

ORIENTATION GEOLOGICAL AND GEOCHEMICAL SURVEY

AERIAL PHOTOGRAPHY

KRANS GROUP

KRANS 11-16 CLAIMS

104N 10W 104N 15W

59°45'N 132°55'W

OWNER OPERATOR: CCH MINERALS

Feb 27/81

R.C. R. Robertson

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KRANS

Introduction

This report describes the results of additional soil, rock and stream sediment sampling carried out on the Krans 11-16 claims located east of Atlin, B.C. The work was carried out by CCH Resources Ltd. during August, 1980.

The Krans 11-16 claim block consists of 6 claims totalling 112 units. The ground was staked as a tin prospecting following the evaluation of the results obtained from a regional reconnaissance stream sediment sampling program carried out in 1977. Reconnaissance sampling in 1979 returned several anomalous tin values, some of which were examined in further detail in early 1980.

This report describes the results of additional soil, rock and stream pan concentrate sampling carried out by CCH Resources Ltd. personnel (now Campbell Resources Inc.), on behalf of the Cortin Joint Venture.

In the course of this work, 143 soil samples, 21 rock samples and 9 pan concentrate samples were taken.

Airphotos were taken of the area to aid further exploration.

To date the results have not confirmed the presence of an economic tin deposit.

Location, Access and Topography

The centre of the Krans 11-16 claims, record numbers 452(7) to 457(7), is at about 7 km south of Marble Dome. The majority of the area is drained by Zenazie Creek and its tributaries.

Access to the claim is via helicopter from Atlin, B.C., about 50 km to the west.

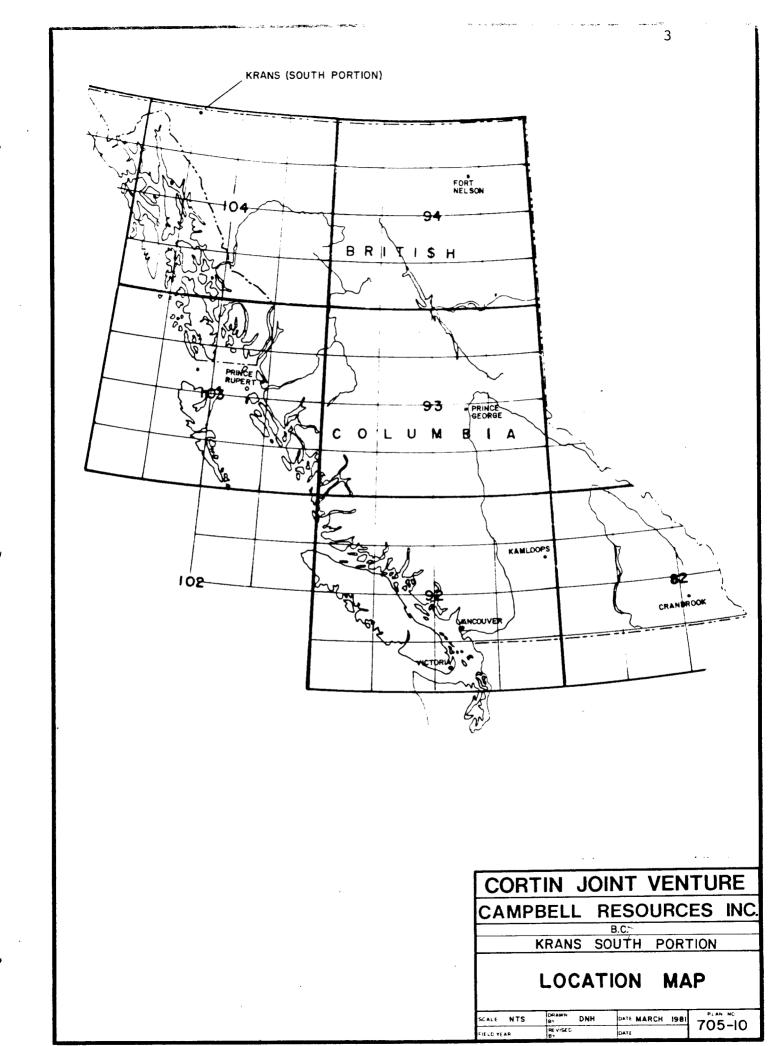
The area is mountain highland cut by steep sided valleys of Zenzie Creek and its tributaries. Elevations on the claims vary between 1000 and 2000m, with the area of interest being above tree line. Glacial overburden consists of a thin veneer of rounded boulders, primarily below 1400m.

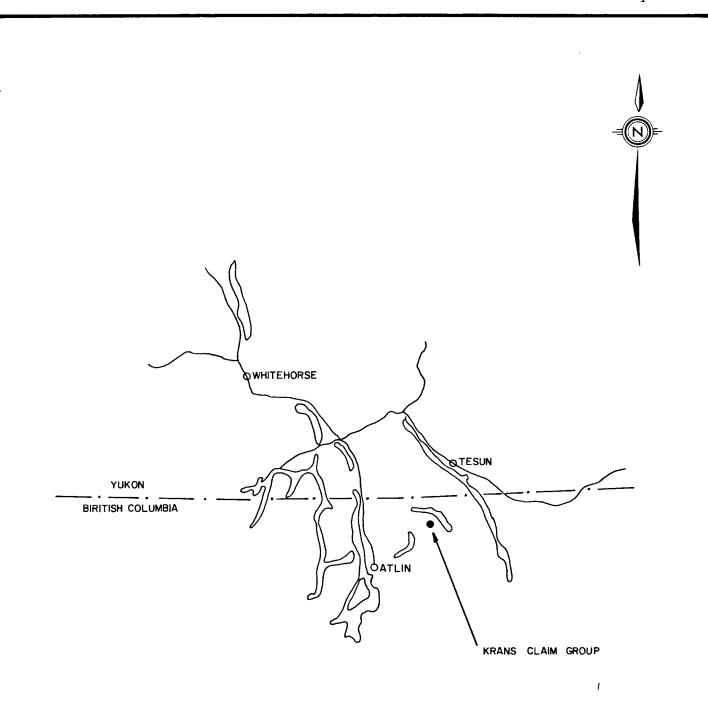
Exploration History

The Krans claim block, totalling 16 mineral claims, 250 units, was staked in July, 1978, following a reconnaissance stream sampling program the previous year, which outlined an area containing anomalous Sn values.

Reconnaissance, "contour line" soil sampling in early 1979 returned interesting results in the southern portion of the group (Krans 11 to 16).

In the latter part of the 1979 season and the early part of the 1980 season, further reconnaissance soil sampling on the Krans 11 and 12 claims, and detailed sampling on 100m x 50m spacing on the Krans 13 and 14 claims was carried out. The results of this work are found in an Assessment Report by David R. Kennedy, dated July 14, 1980.

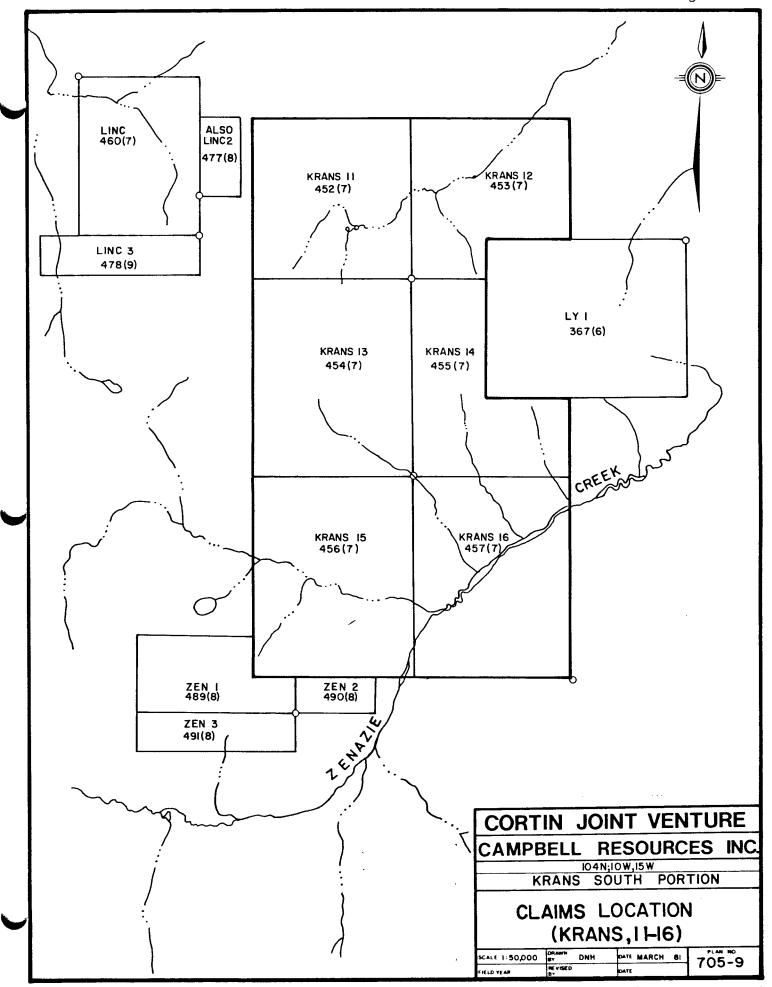




CORTIN JOINT VENTURE CAMPBELL RESOURCES INC 104N;10W,15W KRANS SOUTH PORTION

INDEX MAP

	DRAWN BY	DN:H	DATE	MARCH	81	705 - II
FIELD YEAR	RE VISED BY		DATE			103-11



Ore Potential

To date, only preliminary exploration has been carried out on the property, thus, an ore potential has not been established. Favorable soil and rock geochemical results indicate the southern portion of the Krans property deserves further detailed work.

Orientation Geology and Geochemical Survey Regional Geology-Geochemistry

The southern portion of the Krans group lies on the contact between the granitic rocks of the Surprise Lake Batholith and the intruded sediments. Within the claims the contact dips to the north east. The Surprise Lake granites are typically very coarse grained to strongly porphyritic.

Near the contact the capping sediments have been altered to a pyritic hornfels.

Geochemically, the Surprise Lake Batholith contains anomalous amounts of U, Mo, W, F and Sn. Reported cassiterite (Sn 02) with the granitic rocks occurred as minute crystals trapped within quartz grains.

August, 1980 Field Work

Prior to the initiation of field work, hand specimens taken during the reconnaissance geochemical surveys were examined in detail. Incipient greisen style alteration was noted in a few samples taken near sites where the soil samples had returned above background values in Sn.

An orientation traverse in the vicinity of the "Detailed Grid" (Plan 705-2) located numerous fragments of dark, Chlorite-Magnetite altered granitic rock in float, one sample returned 0.25% Sn on assay.

The area south west of the "Detailed Grid" where greisen style alteration had been noted in hand specimens was examined, and fragments of altered granite were traced up slope to a 20 to 30m wide rusty alteration zone in a creek valley (Plan 705-3). This zone, striking 060° has as its core, a 0.5 to 0.6m dark quartz "vein" centered in a 5m wide zone of soft "kaolinized" granite. Samples of the "vein" returned Sn values to 450 ppm. A sample of strong Greisen style wall rock alteration returned only 23 ppm.

A short soil line in rusty talus north of the axis returned values to 110 ppm Sn, while PHMC(Partial Heavy Metal Concentrate) samples taken downstream from the showing returned values to 650 ppm.

Other "rusty" zones outcropping on the property were then examined briefly (see Plan 705-1) with two areas near the headwaters of "Whistler" Creek being examined in greater detail.

At the Lake area, where previous reconnaissance sampling had returned values to 45 ppm Sn, narrow rusty zones were found to occur in outcrop on a cliff face (Plan 705-7). Samples of rusty altered granite taken from outcrop returned values to 0.35% Sn. Greisen altered float was found in talus below the rusty zones, and visible cassiterite was found in a fragment of quartz vein.

Two detailed soil lines were run above the cliff across the presumed strike of the rusty zones. The samples were sieved to three fractions, +10 mesh, -10+40 mesh, and -40 mesh. The Sn values are shown on Plan 705-5. Maximum values to 32 ppm Sn occurred in the -40 fraction, with little support from the coarser fractions. These high values appear to correlate with the narrow rusty zone in the cliff face, below cairn 39096 (see Plan 705-7).

In the Upper Whistler Creek area, several rusty zones are prominent on steep easterly facing cliff faces. A detailed soil sample (talus fines) line was run at the base of one cliff containing rusty patches (Plan 705-6). The tin values in the 3 fractions analyzed (+10 mesh, -10+40 mesh and -40 mesh) were surprisingly high, with the maximum value, 1600 ppm Sn being in a -10+40 mesh sample fraction.

Two soil lines were run on the plateau west of the cliff edge. In these soils the fine fraction returned values to only 108 ppm Sn, with decreasing values in the coarser fractions (Plan 705-4).

All samples were analyzed by Bondar-Clegg in Whitehorse, Y.T.

Aerial Photography

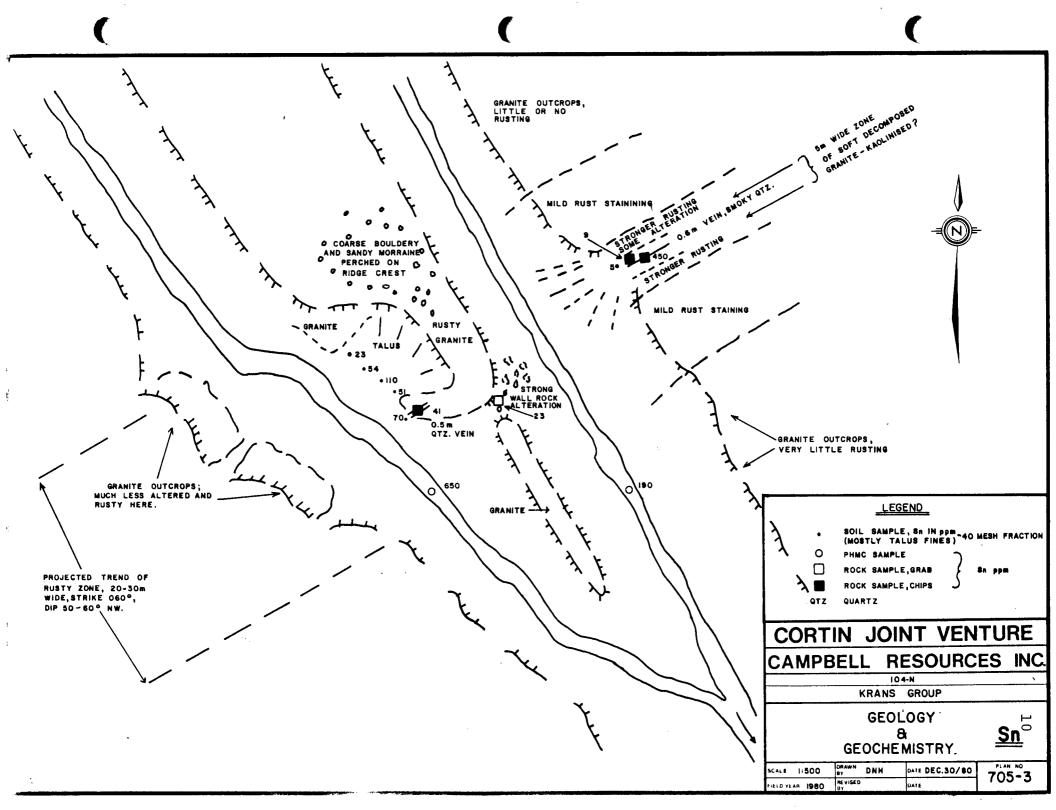
Northwest Survey Corporation International Ltd. of Whitehorse, Y.T. carried out an aerial photographic survey of the Krans area in September, 1980, producing photographs at a 1:20,000 scale.

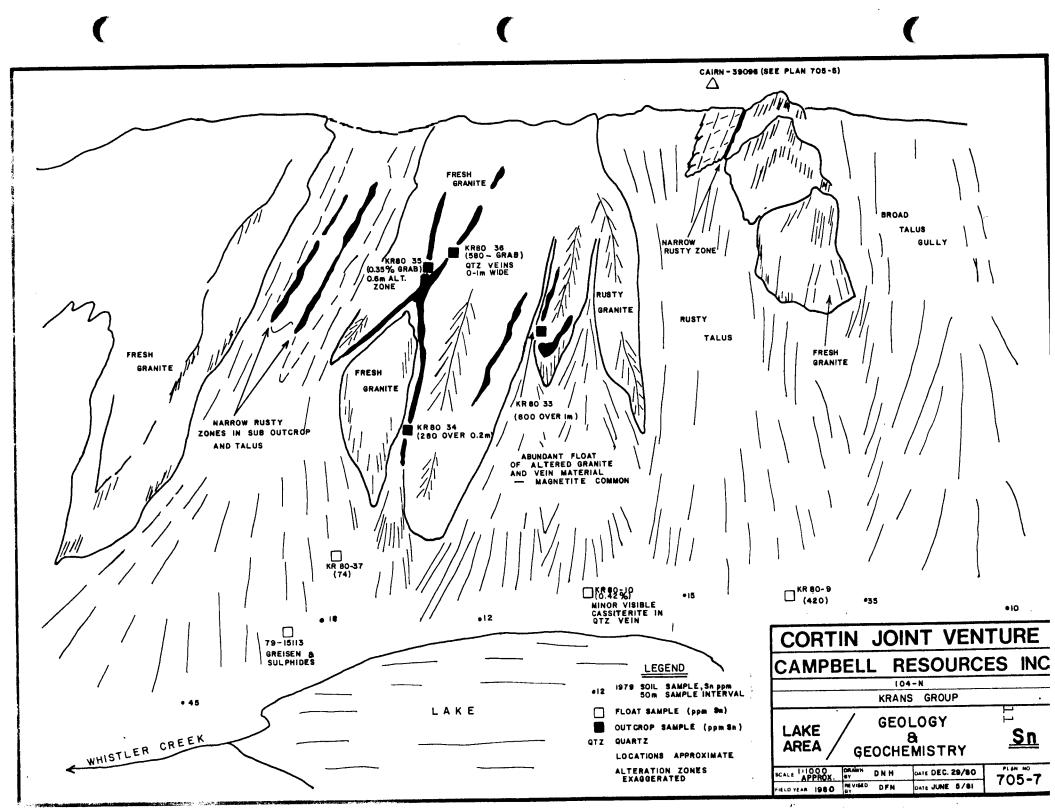
These photos were to be used for the preparation of a 1:5000 contoured orthophoto map of the property, however, the camera malfuncationed. The resulting photographs, while adequate for mapping control, were not adequate for the preparation of an accurate photomosaic.

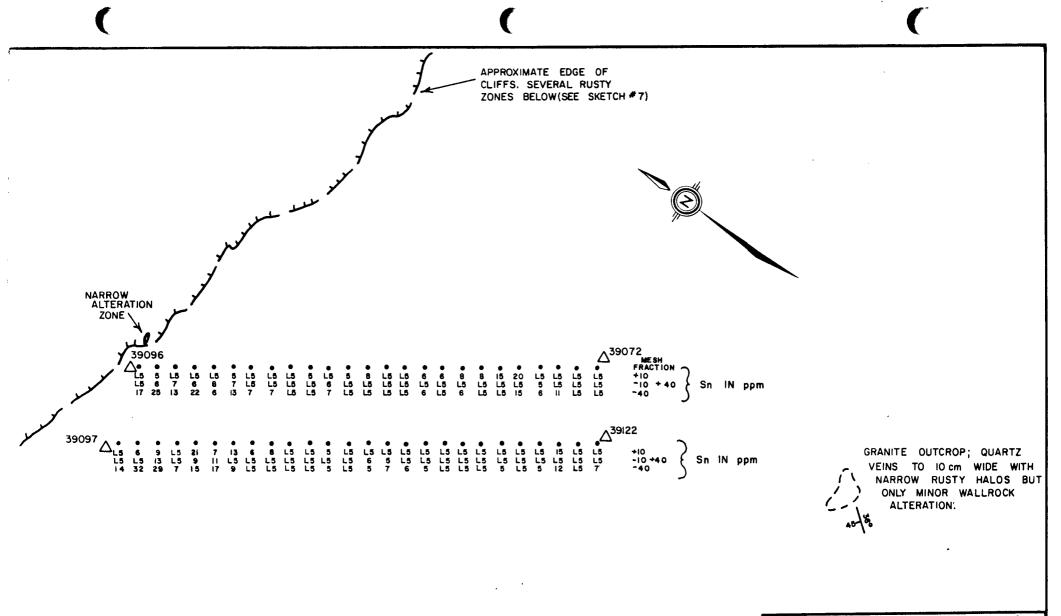
Conclusions

On the Krans claims, tin occurs as cassiterite in rusty weathering alteration zones within the Surprise Lake Batholith. In addition to pervasive clay alteration, two styles of alteration have been tentatively related to tin mineralization. Most common is a Chlorite-Magnetite + tourmaline and pyrite alteration. Greisen style alteration, often with magnetite, is less common. Both have been observed in the same mineralized zone.

Normal soil geochemistry in till covered areas appears to be of marginal use in the detailed evaluation of tin bearing zones.







LEGEND

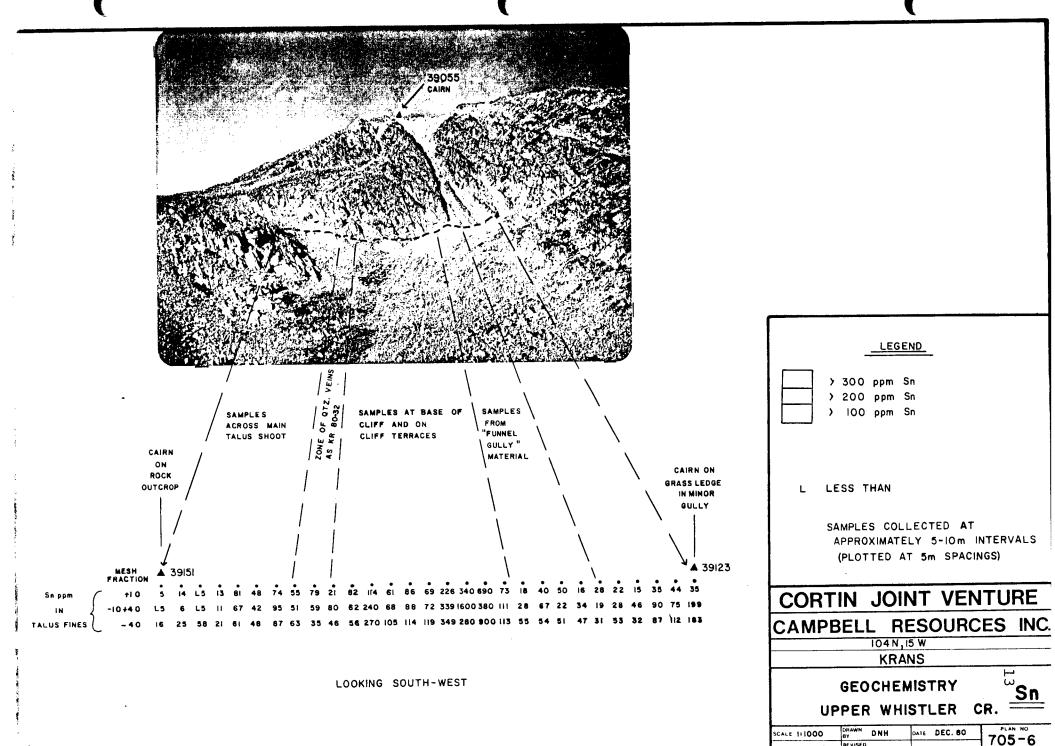
● SOIL SAMPLE

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LINE SPACING 20 m

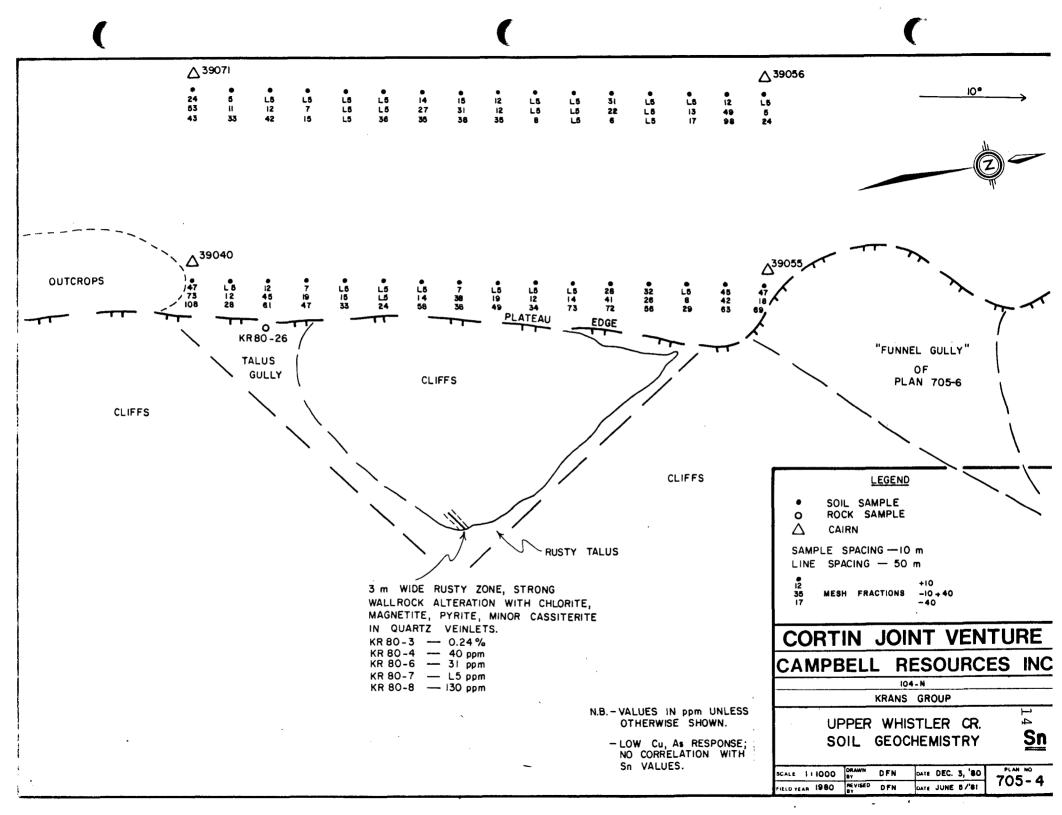
SAMPLE SPACING 5 m

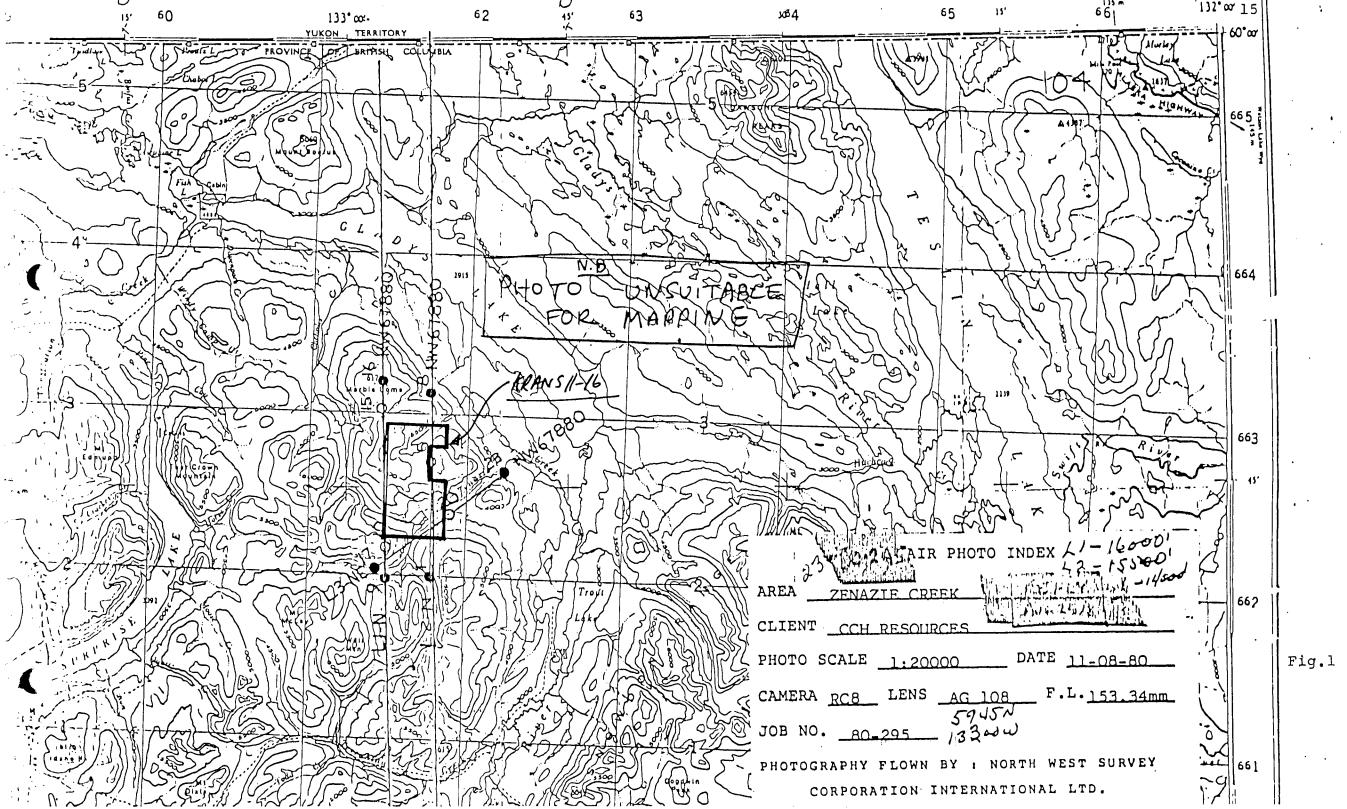
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Recommendations

Orientation magnetic surveys should be run across the "Detailed Grid" and two or more of the known tin bearing zones to determine if the magnetite in the tin associated alteration is sufficient to yield a recognizable signature.

All known outcropping rusty alteration zones within the granites should be channel sampled in sufficient detail to better determine the grade of the tin mineralization present.

STATEMENT OF EXPENDITURES

Analytical

9 pan concentrates analysed for Sn @ \$4.40 each	39.60
21 rock samples analysed for Sn,Cu,As @ \$9.80 each	205.80
7 assays (Sn only) @ \$9.00 each	63.00
143 soil samples- sample preparation @ \$0.50	71.50
+10 mesh fraction analysed for Sn @\$3.25	464.75
-10+40 mesh fraction analysed for Sn @\$3.25	464.75
-40 mesh fraction analysed for Sn,Cu,As @\$7.80	1,115.40

Salaries

R. Robertson @ \$150.00/day (August 18-23)	900.00
P. Plishka @ \$60.00/day (August 18-23)	360.00
Accommodation and meals- 2 men, Atlin Inn August, 1980	464.95
Vehicle rental, 6 days @ \$30.00/day	180.00
Vehicle fuel, 95 litres @ 29¢ per litre	27.55
Helicopter, ex Atlin, 5 days, 6.4 hours	2,270.40
Field consumables, 6 days @ \$10.00 per day	60.00
Airphotos, flying and photo preparation; 35 line/km, approx. scale 1:20,000	1,500.00
Preparation of maps and report	1,100.00
	\$9,287.70

Statement of Qualification

I, Ronald C.R. Robertson, of 3851 East Georgia Street, Burnaby, B. C., do hereby certify that:

- 1. At the time when the work described in this report was carried out, I was employed by Campbell Resources Inc., A-105, 355 Burrard Street, Vancouver, B.C., as a Project Geologist and have practiced as a Mineral Exploration Geologist for the past ten years.
- 2. I graduated from the University of Aberdeen, Scotland in June, 1970, with a First Class Honours degree (Bachelor of Science) in Geology, and have carried out post-graduate studies at McMaster University and Queen's University.
- 3. I am a member in good standing of the Canadian Institute of Mining and Metallurgy and of the Society of Mining Engineers.

Vancouver, B. C. February 27, 1981.

Ronald C.R. Robertson
Project Geologist

Monald CA Roberts

APPENDIX I

NOTES TO PLAN 705-7

APPENDIX I KRANS Notes to Plan 705-7

In Situ Samples

KR 80-33 - Chip sample over lm width (half-width (800 ppm Sn) of 2m wide alteration zone).

Zone pinches and swells over short distances, locally bifurcates. Zone trends are quite variable - generally strikes 034°-045°, dips 45°-65° NW.

NB. trends of these zones are sub-parallel to cliffs, so large amounts of altered, rusty float are produced relative to true zone widths.

 $\frac{\text{KR }80-34}{\text{(280 ppm Sn)}}$ - 20 cm wide vein and alteration halo.

Above, this narrow zone thickens where it is joined by a second alteration zone. Between this junction and Kr-80-36, the zone consists of several dykes(2-5m wide) of fine-grained granite cutting the coarsegrained host granite. Dyke cores (and locally the margins) are quite strongly altered - these are the "alteration zones" and contain any quartz veins present. This dyke-vein relationship is also seen at the KR 80-33 zone.

KR 80-36 - grab sample of thin quartz veins(2-10cm)
(580 ppm Sn) with dark selvedges; from centre of zone.

Float Samples

KR 80-9- strongly altered granite with very abundant (420 ppm Sn) magnetite and small pyrite cubes.

KR 80-10- similar to KR 80-9, but also some vein
(0.42% Sn) material with quartz crystals and tiny
cassiterite grains in selvedges.

 \underline{KR} 80-37- quartz vein material. (74 ppm Sn)

APPENDIX II

SAMPLE RESULTS

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BOX 37, MAYO, YUKON TERRITORIES

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BOX 37, MATO, TORON TERRITOR

REPT. NO. 40-13

DATE 23 Aug 1980

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BOX 37, MAYO, YUKON TERRITORIES

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DATE 23 Aug. 1980

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BOX 37, MAYO, YUKON TERRITORIES

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PAGE 3 8 15

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DATE 23 Ag. 1980

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SAMPLE NO.	Sn	-w	Cu	РЬ	Zn-	Ag-	Мо	As	u			
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BOX 37, MAYO, YUKON TERRITORIES

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SAMPLE NO.	Sn	-w	-Cu-	Pb	Zn	Ag	Mo-	As	U		
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130	56	<u> </u>				ļ '	<u> </u>				
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132	18						<u> </u>				
133	73	<u> </u>					<u> </u>				
134	690										
135	340						!				
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BOX 37, MAYO, YUKON TERRITORIES

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BOX 37, MAYO, YUKON TERRITORIES

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BOX 37, MAYO, YUKON TERRITORY

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BOX 37, MATO, TORON TERRITO

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BOX 37, MAYO, YUKON TERRITORY

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134	380				1.							
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BOX 37, MAYO, YUKON TERRITORY

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39002	48		24					18			
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6	41		22					10			
8	127		52					40			•
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21	5		20					2			
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23	9		16					2			
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26	16		14					5			
24	5		14					5			
28	15		13					11			
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30	13		15					5			
31	17	-	13					3			
. 32	11	·	12	_				5			
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. 34	28		14					7			
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42	61		64					17				
43	47		72					27				
44	33		47					23				•
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68	15		36					//				
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INV. NO.

BOX 37, MAYO, YUKON TERRITORY

AREA	705

REPT. NO.

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SAMPLE NO.	Sn	-W=	Cu	-Pb	Zn	Ag	Mo	As	U -		
39069	42		32					13			
70	33		65			<u> </u>		13	<u> </u>	-	
7(43		44					13			
72	L5		26					10			
43	L5		24				ļ	8			
74	11		16					4			
75	6		12					4	<u> </u>		
76	15		13		<u> </u>			4			
77	L5		24	<u> </u>		ļ		5			-
78	L5		20	,				6	<u> </u>		
79	6		26	<u> </u>	<u> </u>			3			
80	15		13					7			ί _{μ'} .
81	6		14					7		*	
82	15		14				-	6			
8.3	L5		16					5			
84	15		20					7			
85	L5		28					7			
86			20					8			
87	7 L5		26					7			<u> </u>
68	L5		33		N/c			6			
89	7		24					6			
90	7		24					6			
91	13		25					11			
92	6		23					/3			
93	22		24					7_			
94	13		28					7			
95	25		20					18			
96	17		18					12			
97	14		24					7			
78	32		14					3			
TELEX DATE											

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INV. NO. _

BOX 37, MAYO, YUKON TERRITORY

AREA 705

REPT. NO.

PAGE 15 11

FRACTION (FRACTION)

FRACTION PUSH

DATE

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	V		1								
SAMPLE NO.	Sn	W	Cu	-P6	Zer	Ag	Mo	As	-0		•
2150				Marie Commenter and							
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3151=(-)											· · · · · · · · · · · · · · · · · · ·
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	SZ		Cu					As		-	
39129	47		35					10	<u> </u>		
130	51		38					8			
131	54		35					7			
132	<i>5</i> 5		42					5			· · · · · · · · · · · · · · · · · · ·
133	113		44		1		-	12		5	
134	900		104					12	`.		***
135	280		80				ļ	1/_			
136	349		49					12			
137	119		38					10			
138	114		50					10	ļ		
139	105		49					12	ļ		
140	270		53	ļ	4						
141	56		60		<u> </u>			17		·	
142	46		62					7			
143	35	. (**	63					7		:	
144	63		73			1		7			
145	87		76		· .			6	<u> </u>	-	
146	48		64					8			-
147	61		52					22			* *
148	21		62			· .		33	-		
149	58		84					50			
150	25		72		- '			52			
isi	16		24					20.			
TELEX DATE	3	2 1		1 -				<u> </u>	<u> </u>		

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BOX 37, MAYO, YUKON TERRITORY

AREA______

REPT. NO.

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PAGE 14 \$ 15

FRACTION (LC)
NAME R. RIVETSA

DATE 23 Aug 1980

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SAMPLE NO	Sn	W-	Cu	-Pb	Zn_	Ag	Мо	As			i.e
39099	29		16	** **********************************				6			
100	7		10					13			
101	15		20					5			
102	17		13					5			
103	9		13					6			
104	L5		18					7			
105	L5		18					6			
156	15		24					6			
F01	15		26					3			
108	5		20					6			
(09	L5		22					22			
110	5		20					12		_	
111	7		16					25		\$	
112	6		12					40			
113	5		18					10			
· 114.	45		19					12		, ,	e.
115	L5	. •	10					2			
116	15		6					12		_	
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(18	15.		16		**			5			
119	5		11					7			
120	12		1.1					2			
124	15		16	·		,•		3		1.7	
122	7	-	12					3			
123	183		19					2			
126	112		18					5	-		
125	87		22					7			
126	32		26		No. 1			7		_	
127-	53		2.0					2		-	
128	31		32					7			
TELEX DATE											

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