.009	1.0

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0228-XA5

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER 02400**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-15-91**

Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

**We hereby certify the following Assay of 21 ROCK samples
submitted JUL-25-91 by MARK BAKNES.**

Sample Number	CU %	AG g/tonne
91-2025	.016	0.5
91-2026	.003	1.2
91-2027	.017	1.2
91-2028	.008	0.6
91-2029	.016	1.4
91-2030	.009	0.9
91-2031	.006	1.2
91-2032	.006	1.6
91-2033	.012	1.8
91-2034	.009	1.1
2035	.019	1.9
91-2036	.014	2.5
91-2040	.013	1.5
91-2041	.019	2.4
91-2042	.019	2.2
91-2043	.010	1.2
91-2044	.012	1.6
91-2045	.019	0.7
91-2060	.037	2.0
91-2061	.031	1.7
91-2062	.010	1.3

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MIN-EN LABORATORIES

Assay Certificate

1S-0249-RA1

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

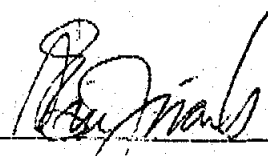
Date: **AUG-01-91**

Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 30 ROCK samples submitted JUL-28-91 by PAT VARAS.

Sample Number	AU-FIRE g/tonne	AU-FINE oz/ton	AG g/tonne	AG oz/ton	CU %
91-2063	.02	.001	2.3	.07	.014
91-2064	.01	.001	3.1	.09	.025
91-2065	.05	.001	1.9	.06	.035
91-2066	.01	.001	2.6	.08	.067
91-2067	.04	.001	1.6	.05	.045
91-2068	.41	.012	1.7	.05	.042
91-2069	3.99	.116	2.8	.08	.078
91-2070	2.24	.065	2.5	.07	.008
91-2071	.82	.024	1.5	.04	.008
91-2072	.02	.001	1.3	.04	.005
91-2073	.03	.001	1.1	.03	.007
91-2074	.01	.001	1.6	.05	.013
91-2075	.46	.013	2.3	.07	.052
91-2076	.16	.005	2.0	.06	.050
91-2077	.04	.001	1.6	.05	.037
91-2078	.07	.002	2.0	.06	.049
91-2079	1.08	.032	4.4	.13	.403
91-2080	.12	.004	1.7	.05	.049
91-2081	.19	.006		.06	.072
91-2082	.05	.001	2.0	.08	.064
91-2083	.17	.005	2.0	.06	.059
91-2087	.04	.001	1.8	.05	.050
91-2088	.02	.001	2.0	.06	.064
91-2089	.01	.001	1.6	.05	.043
91-2090	.04	.00	1.9	.06	.061
91-2091	.01	.001	1.8	.05	.029
91-2092	.02	.001	4.3	.13	.045
91-2093	.01	.001	2.0	.06	.043
91-2094	.01	.001	2.1	.06	.037
91-2095	.02	.001	2.7	.08	.045

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FAX (604) 980-8621

SMITHERS LAB.:
3178 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0249-RA2

Company: **KENNECOTT CANADA**
Project: **STIKINE CLIFFER**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-01-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 30 ROCK samples submitted JUL-28-91 by PAT VARAS.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton	AG g/tonne	AG oz/ton	CU %
91-2096	.04	.001	1.7	.05	.051
91-2097	.01	.001	1.8	.05	.043
91-2098	.10	.003	2.8	.08	.115
91-2099	.01	.001	2.4	.07	.067
91-2100	.02	.001	2.5	.07	.094
91-2101	.12	.004	3.6	.11	.164
91-2105	.22	.006	3.1	.09	.220
91-2106	.20	.006	3.1	.09	.210
91-2107	.21	.006	3.5	.10	.153
91-2108	.22	.006	4.4	.13	.156
91-2109	.03	.001	3.1	.09	.101
91-2110	.01	.001	3.1	.09	.082
91-2111	.19	.006	3.9	.11	.145
91-2112	.14	.004	3.7	.11	.053
91-2113	.19	.006	4.0	.12	.079
91-1546	.05	.001	6.0	.18	.342
91-1547	.02	.001	5.3	.15	.238
91-1548	.02	.001	4.1	.12	.184
91-1549	.05	.001	4.6	.14	.240
91-1550	.01	.001	3.8	.11	.141
91-1551	.01	.001	2.4	.07	.119
91-1552	.02	.001	1.7	.05	.033
91-1553	.01	.001	2.0	.06	.080
91-1554	.01	.001	1.9	.06	.065
91-1555	.01	.001	1.0	.03	.011
91-1556	.02	.001	1.4	.04	.017
91-1557	.01	.001	1.6	.05	.022
91-1558	.04	.001	2.5	.07	.121
91-1559	.01	.001	2.4	.07	.056
91-1560	.02	.001	2.3	.07	.089

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FAX (604) 980-8621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0249-RA3

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-01-91**
Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

He hereby certify the following Assay of 30 ROCK samples submitted JUL-28-91 by PAT VARAS.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton	AG g/tonne	AG oz/ton	CU %
91-1561	.01	.001	3.4	.10	.070
91-1562	.02	.001	3.5	.10	.143
91-1563	.02	.001	12.0	.35	2.040
91-1564	.01	.001	6.7	.20	.453
91-1565	.02	.001	11.4	.33	.810
91-1566	.01	.001	9.1	.27	.620
91-1567	.01	.001	9.0	.26	.499
91-1568	.01	.001	7.3	.21	.383
91-1569	.01	.001	6.2	.18	.293
91-1570	.01	.001	5.4	.16	.236
91-1571	.02	.001	6.4	.19	.395
91-1572	.05	.001	8.5	.25	.609
91-1573	.02	.001	8.6	.25	.568
91-1574	.02	.001	9.2	.27	.410
91-1575	.01	.001	3.3	.10	.028
91-1576	.01	.001	3.0	.09	.059
91-1577	.01	.001	4.0	.12	.034
91-1578	.01	.001	5.5	.16	.307
91-1579	.02	.001	6.0	.18	.042
91-1580	.05	.001	10.9	.32	.690
91-1581	.01	.001	4.5	.13	.257
91-1582	.01	.001	2.5	.07	.067
91-1583	.01	.001	2.5	.07	.064
91-1584	.01	.001	2.4	.07	.101
91-1585	.01	.001	2.6	.08	.098
91-1586	.02	.001	1.7	.05	.046
91-1587	.01	.001	3.2	.09	.150
91-1588	.03	.001	4.0	.12	.243
91-1595	.01	.001	4.0	.12	.138
91-1596	.20	.006	3.5	.10	.072

*whores 1589
1594*

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SMITHERS LAB.:
 3176 TATLOW ROAD
 SMITHERS, B.C. CANADA V0J 2N0
 TELEPHONE (604) 847-3004
 FAX (604) 847-3005

Assay Certificate

IS-0249-RA4

Company: **KENNECOTT CANADA**
 Project: **STIKINE COPPER**
 Attn: **D. JOHNSON/E. YARROW**

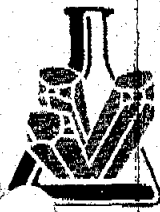
Date: **AUG-01-91**
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 2. **KENNECOTT CANADA, C/O SMITHERS EXP.**
 3. **KENNECOTT CANADA, C/O MIN-EN LABS.**

We hereby certify the following Assay of 26 ROCK samples submitted JUL-28-91 by PAT VARAS.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton	AG g/tonne	AG oz/ton	CU %
91-1597	.01	.001	5.4	.16	.160
91-1601	.01	.001	2.8	.08	.064
91-1602	.01	.001	2.6	.08	.041
91-1603	.02	.001	3.2	.09	.060
91-1604	.01	.001	3.3	.10	.151
91-1605	.01	.001	2.7	.08	.060
91-1608	.01	.001	2.4	.07	.075
91-1610	.01	.001	2.3	.07	.043
91-1611	.02	.001	2.8	.08	.102
91-1612	.01	.001	2.3	.07	.069
91-1613	.01	.001	2.3	.07	.134
91-1614	.01	.001	3.8	.11	.327
91-1615	.01	.001	3.9	.11	.100
91-1616	.44	.013	7.8	.23	.645
91-1617	.02	.001	6.8	.20	.592
91-1618	.18	.005	4.7	.14	.177
91-1619	.38	.011	10.0	.29	.410
91-1620	.80	.023	5.7	.25	.685
91-1621	.46	.013	4.9	.14	.440
91-1622	1.07	.031	11.5	.34	.704
91-1623	.69	.020	7.3	.21	.325
91-1624	.19	.006	4.9	.14	.114
91-1625	.38	.011	6.6	.19	.182
91-1626	.16	.005	10.7	.31	.358
91-1627	.02	.001	5.2	.15	.146
91-1628	.01	.001	3.6	.11	.129

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 FAX (604) 980-9821

SMITHERS LAB.:
 3178 TALLOW ROAD
 SMITHERS B.C. CANADA V0J 2N0
 TELEPHONE (604) 847-3004
 FAX (604) 847-3005

Assay Certificate

1S-0249-RA5

Company: **KENNECOTT CANADA CORPORATION**
 Project: **STIKINE COPPER**
 Attn: **D. JOHNSON / E. YARROW**

Date: **AUG-02-91**
 Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
 2. KENNECOTT CANADA, C/O SMITHERS EXP.
 3. KENNECOTT CANADA, C/O MIN-EN LABS.

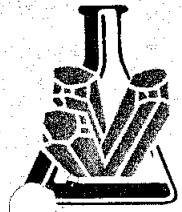
We hereby certify the following Assay of 27 ROCK samples submitted JUL-28-91 by ED YARROW.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton	AG g/tonne	AS oz/ton	CU %
91-1516	.01	.001	2.3	.07	.034
91-1517	.02	.001	2.1	.06	.018
91-1518	.02	.001	2.1	.06	.016
91-1519	.01	.001	3.4	.10	.132
91-1520	.06	.002	5.1	.15	.299
91-1521	.04	.001	3.8	.11	.245
91-1522	.08	.002	4.9	.14	.281
91-1523	.01	.001	1.9	.05	.015
91-1524	.03	.001	4.9	.14	.310
91-1525	.05	.001	6.9	.20	.331
91-1589	.04	.001	3.3	.10	.055
91-1590	.11	.003	3.8	.11	.076
91-1592	.12	.004	3.9	.11	.062
91-1593	.14	.004	5.0	.15	.110
91-1594	.21	.006	4.7	.14	.117
91-1598	.01	.001	3.9	.11	.075
91-1599	.02	.001	3.7	.11	.057
91-1600	.22	.006	5.7	.17	.132
91-1607	.01	.001	2.6	.08	.055
91-1608	.02	.001	3.4	.10	.026
91-2009	.03	.001	2.8	.08	.014
91-2084	.19	.006	2.1	.06	.047
91-2085	.16	.005	2.5	.07	.034
91-2086	.08	.002	2.1	.06	.032
91-2102	.51	.015	4.8	.14	.300
91-2103	.87	.025	7.8	.23	.446
91-2104	.20	.006	4.5	.13	.143

388

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705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0331-RA2

Company: **KENNECOTT CANADA CORPORATION**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON / E. YARROW**

Date: **AUG-08-91**
Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-ENLABS.

We hereby certify the following Assay of 24 ROCKS samples submitted AUG-03-91 by E. YARROW.

Sample Number	*AU-FIRE g/tonne	*AU-FIRE oz/ton	AG g/tonne	AG oz/ton	CU %
911719	.01	.001	1.3	.04	.009
911720	.01	.001	0.9	.03	.005
911721	.02	.001	1.0	.03	.007
911722	.01	.001	1.2	.04	.014
911723	.01	.001	1.7	.05	.008
911724	.01	.001	1.0	.03	.004
911725	.02	.001	1.0	.03	.009
912114	.09	.003	1.7	.05	.209
912115	.03	.001	1.6	.05	.087
912116	.02	.001	2.5	.07	.116
912117	.06	.002	2.4	.07	.147
912118	.04	.001	3.0	.09	.220
912119	.08	.002	2.7	.08	.164
912120	.09	.003	2.6	.08	.197
912121	.02	.001	1.2	.04	.047
912122	.34	.010	2.2	.06	.088
912123	1.84	.054	4.1	.12	.361
912124	.09	.003	1.6	.05	.020
912125	.02	.001	1.3	.04	.009
912126	.06	.002	2.4	.07	.009
912127	.02	.001	2.7	.08	.011
912128	.30	.009	2.4	.07	.033
912129	.02	.001	1.8	.05	.007
912140	.03	.001	2.0	.06	.013

GC 392
↑
GC 390
↓

GC 2130 - 2139
- not rec'd by
Aug 21/91

*AU - 1 ASSAY TON.

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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0331-RA3

Company: **KENNECOTT CANADA CORPORATION**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON / E. YARROW**

Date: **AUG-08-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-ENLABS.

We hereby certify the following Assay of 24 ROCKS samples submitted AUG-03-91 by E. YARROW.

Sample Number	*AU-FIRE g/tonne	*AU-FIRE oz/ton	AG g/tonne	AG oz/ton	CU %
912141	.26	.008	3.3	.10	.031
912142	.08	.002	3.0	.09	.026
912143	.05	.001	3.3	.10	.038
912144	.12	.004	2.7	.08	.037
912145	.18	.005	2.0	.06	.015
912146	.01	.001	1.9	.06	.006
912147	.02	.001	3.4	.10	.063
912148	.06	.002	4.1	.12	.064
912159	.03	.001	2.4	.07	.027
912160	.42	.012	2.9	.08	.064
912161	.05	.001	2.6	.08	.044
912162	.11	.003	2.6	.08	.073
912163	.02	.001	2.7	.08	.054
912164	.01	.001	2.8	.08	.088
912165	1.20	.035	2.8	.08	.073
912166	.04	.001	2.6	.08	.088
912167	.02	.001	2.5	.07	.107
912168	.05	.001	3.4	.10	.096
912169	.06	.002	3.3	.10	.112
912170	.03	.001	2.5	.07	.064
912171	.61	.018	2.9	.08	.102
912172	.07	.002	2.6	.08	.100
912173	.05	.001	3.0	.09	.126
912174	.07	.002	3.2	.09	.097

GC 320

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TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0331-RA4

Company: **KENNECOTT CANADA CORPORATION**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON / E. YARROW**

Date: **AUG-08-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-ENLABS.

We hereby certify the following Assay of 2 ROCKS samples
submitted AUG-03-91 by E. YARROW.

Sample Number	*AU-FIRE g/tonne	*AU-FIRE oz/ton	AG g/tonne	AG oz/ton	CU %	
912175	.02	.001	2.1	.06	.015	GC 390
912176	.01	.001	1.6	.05	.005	

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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0377-RA1

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-15-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS

We hereby certify the following Assay of 24 CORE samples submitted AUG-08-91 by D. JOHNSON/E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91-1696	.312	.01	5.7
91-1697	.216	.01	3.3
91-1698	.364	.01	5.2
91-1702	.372	.01	7.3
91-1703	.083	.01	2.6
91-1704	.424	.02	7.5
91-1726	.372	.15	7.1
91-1727	.027	.02	1.4
91-1728	.020	.03	0.9
91-1729	.029	.02	1.0
1730	.051	.11	1.8
91-1731	.564	.01	6.3
91-1732	.648	.01	7.3
91-1733	.675	.01	6.8
91-1734	.549	.01	5.2
91-1735	.424	.01	4.4
91-1736	.152	.01	3.1
91-1737	.061	.01	1.9
91-1742	.021	.04	0.9
91-1743	.032	.02	1.0
91-1744	.009	.03	0.7
91-1745	.148	.04	5.4
91-1750	.252	.01	5.7
91-1751	.337	.01	4.2

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Assay Certificate

1S-0377-RA2

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-15-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
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3. KENNECOTT CANADA, C/O MIN-EN LABS

**We hereby certify the following Assay of 24 CORE samples
submitted AUG-08-91 by D. JOHNSON/E. YARROW.**

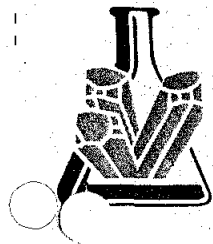
Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91-1752	.169	.03	2.7
91-1753	.102	.04	2.9
91-1754	.053	.01	1.7
91-1755	.188	.10	4.5
91-1756	.277	.07	5.4
91-1757	.243	.09	4.3
91-1758	.306	.12	5.2
91-1759	.319	.16	8.0
91-1760	.373	.13	5.1
91-1761	.614	.18	9.1
91-1762	.262	.06	3.6
91-1763	.226	.06	4.1
91-1764	.206	.04	3.1
91-1765	.456	.10	4.2
91-1766	.562	.09	4.0
91-1767	.388	.01	3.1
91-1768	.205	.07	2.4
91-1769	.776	.13	6.2
91-1770	.316	.02	2.2
91-1771	.332	.01	2.7
91-1772	.480	.01	2.7
91-1773	1.660	.38	8.9
91-1774	1.298	.26	8.8
91-1775	.597	.20	5.4

GC 395

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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0377-RA3

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-15-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS

We hereby certify the following Assay of 24 CORE samples submitted AUG-08-91 by D. JOHNSON/E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91-1776	.307	.11	4.0
91-1777	.746	.20	5.8
91-1778	1.053	.29	7.7
91-1779	1.081	.28	8.1
91-1783	.026	.02	1.1
91-1784	.022	.02	0.7
91-1785	.352	3.22	49.4
91-2177	.046	.25	3.1
91-2178	.138	.24	3.2
91-2179	.142	.09	2.5
91-2180	.102	.07	1.7
91-2181	.141	.18	2.2
91-2182	.271	.10	3.5
91-2183	.031	.02	1.7
91-2184	.034	.01	2.0
91-2188	.023	.02	1.7
91-2189	.053	.02	1.6
91-2190	.052	.01	1.7
91-2191	.077	.02	2.1
91-2192	.017	.02	2.3
91-2193	.029	.02	2.1
91-2194	.090	.01	3.0
91-2195	.135	.02	4.6
91-2196	.066	.02	1.7

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Assay Certificate

1S-0377-RA4

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-15-91**

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2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS

He hereby certify the following Assay of 24 CORE samples
submitted AUG-08-91 by D. JOHNSON/E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91-2197	.108	.01	2.7
91-2198	.039	.06	4.2
91-2199	.096	.08	1.9
91-2200	.044	.06	2.5
91-2201	.067	.02	2.0
91-2202	.021	.01	1.9
91-2206	.074	.19	2.7
91-2207	.067	.12	2.6
91-2208	.033	.02	2.3
91-2209	.017	.07	4.1
91-2210	.030	.08	2.1
91-2211	.048	.06	3.1
91-2212	.045	.09	1.9
91-2213	.092	.01	2.5
91-2214	.104	.01	2.1
91-2218	.123	.02	2.3
91-2219	.107	.01	2.1
91-2220	.110	.01	2.3
91-2221	.115	.02	1.9
91-2222	.114	.02	2.4
91-2223	.115	.01	2.8
91-2227	.147	.01	3.0
91-2228	.061	.02	2.1
91-2229	.032	.01	2.2

*AU - 1 ASSAY TON.

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TELEPHONE (604) 847-3004
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Assay Certificate

1S-0377-RA5

Company: **KENNECOTT CANADA**
Project: STIKINE COPPER
Attn: D. JOHNSON/E. YARROW

Date: **AUG-15-91**
Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS

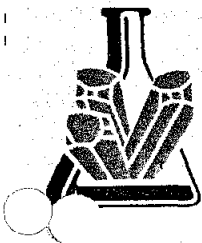
We hereby certify the following Assay of 24 CORE samples submitted AUG-08-91 by D. JOHNSON/E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91-2230	.007	.02	1.4
91-2231	.049	.01	2.3
91-2232	.080	.09	2.6
91-2236	.106	.26	4.0
91-2237	.040	.07	2.1
91-2238	.072	.19	2.3
91-2239	.044	.09	2.5
91-2240	.004	.01	1.7
91-2241	.035	.10	1.9
91-2242	.031	.03	1.7
91-2243	.029	.02	2.0
91-2244	.025	.04	1.9
91-2245	.021	.01	1.7
91-2246	.026	.33	4.0
91-2247	.010	.02	1.8
91-2248	.011	.01	1.8
91-2249	.008	.01	1.5
91-2250	.006	.01	1.3
91-2251	.006	.01	0.7
91-2252	.005	.01	1.0
91-2253	.005	.01	0.5
91-2254	.007	.03	0.8
91-2255	.019	.01	0.9
91-2256	.007	.01	0.7

*AU - 1 ASSAY TON.

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SMITHERS LAB:
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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0377-RA6

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-15-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS

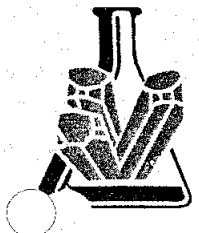
We hereby certify the following Assay of 24 CORE samples submitted AUG-08-91 by D. JOHNSON/E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91-2257	.266	.02	0.9
91-2258	.006	.01	0.6
91-2259	.002	.01	0.7
91-2260	.002	.04	0.7
91-2261	.012	.01	0.5
91-2262	.027	.01	0.4
91-2263	.052	.04	1.0
91-2264	.102	.06	1.1
91-2265	.151	.11	1.6
91-2266	.075	.06	0.8
91-2267	.143	.12	0.9
91-2268	.083	.02	0.9
91-2269	.121	.06	1.0
91-2270	.052	.02	0.2
91-2271	.068	.01	0.9
91-2272	.290	.01	0.5
91-2273	.150	.02	0.5
91-2274	.092	.01	0.8
91-2275	.049	.03	0.7
91-2276	.015	.01	0.9
91-2277	.019	.01	0.9
91-2278	.030	.01	0.5
91-2279	.015	.02	0.9
91-2280	.006	.01	0.6

*AU - 1 ASSAY TON.

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Assay Certificate

1S-0377-RA7

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-15-91**
Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS

**We hereby certify the following Assay of 14 CORE samples
submitted AUG-08-91 by D. JOHNSON/E. YARROW.**

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91-2281	.017	.02	1.0
91-2282	.007	.02	0.9
91-2283	.026	.03	0.5
91-2284	.056	.04	0.8
91-2285	.028	.05	0.8
91-2286	.019	.02	0.4
91-2287	.002	.01	0.5
91-2288	.009	.02	0.4
91-2289	.011	.02	0.7
91-2290	.032	.09	0.6
91-2291	.028	.02	0.7
91-2292	.054	.07	0.9
91-2293	.033	.02	0.3
91-2294	.003	.01	0.9

*AU - 1 ASSAY TON.

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TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0385-RA1

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-15-91**

- Copy 1. KENNECOTT CANADA INC, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 CORE samples submitted AUG-08-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91-1738	.146	.02	4.5
91-1739	.075	.04	3.6
91-1740	.041	.01	1.8
91-1741	.020	.01	1.5
91-1746	.141	.07	10.5
91-1747	.307	.11	4.1
91-1748	.346	.14	4.8
91-1749	.563	.18	8.6
91-1780	.995	.34	7.0
91-1781	.257	.09	4.8
91-1782	.027	.02	1.6
91-2185	.147	.01	2.6
91-2186	.049	.01	1.9
91-2187	.046	.02	1.8
91-2203	.032	.02	1.8
91-2204	.037	.01	2.1
91-2205	.065	.08	2.6
91-2215	.027	.07	1.7
91-2216	.041	.04	1.3
91-2217	.101	.12	1.8
91-2224	.073	.09	2.1
91-2225	.044	.03	2.1
91-2226	.064	.10	1.9
91-2233	.044	.08	1.8

393A

*AU - 1 ASSAY TON.

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VANCOUVER OFFICE:

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NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

SMITHERS LAB.:

3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0385-RA2

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-15-91**

- Copy 1. KENNECOTT CANADA INC, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

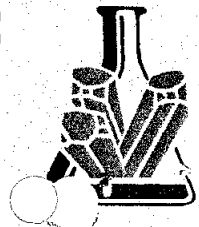
***We hereby certify the following Assay of 2 CORE samples
submitted AUG-08-91 by ED YARROW.***

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91-2234	.059	.10	2.1
91-2235	.040	.35	2.6

*AU - 1 ASSAY TON.

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SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0406-RA1

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-19-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

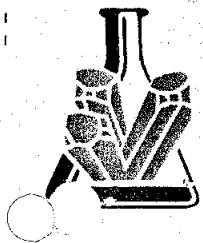
**We hereby certify the following Assay of 24 CORE samples
submitted AUG-12-91 by ED YARROW.**

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91-1786	.261	.04	4.7
91-1787	.324	.17	5.2
91-1788	.658	.12	6.3
91-1792	.623	.16	6.4
91-1793	.821	.20	7.7
91-1794	.913	1.05	8.2
91-1795	1.577	1.50	10.7
91-1796	2.457	1.50	19.8
91-1797	1.000	1.01	6.6
91-1798	1.527	.60	9.7
91-1799	1.866	.95	12.4
91-1800	1.028	.62	7.7
91-1801	1.109	.42	7.6
91-2295	.023	.02	1.4
91-2296	.067	.02	1.3
91-2297	.092	.02	1.4
91-2298	.036	.04	1.5
91-2299	.023	.02	1.6
91-2300	.037	.10	1.6
91-2301	.464	.42	2.8
91-2302	.335	.29	2.6
91-2303	.171	.20	2.4
91-2304	.045	.06	1.7
91-2305	.084	.32	1.6

*All -- 1 ASSAY TON.

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[Signature]
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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0406-RA2

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-19-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 17 CORE samples submitted AUG-12-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91-2306	.068	.01	.6
91-2307	.067	.01	.8
91-2308	.082	.06	.7
91-2309	.106	.03	.7
91-2310	.159	.22	1.5
91-2311	.381	.72	2.1
91-2312	.007	.01	2.1
91-2313	.003	.01	2.4
91-2314	.001	.01	2.4
91-2315	.134	.21	1.7
91-2316	.147	.16	1.8
91-2317	.104	.01	1.5
91-2318	.039	.01	1.2
91-2319	.319	.70	1.7
91-2320	.332	.18	1.5
91-2321	.093	.01	1.5
91-2322	.161	.11	1.6

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0480-RA1

Company: **KENNECOTT CANADA CORPORATION**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-20-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 ROCK samples submitted AUG-17-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91-1015	.672	.04	1.9
91-1016	.400	1.24	4.2
91-1017	.415	.10	2.7
91-1018	.520	.34	5.1
91-2353	.039	.05	2.0
91-2354	.026	.08	2.1
91-2355	.099	.21	2.4
91-2356	.017	.02	1.9
91-2366	.023	.01	2.1
91-2367	.183	.29	1.8
91-2368	.074	.13	1.7
91-2369	.099	.09	1.9
91-2370	.035	.05	1.8
91-2371	.036	.03	2.0
91-2372	.039	.03	1.6
91-2373	.044	.05	1.5
91-2385	.071	.17	2.0
91-2386	.104	.07	2.1
91-2387	.046	.05	2.1
91-2388	.030	.07	1.7
91-2389	.057	.04	2.3
91-2390	.049	.07	1.8
91-2391	.051	.06	2.0
91-2392	.034	.03	1.9

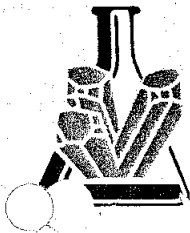
Sub Chip Sample {
 1m width
 4 Contin Chip
 2m Contin Chip
 5m Contin Chip
 1.6
 .830
 .41/6m

Bract → GC 397

60

*AU - 1 ASSAY TON.

Certified by *[Signature]*
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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0480-RA2

Company: **KENNECOTT CANADA CORPORATION**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

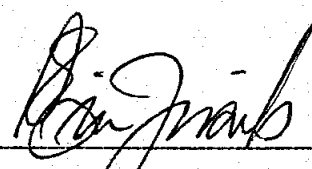
Date: **AUG-21-91**
Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

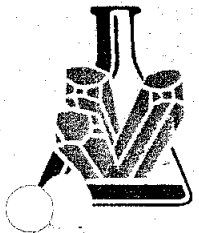
We hereby certify the following Assay of 10 ROCK samples submitted AUG-17-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91-2393	.035	.02	1.2
91-2394	.036	.02	0.8
91-2395	.033	.01	1.6
91-2396	.032	.03	1.3
91-2397	.041	.01	1.0
91-2398	.061	.02	1.2
91-2399	.058	.02	1.1
91-2400	.055	.01	1.3
91-2401	.064	.09	1.5
91-2402	.042	.02	1.6

GC 397
↓

*AU - 1 ASSAY TON.

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SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate 1S-0490-RA1

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER DDH 398**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-23-91**
Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-ENLABS.

We hereby certify the following Assay of 24 ROCK samples submitted AUG-19-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 398 91-1861	.058	.01	1.5
DDH 398 91-1862	.024	.01	1.0
DDH 398 91-1863	.264	.05	1.5
DDH 398 91-1864	.046	.01	0.9
DDH 398 91-1865	.036	.01	1.1
DDH 398 91-1866	.042	.08	0.6
DDH 398 91-1867	.164	.31	1.4
DDH 398 91-1868	.091	.10	0.7
DDH 398 91-1869	.457	.50	2.2
DDH 398 91-1870	.089	.10	1.3
DDH 398 91-1871	.070	.09	0.9
DDH 398 91-1872	.048	.04	1.0
DDH 398 91-1873	.259	.19	1.7
DDH 398 91-1874	.150	.03	1.5
DDH 398 91-1875	.372	.21	2.2
DDH 398 91-1876	.046	.03	0.8
DDH 398 91-1877	.307	.23	0.6
DDH 398 91-1878	.064	.05	1.2
DDH 398 91-1879	.583	.48	2.6
DDH 398 91-1880	.090	.02	1.1
DDH 398 91-1881	.237	.16	1.5
DDH 398 91-1882	.132	.09	1.0
DDH 398 91-1883	.249	.15	1.4
DDH 398 91-1884	.812	.68	2.5

66-398

60.90-131.4

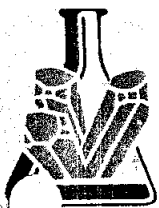
0.28Cu

-96.1

*AU - 1 ASSAY TON.

Certified by *[Signature]*

MIN-EN LABORATORIES



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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0490-RA2

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER DDH 398**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-23-91**
Copy 1. **KENNECOTT CANADA, VANCOUVER, B.C.**
2. **KENNECOTT CANADA, C/O SMITHERS EXP.**
3. **KENNECOTT CANADA, C/O MIN-ENLABS.**

We hereby certify the following Assay of 24 ROCK samples submitted AUG-19-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 398 91-1885	.463	.40	1.4
DDH 398 91-1886	.371	.11	1.7
DDH 398 91-1887	.287	.17	1.2
DDH 398 91-1888	.344	.26	1.6
DDH 398 91-1889	.164	.15	1.2
DDH 398 91-1890	.242	.30	1.3
DDH 398 91-1891	.133	.15	1.4
DDH 398 91-1892	.093	.20	2.1
DDH 398 91-1893	.042	.01	1.7
DDH 398 91-1894	.092	.30	2.7
DDH 398 91-1895	.012	.10	1.8
DDH 398 91-1896	.027	.30	1.1
DDH 398 91-1897	.005	.04	1.2
DDH 398 91-1898	.137	.14	1.1
DDH 398 91-1899	.248	.25	1.7
DDH 398 91-1900	.166	.15	2.1
DDH 398 91-1901	.377	.30	2.7
DDH 398 91-1902	.709	.31	4.3
DDH 398 91-1903	1.124	.50	5.4
DDH 398 91-1904	1.453	.43	5.8
DDH 398 91-1905	1.943	.98	12.8
DDH 398 91-1906	1.349	.60	3.4
DDH 398 91-1907	1.011	1.10	3.7
DDH 398 91-1908	1.831	.80	7.4

96 ml / 1.05% Cu
0.55 g/ton Au
5.23 g/ton Ag

87 ml / 1.12

Certified by _____

J. Carley

MIN-EN LABORATORIES



Assay Certificate

1S-0490-RA3

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER DDH 398**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-23-91**
Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-ENLABS.

We hereby certify the following Assay of 24 ROCK samples submitted AUG-19-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 398 91-1909	.599	.14	2.8
DDH 398 91-1910	.721	.32	4.2
DDH 398 91-1911	.897	.34	4.1
DDH 398 91-1912	.356	.12	2.0
DDH 398 91-1913	.582	.20	2.3
DDH 398 91-1914	.891	.26	8.3
DDH 398 91-1915	.846	.33	6.4
DDH 398 91-1916	1.071	.71	7.6
DDH 398 91-1917	.782	.59	4.5
DDH 398 91-1918	1.965	1.02	6.8
DDH 398 91-1919	1.426	1.02	6.3
DDH 398 91-1920	2.419	1.40	7.5
DDH 398 91-1921	2.174	1.52	7.6
DDH 398 91-1922	1.084	1.28	5.4
DDH 398 91-1923	.745	1.43	4.6
DDH 398 91-1924	1.351	1.53	2.9
DDH 398 91-1925	.502	.77	5.5
DDH 398 91-1926	.638	.84	3.7
DDH 398 91-1927	1.182	2.07	6.1
DDH 398 91-1928	1.265	2.04	8.1
DDH 398 91-1929	.727	1.11	5.7
DDH 398 91-1930	.850	1.28	5.0
DDH 398 91-1931	.323	.43	2.2
DDH 398 91-1932	.385	.41	2.4

GC-398

66m / 1105 Cu
.85

121.33

13
39m / 1.37g/t

Cu Au
33.58 26.18 167.5

*AU - 1 ASSAY TON.

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SMITHERS LAB.:
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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0490-RA4

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER DDH 398**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-23-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-ENLABS.

We hereby certify the following Assay of 13 ROCK samples submitted AUG-19-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 398 91-1933	.162	.19	2.2
DDH 398 91-1934	.194	.32	2.5
DDH 398 91-1935	.137	.28	2.2
DDH 398 91-1936	.154	.34	2.3
DDH 398 91-1937	.093	.13	2.1
DDH 398 91-1938	.144	.22	2.1
DDH 398 91-1939	.095	.19	1.8
DDH 398 91-1940	.090	.14	2.0
DDH 398 91-1941	.108	.31	1.7
DDH 398 91-1942	.100	.29	1.8
DDH 398 91-1946	.113	.29	2.3
DDH 398 91-1947	.036	.02	1.6
DDH 398 91-1948	.005	.01	0.9

66-398

*AU - 1 ASSAY TON.

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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
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Assay Certificate

1S-0491-RA1

Company: **KENNECOTT CANACA INC.**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

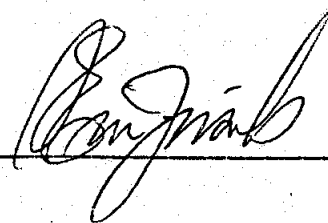
Date: **AUG-23-91**

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2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 ROCK samples submitted AUG-19-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne			
91-1009	3.245	**12.15	23.9	2m cont chip	24.3	
91-1010	1.450	4.79	32.1	3.7 m cont chip	17.72	
91-1011	.557	3.24	16.5	5.8 m cont chip	18.79	
91-1012	1.716	1.96	6.8	3m cont chip	5.88	26.99
91-1013	.572	1.99	4.1	5m cont chip	9.95	6.49
91-1014	1.710	1.99	4.8	3.2 m cont chip	10.35	5.365
91-2357	.043	.05	0.6	↓ GC 397	MIDDLE	3.23
91-2358	.026	.01	0.7		CREEK	5.746
91-2359	.030	.01	0.5			2.86
91-2360	.033	.09	0.4			2.89
91-2361	.025	.07	0.6			31.98
91-2362	.026	.07	0.5			
91-2363	.022	.06	0.7			
91-2364	.004	.04	0.9			
91-2365	.003	.05	0.7			
91-2374	.042	.03	1.2			
91-2375	.007	.01	0.9			
91-2376	.020	.02	1.4			
91-2377	.062	.09	1.6			
91-2378	.068	.08	1.1			
91-2379	.055	.32	0.9			
91-2380	.042	.47	1.2			
91-2381	.047	.25	1.2			
91-2382	.041	.01	1.0			

*AU - 1 ASSAY TON
** SAMPLE MAY CONTAIN METALLIC GOLD.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0491-RA2

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-24-91**

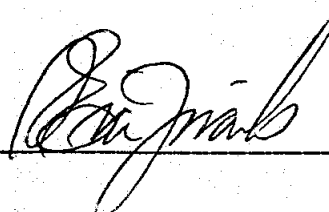
- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 CORE samples submitted AUG-19-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91-2383	.043	.04	2.1
91-2384	.020	.07	2.2
91-2403	.047	.05	2.0
91-2404	.048	.02	2.0
91-2405	.039	.03	1.8
91-2406	.044	.02	1.7
91-2407	.099	.09	2.2
91-2408	.058	.02	2.2
91-2409	.073	.05	2.0
91-2410	.075	.02	2.3
91-2411	.010	.02	3.1
91-2412	.006	.01	2.5
91-2413	.007	.01	3.1
91-2414	.071	.05	2.1
91-2415	.061	.02	2.0
91-2416	.078	.04	2.1
91-2417	.080	.05	2.2
91-2418	.105	.08	2.3
91-2419	.126	.09	2.1
91-2420	.199	.20	2.5
91-2421	.065	.02	2.0
91-2422	.127	.08	2.2
91-2423	.114	.09	2.5
91-2424	.136	.14	2.7

GC 397
↑
↓
GC 397
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*AU = 1 ASSAY TON.

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SMITHERS LAB.:
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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0491-RA3

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **AUG-24-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

**We hereby certify the following Assay of 17 CORE samples
submitted AUG-19-91 by ED YARROW.**

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91-2425	.038	.03	2.0
91-2426	.044	.05	2.1
91-2427	.030	.10	1.6
91-2428	.070	.18	2.1
91-2429	.145	.42	2.6
91-2430	.033	.07	2.0
91-2431	.023	.06	1.9
91-2432	.158	.18	2.3
91-2433	.097	.11	2.6
91-2434	.059	.09	2.1
91-2435	.101	.07	2.4
91-2436	.060	.02	2.6
91-2437	.054	.02	2.9
91-2438	.212	.19	3.2
91-2439	.074	.02	2.5
91-2440	.121	.09	2.3
91-2441	.077	.08	2.4

GC 397

*AU = 1 ASSAY TON.

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SMITHERS LAB.:

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FAX (604) 847-3005

Assay Certificate

1S-0590-RA1

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-02-91**

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3. KENNECOTT CANADA, C/O MIN-EN LABS.

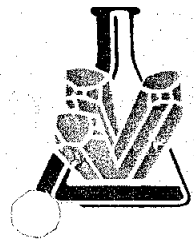
**We hereby certify the following Assay of 24 CORE samples
submitted AUG-26-91 by E. YARROW.**

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 398 91-1943	.013	.02	1.2 ✓
DDH 398 91-1944	.039	.09	2.0 ✓
DDH 398 91-1945	.061	.17	1.9 ✓
DDH 398 91-1949	.012	.02	1.7 ✓
DDH 398 91-1950	.077	.14	2.6 ✓
DDH 398 91-1951	.054	.16	2.0 ✓
DDH 398 91-1952	.378	.56	4.2 ✓
DDH 398 91-1953	.147	.22	2.8 ✓
DDH 398 91-1954	.098	.23	2.5
DDH 398 91-1955	.129	.26	2.9
DDH 398 91-1956	.132	.20	3.1
DDH 398 91-1957	.133	.15	2.3
DDH 398 91-1958	.340	.28	3.7
DDH 398 91-1959	.312	.40	3.2
DDH 398 91-1960	.076	.12	2.4
DDH 398 91-1961	.052	.09	1.7
DDH 398 91-1962	.130	.14	2.3
DDH 398 91-1963	.132	.13	2.5
DDH 398 91-1964	.106	.11	2.3
DDH 398 91-1965	.041	.03	1.9
DDH 398 91-1966	.064	.17	1.8
DDH 398 91-1967	.092	.23	2.6
DDH 398 91-1968	.028	.11	1.9
DDH 398 91-1969	.046	.12	1.8

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FAX (604) 847-3005

Assay Certificate

1S-0590-RA2

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-02-91**

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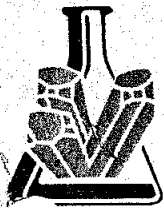
**We hereby certify the following Assay of 5 CORE samples
submitted AUG-26-91 by E. YARROW.**

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 398 91-1970	.023	.03	1.8
DDH 398 91-1971	.026	.07	1.3
DDH 398 91-1972	.043	.04	2.0
DDH 398 91-1973	.042	.06	1.9
DDH 398 91-1974	.148	.18	3.0

*AU - 1 ASSAY TON.

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SMITHERS LAB.:
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TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0591-RA1

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-02-91**
Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 CORE samples
submitted AUG-26-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 400 91-1975	.010	.01	1.5
DDH 400 91-1976	.018	.02	1.8
DDH 400 91-1977	.024	.04	2.0
DDH 400 91-1978	.004	.02	1.3
DDH 400 91-1979	.006	.02	1.3
DDH 400 91-1980	.035	.02	1.8
DDH 400 91-1981	.031	.09	1.7
DDH 400 91-1982	.016	.03	1.5
DDH 400 91-1983	.017	.08	1.3
DDH 400 91-1984	.020	.02	1.4
DDH 400 91-1985	.014	.01	1.2
DDH 400 91-1986	.006	.02	0.9
DDH 400 91-1987	.008	.01	0.7
DDH 400 91-1988	.070	.04	1.9
DDH 400 91-1989	.021	.01	1.4
DDH 400 91-1990	.006	.02	1.3
DDH 400 91-1991	.009	.01	1.4
DDH 400 91-1992	.018	.02	1.4
DDH 400 91-1993	.003	.01	1.3
DDH 400 91-1994	.009	.01	1.4
DDH 400 91-1995	.008	.02	1.1
DDH 400 91-1996	.004	.02	1.6
DDH 400 91-1997	.002	.01	1.5
DDH 400 91-1998	.014	.02	2.1

GC-400

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Assay Certificate

1S-0591-RA2

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-02-91**

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3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 CORE samples
submitted AUG-26-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 400 91-1999	.025	.01	1.6
DDH 400 91-2000	.016	.09	1.3
DDH 400 91-4001	.019	.02	2.2
DDH 400 91-4009	.016	.01	1.8
DDH 400 91-4010	.013	.02	1.6
DDH 400 91-4011	.030	.01	1.6
DDH 400 91-4015	.013	.01	1.5
DDH 400 91-4016	.031	.03	1.6
DDH 400 91-4017	.043	.03	1.5
DDH 400 91-4018	.029	.02	1.3
400 91-4019	.006	.01	1.0
DDH 400 91-4020	.001	.01	0.5
DDH 400 91-4021	.001	.02	0.2
DDH 400 91-4022	.001	.01	0.3
DDH 400 91-4023	.001	.01	0.5
DDH 400 91-4024	.018	.02	1.1
DDH 400 91-4027	.019	.02	1.5
DDH 400 91-4028	.026	.07	1.5
DDH 400 91-4029	.070	.04	2.8
DDH 400 91-4030	.059	.03	2.9
DDH 400 91-4031	.082	.02	2.0
DDH 400 91-4032	.215	.09	3.1
DDH 400 91-4033	.228	.03	3.2
DDH 400 91-4034	.308	.03	3.8

6C-400

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SMITHERS LAB.:
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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0591-RA3

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-03-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 CORE samples submitted AUG-26-91 by E. YARROW.

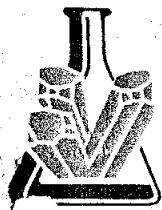
Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 400 91-4035	.595	.02	4.9
DDH 400 91-4036	.592	.04	4.0
DDH 400 91-4037	.845	.10	4.3
DDH 400 91-4038	.026	.01	1.4
DDH 400 91-4039	.089	.03	2.0
DDH 400 91-4040	.234	.02	2.9
DDH 400 91-4041	.239	.02	3.1
DDH 400 91-4042	.191	.01	3.0
DDH 400 91-4043	.149	.01	2.9
DDH 400 91-4044	.065	.02	2.4
DDH 400 91-4045	.049	.02	2.1
DDH 400 91-4046	.066	.01	2.4
DDH 400 91-4047	.042	.02	2.9
DDH 400 91-4048	.098	.09	3.6
DDH 400 91-4049	.065	.03	3.5
DDH 400 91-4050	.089	.05	3.5
DDH 400 91-4051	.106	.09	3.8
DDH 400 91-4052	.050	.02	3.1
DDH 400 91-4053	.027	.01	2.5
DDH 400 91-4054	.048	.02	2.4
DDH 400 91-4055	.031	.02	2.5
DDH 400 91-4056	.037	.01	2.6
DDH 400 91-4057	.034	.02	2.8
DDH 400 91-4058	.051	.03	3.7

GC-400

*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0591-RA4

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-03-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 7 samples
submitted AUG-26-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 400 91-4059	.044	.02	2.7
DDH 400 91-4060	.087	.03	3.4
DDH 400 91-4061	.060	.08	3.3
DDH 400 91-4062	.091	.10	3.3
DDH 400 91-4063	.055	.03	3.0
DDH 400 91-4064	.106	.18	3.3
DDH 400 91-4065	.445	.10	4.9

6C-400

*AU - 1 ASSAY TON.

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SMITHERS LAB.:
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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0592-RA1

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER SW ZONE**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-04-91**

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2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 CORE samples submitted AUG-26-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91-2442	.088	.09	2.3 ✓
91-2443	.100	.07	2.5 ✓
91-2444	.039	.02	1.9 ✓
91-2445	.095	.03	2.0 ✓
91-2446	.033	.01	2.2 ✓
91-2447	.074	.02	2.3 ✓
91-2448	.157	.12	2.3 ✓
91-2449	.205	.08	2.9 ✓
91-2450	.117	.09	2.0 ✓
91-2451	.051	.02	2.2 ✓
91-2452 912452	.175	.04	2.8 ✓
91-2453	.036	.01	1.9 ✓
91-2454	.008	.01	1.7 ✓
91-2455	.004	.02	1.8 ✓
91-2456	.346	.06	3.3 ✓
91-2457	.087	.08	2.2 ✓
91-2458	.226	.17	2.8 ✓
91-2459	.170	.09	3.2 ✓
91-2460	.309	.12	3.6 ✓
91-2461	.216	.09	3.0 ✓
91-2462	.004	.01	2.4 ✓
91-2463	.020	.02	1.7 ✓
91-2464	.164	.11	1.6 ✓
91-2465	.211	.10	2.4 ✓

60-397

*AU - 1 ASSAY TON.

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FAX (604) 847-3005

Assay Certificate

1S-0592-RA2

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER SW ZONE**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-03-91**

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2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 CORE samples submitted AUG-26-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91-2466	.278	.18	2.8 ✓
91-2467	.333	.21	3.1 ✓
91-2468	.071	.10	1.6 ✓
91-2469	.065	.08	1.3 ✓
91-2470	.058	.02	1.6 ✓
91-2471	.039	.12	1.5 ✓
91-2472	.050	.13	1.4 ✓
91-2473	.149	.22	1.5 ✓
91-2474	.023	.20	1.1 ✓
91-2475	.017	.06	1.2 ✓
2476	.031	.09	1.4 ✓
91-2477	.014	.12	1.7 ✓
91-2478	.017	.17	1.6 ✓
91-2479	.013	.18	1.8 ✓
91-2480	.013	.30	2.0 ✓
91-2481	.002	.07	1.7 ✓
91-2482	.011	.20	1.0 ✓
91-2483	.025	.19	1.6 ✓
91-2484	.014	.11	1.1 ✓
91-2485	.028	.10	1.2 ✓
91-2486	.007	.02	1.0 ✓
91-2487	.025	.12	1.7 ✓
91-2488	.027	.21	2.3 ✓
91-2489	.008	.02	1.2 ✓

60397
60399

*AU - 1 ASSAY TON.

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FAX (604) 980-9821

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0593-RA1

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-16-91**
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3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 12 CORE samples
submitted AUG-26-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 400 91-4002	.012	.02	1.6
DDH 400 91-4003	.021	.01	1.7
DDH 400 91-4004	.894	1.00	7.3
DDH 400 91-4005	.299	.31	7.6
DDH 400 91-4006	.046	.03	2.3
DDH 400 91-4007	.034	.01	2.0
DDH 400 91-4008	.026	.01	2.1
DDH 400 91-4012	.047	.01	1.9
DDH 400 91-4013	.020	.02	1.4
DDH 400 91-4014	.047	.01	1.3
DDH 400 91-4025	.055	.01	1.7
DDH 400 91-4026	.141	.03	2.6

Lead

Handwritten signature or initials



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TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0624-RA1

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-04-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 18 CORE samples submitted AUG-29-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91- 4066	.206	.03	3.5
91- 4067	.428	.10	5.9
91- 4068	.037	.03	2.1
91- 4069	.043	.02	2.4
91- 4070	.049	.02	3.9
91- 4071	.042	.03	2.0
91- 4072	.060	.09	2.3
91- 4073	.050	.03	2.1
91- 4074	.030	.02	2.2
91- 4075	.025	.02	1.9
91- 4076	.025	.01	2.0
91- 4077	.022	.04	1.8
91- 4078	.005	.01	1.6
91- 4079	.013	.02	1.7
91- 4080	.010	.01	1.7
91- 4081	.001	.01	1.5
91- 4082	.010	.02	1.7
91- 4083	.003	.06	1.7

HOLE GC-400

*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:

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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0626-RA1

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER P.O. GC 40Z**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-06-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

*We hereby certify the following Assay of 24 CORE samples
submitted AUG-29-91 by ED YARROW.*

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91- 4084	.028	.04	1.7
91- 4085	.030	.03	1.5
91- 4086	.016	.02	1.5
91- 4087	.006	.02	1.3
91- 4088	.019	.07	1.6
91- 4089	.213	.43	8.2
91- 4090	.034	.04	1.1
91- 4091	.034	.01	1.0
91- 4092	.043	.07	1.9
91- 4093	.033	.04	1.1
91- 4094	.031	.02	1.1
91- 4095	.030	.01	1.6
91- 4096	.032	.01	1.6
91- 4097	.019	.02	1.6
91- 4098	.021	.02	1.6
91- 4099	.067	.04	2.0
91- 4100	.015	.01	1.1
91- 4122	.048	.01	1.9
91- 4123	.026	.01	1.4
91- 4124	.009	.02	1.6
91- 4125	.029	.01	1.3
91- 4126	.009	.01	1.3
91- 4127	.009	.02	1.4
91- 4128	.039	.03	1.1

GC 40Z

*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0626-RA2

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER P.O. GC 402**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-06-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
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3. KENNECOTT CANADA, C/O MIN-EN LABS.

**He hereby certify the following Assay of 24 CORE samples
submitted AUG-29-91 by ED YARROW.**

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91- 4129	.022	.04	1.6
91- 4130	.045	.03	2.0
91- 4131	.109	.08	2.5
91- 4132	.007	.02	1.5
91- 4133	.011	.01	1.5
91- 4134	.014	.02	1.9
91- 4135	.266	1.12	6.2
91- 4136	.318	.09	1.9
91- 4137	1.450	1.01	8.8
91- 4138	.618	.77	4.0
4139	.075	.10	1.4
91- 4140	.254	.40	3.4
91- 4141	.115	.27	1.8
91- 4142	.045	.08	1.4
91- 4143	.107	.05	1.2
91- 4144	.100	.02	1.5
91- 4145	.186	.06	2.2
91- 4146	.122	.04	2.3
91- 4147	.066	.08	1.6
91- 4148	.105	.05	2.1
91- 4149	.093	.01	2.1
91- 4150	.074	.04	1.8
91- 4151	.022	.02	1.7
91- 4152	.025	.01	2.5

GC 402

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FAX (604) 980-9621

SMITHERS LAB.:
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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0626-RA3

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER P.O. GC 402**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-06-91**

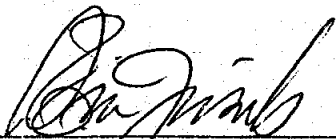
- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 8 CORE samples submitted AUG-29-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
91- 4153	.031	.01	2.3
91- 4154	.028	.02	1.9
91-4155	.025	.01	1.7
91- 4156	.024	.01	1.8
91- 4157	.036	.02	1.6
91- 4158	.039	.30	1.3
91- 4159	.085	.01	1.9
91- 4160	.046	.01	1.8

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FAX (604) 847-3005

Assay Certificate

1S-0662-RA1

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-11-91**

Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 samples submitted SEP-03-91 by E. YARROW.

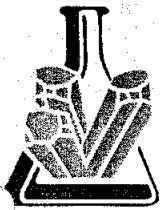
Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH #403 91-4161	.052	.02	2.2
DDH #403 91-4162	.097	.04	2.4
DDH #403 91-4163	.212	.09	3.8
DDH #403 91-4164	.059	.03	2.3
DDH #403 91-4165	.016	.01	1.8
DDH #403 91-4166	.028	.02	2.2
DDH #403 91-4167	.045	.02	2.4
DDH #403 91-4168	.029	.02	2.5
DDH #403 91-4169	.051	.08	2.9
DDH #403 91-4170	.033	.01	2.2
DDH #403 91-4171	.039	.02	2.5
DDH #403 91-4172	.035	.03	2.1
DDH #403 91-4173	.054	.02	2.7
DDH #403 91-4174	.033	.01	2.3
DDH #403 91-4175	.029	.02	2.4
DDH #403 91-4176	.042	.08	2.8
DDH #403 91-4177	.038	.04	2.6
DDH #403 91-4178	.017	.03	2.3
DDH #403 91-4179	.010	.02	2.0
DDH #403 91-4180	.018	.02	2.2
DDH #403 91-4181	.026	.06	2.3
DDH #403 91-4182	.016	.02	1.6
DDH #403 91-4183	.011	.05	1.9
DDH #403 91-4184	.029	.02	2.2

GC-403

*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0662-RA2

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-06-91**

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2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 CORE samples submitted SEP-03-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH #403 91-4185	.022	.02	3.6
DDH #403 91-4186	.025	.01	2.8
DDH #403 91-4187	.012	.05	2.5
DDH #403 91-4188	.023	.01	3.2
DDH #403 91-4189	.022	.01	3.0
DDH #403 91-4190	.017	.01	2.8
DDH #403 91-4191	.042	.01	3.5
DDH #403 91-4192	.033	.01	2.8
DDH #403 91-4193	.023	.01	3.1
DDH #403 91-4194	.013	.01	3.0
DDH #403 91-4195	.014	.01	2.6
DDH #403 91-4196	.039	.01	2.8
DDH #403 91-4197	.019	.04	2.9
DDH #403 91-4198	.015	.01	2.6
DDH #403 91-4199	.012	.01	2.3
DDH #403 91-4200	.024	.01	2.6
DDH #403 91-4201	.065	.01	2.5
DDH #403 91-4202	.088	.07	2.7
DDH #403 91-4203	.323	.02	3.4
DDH #403 91-4204	.120	.01	3.1
DDH #403 91-4205	.064	.01	2.5
DDH #403 91-4206	.049	.01	2.6
DDH #403 91-4207	.110	.01	2.4
DDH #403 91-4208	.228	.05	2.3

CC-403

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SMITHERS LAB.:
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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0662-RA3

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-11-91**

Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

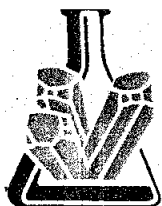
We hereby certify the following Assay of 24 CORE samples submitted SEP-03-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH #403 91-4209	.075	.03	1.9
DDH #403 91-4210	.496	.07	2.5
DDH #403 91-4211	.428	.05	3.2
DDH #403 91-4212	.520	.10	3.3
DDH #403 91-4213	.562	.15	3.8
DDH #403 91-4214	.587	.09	4.2
DDH #403 91-4215	.910	.13	4.9
DDH #403 91-4216	.552	.25	3.0
DDH #403 91-4217	.608	.27	4.6
DDH #403 91-4218	.197	.09	2.8
#403 91-4219	.177	.01	2.7
DDH #403 91-4220	.199	.01	2.4
DDH #403 91-4221	.343	.17	4.5
DDH #403 91-4222	.850	.94	6.0
DDH #403 91-4223	.668	.34	4.8
DDH #403 91-4224	.845	.62	5.3
DDH #403 91-4225	.321	.20	3.1
DDH #403 91-4226	.571	.59	4.6
DDH #403 91-4227	.496	.41	4.9
DDH #403 91-4228	.400	.32	3.7
DDH #403 91-4229	.019	.07	0.6
DDH #403 91-4230	.116	.10	2.5
DDH #403 91-4231	.318	.21	5.3
DDH #403 91-4232	.085	.03	1.5

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0662-RA4

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-11-91**

Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

**We hereby certify the following Assay of 24 CORE samples
submitted SEP-03-91 by E. YARROW.**

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH #403 91-4233	.029	.01	2.0
DDH #403 91-4234	.065	.01	1.9
DDH #403 91-4235	.059	.01	1.3
DDH #403 91-4236	.066	.03	1.0
DDH #403 91-4237	.050	.30	1.0
DDH #403 91-4238	.102	.10	1.6
DDH #403 91-4239	.065	.03	1.0
DDH #403 91-4240	.053	.01	0.9
DDH #403 91-4241	.064	.01	1.3
DDH #403 91-4242	.081	.08	1.4
DDH #403 91-4243	.074	.07	1.2
DDH #403 91-4244	.050	.03	1.1
DDH #403 91-4245	.058	.01	0.9
DDH #403 91-4246	.060	.02	1.0
DDH #403 91-4247	.344	.25	3.1
DDH #403 91-4248	.032	.02	1.7
DDH #403 91-4249	.508	.10	5.0
DDH #403 91-4250	.125	.06	1.2
DDH #403 91-4251	.072	.10	1.1
DDH #403 91-4252	.116	.01	1.8
DDH #403 91-4253	.107	.05	1.7
DDH #403 91-4254	.227	.10	2.5
DDH #403 91-4255	.795	.06	1.5
DDH #403 91-4256	1.830	.11	1.8

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TELEPHONE (604) 847-3004
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Assay Certificate

1S-0662-RA5

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-11-91**

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2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 12 CORE samples
submitted SEP-03-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH #403 91-4257	.108	.02	1.5
DDH #403 91-4258	.077	.07	1.3
DDH #403 91-4259	.168	.08	1.7
DDH #403 91-4260	.130	.01	2.3
DDH #403 91-4261	.310	.02	3.1
DDH #403 91-4262	.462	.10	2.0
DDH #403 91-4263	.198	.04	1.8
DDH #403 91-4264	.287	.10	1.8
DDH #403 91-4265	.116	.02	0.9
DDH #403 91-4266	.100	.01	1.1
#403 91-4267	.146	.01	2.0
#403 91-4268	.108	.01	2.2

*AU - 1 ASSAY TON.

Certified by

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0675-RA1

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

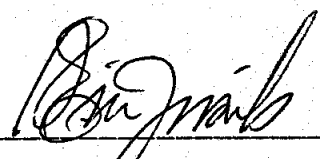
Date: **SEP-13-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
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3. KENNECOTT CANADA, C/O MIN-EN LABS.

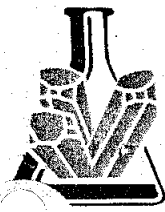
We hereby certify the following Assay of 24 CORE samples submitted SEP-04-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 405 91-5016	.117	.02	1.6
DDH 405 91-5017	.006	.01	0.3
DDH 405 91-5018	.018	.01	1.5
DDH 405 91-5019	.014	.02	0.5
DDH 405 91-5020	.012	.01	0.9
DDH 405 91-5021	.013	.01	0.7
DDH 405 91-5022	.011	.01	1.2
DDH 405 91-5023	.035	.02	0.7
DDH 405 91-5024	.070	.02	0.8
DDH 405 91-5025	.011	.01	1.0
DDH 405 91-5026	.029	.02	1.6
DDH 405 91-5027	.020	.01	1.1
DDH 405 91-5028	.033	.01	0.9
DDH 405 91-5029	.016	.01	0.9
DDH 405 91-5030	.010	.01	0.6
DDH 405 91-5031	.012	.01	1.2
DDH 405 91-5032	.012	.02	0.8
DDH 405 91-5033	.018	.01	1.1
DDH 405 91-5034	.010	.01	0.8
DDH 405 91-5035	.015	.01	0.9
DDH 405 91-5036	.019	.01	1.1
DDH 405 91-5037	.012	.01	1.4
DDH 405 91-5038	.007	.02	1.2
DDH 405 91-5039	.071	.05	0.9

*AU - 1 ASSAY TON.

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SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0675-RA2

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

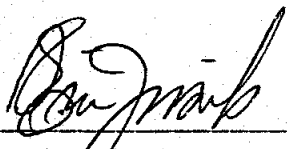
Date: **SEP-13-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 2 CORE samples
submitted SEP-04-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 405 91-5040	.068	.06	1.3
DDH 405 91-5041	.058	.02	1.0

*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0706-RA1

Company: **KENNECOTT CANADA INC.**
Project: **SSTIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-14-91**

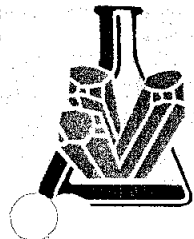
- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 14 CORE samples submitted SEP-06-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC405 915001	.013	.01	2.0
GC405 915002	.004	.03	2.0
GC405 915003	.037	.03	2.1
GC405 915004	.108	.08	1.9
GC405 915005	.051	.02	2.6
GC405 915006	.016	.02	2.0
GC405 915007	.031	.03	2.1
GC405 915008	.003	.01	.6
GC405 915009	.001	.01	.4
GC405 915010	.001	.01	.5
GC405 915011	.001	.01	.6
GC405 915012	.001	.01	.5
GC405 915013	.006	.02	1.8
GC405 915014	.160	.07	2.4

*AU = 1 ASSAY TON.

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SMITHERS LAB.:
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SMITHERS, B.C. CANADA V0J 2N0
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FAX (604) 847-3005

Assay Certificate

1S-0729-RA1

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-16-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 6 CORE samples
submitted SEP-09-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 405 91-5042	.010	.02	25.8
GC 405 91-5043	.058	.02	2.0
GC 405 91-5044	.016	.01	1.9
GC 405 91-5045	.011	1.01	2.2
GC 405 91-5046	.012	.01	1.8
GC 405 91-5047	.114	.03	2.3

*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:

3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0747-RA1

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-13-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

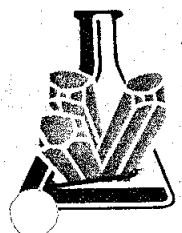
**We hereby certify the following Assay of 3 CORE samples
submitted SEP-10-91 by E. YARROW.**

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 409 91 5111	.031	.16	2.0
GC 409 91 5112	.028	.02	1.0
GC 409 91 5113	.030	.04	1.3

*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0769-RA1

Company: **KENNECOTT CANADA INC.**
Project: **GALORE CREEK**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-19-91**
Copy 1. **KENNECOTT CANADA, VANCOUVER, B.C.**
2. **KENNECOTT CANADA, C/O SMITHERS EXP.**
3. **KENNECOTT CANADA, C/O MIN-EN LABS.**

We hereby certify the following Assay of 24 ROCK samples submitted SEP-12-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 405 91-5049	.151	.19	1.6
GC 405 91-5050	.042	.03	1.5
GC 405 91-5051	.030	.05	1.5
GC 405 91-5052	.017	.01	1.3
GC 405 91-5053	.007	.01	1.2
GC 405 91-5054	.025	.04	1.8
GC 405 91-5055	.030	.02	1.0
GC 405 91-5056	.031	.01	1.3
GC 405 91-5057	.070	.01	1.2
GC 405 91-5058	.040	.01	0.9
GC 405 91-5059	.048	.01	1.1
GC 405 91-5060	.025	.01	1.4
GC 405 91-5061	.025	.16	2.0
GC 405 91-5062	.007	.01	1.4
GC 405 91-5063	.001	.01	0.5
GC 405 91-5064	.001	.01	0.8
GC 405 91-5065	.002	.01	0.6
GC 405 91-5066	.086	.01	0.6
GC 405 91-5067	.013	.01	0.4
GC 405 91-5068	.006	.01	0.8
GC 405 91-5069	.016	.01	0.6
GC 405 91-5070	.014	.01	0.9
GC 405 91-5071	.017	.01	0.8
GC 405 91-5072	.006	.01	1.0

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*AU - 1 ASSAY TON.

Certified by *[Signature]*

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SMITHERS LAB.:
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SMITHERS, B.C. CANADA V0J 2N0
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FAX (604) 847-3005

Assay Certificate

1S-0769-RA2

Company: **KENNECOTT CANADA INC.**
Project: GALDRE CREEK
Attn: D. JOHNSON/E. YARROW

Date: SEP-19-91

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 17 ROCK samples submitted SEP-12-91 by ED YARROW.

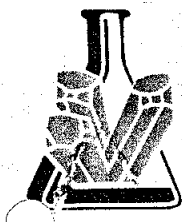
Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 405 91-5073	.007	.01	1.1
GC 405 91-5074	.007	.01	0.9
GC 405 91-5075	.006	.01	0.7
GC 405 91-5076	.029	.01	0.4
GC 405 91-5077	.008	.01	0.6
GC 405 91-5078	.009	.01	0.6
GC 405 91-5079	.007	.01	0.5
GC 405 91-5080	.011	.01	0.5
GC 405 91-5081	.013	.02	1.0
GC 405 91-5082	.009	.01	0.4
GC 405 91-5083	.026	.02	0.7
GC 405 91-5084	.037	.01	1.0
GC 405 91-5085	.010	.01	0.5
GC 405 91-5086	.016	.01	0.6
GC 405 91-5087	.053	.01	0.8
GC 405 91-5088	.006	.01	0.4
GC 405 91-5089	.009	.01	0.4

*entered
in
log.*

*AU - 1 ASSAY TON.

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SMITHERS LAB.:
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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0772-RA1

Company: **KENNECOTT CANADA INC.**
Project: **GALDRE CREEK**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-19-91**
Copy 1. **KENNECOTT CANADA, VANCOUVER, B.C.**
2. **KENNECOTT CANADA, C/O SMITHERS EXP.**
3. **KENNECOTT CANADA, C/O MIN-EN LABS.**

We hereby certify the following Assay of 24 ROCK samples submitted SEP-13-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 410 91-4487	.018	.01	1.4
DDH 410 91-4488	.038	.01	1.1
DDH 410 91-4489	.020	.01	1.5
DDH 410 91-4490	.019	.01	1.5
DDH 410 91-4491	.059	.02	1.7
DDH 410 91-4492	.029	.03	1.6
DDH 410 91-4493	.015	.01	1.4
DDH 410 91-4494	.033	.01	1.2
DDH 410 91-4495	.025	.01	1.1
DDH 410 91-4502	.013	.01	1.3
DDH 410 91-4503	.024	.01	1.3
DDH 410 91-4504	.045	.01	1.1
DDH 410 91-4505	.042	.01	1.4
DDH 410 91-4506	.051	.03	1.2
DDH 410 91-4507	.016	.01	1.1
DDH 410 91-4511	.001	.01	0.1
DDH 410 91-4512	.001	.01	0.1
DDH 410 91-4513	.038	.02	0.6
DDH 410 91-4514	.026	.01	0.8
DDH 410 91-4515	.086	.06	1.4
DDH 410 91-4516	.068	.05	1.5
DDH 410 91-4517	.520	.14	2.7
DDH 410 91-4518	.529	.17	4.3
DDH 410 91-4523	.142	.11	1.8

Entered

*AU - 1 ASSAY TON.

Certified by *Benjamin*

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FAX (604) 980-9621

SMITHERS LAB.:
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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0772-RA2

Company: **KENNECOTT CANADA INC.**
Project: GALORE CREEK
Attn: D. JOHNSON/E. YARROW

Date: SEP-19-91
Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 22 ROCK samples submitted SEP-13-91 by ED YARROW.

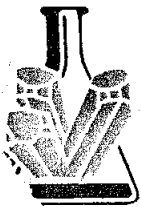
Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 410 91-4524	.108	.07	0.4
DDH 410 91-4525	.119	.08	0.9
DDH 410 91-4526	.208	.14	2.3
DDH 410 91-4527	.094	.11	1.7
DDH 410 91-4528	.176	.03	1.5
DDH 410 91-4529	.067	.03	1.4
DDH 410 91-4539	.089	.04	1.3
DDH 410 91-4540	.018	.01	0.3
DDH 410 91-4541	.019	.02	0.7
DDH 410 91-4544	.167	.07	2.4
DDH 410 91-4545	.187	.10	2.3
DDH 410 91-4546	.196	.13	3.3
DDH 410 91-4547	.450	.12	4.0
DDH 410 91-4548	.027	.01	1.0
DDH 410 91-4549	.200	.20	2.7
DDH 410 91-4550	.158	.11	2.7
DDH 410 91-4551	.249	.12	3.1
DDH 410 91-4552	.268	.13	3.1
DDH 410 91-4553	.216	.22	2.5
DDH 410 91-4554	.118	.05	2.9
DDH 410 91-4555	.082	.01	1.7
DDH 410 91-4556	.248	.10	2.5

Entered

*AU - 1 ASSAY TON.

Certified by *[Signature]*

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0772-RA3

Company: **KENNECOTT CANADA INC.**
Project: **GALORE CREEK**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-19-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 8 ROCK samples
submitted SEP-13-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 410 91-4557	.336	.22	3.2
DDH 410 91-4558	.402	.24	3.6
DDH 410 91-4559	.076	.02	1.8
DDH 410 91-4560	.164	.09	2.7
DDH 410 91-4561	.246	.14	3.1
DDH 410 91-5155	.060	.09	2.8
DDH 410 91-5156	.132	.12	1.8
DDH 410 91-5157	.288	.41	4.1

*AU - 1 ASSAY TON.

Certified by _____

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SMITHERS LAB.:
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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0773-RA1

Company: **KENNECOTT CANADA INC.**
Project: **GALORE CREEK**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-21-91**
Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

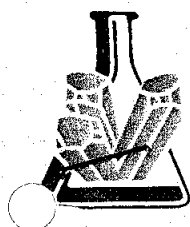
We hereby certify the following Assay of 24 DRILL CORE samples submitted SEP-12-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 409 91-5090	.047	.01	1.0
DDH 409 91-5091	.033	.01	.5
DDH 409 91-5092	.037	.02	1.1
DDH 409 91-5093	.016	.01	.6
DDH 409 91-5094	.015	.04	1.2
DDH 409 91-5095	.073	.02	.8
DDH 409 91-5096	.192	.15	2.7
DDH 409 91-5097	.038	.01	.9
DDH 409 91-5098	.024	.03	.8
DDH 409 91-5099	.025	.01	.8
DDH 409 91-5100	.019	.01	.9
DDH 409 91-5101	.009	.01	1.4
DDH 409 91-5102	.016	.01	.2
DDH 409 91-5103	.023	.03	.8
DDH 409 91-5104	.038	.10	1.3
DDH 409 91-5105	.030	.01	.9
DDH 409 91-5106	.032	.01	.4
DDH 409 91-5107	.033	.01	.9
DDH 409 91-5108	.062	.08	1.1
DDH 409 91-5109	.070	.03	.6
DDH 409 91-5110	.041	.05	.6
DDH 409 91-5114	.049	.11	1.0
DDH 409 91-5115	.011	.01	.3
DDH 409 91-5118	.018	.01	1.3

entered in log.

*AU = 1 ASSAY TON.

Certified by *Ed Yarrow*



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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0773-RA2

Company: **KENNECOTT CANADA**
Project: **GALORE CREEK**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-20-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 CORE samples submitted SEP-12-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 409 91-5119	.013	.01	1.3
DDH 409 91-5120	.014	.02	1.3
DDH 409 91-5121	.007	.01	1.4
DDH 409 91-5122	.008	.01	0.9
DDH 409 91-5123	.020	.02	0.2
DDH 409 91-5124	.016	.03	0.6
DDH 409 91-5125	.040	.02	1.6
DDH 409 91-5126	.024	.02	1.3
DDH 409 91-5127	.039	.07	1.6
DDH 409 91-5128	.023	.02	1.3
409 91-5129	.044	.01	2.2
DDH 409 91-5130	.037	.08	2.1
DDH 409 91-5131	.025	.09	0.7
DDH 409 91-5132	.091	.22	2.3
DDH 409 91-5133	.039	.03	2.2
DDH 409 91-5134	.050	.05	1.6
DDH 409 91-5135	.044	.02	1.9
DDH 409 91-5136	.177	.20	1.5
DDH 409 91-5137	.058	.02	1.0
DDH 409 91-5138	.068	.11	1.7
DDH 409 91-5139	.078	.10	1.4
DDH 409 91-5140	.020	.08	1.7
DDH 409 91-5141	.052	.03	2.2
DDH 409 91-5142	.038	.04	2.0

Entered in log

*AU - 1 ASSAY TON.

Certified by

[Signature]

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0773-RA3

Company: **KENNECOTT CANADA**
Project: **GALORE CREEK**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-20-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

He hereby certify the following Assay of 12 CORE samples
submitted SEP-12-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 409 91-5143	.051	.11	0.8
DDH 409 91-5144	.024	.03	1.4
DDH 409 91-5145	.018	.02	0.6
DDH 409 91-5146	.023	.01	0.8
DDH 409 91-5147	.010	.01	0.6
DDH 409 91-5148	.048	.02	0.7
DDH 409 91-5149	.027	.01	0.7
DDH 409 91-5150	.081	.02	1.0
DDH 409 91-5151	.031	.02	1.4
DDH 409 91-5152	.064	.03	1.5
DDH 409 91-5153	.086	.10	0.8
DDH 409 91-5154	.045	.08	1.1

*Entered
in
log*

*AU - 1 ASSAY TON.

Certified by

[Signature]

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TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

SMITHERS LAB.:

3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0788-RA1

Company: **KENNECOTT CANADA**
Project: GALORE CREEK
Attn: D. JOHNSON/E. YARROW

Date: SEP-21-91

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 14 CORE samples submitted SEP-16-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 409 91-5167	.134	.08	1.6
GC 409 91-5168	.086	.17	1.4
GC 409 91-5169	.241	.49	4.1
GC 409 91-5170	.049	.01	0.5
GC 409 91-5171	.006	.01	0.7
GC 409 91-5172	.012	.01	0.2
GC 409 91-5173	.123	.02	1.2
GC 409 91-5174	.015	.01	0.1
GC 409 91-5175	.189	.91	2.5
GC 409 91-5176	.184	.67	2.0
GC 409 91-5177	.227	.54	2.7
GC 409 91-5178	.052	.01	1.6
GC 409 91-5179	.027	.02	1.2
GC 409 91-5180	.017	.01	0.7

entered in log.

*AU = 1 ASSAY TON.

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TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

SMITHERS LAB.:
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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate 1S-0789-RA1

Company: **KENNECOTT CANADA INC.**
Project: **GALDRE CREEK**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-21-91**
Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 CORE samples submitted SEP-16-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 410 91-4496	.030	.01	1.6
GC 410 91-4497	.036	.05	1.6
GC 410 91-4498	.019	.03	1.2
GC 410 91-4499	.017	.01	1.3
GC 410 91-4500	.016	.01	1.4
GC 410 91-4501	.016	.02	1.3
GC 410 91-4508	.043	.01	1.8
GC 410 91-4509	.024	.02	1.5
GC 410 91-4510	.027	.02	.9
GC 410 91-4519	.545	.18	3.2
GC 410 91-4520	.993	.39	6.0
GC 410 91-4521	.624	.28	3.5
GC 410 91-4522	.730	.28	6.2
GC 410 91-4530	.043	.02	1.5
GC 410 91-4531	.106	.09	1.7
GC 410 91-4532	.101	.08	1.6
GC 410 91-4533	.057	.02	1.4
GC 410 91-4534	.078	.02	1.4
GC 410 91-4535	.054	.01	1.2
GC 410 91-4536	.039	.01	1.5
GC 410 91-4537	.083	.02	1.6
GC 410 91-4538	.103	.02	2.3
GC 410 91-4542	.110	.09	1.7
GC 410 91-4543	.117	.02	1.4

Plotted on log.

*AU = 1 ASSAY TON.

Certified by *[Signature]*



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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0789-RA2

Company: **KENNECOTT CANADA INC.**
Project: GALORE CREEK
Attn: D. JOHNSON/E. YARROW

Date: SEP-20-91

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 11 ROCK samples submitted SEP-16-91 by ED YARROW.

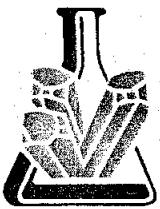
Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 410 91-4562	.142	.02	1.2
GC 410 91-4563	.087	.01	1.1
GC 410 91-5158	.096	.03	1.9
GC 410 91-5159	.091	.02	2.1
GC 410 91-5160	.076	.02	1.5
GC 410 91-5161	.057	.01	2.0
GC 410 91-5162	.025	.01	1.7
GC 410 91-5163	.055	.02	1.4
GC 410 91-5164	.108	.16	1.3
GC 410 91-5165	.045	.01	0.7
GC 410 91-5166	.053	.01	1.5

*Plotted
cc 409A*

*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0809-RA1

Company: **KENNECOTT CANADA**
Project: **GALDRE CREEK**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-26-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 6 CORE samples
submitted SEP-19-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 398 91-4564	.385	.01	5.7
DDH 398 91-4565	.376	.12	2.2
DDH 398 91-4566	.003	.01	2.1
DDH 398 91-4567	.003	.01	1.6
DDH 398 91-4568	.004	.03	2.0
DDH 398 91-4569	.007	.01	0.6

*AU - 1 ASSAY TON.

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 FAX (604) 980-9621

SMITHERS LAB.:
 3178 TATLOW ROAD
 SMITHERS, B.C. CANADA V0J 2N0
 TELEPHONE (604) 847-3004
 FAX (604) 847-3005

Assay Certificate

1S-0811-RA1

Company: **KENNECOTT CANADA**
 Project: **GALORE CREEK**
 Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-26-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
- 2. KENNECOTT CANADA, C/O SMITHERS EXP.
- 3. KENNECOTT CANADA, C/O MIN-EN LABS.

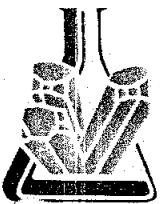
We hereby certify the following Assay of 2 CORE samples submitted SEP-19-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne	
DDH 409 91-5116	.026	.01	1.6	} entered in log.
DDH 409 91-5117	.015	.02	1.5	

*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0821-RA1

Company: **KENNECOTT CANADA**
Project: **GALORE CREEK**
Attn: **D. JOHNSON/E. YARROW**

Date: **SEP-28-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 20 CORE samples submitted SEP-21-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 414 91-4619	.088	.01	2.1
DDH 414 91-4620	.085	.01	1.3
DDH 414 91-4621	.050	.01	2.6
DDH 414 91-4622	.029	.02	3.1
DDH 414 91-4623	.055	.03	3.3
DDH 414 91-4624	.083	.06	2.6
DDH 414 91-4625	.088	.03	2.0
DDH 414 91-4626	.036	.01	1.4
DDH 414 91-4627	.413	.64	1.9
DDH 414 91-4628	.156	.11	1.1
DDH 414 91-4629	.100	.07	1.2
DDH 414 91-4630	.274	.08	2.6
DDH 414 91-4631	.207	.03	2.0
DDH 414 91-4632	.245	.04	1.9
DDH 414 91-4633	.206	.03	1.9
DDH 414 91-4634	.047	.01	1.6
DDH 414 91-4635	.090	.01	1.8
DDH 414 91-4636	.088	.14	2.0
DDH 414 91-4637	.399	.03	1.9
DDH 414 91-4638	1.056	.01	3.2

entered

*AU = 1 ASSAY TON.

Certified by _____

Ed Yarrow



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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0855-RA1

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-02-91**
Copy 1. **KENNECOTT CANADA, VANCOUVER, B.C.**
2. **KENNECOTT CANADA, C/O SMITHERS EXP.**
3. **KENNECOTT CANADA, C/O MIN-EN LABS.**

We hereby certify the following Assay of 19 ROCK samples submitted SEP-26-91 by ED YARROW.

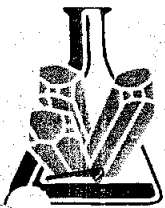
Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 414 91-4639	.213	.02	1.7
DDH 414 91-4640	.270	.05	1.8
DDH 414 91-4641	.205	.07	1.9
DDH 414 91-4642	.113	.01	2.3
DDH 414 91-4643	.354	.02	2.1
DDH 414 91-4644	.509	.01	2.3
DDH 414 91-4645	.837	.20	3.6
DDH 414 91-4646	.385	.02	4.1
DDH 414 91-4647	.560	.02	2.7
DDH 414 91-4648	.404	.02	2.1
DDH 414 91-4650	.324	.11	2.1
DDH 414 91-4651	.229	.12	2.1
DDH 414 91-4653	.553	.32	1.7
DDH 414 91-4654	.114	.12	1.2
DDH 414 91-4655	.194	.01	1.3
DDH 414 91-4656	.470	.01	3.1
DDH 414 91-4657	.680	.11	4.1
DDH 414 91-4658	.223	.09	1.7
DDH 414 91-4659	.156	.01	1.2

entered

*AU - 1 ASSAY TON.

Certified by *[Signature]*

MIN-EN LABORATORIES



Assay Certificate

1S-0858-RA1

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-04-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 ROCK samples
submitted SEP-26-91 by ED YARROW.

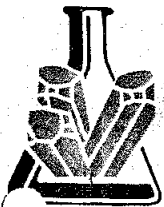
Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 417 91-4660	.063	.01	0.9
DDH 417 91-4661	.075	.02	0.9
DDH 417 91-4662	.069	.02	0.7
DDH 417 91-4663	.039	.01	0.6
DDH 417 91-4664	.019	.01	1.0
DDH 417 91-4665	.065	.10	2.0
DDH 417 91-4666	.094	.13	2.1
DDH 417 91-4667	.043	.30	1.4
DDH 417 91-4668	.080	.17	2.3
DDH 417 91-4669	.355	.20	2.4
DDH 417 91-4670	.329	.11	1.2
DDH 417 91-4671	1.890	.08	2.3
DDH 417 91-4672	1.010	.13	1.9
DDH 417 91-4673	.412	.12	2.1
DDH 417 91-4674	.255	.10	2.2
DDH 417 91-4675	.033	.02	1.0
DDH 417 91-4676	.026	.02	1.8
DDH 417 91-4677	.038	.03	1.4
DDH 417 91-4678	.044	.02	1.1
DDH 417 91-4679	.063	.01	1.4
DDH 417 91-4680	.072	.04	2.7
DDH 417 91-4681	.050	.02	1.3
DDH 417 91-4682	.060	.02	1.5
DDH 417 91-4683	.053	.01	1.8

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*AU - 1 ASSAY TON.

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TELEPHONE (604) 980-5814 OR (604) 988-4524
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SMITHERS LAB.:
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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0858-RA2

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-10-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

**He hereby certify the following Assay of 24 CORE samples
submitted SEP-26-91 by ED YARROW.**

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 417 91-4684	.118	.13	1.8
DDH 417 91-4685	.155	.07	1.6
DDH 417 91-4686	.071	.08	0.8
DDH 417 91-4687	.102	.09	2.3
DDH 417 91-4688	.148	.10	2.0
DDH 417 91-4689	.140	.13	2.4
DDH 417 91-4690	.121	.05	1.3
DDH 417 91-4691	.068	.01	0.6
DDH 417 91-4692	.213	.14	1.7
DDH 417 91-4693	.061	.02	1.1
417 91-4694	.030	.01	0.8
DDH 417 91-4695	.019	.01	0.8
DDH 417 91-4696	.088	.02	1.3
DDH 417 91-4697	.037	.02	0.9
DDH 417 91-4698	.027	.01	1.2
DDH 417 91-4699	.050	.46	1.8
DDH 417 91-4700	.017	.08	1.0
DDH 417 91-4701	.084	.04	1.2
DDH 417 91-4702	.038	.03	1.4
DDH 417 91-4703	.040	.10	1.0
DDH 417 91-4704	.177	.09	1.6
DDH 417 91-4705	.190	.12	1.6
DDH 417 91-4706	.128	.06	0.7
DDH 417 91-4707	.263	.11	2.4

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*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

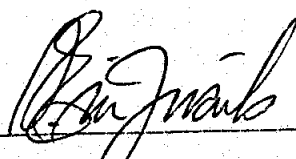
1S-0858-XA1

Company: **KENNECOTT COPPER**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

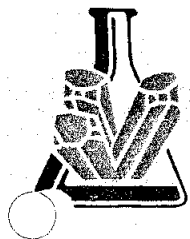
Date: **OCT-17-91**
Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 6 PULP samples submitted OCT-14-91 by D. JOHNSON.

Sample Number	CU-OXIDE	CUNATIVE
	AS CU %	AS CU %
DDH 417 91-4669	.107	.001
DDH 417 91-4670	.199	.002
DDH 417 91-4671	1.100	.040
DDH 417 91-4672	.625	.005
DDH 417 91-4673	.210	.004
DDH 417 91-4674	.098	.001

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate 1S-0858-RA3

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

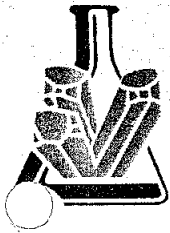
Date: **OCT-10-91**
Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 14 CORE samples submitted SEP-26-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 417 91-4708	.179	.24	1.4
DDH 417 91-4709	.197	.10	2.4
DDH 417 91-4710	.158	.08	2.5
DDH 417 91-4711	.159	.07	2.4
DDH 417 91-4712	.212	.15	2.5
DDH 417 91-4713	.166	.15	2.4
DDH 417 91-4714	.060	.33	1.6
DDH 417 91-4715	.024	.10	1.0
DDH 417 91-4716	.059	.11	1.3
DDH 417 91-4717	.070	.10	1.0
DDH 417 91-4718	.071	.15	0.5
DDH 417 91-4719	.058	.05	0.5
DDH 417 91-4720	.103	.03	1.0
DDH 417 91-4721	.064	.02	0.6

*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0860-RA1

Company: **KENNECOTT CANADA INC.**
Project: GALDRE CREEK
Attn: D. JOHNSON/E. YARROW

Date: OCT-05-91

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 7 CORE samples
submitted SEP-26-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 419 91-4722	.124	.08	3.1
DDH 419 91-4723	.058	.02	2.2
DDH 419 91-4724	.141	.02	2.0
DDH 419 91-4725	.061	.02	1.8
DDH 419 91-4726	.141	.03	2.1
DDH 419 91-4727	.102	.02	1.8
DDH 419 91-4728	.071	.01	1.9

} entered

*11 = 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0861-RA1

Company: **KENNECOTT CANADA INC.**
Project: **GALORE CREEK**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-05-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

**We hereby certify the following Assay of 3 CORE samples
submitted SEP-26-91 by ED YARROW.**

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 420 91-5353	.013	.01	1.0
DDH 420 91-5354	.015	.02	1.2
DDH 420 91-5355	.021	.01	1.1

Entered.

*AU = 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0872-RA1

Company: **KENNECOTT CANADA**
Project: GALDRE CREEK
Attn: D. JOHNSON/E. YARROW

Date: OCT-07-91

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 16 CORE samples submitted SEP-27-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 419 91-4742	.021	.01	1.1
DDH 419 91-4743	.022	.01	1.2
DDH 419 91-4744	.058	.01	1.3
DDH 419 91-4745	.183	.15	2.5
DDH 419 91-4746	.112	.03	2.1
DDH 419 91-4747	.091	.07	3.2
DDH 419 91-4748	.169	.03	3.1
DDH 419 91-4749	.146	.27	3.0
DDH 419 91-4750	.068	.16	3.2
DDH 419 91-4751	.075	.26	3.4
419 91-4752	.172	.21	4.0
DDH 419 91-4753	.192	.34	3.5
DDH 419 91-4754	.123	.12	2.8
DDH 419 91-4755	1.640	9.18	8.1
DDH 419 91-4756	3.875	5.30	14.5
DDH 419 91-4757	2.290	10.88	20.1

intered

*AU - 1 ASSAY TON.

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[Handwritten Signature]

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0873-RA1

Company: **KENNECOTT CANADA**
Project: GALORE CREEK
Attn: D. JOHNSON/E. YARROW

Date: OCT-07-91

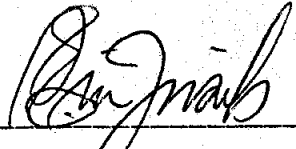
- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 CORE samples submitted SEP-27-91 by E. YARROW.

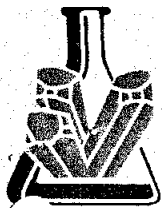
Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 420 91-5356	.036	.03	1.0
DDH 420 91-5357	.008	.01	0.9
DDH 420 91-5358	.018	.10	1.0
DDH 420 91-5359	.006	.01	1.1
DDH 420 91-5360	.025	.01	1.2
DDH 420 91-5361	.004	.01	0.8
DDH 420 91-5362	.001	.01	0.6
DDH 420 91-5363	.022	.01	1.1
DDH 420 91-5364	.041	.04	1.7
DDH 420 91-5365	.024	.01	0.6
420 91-5366	.018	.01	0.8
DDH 420 91-5367	.015	.01	1.0
DDH 420 91-5368	.021	.01	1.4
DDH 420 91-5369	.030	.02	0.9
DDH 420 91-5370	.028	.01	1.1
DDH 420 91-5371	.014	.02	0.7
DDH 420 91-5372	.016	.04	1.3
DDH 420 91-5373	.028	.01	1.1
DDH 420 91-5374	.025	.01	1.3
DDH 420 91-5375	.023	.01	1.1
DDH 420 91-5376	.006	.01	1.0
DDH 420 91-5377	.005	.02	1.1
DDH 420 91-5378	.001	.02	0.5
DDH 420 91-5379	.001	.02	0.6

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*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:

3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0873-RA2

Company: **KENNECOTT CANADA**
Project: GALDRE CREEK
Attn: D. JOHNSON/E. YARROW

Date: OCT-07-91

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

**He hereby certify the following Assay of 16 CORE samples
submitted SEP-27-91 by E. YARROW.**

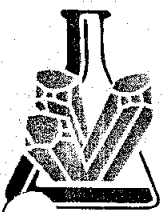
Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 420 91-5380	.001	.01	0.5
DDH 420 91-5381	.001	.01	0.4
DDH 420 91-5382	.006	.01	0.8
DDH 420 91-5383	.015	.02	0.5
DDH 420 91-5384	.006	.01	0.9
DDH 420 91-5385	.008	.02	0.8
DDH 420 91-5386	.125	.18	2.5
DDH 420 91-5387	.006	.02	0.5
DDH 420 91-5388	.034	.01	1.8
DDH 420 91-5389	.016	.01	1.3
420 91-5390	.002	.01	1.0
DDH 420 91-5391	.002	.01	0.6
DDH 420 91-5392	.012	.02	0.6
DDH 420 91-5393	.005	.02	0.7
DDH 420 91-5394	.001	.01	0.5
DDH 420 91-5395	.001	.01	0.7

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*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0876-RA1

Company: **KENNECOTT CANADA**
Project: **GALORE CREEK**
Attn: **D. JOHNSON/E. YARRW**

Date: **OCT-07-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 17 CORE samples submitted SEP-30-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 420 91-5396	.001	.01	0.5
DDH 420 91-5397	.014	.01	1.0
DDH 420 91-5398	.015	.01	1.0
DDH 420 91-5399	.046	.04	1.6
DDH 420 91-5400	.141	.14	3.3
DDH 420 91-5401	.036	.03	1.2
DDH 420 91-5402	.035	.03	0.9
DDH 420 91-5403	.024	.02	1.2
DDH 420 91-5404	.022	.01	1.2
DDH 420 91-5405	.017	.01	1.0
DDH 420 91-5406	.023	.01	0.7
DDH 420 91-5407	.022	.02	0.8
DDH 420 91-5408	.030	.01	1.2
DDH 420 91-5409	.024	.01	0.6
DDH 420 91-5410	.001	.01	0.4
DDH 420 91-5411	.001	.01	0.5
DDH 420 91-5412	.001	.01	0.4

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*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0877-RA1

Company: **KENNECOTT CANADA**
Project: GALORE CREEK
Attn: D. JOHNSON/E. YARROW

Date: OCT-07-91

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 CORE samples submitted SEP-30-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 419 91-4729	.095	.03	1.9
DDH 419 91-4730	.230	.27	2.5
DDH 419 91-4731	.106	.04	2.0
DDH 419 91-4732	.064	.02	1.9
DDH 419 91-4733	.040	.11	2.2
DDH 419 91-4734	.051	.16	2.9
DDH 419 91-4735	.056	.03	3.3
DDH 419 91-4736	.064	.12	2.4
DDH 419 91-4737	.056	.20	3.0
DDH 419 91-4738	.062	.11	2.5
419 91-4739	.046	.02	1.8
L... 419 91-4740	.008	.01	1.2
DDH 419 91-4741	.012	.11	1.6
DDH 419 91-4758	1.612	2.56	10.2
DDH 419 91-4759	2.390	2.88	19.6
DDH 419 91-4760	1.435	1.86	13.1
DDH 419 91-4761	.576	.52	4.2
DDH 419 91-4762	.177	.18	2.1
DDH 419 91-4763	.123	.10	3.0
DDH 419 91-4764	.205	.12	3.2
DDH 419 91-4765	.181	.09	3.2
DDH 419 91-4766	.177	.10	2.5
DDH 419 91-4767	.145	.09	2.2
DDH 419 91-4768	.140	.08	2.0

entered

*AU - 1 ASSAY TON.

Certified by _____

[Signature]

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FAX (604) 980-9621

SMITHERS LAB.:
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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0877-RA2

Company: **KENNECOTT CANADA**
Project: **GALORE CREEK**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-07-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

**We hereby certify the following Assay of 1 CORE samples
submitted SEP-30-91 by E. YARROW.**

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
DDH 419 91-4769	.110	.03	1.2

entered

*AU - 1 ASSAY TON.

Certified by _____

[Handwritten Signature]

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SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0891-RA1

Company: **KENNECOTT CANADA**
Project: **GALORE CREEK**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-10-91**
Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

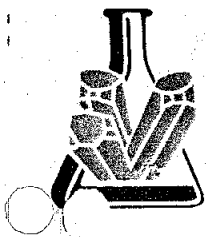
We hereby certify the following Assay of 16 CORE samples submitted OCT-02-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne	
GC 420 91-5425	.326	.88	3.3	
GC 420 91-5426	.165	.30	2.5	
GC 420 91-5427	.055	.11	1.8	
GC 420 91-5428	.039	.04	1.4	
GC 420 91-5429	.110	.12	1.7	
<hr/>				
GC 420 91-5430	.265	.64	1.8	
GC 420 91-5431	.322	.73	3.5	Entered in
GC 420 91-5438	.093	.21	2.1	
GC 420 91-5439	.065	.20	2.6	
GC 420 91-5440	.271	.17	3.3	
<hr/>				
420 91-5441	.037	.09	1.0	log
420 91-5442	.088	.10	1.6	
420 91-5443	.047	.07	1.6	
GC 420 91-5444	.029	.05	2.2	
GC 420 91-5445	.062	.02	1.4	
<hr/>				
GC 420 91-5446	.150	.19	1.8	

*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0936-RA1

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-21-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 ROCK samples submitted OCT-10-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 427 91-5450	.002	.01	1.6
GC 427 91-5451	.007	.01	1.3
GC 427 91-5452	.006	.03	1.7
GC 427 91-5453	.003	.01	1.8
GC 427 91-5454	.002	.01	0.8
GC 427 91-5455	.006	.01	2.0
GC 427 91-5456	.006	.01	2.1
GC 427 91-5457	.011	.05	1.6
GC 427 91-5458	.002	.01	1.5
GC 427 91-5459	.003	.01	1.6
GC 427 91-5460	.005	.01	2.2
GC 427 91-5461	.006	.02	2.0
GC 427 91-5462	.007	.01	1.9
GC 427 91-5463	.004	.02	1.7
GC 427 91-5464	.003	.02	1.5
GC 427 91-5465	.005	.01	1.8
GC 427 91-5466	.008	.03	2.2
GC 427 91-5467	.005	.02	2.0
GC 427 91-5468	.004	.03	1.7
GC 427 91-5469	.004	.01	1.8
GC 427 91-5470	.003	.01	1.6
GC 427 91-5471	.004	.02	1.3
GC 427 91-5472	.006	.03	1.7
GC 427 91-5473	.003	.04	1.4

ENTERED

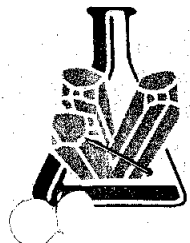
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*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0936-RA2

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-21-91**
Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 ROCK samples submitted OCT-10-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 427 91-5474	.003	.01	1.0
GC 427 91-5475	.002	.01	1.2
GC 427 91-5476	.005	.01	1.6
GC 427 91-5477	.002	.02	1.4
GC 427 91-5478	.002	.01	1.3
GC 427 91-5479	.003	.02	1.5
GC 427 91-5480	.001	.01	1.2
GC 427 91-5481	.002	.01	1.4
GC 427 91-5482	.006	.01	1.5
GC 427 91-5483	.003	.01	1.1
GC 427 91-5484	.004	.02	1.2
GC 427 91-5485	.005	.01	1.2
GC 427 91-5486	.006	.01	1.4
GC 427 91-5487	.010	.01	2.3
GC 427 91-5488	.011	.01	1.3
GC 427 91-5489	.007	.01	1.4
GC 427 91-5490	.005	.02	1.0
GC 427 91-5491	.003	.01	1.2
GC 427 91-5492	.010	.01	1.9
GC 427 91-5493	.015	.01	1.6
GC 427 91-5494	.005	.01	1.3
GC 427 91-5495	.002	.02	1.5
GC 427 91-5496	.006	.01	1.1
GC 427 91-5497	.006	.01	1.2

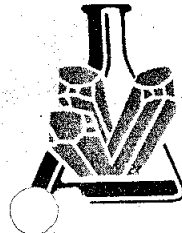
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*AU -1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0936-RA3

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-21-91**
Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 16 ROCK samples submitted OCT-10-91 by ED YARROW.

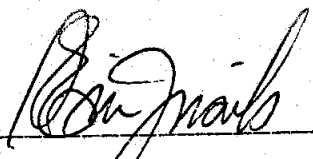
Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 427 91-5498	.011	.02	1.2
GC 427 91-5499	.008	.01	1.1
GC 427 91-5500	.005	.01	0.8
GC 427 91-5501	.121	.07	2.9
GC 427 91-5502	.024	.05	2.1
GC 427 91-5503	.006	.01	1.2
GC 427 91-5504	.003	.02	1.2
GC 427 91-5505	.003	.01	1.4
GC 427 91-5506	.003	.01	1.0
GC 427 91-5507	.005	.02	1.5
GC 427 91-5508	.003	.02	1.2
GC 427 91-5509	.004	.01	1.6
GC 427 91-5510	.002	.01	1.4
GC 427 91-5511	.004	.03	1.3
GC 427 91-5512	.003	.01	1.4
GC 427 91-5513	.003	.01	1.4

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0948-RA1

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-21-91**
Copy 1. **KENNECOTT CANADA, VANCOUVER, B.C.**
2. **KENNECOTT CANADA, C/O SMITHERS EXP.**
3. **KENNECOTT CANADA, C/O MIN-EN LABS.**

We hereby certify the following Assay of 1 ROCK samples
submitted OCT-15-91 by ED YARROW.

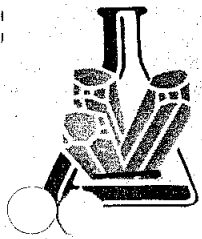
Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 427 91-5509	.002	.02	1.8

already assayed on 1S-0936-RA3

*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0956-RA1

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-21-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS

We hereby certify the following Assay of 24 CORE samples submitted OCT-16-91 by ED YARROW.

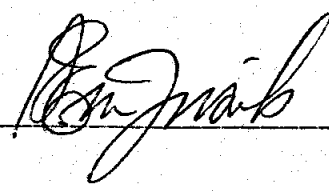
Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 432 91-9010	.004	.01	0.5
GC 432 91-9011	.065	.02	1.3
GC 432 91-9012	.117	.02	2.3
GC 432 91-9013	.113	.10	2.0
GC 432 91-9014	.024	.03	1.1
GC 432 91-9015	.077	.04	2.9
GC 432 91-9022	.036	.06	1.7
GC 432 91-9023	.029	.10	2.0
GC 432 91-9024	.151	.10	2.9
GC 432 91-9025	.055	.09	2.6
GC 432 91-9026	.050	.02	2.2
GC 432 91-9027	.035	.01	2.1
GC 432 91-9031	.136	.13	3.1
GC 432 91-9032	.102	.06	2.3
GC 432 91-9033	.091	.05	2.0
GC 432 91-9034	.108	.31	2.8
GC 432 91-9035	.032	.02	1.4
GC 432 91-9036	.024	.01	1.4
GC 432 91-9037	.015	.01	2.0
GC 432 91-9038	.013	.01	.7
GC 432 91-9039	.088	.03	2.1
GC 432 91-9043	.006	.02	1.3
GC 432 91-9044	.010	.01	1.2
GC 432 91-9045	.017	.03	1.5

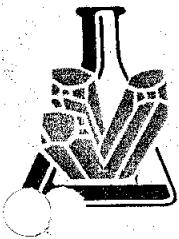
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*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0956-RA2

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-21-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 4 ROCK samples
submitted OCT-16-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 432 91-9046	.041	.02	2.3
GC 432 91-9047	.052	.03	2.4
GC 432 91-9048	.020	.02	1.6
GC 432 91-9049	.007	.04	0.8

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SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0957-RA1

Company: **KENNECOTT CANADA INC.**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-22-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 ROCK samples submitted OCT-15-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 433 91-5536	.017	.07	1.0
GC 433 91-5537	.151	.44	2.3
GC 433 91-5538	.853	1.16	6.6
GC 433 91-5539	.196	.48	2.7
GC 433 91-5540	.126	.17	1.9
GC 433 91-5541	.078	.03	1.4
GC 433 91-5542	.019	.07	1.7
GC 433 91-5543	.021	.01	1.2
GC 433 91-5544	.023	.03	1.1
GC 433 91-5545	.031	.10	1.2
GC 433 91-5546	.040	.07	1.1
GC 433 91-5547	.024	.02	1.1
GC 433 91-5548	.027	.69	2.5
GC 433 91-5549	.035	.02	0.8
GC 433 91-5550	.037	.05	1.0
GC 433 91-5551	.016	.01	0.6
GC 433 91-5552	.031	.01	1.1
GC 433 91-5553	.070	.17	1.7
GC 433 91-5554	.053	.24	1.5
GC 433 91-5555	.006	.03	1.8
GC 433 91-5556	.098	.03	0.7
GC 433 91-5557	.051	.07	1.6
GC 433 91-5558	.021	.07	0.6
GC 433 91-5559	.055	.17	0.5

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SMITHERS LAB.:
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 TELEPHONE (604) 847-3004
 FAX (604) 847-3005

Assay Certificate

1S-0957-RA2

Company: **KENNECOTT CANADA INC.**
 Project: **STIKINE COPPER**
 Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-22-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
 2. KENNECOTT CANADA, C/O SMITHERS EXP.
 3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 6 ROCK samples submitted OCT-15-91 by ED YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 433 91-5560	.055	.12	1.3
GC 433 91-5561	.068	.07	0.8
GC 433 91-5562	.039	.01	1.1
GC 433 91-5563	.044	.09	1.3
GC 433 91-5564	.073	.07	0.9
GC 433 91-5565	.004	.01	1.3

*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0964-RA1

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-28-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 4 CORE samples submitted OCT-18-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne	
GC 433 91-5580	.040	.48	0.9	LOGGED ↓
GC 433 91-5610	.026	.05	0.9	
GC 433 91-5611	.115	.06	1.6	
GC 433 91-5612	.093	.03	1.1	

*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0965-RA1

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-28-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 8 CORE samples submitted OCT-18-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 434 91-9070	.127	.08	1.1
GC 434 91-9071	.186	.02	1.2
GC 434 91-9072	.115	.05	1.0
GC 434 91-9088	.027	.06	0.9
GC 434 91-9089	.112	1.54*	23.8
GC 434 91-9096	.103	.23	1.7
GC 434 91-9097	.067	.08	1.5
GC 434 91-9098	.060	.08	1.5

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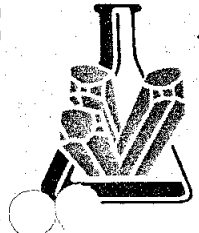
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*AU - 1 ASSAY TON.

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SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0988-RA1

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-28-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 15 CORE samples submitted OCT-21-91 by E. YARROW.

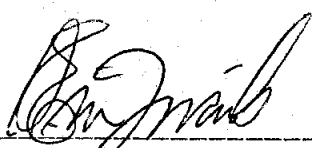
Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 432 91-9007	.010	.02	0.4
GC 432 91-9008	.148	.10	1.2
GC 432 91-9009	.040	.02	0.4
GC 432 91-9016	.095	.12	2.2
GC 432 91-9017	.059	.03	1.1
GC 432 91-9018	.058	.02	1.4
GC 432 91-9019	.054	.09	1.4
GC 432 91-9020	.054	.02	1.6
GC 432 91-9021	.069	.09	1.6
GC 432 91-9028	.013	.01	1.0
GC 432 91-9029	.012	.01	1.2
GC 432 91-9030	.012	.01	1.1
GC 432 91-9040	.194	.18	3.0
GC 432 91-9041	.022	.02	1.4
GC 432 91-9042	.039	.02	1.2

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0989-RA1

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-28-91**
Copy 1. **KENNECOTT CANADA, VANCOUVER, B.C.**
2. **KENNECOTT CANADA, C/O SMITHERS EXP.**
3. **KENNECOTT CANADA, C/O MIN-EN LABS.**

We hereby certify the following Assay of 24 CORE samples submitted OCT-22-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 433 ⁴³⁰ 91-5533	.006	.02	1.6
GC 433 91-5534	.332	.01	1.1
GC 433 91-5535	.038	.03	0.7
GC 433 91-5566	.006	.01	1.5
GC 433 91-5567	.004	.01	1.3
GC 433 91-5568	.010	.01	1.2
GC 433 91-5569	.066	.03	1.1
GC 433 91-5570	.003	.02	1.4
GC 433 91-5571	.193	.15	2.2
GC 433 91-5572	.105	.05	1.9
GC 433 91-5573	.071	.04	1.6
GC 433 91-5574	.077	.04	1.8
GC 433 91-5575	.221	.13	2.3
GC 433 91-5576	.100	.08	2.2
GC 433 91-5577	.058	.03	2.1
GC 433 91-5578	.275	.22	3.0
GC 433 91-5579	.063	.07	2.1
GC 433-91-5581	.116	.03	2.4
GC 433-91-5582	.110	.08	2.1
GC 433-91-5583	.060	.06	1.8
GC 433-91-5584	.122	.10	2.4
GC 433-91-5585	.112	.06	1.7
GC 433-91-5586	.109	.10	2.1
GC 433-91-5587	.049	.04	2.0

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Date: **OCT-28-91**

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2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 22 CORE samples submitted OCT-22-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 433-91-5588	.148	.10	2.1
GC 433-91-5589	.365	.30	2.9
GC 433-91-5590	.030	.04	1.8
GC 433-91-5591	.139	.03	2.1
GC 433-91-5592	.051	.02	1.6
GC 433-91-5593	.117	.05	1.6
GC 433-91-5594	.160	.20	2.3
GC 433-91-5595	.082	.03	1.9
GC 433-91-5596	.236	.37	2.7
GC 433-91-5597	.151	.09	2.3
GC 433-91-5598	.302	.18	4.1
GC 433-91-5599	.017	.03	1.9
GC 433-91-5600	.037	.02	1.1
GC 433-91-5601	.032	.02	0.8
GC 433-91-5602	.046	.01	1.6
GC 433-91-5603	.005	.02	2.0
GC 433-91-5604	.032	.01	1.5
GC 433-91-5605	.132	.09	2.1
GC 433-91-5606	.067	.05	1.7
GC 433-91-5607	.117	.07	2.1
GC 433-91-5608	.042	.08	1.1
GC 433-91-5609	.077	.10	1.9

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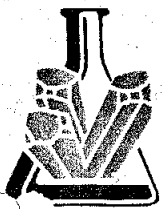
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Assay Certificate

1S-0990-RA1

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-29-91**

- Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 CORE samples submitted OCT-22-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 434 91-9050	.251	.04	2.0
GC 434 91-9051	.397	.02	2.4
GC 434 91-9052	.193	.03	2.7
GC 434 91-9053	.056	.01	1.7
GC 434 91-9054	.042	.06	1.4
GC 434 91-9055	.036	.09	1.3
GC 434 91-9056	.076	.03	2.2
GC 434 91-9057	.162	.02	1.5
GC 434 91-9058	.110	.12	2.1
GC 434 91-9059	.251	.05	2.7
GC 434 91-9060	.354	.02	2.6
GC 434 91-9061	.208	.01	2.8
GC 434 91-9062	.109	.02	1.8
GC 434 91-9063	.153	.01	1.5
GC 434 91-9064	.095	.01	1.5
GC 434 91-9065	.388	.02	2.0
GC 434 91-9066	.315	.03	1.9
GC 434 91-9067	.223	.03	2.3
GC 434 91-9068	.046	.01	1.7
GC 434 91-9069	.095	.02	1.6
GC 434 91-9073	.121	.02	1.8
GC 434 91-9074	.117	.02	1.9
GC 434 91-9075	.162	.09	1.9
GC 434 91-9076	.081	.01	1.3

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Assay Certificate

1S-0990-RA2

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-29-91**

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2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 CORE samples submitted OCT-22-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 434 91-9077	.106	.02	2.0
GC 434 91-9078	.115	.04	2.0
GC 434 91-9079	.094	.01	1.7
GC 434 91-9080	.084	.02	1.6
GC 434 91-9081	.113	.01	1.8
GC 434 91-9082	.046	.01	1.6
GC 434 91-9083	.258	.08	3.0
GC 434 91-9084	.288	.12	2.8
GC 434 91-9085	.304	.18	3.0
GC 434 91-9086	.047	.01	2.8
GC 434 91-9087	.042	.10	2.4
GC 434 91-9090	.151	.44	4.7
GC 434 91-9091	.061	.01	1.6
GC 434 91-9092	.059	.03	1.5
GC 434 91-9093	.151	.02	2.2
GC 434 91-9094	.092	.09	2.0
GC 434 91-9095	.153	.47	3.8
GC 434 91-9099	.057	.02	1.7
GC 434 91-9100	.075	.01	2.2
GC 434 91-9101	.068	.01	1.9
GC 434 91-9102	.076	.10	1.8
GC 434 91-9103	.094	.01	2.0
GC 434 91-9104	.103	.01	2.2
GC 434 91-9105	.090	.02	2.7

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SMITHERS LAB.:
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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

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Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-29-91**

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2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

**We hereby certify the following Assay of 16 CORE samples
submitted OCT-22-91 by E. YARROW.**

Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 434 91-9106	.174	.13	2.5
GC 434 91-9107	.206	.06	2.7
GC 434 91-9108	.209	.25	3.4
GC 434 91-9109	.290	.20	3.0
GC 434 91-9110	.228	.08	3.6
GC 434 91-9111	.065	.01	2.0
GC 434 91-9112	.071	.03	1.8
GC 434 91-9113	.075	.01	1.4
GC 434 91-9114	.088	.01	1.4
GC 434 91-9115	.169	.02	1.6
GC 434 91-9116	.185	.03	2.0
GC 434 91-9117	.265	.09	1.6
GC 434 91-9118	.041	.01	1.3
GC 434 91-9119	.013	.01	1.4
GC 434 91-9120	.048	.03	1.1
GC 434 91-9121	.015	.20	1.9

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FAX (604) 847-3005

Assay Certificate

1S-0997-RA1

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-30-91**

Copy 1. KENNECOTT CANADA, VANCOUVER, B.C.
2. KENNECOTT CANADA, C/O SMITHERS EXP.
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 8 CORE samples
submitted OCT-22-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG oz/ton
GC 433 91-5613	.099	.09	1.6
GC 433 91-5614	.084	.12	1.4
GC 433 91-5615	.051	.22	1.4
GC 433 91-5616	.026	.07	1.6
GC 433 91-5617	.025	.09	1.2
GC 433 91-5618	.036	.09	1.6
GC 433 91-5619	.151	.11	1.8
GC 433 91-5620	.052	.06	1.0

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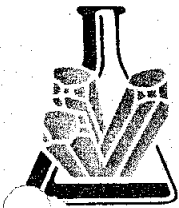
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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0998-RA1

Company: **KENNECOTT CANADA**
Project: **STIKINE COPPER**
Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-30-91**
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3. **KENNECOTT CANADA, C/O MIN-EN LABS.**

**We hereby certify the following Assay of 23 CORE samples
submitted OCT-22-91 by E. YARROW.**

Sample Number	CU %	*AU-FIRE g/tonne	AG oz/ton
GC 434 91-9122	.016	.13	2.0
GC 434 91-9123	.018	.05	1.9
GC 434 91-9124	.080	.06	1.7
GC 434 91-9125	.033	.01	1.3
GC 434 91-9126	.118	.02	1.8
GC 434 91-9127	.079	.03	1.6
GC 434 91-9128	.446	.21	3.2
GC 434 91-9129	.186	.11	2.3
GC 434 91-9130	.180	1.28	2.2
GC 434 91-9131	.141	.15	1.5
GC 434 91-9132	.088	.04	1.8
GC 434 91-9133	.165	.12	1.6
GC 434 91-9134	.271	.08	1.7
GC 434 91-9135	.357	.42	2.4
GC 434 91-9136	.036	.08	1.5
GC 434 91-9137	.064	.03	1.6
GC 434 91-9138	.109	.05	1.5
GC 434 91-9139	.096	.03	1.8
GC 434 91-9140	.051	.02	1.2
GC 434 91-9141	.045	.02	1.3
GC 434 91-9142	.036	.01	1.0
GC 434 91-9143	.070	.03	1.8
GC 434 91-9144	.052	.04	1.7

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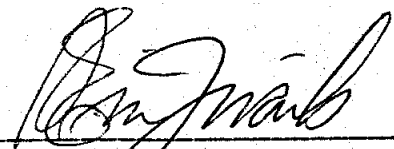
Sample Number	CU %	*AU-FIRE g/tonne	AG g/tonne
GC 435 91-5621	.018	.03	2.1
GC 435 91-5622	.011	.01	2.3
GC 435 91-5623	.007	.02	1.2
GC 435 91-5624	.007	.03	1.3
GC 435 91-5625	.010	.02	2.1
GC 435 91-5626	.060	.01	2.9
GC 435 91-5627	.026	.01	2.2
GC 435 91-5628	.040	.02	2.0
GC 435 91-5629	.037	.01	1.7
GC 435 91-5630	.053	.02	1.8
GC 435 91-5631	.060	.08	2.1
GC 435 91-5632	.047	.04	2.2
GC 435 91-5633	.037	.01	2.1
GC 435 91-5634	.017	.02	2.4
GC 435 91-5635	.012	.01	2.5
GC 435 91-5636	.079	.20	3.4
GC 435 91-5637	.051	.11	2.0
GC 435 91-5638	.006	.01	1.0
GC 435 91-5639	.005	.02	1.4
GC 435 91-5640	.004	.01	1.1
GC 435 91-5641	.107	.02	1.9
GC 435 91-5642	.121	.01	2.4
GC 435 91-5643	.104	.01	1.5
GC 435 91-5644	.080	.12	2.1

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Attn: **D. JOHNSON/E. YARROW**

Date: **OCT-30-91**

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3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 16 CORE samples
submitted OCT-22-91 by E. YARROW.

Sample Number	CU %	*AU-FIRE g/tonne	AG oz/ton
GC 435 91-5645	.055	.02	1.2
GC 435 91-5646	.014	.03	1.1
GC 435 91-5647	.006	.01	1.0
GC 435 91-5648	.009	.01	1.1
GC 435 91-5649	.035	.02	1.6
GC 435 91-5650	.013	.01	1.7
GC 435 91-5651	.075	.01	1.9
GC 435 91-5652	.140	.07	2.1
GC 435 91-5653	.141	.05	3.1
GC 435 91-5654	.081	.03	1.8
GC 435 91-5655	.134	.01	1.6
GC 435 91-5656	.072	.01	2.1
GC 435 91-5657	.029	.01	1.4
GC 435 91-5658	.306	.01	2.4
GC 435 91-5659	.550	.03	4.0
GC 435 91-5660	.069	.07	2.2

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APPENDIX IV

**REPORT ON A COMBINED HELICOPTER-BORNE MAGNETIC,
VLF-EM AND RADIOMETRIC SURVEY, AERODAT LTD.**

Part 2 of 3

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,900

**REPORT ON A
COMBINED HELICOPTER-BORNE
MAGNETIC, ELECTROMAGNETIC, VLF-EM AND
RADIOMETRIC SURVEY
GALORE CREEK PROPERTY
BRITISH COLUMBIA**

FOR

**KENNECOTT CANADA INC.
GRANVILLE SQUARE
138 - 200 GRANVILLE STREET
VANCOUVER, B.C.
V6C 1S4**

BY

**AERODAT LIMITED
3883 NASHUA DRIVE
MISSISSAUGA, ONTARIO
L4V 1R3
PHONE: 416 - 671-2446**

August 21, 1991

J9135

**Ian Johnson, Ph.D., P.Eng.
Consulting Geophysicist**

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APPENDIX II	- Anomaly Listings
APPENDIX III	- Certificate of Qualifications
APPENDIX IV	- Personnel

LIST OF MAPS

Maps are labelled according to map type and sheet number. All maps are presented at a scale of 1:10,000. The total field magnetic shadow map is presented at a scale of 1:20,000. Details on map types are given in Section 4.

The survey involved a primary survey grid of east/west flight lines and a secondary overlapping grid of north/south lines over the central part of the survey area. Black line map types 3, 4 and 5 and colour map types 1 and 2 and the shadow map involve both sets of flight lines. All other map types are shown in two map sheets - one for the east/west lines and one for the north/south lines.

BLACK LINE MAPS: (Scale 1:10,000)

<u>Map Type</u>	<u>Description</u>
1.	BASE MAP; screened topographic base map with survey area boundary and UTM grid.
2.	FLIGHT PATH MAP; photocombination of the base map with flight lines, and EM anomaly symbols.
3.	COMPILATION/INTERPRETATION MAP; with base map and flight lines.
4.	TOTAL FIELD MAGNETIC CONTOURS; with base map and flight lines.
5.	VERTICAL MAGNETIC GRADIENT CONTOURS; with base map and flight lines.
6.	APPARENT RESISTIVITY CONTOURS; apparent resistivity calculated for the 4600 Hz data, with base map and flight lines.
7.	VLF-EM TOTAL FIELD CONTOURS; with base map and flight lines.
8.	APPARENT WEIGHT PERCENT MAGNETITE CONTOURS; with base map and flight lines.
9.	TOTAL COUNT RADIOMETRIC CONTOURS; with base map and flight lines.
10.	POTASSIUM RADIOMETRIC CONTOURS; with base map and flight lines.

11. **URANIUM RADIOMETRIC CONTOURS;** with base map and flight lines.
12. **THORIUM RADIOMETRIC CONTOURS;** with base map and flight lines.

COLOUR MAPS: (Scale 1:10,000)

1. **TOTAL FIELD MAGNETICS;** with superimposed contours, flight lines and EM anomaly symbols.
2. **VERTICAL GRADIENT MAGNETICS;** with superimposed contours, flight lines and EM anomaly symbols.
3. **APPARENT RESISTIVITY;** calculated for the 4600 Hz data with superimposed contours, flight lines and EM anomaly symbols.
4. **VLF-EM TOTAL FIELD;** with superimposed contours, flight lines and EM anomaly symbols.
- 5A. **HEM OFFSET PROFILES;** - east/west lines - 935 and 33000 Hz data with flight lines and EM anomaly symbols.
- 5B. **HEM OFFSET PROFILES;** - east/west lines - 4175 and 4600 Hz data with flight lines and EM anomaly symbols.
- 6A. **HEM OFFSET PROFILES;** - north/south lines - 935 and 33000 Hz data with flight lines and EM anomaly symbols.
- 6B. **HEM OFFSET PROFILES;** - north/south lines - 4175 and 4600 Hz data with flight lines and EM anomaly symbols.
7. **APPARENT WEIGHT PERCENT MAGNETITE;** with superimposed contours, flight lines and EM anomaly symbols.

DERIVATIVE COLOUR MAP: (Scale 1:20,000)

- 1-A. **TOTAL FIELD MAGNETICS SHADOW MAP;** at an illumination direction given by angle A.

**REPORT ON A
COMBINED HELICOPTER-BORNE
MAGNETIC, ELECTROMAGNETIC, VLF-EM
AND RADIOMETRIC SURVEY
GALORE CREEK PROPERTY
BRITISH COLUMBIA**

1. INTRODUCTION

This report describes an airborne geophysical survey carried out on behalf of Kennecott Canada Inc. (Kennecott) by Aerodat Limited under a contract dated May 28, 1991. Principal geophysical sensors included a four frequency electromagnetic system, a high sensitivity cesium vapour magnetometer, a two frequency VLF-EM system and a four channel radiometric system. Ancillary equipment included radar ranging and GPS navigation systems, a colour video tracking camera, a radar altimeter, a power line monitor and a base station magnetometer.

The survey was flown over an area of about 35 square kilometres immediately west and south of Galore Creek in northwestern British Columbia. Flight line spacings were 100 m (east-west lines) and 150 m (north-south lines). The north/south lines covered the central part of the survey area. Total coverage was approximately 459 line kilometres. The Aerodat Job Number is J9135.

This report describes the survey, the data processing and the data presentation. Electromagnetic anomalies which are thought to be the response to bedrock conductors have been identified and appear on selected map products as EM anomaly symbols with interpreted source characteristics. Where EM and Magnetic results supported it, anomaly centers are joined to form conductor axes. Recommendations concerning areas with favourable geophysical characteristics are made with reference to a compilation/interpretation map.

2. SURVEY AREA

The survey area borders Galore Creek in northwestern British Columbia. The area is approximately 175 km northwest of Stewart. Area topography is shown on the 1:50,000 scale NTS map sheet - 104G/3 (Sphaler Creek).

Local relief is moderate to extreme. Galore Creek, on the eastern side of the area is at 2000 feet. Mountain peaks in the western and southern parts of the survey area reach over 5000 feet. One peak at 6384 feet is just outside the survey area. The area is free of major roads, railroads, etc. The survey area is centered over old mine workings, an airstrip and a large exploration camp. A part (15%?) of the survey area is covered by glaciers or their outwash gravels.

The survey covers the known extent of the Galore Creek porphyry copper deposit and areas around this deposit.

The survey area is shown in the attached index map which includes local topography and latitude - longitude coordinates. This index map appears on map legends.

The local magnetic field has an inclination of 75° and a declination of 30° east of north.

3. SURVEY PROCEDURES

The survey was flown in the period June 23 to June 25, 1991. Principal personnel are listed in Appendix IV. Eight (8) survey flights were required to complete the project.

The flight line spacings were 100 m (east/west lines) and 150 m (north/south lines). All of the survey area was covered at 100 m. The central part only - about 50% of the total - was flown with an orthogonal grid at a 150 m line spacing. The aircraft ground speed was maintained at approximately 60 knots (30 metres per second). The nominal EM sensor height was 30 metres, consistent with the safety of the aircraft and crew.

Following equipment installation and testing, the ground based transponders of the radar ranging navigation system were installed at two or more sites or more near the survey area. The UTM coordinates of each site were taken from published 1:50,000 NTS maps. The base line (or line between transponders) was flown to determine their separation. The result is used to check the UTM coordinates assigned to each transponder.

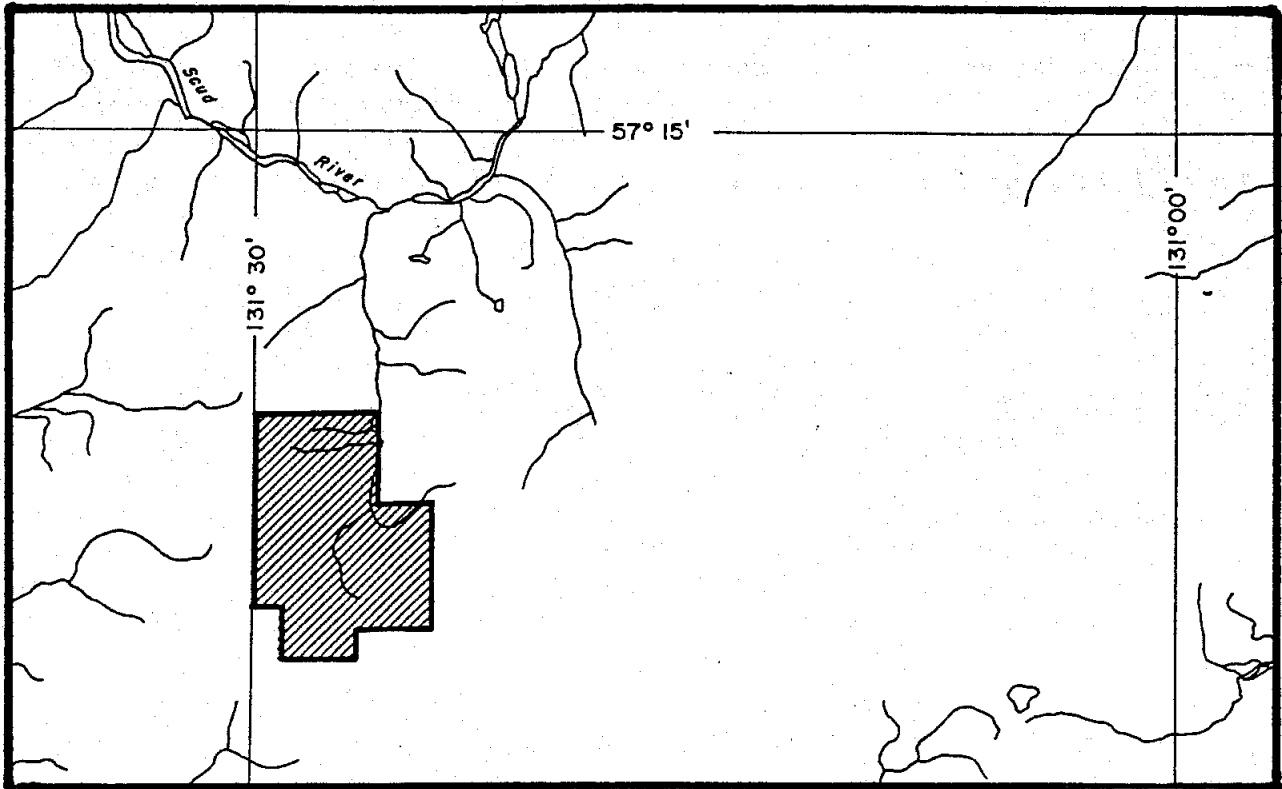
Two electronic navigation systems were installed. GPS and the radar ranging systems were operational and the navigation was based on which system performed best.

The UTM coordinates of survey area corners were taken from maps provided by Kennecott. These coordinates are used to program the navigation system. A test flight was used to confirm that area coverage would be as required.

Thereafter the traverse lines are flown under the guidance of the navigation systems. Areas with poor quality electronic navigational control, were flown with visual navigation. The operator entered manual fiducials over prominent topographic features as seen on a 1:20,000 scale topographic map (a 2.5 times enlargement of the 1:50,000 scale NTS map sheet). Survey lines which showed excessive deviation were re-flown.

Calibration lines are flown at the start, middle (if required) and end of every survey flight. These lines are flown outside of ground effects to record electromagnetic and radiometric zero levels.

Pre-flight radiometric checks involved placing potassium, uranium and thorium sources at set locations on the crystal package.



**HELICOPTERBORNE GEOPHYSICAL SURVEY
GALORE CREEK PROPERTY**

on behalf of
KENNECOTT CANADA INC.

BY

**AERODAT LIMITED
J9135**

4. DELIVERABLES

The results of the survey are presented in a report plus maps. The report is presented in four copies. Folded white print copies of all of the black line maps are bound with the report.

The colour and shadow maps are delivered in four copies. The colour and shadow maps are rolled and delivered in map tube(s).

A full list of all map types is given at the beginning of this report. A summary is given here.

<u>MAP TYPE</u>	<u>DESCRIPTION</u>
1	Base Map (Black line)
2	Flight Path Map (Black line)
3	Compilation/Interpretation Map (Black line)
4	Total Magnetic Field Contours (Black line)
5	Vertical Magnetic Gradient Contours (Black line)
6	Apparent Resistivity - 4600 Hz (Black line)
7	VLF-EM Total Field Contours (Black line)
8	Apparent Weight % Magnetite (Black line)
9	Total Count Contours (Black line)
10	Potassium Contours (Black line)
11	Uranium Contours (Black line)
12	Thorium Contours (Black line)
1	Total Magnetic Field Contours (Colour)
2	Vertical Magnetic Gradient Contours (Colour)
3	Apparent Resistivity Contours - 4600 Hz - (Colour)
4	VLF-EM Total Field Contours (Colour)
5A	HEM Offset Profiles - e/w - 935 & 33000 Hz (Colour)
5B	HEM Offset Profiles - e/w - 4175 & 4600 Hz (Colour)
6A	HEM Offset Profiles - n/w - 935 and 33000 Hz (Colour)
6B	HEM Offset Profiles - n/s - 4175 and 4600 Hz (Colour)
7	Apparent Weight Percent Magnetite (Colour)
1A	Total Field Magnetic Shadow Map (Colour)

All maps are presented at a scale of 1:10,000. The total field magnetics shadow map is presented at a scale of 1:20,000. All black line maps show a screened topographic base with survey area boundary and UTM grid. The colour maps show the survey area boundary and the UTM grid.

Black line map types 3, 4, and 5 and colour maps 1 and 2 and the shadow map are presented on one map sheet using data from both the east/west and the north/south survey lines. All other map types are presented in two map sheets -- one for the east/west lines and one for the north/south lines.

The processed digital data is organized on 9 track archive tape. Both the profile and the gridded data are saved on tape. A full description of the archive tape(s) is delivered with the tape(s).

All gridded data are also provided on diskettes suitable for displaying on IBM compatible 286 or 386 microcomputers using the Aerodat RTI software package.

The original analog records, base station magnetometer records, navigators map, flight path video tape and all cronaflex originals are delivered at the conclusion of the project.

5. AIRCRAFT AND EQUIPMENT

5.1 Aircraft

An Aerospatiale Lama helicopter, (C-GXYM), owned and operated by Peace Helicopters, was used for the survey. Installation of the geophysical and ancillary equipment was carried out by Aerodat. The survey aircraft was flown at a mean terrain clearance of 60 metres.

5.2 Electromagnetic System

The electromagnetic system was an Aerodat 4-frequency system. Two vertical coaxial coil pairs were operated at 935 Hz and 4,600 Hz and two horizontal coplanar coil pairs at 4175 Hz and 33000 Hz. The transmitter-receiver separation was 7 metres. Inphase and quadrature signals were measured simultaneously for the 4 frequencies with a time constant of 0.1 seconds. The HEM bird was towed 30 metres below the helicopter.

5.3 VLF-EM System

The VLF-EM System was a Herz Totem 2A. This instrument measures the total field and vertical quadrature components of two selected frequencies. The sensor was towed in a bird 15 metres below the helicopter.

VLF transmitters are designated "Line" and "Ortho". The line station is that which is in a direction from the survey area which is ideally normal to the flight line direction. This is the VLF station most often used because of optimal coupling with near vertical conductors running perpendicular to the flight line direction. The ortho station is ideally 90 degrees in azimuth away from the line station.

The transmitters used were NLK, Jim Creek, Washington broadcasting at 24.8 kHz and NPM, Lualualei, Hawaii broadcasting at 23.4 kHz. NLK (24.8 kHz) was used as the line station and NPM was used as the ortho station. NLK is in a direction of about 30° east of south from the survey area.

5.4 Magnetometer

The magnetometer employed was a Scintrex H8 cesium, optically pumped magnetometer sensor. The sensitivity of this instrument is 0.001 nanoTeslas at a 0.2 second sampling rate. The sensor was towed in a bird 15 metres below the helicopter.

5.5 Gamma-Ray Spectrometer

An Exploranium GR-256 spectrometer coupled to 512 cubic inches of crystal sensor was used to record four channels of radiometric data. Spectrum stabilization is based on the 662 KeV peak from Cesium sources planted on the crystals.

The four channels recorded and their energy windows were as follows:

<u>Channel</u>	<u>Window</u>
Total Count (TC)	0.83 to 3.00 MeV
Potassium (K)	1.38 to 1.56 MeV
Uranium (U)	1.67 to 1.90 MeV
Thorium (Th)	2.51 to 2.78 MeV

The four channels of radiometric data were recorded at a 1 second update rate (counts per second - cps). Digital recording resolution is 1 cps.

5.6 Ancillary Systems

Base Station Magnetometer

An IFG-2 proton precession magnetometer was operated at the base of operations to record diurnal variations of the earth's magnetic field. The clock of the base station was synchronized with that of the airborne system to facilitate later correlation. Recording resolution was 1 nT. The update rate was 4 seconds.

External magnetic field variations were recorded on a 3" wide paper chart and in digital form. The analog record shows the magnetic field trace plotted on a grid. Each division of the grid (0.25") is equivalent to 1 minute (chart speed) or 5 nT (vertical sensitivity). The date, time and current total field magnetic value are printed every 10 minutes.

Radar Altimeter

A King KRA-10 radar altimeter was used to record terrain clearance. The output from the instrument is a linear function of altitude.

Tracking Camera

A Panasonic colour video camera was used to record flight path on VHS video tape. The camera was operated in continuous mode. The flight number, 24 hour clock time (to .01 second), and manual fiducial number are encoded on the video tape.

Radar Ranging Navigation System

A Motorola Miniranger III positioning system was used to guide the pilot over a programmed grid. The ranges to at least two ground stations were digitally recorded. The output sampling rate is 1 second. Ranges are recorded with a resolution of 0.1 m.

GPS Navigation System

A Trimble TANS GPS receiver was used to record aircraft position. The update rate is 1 sec. The resolution is 0.1 m. This unit was coupled with a Picodas PNAV 2001 to provide guidance over a pre-programmed survey grid.

Analog Recorder

A RMS dot matrix recorder was used to display the data during the survey. Record contents are as follows:

<u>Label</u>	<u>Contents</u>	<u>Scale</u>
GEOPHYSICAL SENSOR DATA		
MAGF	Total Field Magnetics, Fine	2.5 nT/mm
MAGC	Total Field Magnetics, Course	25 nT/mm
VLT	VLF-EM, Total Field, Line Station	2.5 %/mm
VLQ	VLF-EM, Vertical Quadrature, Line Station	2.5 %/mm
VOT	VLF-EM, Total Field, Ortho Station	2.5 %/mm
VOQ	VLF-EM, Vertical Quadrature, Ortho Station	2.5 %/mm
CXI1	935 Hz, Coaxial, Inphase	2.5 ppm/mm
CXQ1	935 Hz, Coaxial, Quadrature	2.5 ppm/mm
CXI2	4600 Hz, Coaxial, Inphase	2.5 ppm/mm
CXQ2	4600 Hz, Coaxial, Quadrature	2.5 ppm/mm
CPI1	4175 Hz, Coplanar, Inphase	10 ppm/mm
CPQ1	4175 Hz, Coplanar, Quadrature	10 ppm/mm

CPI2	33000 Hz, Coplanar, Inphase	20 ppm/mm
CPQ2	33000 Hz, Coplanar, Quadrature	20 ppm/mm
TC	Total Count Radiometrics	50 cps/mm
K	Potassium	5 cps/mm
UR	Uranium	5 cps/mm
TH	Thorium	5 cps/mm

<u>Label</u>	<u>Contents</u>	<u>Scale</u>
--------------	-----------------	--------------

ANCILLARY DATA

RALT	Radar Altimeter	10 ft/mm
PWRL	60 Hz Power Line Monitor	-

The zero of the radar altimeter is 5 cm (5 large divisions) from the top of the analog chart. The full analog range for the radar altimeter is therefore 500 feet. A flying height of 60 m (197 feet) gives an analog trace which is three large divisions (3 cm) below the top of the analog record.

Chart speed is 2 mm/second. The 24 hour clock time is printed every 20 seconds. The total magnetic field value is printed every 30 seconds. The ranges from the radar navigation system are printed every minute.

Vertical lines crossing the record are operator activated manual fiducial markers. The start of any survey line is identified by two closely spaced manual fiducials. The end of any survey line is identified by three closely spaced manual fiducials. Manual fiducials are numbered in order. Every tenth manual fiducial is indicated by its number, printed at the bottom of the record.

Calibration sequences are located at the start and end of each flight and at intermediate times where needed.

Digital Recorder

A DGR-33 data system recorded the digital survey data on magnetic media. Contents and update rates were as follows:

<u>DATA TYPE</u>	<u>SAMPLING</u>	<u>RESOLUTION</u>
Magnetometer	0.2 s	0.001 nT
VLF-EM (4 Channels)	0.2 s	0.03 %
HEM (8 Channels)	0.1 s	0.03 ppm (coaxial), 0.06 ppm (coplanar)
Position (4 Channels)	0.2 s	0.1 m
Altimeter	0.2 s	0.05 m
Power Line Monitor	0.2 s	-
Manual Fiducial		
Clock Time		

6. DATA PROCESSING AND PRESENTATION

6.1 Base Map

The 1:10,000 scale base maps were prepared from a five times enlargement of the 1:50,000 scale NTS map sheet. The survey area boundary and a UTM reference grid were added.

6.2 Flight Path Map

The flight path is drawn using linear interpolation between x,y positions from the navigation system. These positions are updated every second (or about 3 mm at a scale of 1:10,000). These positions are expressed as UTM eastings (x) and UTM northings (y).

Navigational control from the radar ranging or GPS system may be temporarily lost. Short gaps in the flight path are covered by interpolation. Longer gaps are filled by stitching in segments of flight path taken from the navigators map/flight path recovery. These segments are recognizable by the straight line character of the flight path.

The manual fiducials are shown as a small circle and labelled by fiducial number. The 24 hour clock time is shown as a small square, plotted every 30 seconds. Small tick marks are plotted every 2 seconds. Larger tick marks are plotted every 10 seconds.

The block, line and flight numbers are given at the start and end of each survey line. The number 10610 6 for example indicates a line flown east/west (prefix 1), line number 61, flight 6. The north/south flight lines use a prefix 2.

The flight path map is registered to the base map by matching UTM coordinates from the base maps and the flight path record. The match is confirmed by checking the position of prominent topographic features as recorded by manual fiducial marks or as seen on the flight path video record.

6.3 Electromagnetic Survey Data

The electromagnetic data were recorded digitally at a sample rate of 10 per second with a time constant of 0.1 seconds. A two stage digital filtering process was carried out to reject major spheric events and the reduce system noise.

Local spheric activity can produce sharp, large amplitude events that cannot be removed by conventional filtering procedures. Smoothing or stacking will reduce their amplitude but leave a broader residual response that can be confused with geological phenomena. To avoid this possibility, a computer algorithm searches out and rejects the major spheric events.

The signal to noise ratio was further enhanced by the application of a low pass digital filter. This filter has zero phase shift which prevents any lag or peak displacement from occurring, and it suppresses only variations with a wavelength less than about 0.25 seconds. This low effective time constant gives minimal profile distortion.

Following the filtering process, a base level correction was made using EM zero levels determined during high altitude calibration sequences. The correction applied is a linear function of time that ensures the corrected amplitude of the various inphase and quadrature components is zero when no conductive or permeable source is present. The filtered and levelled data were used in the determination of apparent resistivity (see below).

The offset profiles are drawn at vertical scales of 2 ppm/mm (935 and 4600 Hz), 8 ppm/mm (4175 Hz) and 16 ppm/mm (33000 Hz).

6.4 Total Field Magnetics

The aeromagnetic data were corrected for diurnal variations by adjustment with the recorded base station magnetic values. Where needed, the magnetic tie line results were used to further level the magnetic data. No corrections for regional variations were applied. The corrected profile data were interpolated on to a regular grid using an Akima spline technique. The grid provided the basis for threading the presented contours. The minimum contour interval is 5 nT. A grid cell size of 25 m was used.

The total field magnetic map was made using bidirectional gridding in the area covered by orthogonal survey grids.

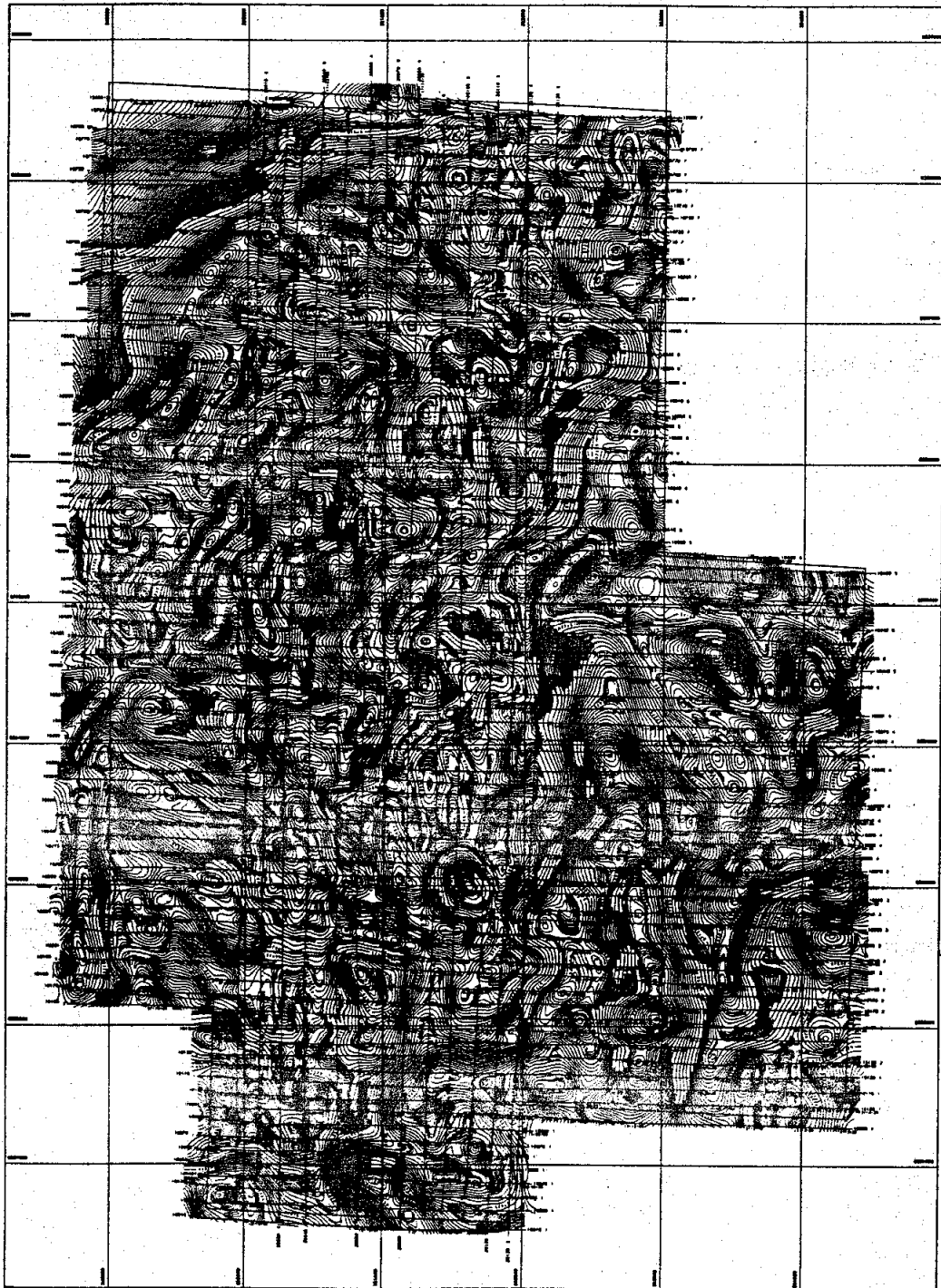
A page size copy of the 1:10,000 scale black line contoured total magnetic field map is attached.

6.5 Vertical Magnetic Gradient

The vertical magnetic gradient was calculated from the gridded total field magnetic data. The calculation is based on a 17 x 17 point convolution in the space domain. The results are contoured using a minimum contour interval of 0.1 nT/m. The grid cell size is the same as that used in processing the total field data.

6.6 Apparent Resistivity

The apparent resistivity is calculated by assuming a 200 metre thick conductive layer over resistive bedrock. The computer determines the resistivity that would be consistent with the sensor elevation and recorded inphase and quadrature response amplitudes at the selected frequency. The apparent resistivity profile data were interpolated onto a regular grid at a 25 metres true scale interval using an Akima spline technique and contoured



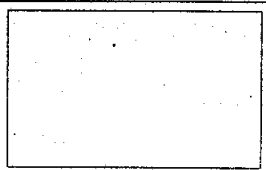
Flight Path

Flight data collected from
 1951 to 1952
 Average terrain elevation 1000
 Average line spacing 1000
 Average line length 1500
 Average line width 1500

Map Scale

Scale 1:100,000
 Contour interval 100
 Contour interval 200
 Contour interval 500
 Contour interval 1000

Map prepared by AERODAT INC.
 Date 1952
 Scale 1:100,000
 Contour interval 100



KENNEDY CORP. INC.
TOTAL FIELD MAGNETIC CONTOURS
GALORE CREEK PROPERTY
 1000 ACRES
 SCALE 1:100,000
 DATE JUNE 1952
AERODAT LIMITED MAP No. 104 6/2
 1000 ACRES

using logarithmically arranged contour intervals. The contour interval is $0.1 \log(\text{ohm.m})$. This translates to contour lines at 100, 126, 158, 200, 251, 316, 398, 501, 631 and 794 ohm.m and multiples of 10. Thicker contour lines are used for 100 and 316 ohm.m and multiples of 10.

The highest measurable resistivity is approximately equal to the transmitter frequency. The lower limit on resistivity is rarely encountered.

6.7 VLF-EM

The VLF Total Field data from the Line Station is levelled such that a response of 0% is seen in non-anomalous regions. The corrected profile data are interpolated onto a regular grid using an Akima spline technique. The grid provided the basis for threading the presented contours. The minimum contour interval is 5 %. Grid cell size is 25 m.

The VLF profile data is subjected to a high pass filter before gridding to remove the effects of variations in transmitter power. The filter removes signal with periods more than about 150 seconds - 450 m at a ground speed of 30 m/s.

In areas of extreme topographic relief, the VLF total field channel mimic the terrain -- broad VLF highs over mountain tops and lows in the valleys. Peak amplitudes are large - $\pm 25\%$. The removal of terrain effects using simple filters is not always totally effective and broad VLF anomalies in mountainous areas should be viewed with suspicion.

6.8 Apparent Weight Percent Magnetite

The apparent weight percent magnetite has been calculated from the 935 Hz inphase EM response. The algorithm is based on the HEM response to a non-conducting, magnetically polarizable half-space. The calculation involves a correction to a sensor elevation of 30 m followed by a conversion to weight percent. The elevation correction is based on the cubic fall-off of response amplitude with height. As a rule of thumb, a negative inphase response of 1 ppm in either coaxial channel will work out to a percent magnetite by weight of about 0.2%.

The results will be misleading if the source is a near-vertical dyke or intrusion. In such cases, the calculated weight percent magnetite may be too little by a factor of 10 or more.

The calculated apparent percent magnetite data were interpolated on a square grid (25 m grid cell size). The grid provided the basis for threading the presented contours. The minimum contour interval is 0.2%.

6.9 Radiometric Data

The four channels of radiometric data are subject to a four stage data correction process.

The stages are

- low pass filter (seven point Hanning)
- background removal
- terrain clearance correction
- compton stripping correction

The Compton stripping factors used were

- alpha - 0.45 (Th into U)
- beta - 0.40 (Th into K)
- gamma - 0.83 (U into K)
- a - 0.09 (U into Th)
- b - 0.00 (K into Th)
- g - 0.03 (K into U)

where alpha, beta and gamma are the forward stripping coefficients and a, b, g are the backward stripping coefficients. These coefficients are taken in part from the sample checks done at the start of each flight.

The altitude attenuation coefficients used were 0.0072 (TC), 0.0085 (K), 0.0082 (U) and 0.0067 (Th). The units are m^{-1} . These coefficients are taken from GSC publications for similar radiometric systems. Radiometric data were corrected to a mean terrain clearance of 60 m.

The corrected data were interpolated on a square grid (grid cell size 25m) using an Akima spline technique. The grids provided the basis for threading the presented contours. The minimum contour intervals are 25 cps (TC), 5 cps (K) and 1 cps (U,Th).

7. INTERPRETATION

7.1 Area Geology

The following notes have been taken from an article which appeared in CIM Special Volume Number 15, 1975 - PART C: Porphyry Copper Deposits of the Alkalic Suite. The article is titled Galore Creek, by D.G. Allan, A. Panteleyev and A.T. Armstrong. A copy of this article was provided by Darrel Johnson of Kennecott.

- * copper deposits were discovered in the upper Galore Creek valley in 1955. Major exploration programs were undertaken from 1960 to 1967. Work included 235 diamond drill holes and two adits. An additional 111 holes were drilled in 1972 and 1973. Exploration activity on the deposits was largely discontinued from 1976 to 1990.
- * the Galore Creek porphyry copper deposits are situated at the western margin of the Intermontagne Belt about 7 km east of the Coast Plutonic Complex.

The area contains three major lithologic units: Palaeozoic and Middle Triassic metamorphic rocks; Upper Triassic volcanic and sedimentary rocks; and intrusive rocks of various ages and types.

- * the intrusive rocks include Upper Triassic to Lower Triassic syenite stocks and dykes, quartz diorite and granodiorite stocks and at least one large pluton (Hickman batholith). Sedimentary and volcanic strata close to the syenite intrusive complex are severely folded, faulted, sheared and brecciated.

7.2 Exploration Target

Extensive exploration work on the Galore Creek copper deposits has led to a relatively detailed understanding of their extent and nature. The purpose of the airborne survey is to define the geophysical signature of the known deposits and to suggest possible extensions in inaccessible areas or in areas covered by overburden or permanent snow cap/glaciers and their outwash gravels.

The characteristics of the Galore Creek deposits are taken from the article by D. G. Allan (1975) cited above. Principal among them are

- * the Galore Creek copper deposits occur in altered Upper Triassic volcanic rocks and pipe like breccias. Host metavolcanic rocks include volcanic breccias, bedded and crystal tuff, trachyte and pseudoleucite phonolite. These rocks are intruded by syenite porphyry dykes and plugs.
- * the copper deposits are tabular to manto shaped and strike north to northeast. They are controlled by syenite dyke contacts and zones of structural weakness.
- * metallic minerals include disseminated pyrite, chalcopyrite, magnetite and bornite in order of decreasing abundance, together with minor amounts of sphalerite and galena. Exploration in the Central zone deposit has outlined 125 million tonnes grading 1.05% copper.
- * of the ten known deposits in the survey area, only two - the Central Zone and the North Junction - are large enough to have been extensively tested. The Central Zone is some 2000 m long with widths ranging from 200 to 500 m. The North Junction deposit is at least 370 m long and varies from 50 to 150 m wide. It is an irregular flat lying manto plunging about 20° to the northeast.
- * magnetite is a common accessory mineral in syenite porphyries and occurs disseminated throughout metavolcanic rocks. It also occurs in veinlets with or without pyrite and chalcopyrite. Magnetic rich rocks occur in a belt that

includes the Central Zone deposit, but lies to the west of the deposit. Magnetite is abundant in the matrix in a number of breccias.

- * within and near the intrusive complex, volcanic rocks are slightly to intensely metasomatized. Alteration haloes are defined by the abundance of K-feldspar and pyrite.

The direct geophysical signature of the deposit may therefore be relatively high radioactive potassium, with or without high magnetite. Local concentrations of metallic sulphides within or near vertical fault zones may be seen as a linear resistivity low with coincident weak EM and/or VLF anomalies.

7.3 EM Anomaly Selection and Analysis

A. Anomaly Selection

The purpose of EM anomaly selection is to identify possible bedrock conductors. The principal characteristic for most anomalies picked is a positive anomaly in the 4600 Hz inphase or quadrature channel with a coincident low in the 4175 Hz inphase quadrature channel.

These criteria reject EM anomalies due to gradual changes in overburden thickness or resistivity. For such anomalies, the coaxial and coplanar channels (either inphase or quadrature) for the same operating frequency move together and no separation is seen. This information is best seen in the contour plan maps of apparent resistivity.

The width of an anomaly from a thin sheet conductor will depend principally on depth of burial, dip and orientation with respect to flight line direction. A near vertical conductor running normal to the flight lines will yield a coaxial EM anomaly whose width is about 2.5 times the source-sensor separation (measured from 20% of the anomaly peak). The anomaly from such conductors at surface is about 80 m. The comparable figures for a conductor under 50 m of overburden is 220 m.

Special care is taken in areas of negative inphase response (due to magnetite). The quadrature channels may be the only indicators of a coincident conductor.

EM anomalies due to cultural sources are so judged if there is a coincident response in the power line monitor as seen on the analog records. If present, they are shown on maps as open squares. Conductance range estimates and inphase response amplitudes are not plotted with the anomaly symbol.

Cultural anomalies may also be caused by buildings in the exploration camp and

older debris scattered near the airstrip. The video type and analog records have been examined to locate any possible EM responses due to such sources. Line 10340 passed over the southern edge at the camp but no coincident EM response was seen. Line 10350 passed over the center of the camp at 11:14:11 (± 5 seconds). A coincident response in the power line monitor and three sharp peaks in the EM data were seen at this location. A cultural EM anomaly is indicated.

B. Analysis

The EM anomaly response amplitudes at 4600 Hz are used to determine the conductance and depth of burial of a vertical thin sheet conductor model. These data appear in Appendix II. The anomaly listings are given for each of the four survey blocks separately.

The inphase anomaly amplitude and the thin sheet conductance range as determined from the 4600 Hz response amplitudes are shown with the plotted anomaly symbols. Each anomaly is identified by flight line number and letter label.

Where the inphase response is negative, the conductance estimates are unreliable. Where the 4600 Hz inphase response is negative, the anomaly symbol is shown as an open circle with an "M" printed inside. This is intended to indicate a conductor in the presence of appreciable magnetite.

Conductive overburden will generally reduce thin sheet conductance estimates because of elevated background levels in the quadrature channels. Depth of burial estimates will in general be too small.

7.4 General Comments

EM

The maps of apparent resistivity show resistivity highs - more than 5000 ohm-m - over topographic highs and resistivity lows - less than 1000 ohm-m over the river valleys. The largest area of uniformly low apparent resistivities is over and immediately west of Galore Creek. Apparent resistivities are less than 300 ohm-m over an area some 500 m (e/w) by 2000 m (n/s). There is no clear relationship between the Central Zone deposit and the resistivity map. The deposit has coincident resistivities of 300 to 3000 ohm-m.

A number of EM anomalies have been identified and appear on selected map products as anomaly centers. Three types of EM anomalies are shown: a) normal, b) with magnetite and c) cultural. The one cultural anomaly over the exploration camp has been discussed.

The normal anomalies are seen mostly as highs in the 4600 Hz inphase and quadrature

channels and coincident lows in the 4175 Hz inphase and quadrature channels. They are thought to be caused by generally weak bedrock conductors. In some cases they may be due to edge effects at the borders of prominent resistivity lows. Conductance estimates are uniformly low - less than 1 mho. These anomalies are common in the Galore Creek valley.

An almost equal number of EM anomalies which show coincident magnetite have been picked. These anomalies are seen in the 4600/4175 Hz quadrature channels only as the inphase channels are negative due to near surface magnetite.

Negative inphase EM anomalies which show little or no positive quadrature response are common. Their responses indicate near surface magnetite with no detectable electrical conductor. They are best represented in the map of apparent weight percent magnetite.

The Central Zone shows a number of weak EM anomalies over its southern and central parts. In the south, EM anomalies are near the edge of the deposit and often show an M indicating a conductor in the presence of magnetite.

The north end of the Central Zones shows few anomalies. This is an area of relatively low resistivities - thicker overburden would explain this feature and the absence of EM conductors or detectable magnetite over this part of the deposit.

The greatest concentration of EM responses is in an e/w band centered 500 m south of the Central Zone deposit. The North Junction deposit has no coincident EM anomalies.

Magnetics

The total field magnetic map shows a range of values from about 56,500 to over 60,000 nT. The lower amplitudes are generally found in the valleys and the higher amplitudes are found over the mountain tops. The bulk of the Central Zone has coincident total field magnetic values of 57,000 to 57,500 nT. and would overall be characterized as having a coincident magnetic low. A 1000 nT (30 nT/m) magnetic anomaly parallels the deposit immediately to the west.

The much smaller North Junction deposit is found in an area with background total field amplitudes of 58,200 to 58,400 nT. A local magnetic high - peak values of 58,600 nT - is just west of the deposit.

The contoured vertical gradient map shows the expected increased resolution of shallow magnetic sources. Although a general nne/ssw trend persists over most of the survey area, a number of VG anomalies are circular or arcuate with no preferred strike direction. Anomaly amplitudes over and to the east of the Central Zone are relatively low.

A number of possible faults have been taken from the contoured vertical gradient map

(see section 7.5 below). Common strike directions near the Central Zone are n/s, e/w and ne/sw. some nw/se trending faults are indicated to the southwest. Faults which should cross the mineralized zone are not seen over the deposit.

Taking magnetic axes and possible faults from the contoured vertical gradient data assumes navigational quality sufficient to produce a good quality total field map. Where the total field map is best, i.e., in the center of the survey area, the vertical gradient results are more reliable.

The contour maps of apparent weight percent magnetite show strong local concentrations of magnetite in parts of the survey area. Anomalous magnetite is found in two broad bands which trend ne/sw and in an arcuate band just south of the Central Zone deposit. The two bands parallel the long axis of the Central Zone but are centered some 1500 m southeast and northwest of the deposit.

The area of the Central zone is notable for the almost complete lack of measurable weight percent magnetite. This applies to both data sets - e/w and n/s survey lines. The band of anomalous magnetite south of the Central Zone is unusual in that its trend is normal to the local total field magnetics. The band crosses from west to east from an area of high background values - more than 57,750 nT - to an area of low background values - less than 57,000 nT. This apparent inconsistency may be due to the different sampling depths of the magnetic and EM methods. The pattern over the low background areas south of the deposit suggests a thin near surface horizontal layer of anomalous magnetite.

Apparent magnetite maps should be viewed with the following in mind. Unlike the magnetometer, the EM system response to conductors or magnetic bodies is strongly dependent as source-sensor separation. A large concentration of magnetite at surface will appear as both a magnetic anomaly and anomalous weight percent magnetite. The same source at depths of 50 m or more will be seen only as a magnetic anomaly.

VLF

The contoured VLF total field map shows occasional anomalies of intermediate amplitude (10%) and short strike length (500m). They are scattered over the survey area and show a variety of strike directions.

The greatest concentration of anomalous VLF responses are over and near the southern end of the Central Zone. Peak amplitudes reach +10% and -10%. Strike directions are nne/ssw. These responses end abruptly at line 10400 which divides the deposit in half. This behaviour is sometimes interpreted as due to faulting.

Radiometrics

The Total Count and Potassium contour maps show broad prominent highs over the south end and just north of the Central Zone. Peak potassium values exceed 100 cps. Background values are on the order of 10 to 20 cps. As a rule of thumb, a potassium count rate of 20 cps from a 512 cu in crystal sensor indicates a surface concentration of 1% Potassium.

An equally strong potassium anomaly trends nnw/sse in the southwest part of the survey area.

The band of low count rates across the middle of the Central Zone may be due to overburden. If this is the case, the deposit may be situated in the center of a larger n/s band of high potassium.

7.5 Compilation Map

The compilation map shows the following geophysical features:

- EM conductor axes
- the 57,500 and the 58,000 nT contour lines
- possible faults
- areas of high potassium (greater than 75 cps)
- outline of the Galore Creek copper deposit (Central Zone and North Junction)
- favourable area labels

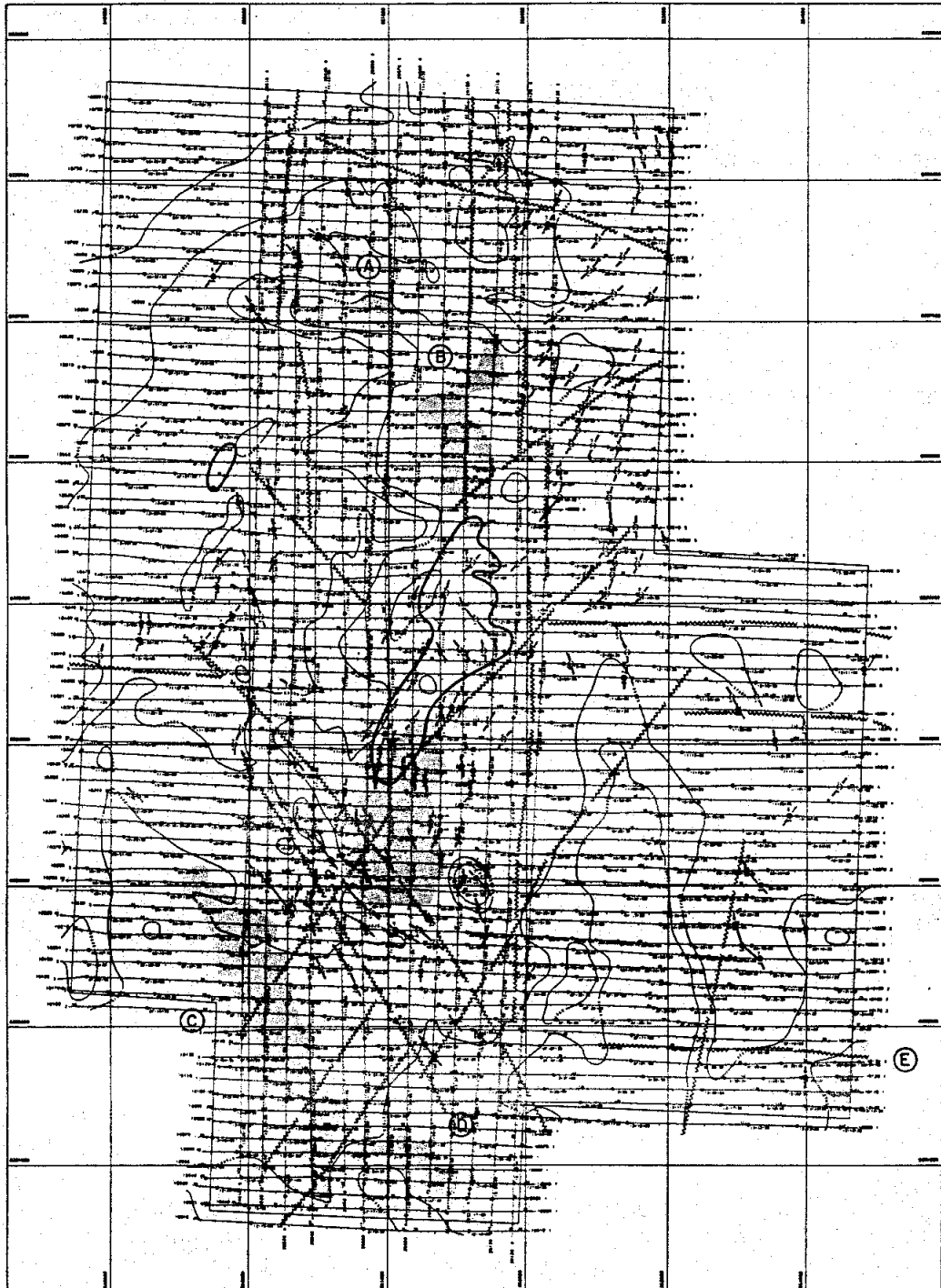
Conductor axes are drawn through EM anomaly centers for EM anomalies of like character. Consistency with local magnetic strike may be a factor.

The 57,500 nT contour line is used to separate areas of low and high background total field magnetic field amplitudes. The 58,000 nT contour line is used to define peak areas.

Possible faults are taken from breaks and discontinuities in the black line contoured vertical gradient map.

Areas of high radiometric potassium count rates are defined by the 75 cps contour line. Background values are 10 to 20 cps. These count rates translate roughly to anomalous ground concentrations of 4% in a background of 0.5 to 1%.

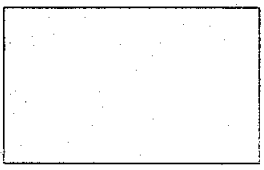
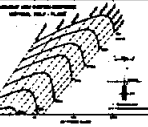
The outlines of the Central Zone and North Junction deposits have been taken from the article by Allan et al, cited above.



FLOOD PATH
 50 FT HIGH WINDS FROM
 100 FT HIGH SEA
 AIR SPEED 100 KNOTS
 100 FT HIGH SEA 100
 AIR SPEED 100 KNOTS
 100 FT HIGH SEA 100
 AIR SPEED 100 KNOTS

FM AERODAT 130
 Symbols for the various elements

INTERPRETATION LEGEND



KENNEDY CANALS INC.	
INTERPRETATION	
GALORE CREEK PROPERTY	
SCALE 1:10,000	
AERODAT LIMITED	DATE: JUNE 1991
	BY: 104 G/2
	REF: 3

Favourable area labels are shown as a letter (A to E). Discussion about these areas is given below.

7.6 Favourable Areas

From the general comments in section 7.4 above, it is clear that the large Central Zone of the Galore Creek copper deposit is characterised for the most part by the lack of coincident geophysical responses. The deposit has been seen as an area of

- low background total magnetic field amplitudes and reduced magnetic relief
- no measurable magnetite
- no distinctive EM or VLF responses
- high potassium count rates (southern part only).

Further exploration may therefore be concentrated in areas with a similar largely negative geophysical setting. This includes a possible extension of the Central Zone to the south and the five favourable areas labelled A to E. These are all areas of high potassium count rates. All but area D are found in areas of low magnetic field strength - i.e., below 57,500 nT. In almost all cases the high potassium region defined by the 75 cps contour line shares a border with the 57,500 nT contour line. This complimentary pattern, which has no geological explanation, is remarkable.

Each target is identified by the survey line and 24 hour clock time of the center of the potassium peak. Possible ground targets are therefore

- A: Line 10660 (8:15:41) *
- B: Line 10590 (7:43:42) *
- B: Line 10540 (7:18:40) *
- C: Line 10220 (9:04:16)
- C: Line 10150 (7:13:40) *
- C: Line 10090 (13:08:06) *
- D: Line 10050 (12:55:02)
- E: Line 10110 (13:27:02) *

Extensions to the Central Zone to the south might be looked for as far south as line 10260 (9:39:30).

Of all the targets given under the heading A through E, the most promising are those accompanied by an asterisk. The other two have higher background magnetic values.

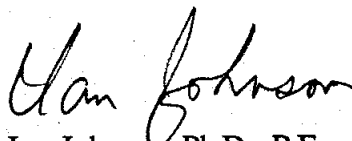
It is understood that the location of peak potassium count rates is meant to indicate an area of interest and not a geophysical target in the sense of an EM conductor for example. The measured radiometric count rates are a function of the potassium concentration in rock and the masking effects of water, overburden, snow/ice and vegetation. Variations in measured potassium may be caused entirely by variations in masking.

8. CONCLUSIONS

High resolution helicopterborne geophysical surveys have been completed over an area of about 35 square kilometres centered in the Galore Creek area about 175 km northwest of Stewart, B.C. Total coverage is approximately 459 line kilometres. Results are presented on black line and colour maps at scales of 1:10,000. Map types include EM anomaly centres, apparent resistivity, contoured magnetic field, contoured vertical magnetic gradient, contoured VLF-EM Total Field, contoured apparent weight percent magnetite and contoured radiometric data - total count, potassium, uranium and thorium.

Preferred geophysical characteristics have been built up from a model geological target. These characteristics have been extracted from various map products and transferred to a compilation/interpretation map. Favourable areas are discussed with reference to this compilation map.

Respectfully submitted,



Ian Johnson, Ph.D., P.Eng.
Consulting Geophysicist
for
AERODAT LIMITED
August 18, 1991.

J9135



APPENDIX II

ANOMALY LIST

J9135 - KENNECOTT CANADA INC. ANOMALY LIST - GALORE CREEK PROPERTY

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM)		CONDUCTOR		BIRD HEIGHT MTRS
				INPHASE	QUAD.	CTP MHOS	DEPTH MTRS	
1	10120	A	MAGN 0	-9.3	5.1	0.0	0	20
2	10130	A	MAGN 0	-4.8	11.4	0.0	0	47
2	10140	A	MAGN 0	-2.1	9.1	0.0	0	39
2	10180	A	MAGN 0	-1.0	13.4	0.0	0	43
2	10190	A	MAGN 0	-7.9	9.2	0.0	0	30
2	10190	B	MAGN 0	-6.6	7.6	0.0	0	40
2	10190	C	0	0.3	10.2	0.0	0	49
2	10190	D	0	0.3	10.3	0.0	0	37
3	10201	A	MAGN 0	-9.2	25.2	0.0	0	29
3	10210	A	MAGN 0	-3.9	14.6	0.0	0	22
3	10210	B	0	3.3	9.8	0.1	0	55
3	10220	A	0	2.2	7.5	0.0	2	41
3	10220	B	MAGN 0	-6.6	13.9	0.0	0	27
3	10220	C	MAGN 0	-46.0	40.9	0.0	0	19
3	10220	D	0	2.8	28.2	0.0	0	35
3	10220	E	MAGN 0	0.5	9.2	0.0	0	45
3	10230	A	MAGN 0	-0.5	3.8	0.0	0	37
3	10230	B	MAGN 0	-2.2	8.6	0.0	0	43
3	10230	C	0	4.6	14.6	0.1	0	44
3	10230	D	0	4.3	15.3	0.1	0	37
3	10240	A	0	4.2	20.5	0.0	0	37
3	10240	B	0	7.4	19.0	0.2	0	35
3	10240	C	MAGN 0	0.0	48.6	0.0	0	28
3	10240	D	MAGN 0	-2.2	7.2	0.0	0	39
3	10250	A	MAGN 0	2.6	33.3	0.0	0	29
3	10250	B	0	6.6	23.6	0.1	0	39
3	10260	A	0	0.7	9.8	0.0	0	35
3	10260	B	MAGN 0	-2.0	23.5	0.0	0	31
3	10260	C	MAGN 0	-13.6	25.9	0.0	0	39
3	10260	D	MAGN 0	-6.7	5.3	0.0	0	41
3	10270	A	MAGN 0	-7.7	7.2	0.0	0	38
3	10270	B	MAGN 0	-5.7	10.1	0.0	0	45

Estimated depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or overburden effects.

J9135 - KENNECOTT CANADA INC. ANOMALY LIST - GALORE CREEK PROPERTY

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM)		CONDUCTOR		BIRD HEIGHT MTRS	
				INPHASE	QUAD.	CTP MHOS	DEPTH MTRS		
3	10270	C	MAGN	0	-0.5	28.7	0.0	0	30
3	10270	D		0	6.2	26.2	0.1	0	38
4	10280	A	MAGN	0	-1.0	40.7	0.0	0	28
4	10290	A	MAGN	0	-0.3	22.5	0.0	0	34
4	10290	B	MAGN	0	-3.4	14.9	0.0	0	36
4	10300	A		0	2.8	31.2	0.0	0	32
4	10300	B	MAGN	0	-9.3	36.9	0.0	0	30
4	10300	C	MAGN	0	-45.2	41.7	0.0	0	18
4	10300	D	MAGN	0	-14.9	18.9	0.0	0	25
4	10300	E	MAGN	0	-2.6	21.6	0.0	0	25
4	10310	A	MAGN	0	-23.7	6.8	0.0	0	16
4	10310	B		0	3.2	27.3	0.0	0	34
4	10310	C		0	1.2	7.1	0.0	18	19
4	10320	A		0	0.1	25.9	0.0	0	35
4	10320	B	MAGN	0	-2.2	21.8	0.0	0	30
4	10320	C	MAGN	0	-5.5	35.2	0.0	0	23
4	10330	A		0	1.3	13.7	0.0	0	37
4	10330	B	MAGN	0	0.7	25.7	0.0	0	30
4	10330	C	MAGN	0	-3.3	16.3	0.0	0	33
4	10330	D	MAGN	0	-4.3	12.0	0.0	0	33
4	10330	E	MAGN	0	1.9	6.7	0.0	4	41
4	10340	A	MAGN	0	-2.5	13.0	0.0	0	32
4	10340	B		0	0.0	8.8	0.0	0	48
4	10340	C	MAGN	0	-8.1	16.5	0.0	0	29
4	10340	D	MAGN	0	-12.2	23.1	0.0	0	26
4	10340	E	MAGN	0	-6.9	23.0	0.0	0	22
4	10340	F	MAGN	0	-11.3	34.1	0.0	0	20
4	10350	A	CULT	0	16.4	36.7	0.4	2	26
4	10350	B	MAGN	0	1.4	14.4	0.0	0	33
4	10350	C		0	2.7	8.8	0.0	0	45
4	10360	A		0	3.9	23.4	0.0	0	46
4	10360	B	MAGN	0	-8.4	48.0	0.0	0	20
4	10360	C		0	2.5	12.2	0.0	0	41
4	10360	D	MAGN	0	-10.0	9.8	0.0	0	39
4	10370	A		0	3.8	17.9	0.0	0	49

Estimated depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or overburden effects.

J9135 - KENNECOTT CANADA INC. ANOMALY LIST - GALORE CREEK PROPERTY

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM)		CONDUCTOR		BIRD
				INPHASE	QUAD.	CTP MHOS	DEPTH MTRS	HEIGHT MTRS
4	10370	B	0	2.6	17.7	0.0	0	34
4	10370	C	0	2.0	15.0	0.0	0	39
4	10381	A	0	2.6	9.2	0.0	0	53
4	10381	B MAGN	0	2.3	59.5	0.0	0	24
4	10381	C MAGN	0	1.2	43.3	0.0	0	28
4	10381	D MAGN	0	-8.6	13.6	0.0	0	33
4	10390	A	0	8.9	35.0	0.1	0	34
4	10390	B	0	3.5	27.5	0.0	0	38
4	10390	C	0	2.1	14.1	0.0	0	41
5	10400	A	0	1.5	9.0	0.0	0	69
5	10400	B MAGN	0	-4.5	11.1	0.0	0	33
5	10410	A MAGN	0	-2.9	34.8	0.0	0	33
5	10410	B	0	-0.2	10.8	0.0	0	31
5	10410	C	0	0.9	8.0	0.0	0	36
5	10420	A MAGN	0	-4.3	5.5	0.0	0	31
5	10420	B MAGN	0	-6.2	13.9	0.0	0	34
5	10420	C MAGN	0	-1.0	13.5	0.0	0	52
5	10420	D	0	-0.1	9.3	0.0	0	40
5	10420	E MAGN	0	-2.7	5.7	0.0	0	43
5	10420	F	0	-0.1	46.3	0.0	0	26
5	10420	G	0	2.0	68.7	0.0	0	21
5	10420	H	0	3.2	20.0	0.0	1	24
5	10420	J	0	-1.7	18.4	0.0	0	32
5	10430	A	0	4.7	16.5	0.1	0	37
5	10430	B MAGN	0	-5.9	15.3	0.0	0	35
5	10430	C MAGN	0	-4.6	6.4	0.0	0	19
5	10430	D MAGN	0	-2.1	7.0	0.0	0	22
5	10440	A MAGN	0	0.1	13.0	0.0	0	33
5	10440	B	0	4.5	12.4	0.1	3	36
5	10440	C	0	6.7	17.0	0.2	0	39
5	10450	A	0	8.6	14.3	0.4	0	51
5	10450	B MAGN	0	-0.2	7.6	0.0	0	35
5	10460	A MAGN	0	-0.4	13.3	0.0	0	38
5	10460	B MAGN	0	4.8	7.3	0.4	7	48
5	10460	C	0	4.5	14.7	0.1	0	44
5	10460	D	0	10.1	15.2	0.5	0	54

Estimated depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or overburden effects.

J9135 - KENNECOTT CANADA INC. ANOMALY LIST - GALORE CREEK PROPERTY

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM)		CONDUCTOR		BIRD
				INPHASE	QUAD.	CTP MHOS	DEPTH MTRS	HEIGHT MTRS
5	10460	E	0	9.9	18.0	0.4	6	32
5	10470	A	0	15.8	38.2	0.3	0	37
5	10470	B	0	10.6	16.7	0.5	0	40
5	10480	A	0	0.0	7.2	0.0	0	39
5	10480	B	0	-1.3	7.3	0.0	0	29
5	10480	C	0	-0.1	7.5	0.0	0	36
5	10480	D	0	4.8	12.1	0.1	0	51
5	10480	E	0	14.3	27.7	0.4	0	53
5	10480	F	0	12.8	22.3	0.5	0	35
5	10490	A	0	6.5	14.0	0.2	0	41
5	10500	A	0	7.1	14.0	0.3	0	42
5	10510	A	0	4.4	13.3	0.1	0	55
5	10510	B	0	5.6	9.6	0.3	0	54
5	10520	A MAGN	0	0.0	9.7	0.0	0	34
5	10520	B	0	3.7	13.8	0.0	0	54
6	10530	A MAGN	0	-4.2	9.0	0.0	0	34
6	10530	B	0	8.7	16.0	0.4	0	45
6	10530	C	0	12.8	31.1	0.3	0	30
6	10550	A	0	6.1	10.4	0.3	0	49
6	10550	B	0	7.8	17.7	0.2	0	52
6	10570	A MAGN	0	-5.7	5.8	0.0	0	33
6	10570	B	0	6.3	13.7	0.2	14	26
6	10570	C	0	12.3	21.5	0.5	0	49
6	10570	D	0	11.9	28.7	0.3	0	47
6	10580	A	0	5.8	11.8	0.2	10	33
6	10590	A	0	13.5	24.1	0.5	0	48
6	10600	A	0	7.5	11.6	0.4	0	49
6	10600	B	0	6.2	12.5	0.3	14	28
6	10600	C	0	3.1	10.2	0.1	0	43
6	10610	A	0	5.4	7.8	0.4	12	42
6	10610	B	0	6.4	7.5	0.6	0	77
6	10620	A	0	5.8	8.0	0.5	7	47

Estimated depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or overburden effects.

J9135 - KENNECOTT CANADA INC. ANOMALY LIST - GALORE CREEK PROPERTY

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM)		CONDUCTOR		BIRD
				INPHASE	QUAD.	MHOS	DEPTH	HEIGHT
							MTRS	MTRS
6	10620	B	0	4.0	7.3	0.2	12	41
6	10630	A	0	2.4	10.3	0.0	0	51
6	10640	A	0	8.2	18.4	0.3	0	47
6	10660	A	0	4.3	9.6	0.2	0	51
6	10660	B MAGN	0	-3.3	4.7	0.0	0	30
6	10670	A	0	1.6	8.8	0.0	0	58
7	10680	A MAGN	0	-11.9	4.5	0.0	0	31
7	10680	B	0	8.8	14.2	0.4	9	34
7	10680	C	0	7.8	9.8	0.6	3	48
7	10690	A	0	5.8	13.7	0.2	0	39
7	10700	A MAGN	0	-5.1	5.2	0.0	0	33
7	10700	B	0	6.4	14.2	0.2	0	48
7	10710	A	0	5.4	9.5	0.3	3	45
7	10710	B MAGN	0	-9.0	5.1	0.0	0	19
7	10720	A MAGN	0	-4.0	10.8	0.0	0	37
7	10720	B MAGN	0	-12.1	17.0	0.0	0	26
7	10730	A MAGN	0	-4.2	8.0	0.0	0	44
7	10740	A MAGN	0	-12.2	6.6	0.0	0	24
7	10740	B MAGN	0	-1.6	9.3	0.0	0	35
7	10740	C	0	2.7	12.4	0.0	0	46
7	10750	A	0	2.6	7.9	0.1	0	48
7	10760	A	0	-0.8	19.9	0.0	0	34
7	10770	A	0	-0.5	7.3	0.0	0	46
7	10770	B MAGN	0	-1.9	9.2	0.0	0	48
7	10780	A	0	5.8	12.6	0.2	4	37
7	10780	B	0	2.1	10.0	0.0	0	53
7	10790	A	0	2.7	10.5	0.0	0	55
7	10790	B MAGN	0	-7.5	8.2	0.0	0	19

Estimated depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or overburden effects.

J9135 - KENNECOTT CANADA INC. ANOMALY LIST - GALORE CREEK PROPERTY

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM)		CONDUCTOR		BIRD	
				INPHASE	QUAD.	CTP	DEPTH	HEIGHT	
						MHOS	MTRS	MTRS	
8	20010	A	MAGN	0	-4.2	26.6	0.0	0	30
8	20010	B		0	0.1	23.5	0.0	0	28
8	20010	C	MAGN	0	-12.1	5.3	0.0	0	24
8	20020	A	MAGN	0	-40.6	7.4	0.0	0	21
8	20020	B	MAGN	0	-2.2	17.0	0.0	0	41
8	20020	C	MAGN	0	1.9	26.1	0.0	0	31
8	20030	A	MAGN	0	-3.6	26.8	0.0	0	24
8	20030	B	MAGN	0	-6.9	35.4	0.0	0	20
8	20030	C		0	1.1	6.6	0.0	8	30
8	20040	A	MAGN	0	-6.2	27.0	0.0	0	27
8	20040	B	MAGN	0	-11.1	56.7	0.0	0	22
8	20040	C	MAGN	0	-6.0	42.8	0.0	0	23
8	20040	D	MAGN	0	-2.4	28.6	0.0	0	27
8	20040	E	MAGN	0	-10.9	24.6	0.0	0	21
8	20050	A	MAGN	0	-27.0	36.0	0.0	0	20
8	20050	B	MAGN	0	-20.9	21.8	0.0	0	22
8	20060	A		0	0.6	15.4	0.0	0	32
8	20060	B		0	-2.0	7.4	0.0	0	37
8	20060	C	MAGN	0	-7.6	10.4	0.0	0	34
8	20070	A	MAGN	0	-5.7	12.1	0.0	0	40
8	20070	B	MAGN	0	-4.0	13.2	0.0	0	26
8	20070	C	MAGN	0	-6.1	14.1	0.0	0	28
8	20070	D		0	7.5	19.3	0.2	0	36
8	20070	E		0	0.2	17.2	0.0	0	44
8	20080	A	MAGN	0	-2.0	18.6	0.0	0	41
8	20080	B		0	4.6	14.9	0.1	0	43
8	20080	C		0	4.1	30.6	0.0	0	36
8	20080	D	MAGN	0	-4.3	15.7	0.0	0	20
8	20080	E	MAGN	0	-5.5	15.8	0.0	0	30
8	20080	F	MAGN	0	-4.1	14.5	0.0	0	31
8	20080	G	MAGN	0	-15.6	13.9	0.0	0	31
8	20090	A	MAGN	0	-23.3	36.4	0.0	0	22
8	20090	B	MAGN	0	-47.6	43.8	0.0	0	18
8	20090	C	MAGN	0	-15.3	35.8	0.0	0	21
8	20090	D		0	4.8	23.8	0.0	0	38
8	20090	E		0	1.9	33.2	0.0	0	31

Estimated depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or overburden effects.

J9135 - KENNECOTT CANADA INC. ANOMALY LIST - GALORE CREEK PROPERTY

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM)		CONDUCTOR		BIRD	
				INPHASE	QUAD.	CTP DEPTH	DEPTH	HEIGHT	
						MHOS	MTRS	MTRS	
8	20100	A	MAGN	0	-2.4	7.6	0.0	0	46
8	20100	B		0	4.0	38.5	0.0	0	29
8	20100	C		0	5.9	12.8	0.2	0	43
8	20100	D		0	4.2	17.2	0.0	5	26
8	20100	E	MAGN	0	-16.0	37.5	0.0	0	18
8	20100	F	MAGN	0	-24.2	53.0	0.0	0	17
8	20100	G	MAGN	0	3.0	35.5	0.0	0	33
8	20100	H	MAGN	0	-1.2	18.8	0.0	0	29
8	20100	I	MAGN	0	-5.0	9.1	0.0	0	28
8	20110	A	MAGN	0	-7.4	5.9	0.0	0	32
8	20110	B	MAGN	0	-24.1	13.2	0.0	0	24
8	20110	C	MAGN	0	-42.2	34.8	0.0	0	26
8	20110	D	MAGN	0	-51.5	25.3	0.0	0	28
8	20110	E		0	8.8	18.2	0.3	0	43
8	20110	F	MAGN	0	-4.0	9.0	0.0	0	39
8	20120	A	MAGN	0	-2.1	6.8	0.0	0	48
8	20120	B		0	6.1	18.1	0.1	0	36
8	20120	C	MAGN	0	-1.5	20.0	0.0	0	30
8	20130	A		0	5.7	18.8	0.1	4	28
8	20130	B	MAGN	0	-2.6	9.2	0.0	0	34

Estimated depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or overburden effects.

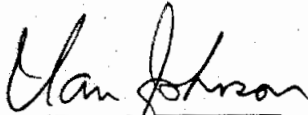
APPENDIX III
CERTIFICATE OF QUALIFICATIONS

I, IAN JOHNSON, certify that:

1. I am registered as a Professional Engineer in the Province of Ontario.
2. I reside at 38 Tinti Place in the town of Thornhill, Ontario.
3. I hold a Ph.D. in Geophysics from the University of British Columbia, having graduated in 1972.
4. I have been continuously engaged in both professional and managerial roles in the minerals industry in Canada and abroad for the past fourteen years.
5. The accompanying report was prepared from published or publicly available information and material supplied by Kennecott Canada Inc. and Aerodat Limited in the form of government reports and proprietary airborne exploration data. I have not personally visited the specific property.
7. I have no interest, direct or indirect, in the property described nor in Kennecott Canada Inc.
8. I hereby consent to the use of this report in a Statement of Material Facts of the Company and for the preparation of a prospectus for submission to the appropriate securities commission and/or other regulatory authorities.

J9135
Thornhill, Ontario
August 21, 1991

Signed,


Ian Johnson, Ph.D., P. Eng.



APPENDIX IV

PERSONNEL

FIELD

Flown June 23 to June 25, 1991

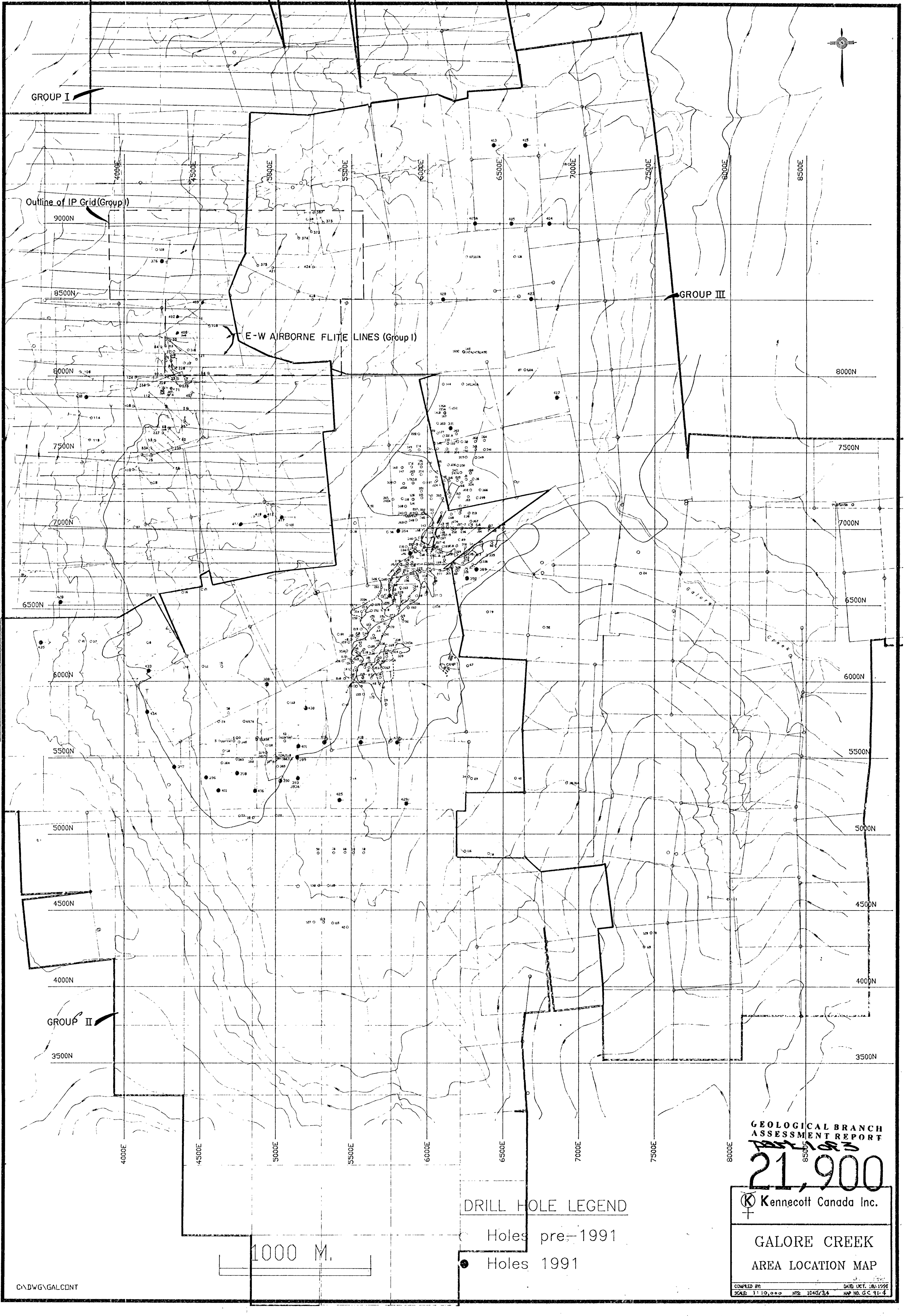
Pilots Del Rokosh

Operators Steve Arstad

OFFICE

Processing Tom Furuya
 George McDonald

Report Ian Johnson



GROUP I

Outline of IP Grid (Group I)

E-W AIRBORNE FLITE LINES (Group I)

GROUP III

GROUP II

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,900

Kennecott Canada Inc.

GALORE CREEK
AREA LOCATION MAP

DRILL HOLE LEGEND

Holes pre-1991

Holes 1991

1000 M.