ARIS SUMMARY SHEET

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District Geol	ogist, Smithers Off Confidential: 90.02.22
ASSESSMENT RE	PORT 18782 MINING DIVISION: Skeena
PROPERTY: LOCATION: CLAIM(S): OPERATOR(S): AUTHOR(S): REPORT YEAR: COMMODITIES SEARCHED FOR:	Bear River LAT 56 07 00 LONG 129 45 00 UTM 07 6219104 453363 NTS 104A04E 104A04W Copper Lord,Bear 8-9,Kid Lo, B.S. Sookochoff, L. 1989, 17 Pages
WORK	Andesites,Iron formation,Quartz Veins,Chalcopyrite,Gold Arsenopyrite
DONE: Pro	specting S 12.0 ha
ROC MINFILE:	K 25 sample(s) ;CU,PB,ZN,AU,AG 104A 029

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Illustrations

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Figure 1 Location Figure 2 Claim Map Figure 3 Geology and Sample Location

Appendix 1 Assays

Prospecting Report

on the

Bear River Property

INTRODUCTION

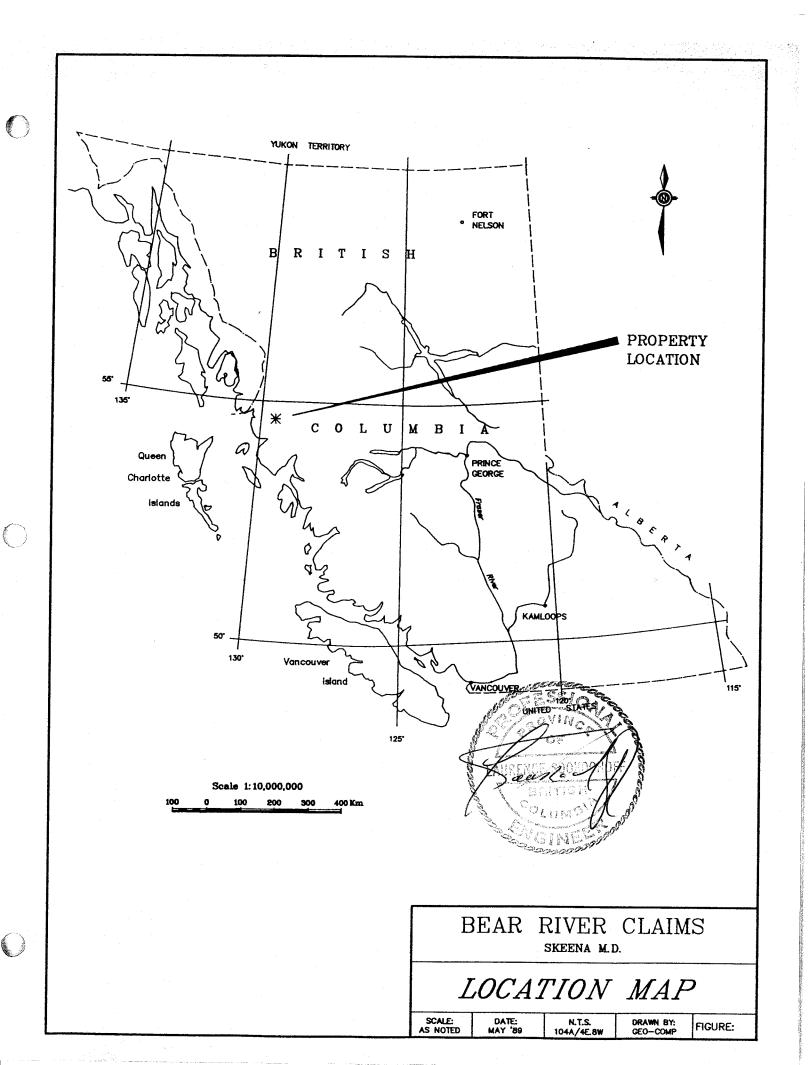
During the period of August 4, 1988 to August 11, 1988 a prospecting progam was carried out on the Bear River property. The program was performed in order to locate areas of mineralization which may upon additional exploration and development be developed into potentially economic zones.

PROPERTY

The property consists of a contiguous group of 15 contiguous reverted crown grants. Particulars are as follows:

<u>Claim</u>	Lot No.	<u>Record_N</u>	o. Expiry Date*
Dempsey Fr.	539 6	5841	February 27,1990
Bear # 6	5337	5842	February 27,1990
Bear # 8	533 9	5843	February 27,1990
Bear # 9	534 0	5844	February 27,1990
Ice Worm # 1	494 2	5845	February 27,1990
Ice Worm # 2	4944	5846	February 27,1990
Ice Worm Fr.	4943	5847	February 27,1990
Big Gulch	479 7	5848	February 27,1990
Kid	479 9	5849	February 27,1990
Kid Fr.	480 0	5850	February 27,1990
Copper King # 1	479 0	5851	February 27,1990
Copper King # 2	479 2	5852	February 27,1990
Canyon	4798	5911	March 12,1990
Copper Lord	478 2	6068	May 5,1990
Copper King	478 0	6171	June 8,1990
*Upon the appro February 27, 1989		one years a	ssessment work applied

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LOCATION and ACCESS

The property is located 28 kilometers northeast of Stewart covering and south of Bear River with the easternmost boundary at Snow Lake.

The Stewart-Cassiar Highway parallels the Bear river in this area providing access to the northern portion of the claim group. For the southern portion helicopter access would be required.

PHYSIOGRAPHY

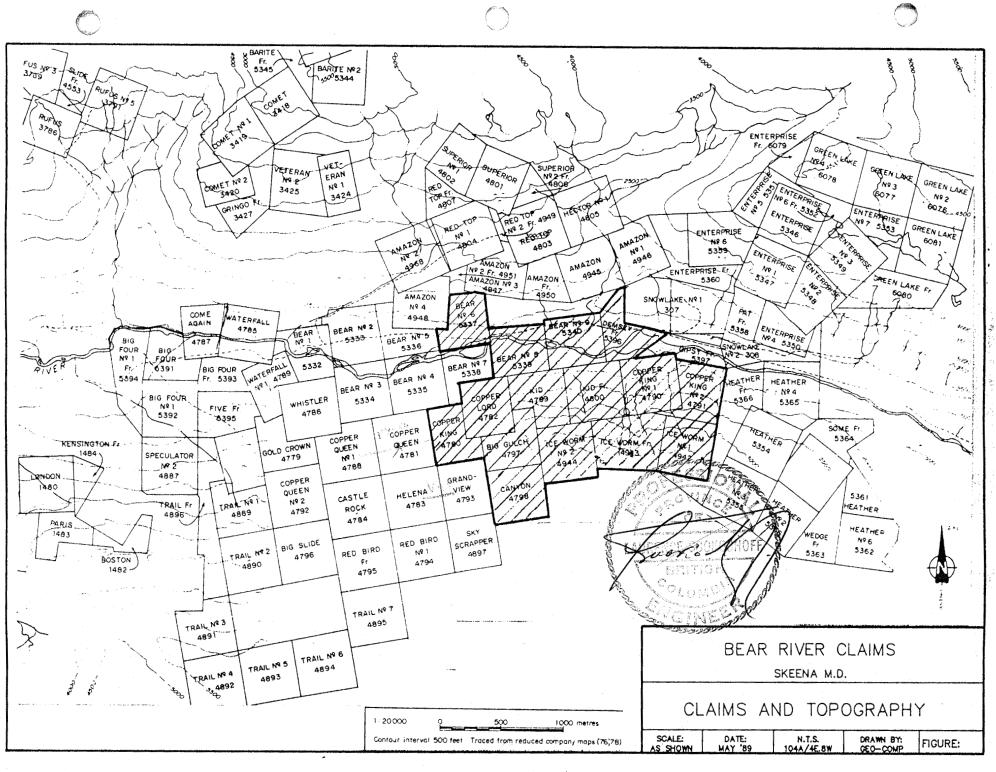
Elevations on the property range from approximately 300 to 1700 meters above sea level. The valley slopes are steep to precipitous with hanging glaciers entering the Bear River valley from the south.

Heavy winter snowfall and moderate summer rainfall are usual. The exploration season is relatively short with earliest access by mid June with work possible until the end of September.

HISTORY

Exploration work on the property commenced in the early 1900's with a 1918 Minister of Mines Report reporting that on a property owned by George Copper Mines, the White Vein which is in part covered by the Copper King and Copper Lord claims, "was opened up this year in two more place by open cuts, making five cuts or exposures on this vein."

In 1925 Consolidated Mining and Smelting Company took an option on a property owned by George Gold Copper Mining Co.,Ltd. on the south side of the Bear River, completed "about 2,200 feet of diamond drilling...but the results were inconclusive. No. 1 hole was drilled to a depth of 1,174 feet and No. 2 hole had to be abandoned for the season at 1,027 feet because the water for drilling became frozen."



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ورجر محمدات كالراواتين بالتعليلة الرك التنقائل بوسية

In 1976 Tournigan Mining Explorations Ltd. acquired a block of 116 claims in the Bear River area which included the claims reported on herein and which were part of the property owned by George Copper Mines. The common claims are the Copper Lord and the Copper King claims. On the George gold-copper claims a report states that "the beginnings of an ore body have been indicated by drilling conducted in the 1920's (six holes were drilled from 1927 to 1929 to test the downward extension of the veins) and by Tournigan in 1976."

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In 1929, Consolidated Mining and Smelting Company of Canada acquired control of the George Gold Copper Mining Co. and completed 1,466 feet of diamond drilling.

GEOLOGY

The geology of the George Copper property, which includes the Copper King and the Copper Lord claims of the Bear River property, was in a 1976 report reported on by Smitheringale that the sequence of rocks is comprised of generally massive, fine grained flow and/or pyroclastic or volcanoclastic rocks of andesitic composition. These rocks are overlain by a unit composed of a cherty iron formation which extends to the east and the west. Above this unit are andesitic breccias and tuffs.

Four well defined copper and gold bearing, fracture controlled veins which occur on the Helena and the Grandview claims adjacent and west of the Bear River property trend northeasterly to and through the Copper King and the Copper Lord claims of the Bear River property. Three of these veins, reported on in a 1927 Minister of Mines Report, were designated as the "Blue," "Jasper," and "White" veins.

The Blue vein, traceable for 1,000 feet on surface, is a well defined fissure vein from three to 10 feet wide striking N.70 and dipping at about 65 south . The vein branches at the \mathbf{E} upper end with the hanging wall branch continuing for a short distance before pinching to a stringer. The foot wall branch, designated as the Jasper vein, continues for about 200 feet and is from four to five feet wide consisting of finely banded jasper. An easterly extension of this Blue and Jasper vein is represented by a zone in the greenstones cut by a network of narrow quartz stringers carrying variable amounts of sulphides.

The White vein, traceable for 2,000 feet on surface, lies northeast of the Jasper vein and is cut by numerous stringers of quartz and sulphides.

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MINERALIZATION

The veins contain quartz, hematite, magnetite, epidote, chlorite, barite, pyrite, arsenopyrite and chalcopyrite. Gold is associated with the arsenopyrite.

Assays of samples from the veins are reported in the Minister of Mines Reports as follows: (The samples are from the vein on the adjacent claims to the west of the Bear River property.)

<u>Vein</u>	Width <u>feet</u>	Gold <u>oz/ton</u>	Silver <u>oz/ton</u>	Copper &	Lead
Blue	6.5 10	0.06 0.19	0.40	2.9 3.0	-
White	14 1.5 (H W) 3.0	0.01 Tr -	$0.40 \\ 0.40 \\ 0.40$	1.1 8.8 14	- - -

The statabound or volcanogenic mineralization in the argillite-tuff-iron formation unit on the adjacent property returned assays of samples reported as follows.

1) A 115 foot sample from both walls of the adit returned 0.895 % copper.

			<u>Cu%</u>	<u>Ag oz/ton</u>	<u>Au oz/ton</u>
2)	DDH No.4	110' - 120'	1.86	0.42	Tr
		222.5- 232'	1.60	0.26	Tr
		242' - 263'	1.02	0.09	Tr
		275' - 284.5'	0.62	0.33	Tr
		12351 -12561	0 55	0 19	ጥሎ

1988 PROSPECTING PROGRAM

In the prospecting program, helicopter access was required to obtain access to the southern portion of the property. From a base camp established on the south shore of Bear River, traverses were made over accessible portions of the claims between Bear River and the precipitous topography to a maximum of 150 meters south of Bear River.

In the traverses, rock samples were selected for analysis which exhibited indications of mineralization such as the containment of chalcopyrite, pyrite or limonitic weathering. Twenty - seven rock samples were sent to Acme Analytical Laboratories of Vancouver for analysis. Sample description and assay results are as follows.

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-5-Sample No. Description Cu Au ppmppb Andesite: siliceous; moderate patches CLR 3 14 3 and diss py; heavy dk brn limonitic weathered Dacite; brn; fg; lt brn weathering B21+6 15 83 CLR 1 Greenstone: heavy py splashes on fr 34 6 surfaces; brn to ylw brn weathered CLR 5 Quartz breccia: ang seriate frags up 56 3 to one cm; sil'd, aph lt gry matrix; patchy lim; rare diss py B 13 Quartzite: grn gry; lt grn brn weathered 1 1 Quartzite breccia: grn aph matrix; ang B21+8 13 5 -one cm frags; rare fg py Quartzite: lustrous white sugary tex; lt-B8 F1 7 3 med brn weathered B 11 Greenstone: calcareous; diss & pods py 7 3 Dacite: grn gry; calc; aph; lt gry B 22 17 2 weathered B 22 Dacite: carb breccia vn w/ loc hvy lim 281 8 B 1 Monzonite: hyp grn tex; patchy chlorite 9 2 & mariposite grn Dacite: 1t gry; qtz-carb vn w/ heavy CLR 1A 26 3 brn lim B6 F1 Greenstone: porph; obscure wte fels 21 6 phenos; lt-mod diss py; lt brn weathered Andesite: grn blk; calc; mod-heavy diss py B 21 345 61 B 3 Quartz: wte; lt sugary tex; irreg patches 2 2 lim B 17F Limonite: blebs py 23 6 B 12 Monzonite: mg seriate tex 14 2 Andesite: bl grn; calc; mod patches py B29 17 57 B 4 Anorthosite: dacitic; sphal vns; rare 7 1 blebs py Sookochoff Consultants Inc. -

Sample No Description Cu Au ppm ppb CLR 6 Quartz-fels breccia: aph grn matrix; 12 4 diss py CLR 8 Dacite: 1t gry; mod diss & pods py; 1t 9 8 orangey brn weathered B 18 Andesite: grn gry; calc; lt diss py 5 5 B 25 Dacite; gry aph; lt gry brn weathered 20 2 CLR 2 Dacite: gry calc; mod diss & splashes 12 14 py; dirty dk brn weathered B 23 Andesite: calc; occ f diss py 9 2 B 30 Trachyte: f-mg dioritic w/ red hem 19 5

The samples were collected by Patrick Crook, who completed the prospecting program. The sample descriptions were provided by the writer under whose supervision the prospecting was fulfilled

CONCLUSIONS

The results of the prospecting program have indicated that anomalous copper and gold values occur in volcanics and quartz breccias with variable amounts of pyrite or heavily limonitized and with incipient carbonate. As the purpose of the program was to determine the favorable host of potential volcanogenic mineralization, the obvious mineral zones occurring on the property were not sampled.

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RECOMMENDATIONS

It is recommended that a detailed geological mapping and sampling program be completed on the property with consideration to the known mineral trends on and adjacent to the property and the information obtained from the prospecting program.

Respectfully submitted,

SOOKOCHOFF CONSULTANTS INC.

Laurence Sookochoff, P.Eng.

May 15, 1989 Vancouver, B.C.

- Sookochoff Consultants Inc.

REFERENCES

Keyte, G. - Geological Report on the Bear Pass Property for Tournigan Mining Explorations Ltd., December 1988

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Minister of Mines Reports:

1918 - p K79 1927 - p C94 1929 - p C99

STATEMENT OF COSTS

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The field work on the Bear claim group was performed from August 4, to August 11, 1988 to the value of:

Pat Crook: 8 days @ \$ 325.	
(including camp and supplies)	\$ 2,600.00
Helicopter	372.50
Transportation: air fare and truck rental	1.130.00
Compilation and draughting	320.00
Assays	620.00
Supervision: Laurence Sookochoff, P.Eng.	
one day @ \$ 400.	400.00
Report and related costs	1,000.00

\$ 6,542.50

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APPENDIX I

Assays

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ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: MAY 5 1989 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716 DATE REPORT MAILED: May 1/89.

GEOCHEMICAL ANALYSIS CERTIFICATE

فالمعطومين المنام الردوات مرتع وترويت متماه ملتاه فيلع فالمسريات الأرار الالتار ماريتها والمراجع يرتع والروار الريمي

ICP - .500 GRAN SANPLE IS DIGESTED WITH 3NL 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 NL WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR HG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SANPLE TYPE: P1 SOIL P2 ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SANPLE.

SOOKOCHOFF CONSULTANTS INC. PROJECT BEAR FILE # 89-0997 Page 1

SAMPLE#	Cu	Pb	Zn	Ag	Au*
	PPM	PPM	PPM	PPM	PPB
CLS1	60	53	71	3.7	16
CLS2	39	46	73	1.6	14
B12	11	10	75	.2	1
B21	510	158	104	3.9	47
B21+6	83	48	133	.9	15
B22	281	585	279	4.3	8
B27	125	58	219	.5	7
B28	194	54	211	.9	23
B31	82	125	367	1.3	11
STD C/AU-S	63	42	131	7.1	49

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SOOKOCHOFF CONSULTANTS INC. PROJECT BEAR FILE # 89-0997 Page 2

SAMPLE#	Cu	Pb	Zn	Ag	Au*
	PPM	PPM	PPM	PPM	PPB
CLR1	34	6	72	.3	6
CLR1A	26	10	48	1.0	3
CLR2	12	7	53	1.0	14
CLR3	14	6	26	.2	3
CLR5	56	47	1394	3.8	3
CLR6	12	11	26	.4	4
CLR7	10	13	58	.2	5
CLR8	9	37	62	.9	3
B1	9	9	33	.2	2
B3	2	4	4	.1	2
B4	7	7	32	.1	1
B6F1	21	12	36	1.0	6
B8F1	7	6	9	.2	3
B11	60	11	109	.8	5
B12	14	20	90	.1	2
B13	1	2	2	.1	1
B15	189	485	43	10.6	162
B17F1	23	24	63	1.0	6
B18	5	6	27	.6	5
B21	345	202	381	6.1	61
B21+6	10	12	63	.3	3
B21+8	13	5	53	.1	2
B22	17	38	108	.3	5
B23	9	7	79	.5	2
B25	20	5	17	.1	2
B29	17	17	37	.9	57
B30	19	3	17	.1	5
STD C/AU-R	62	42	132	6.7	490

