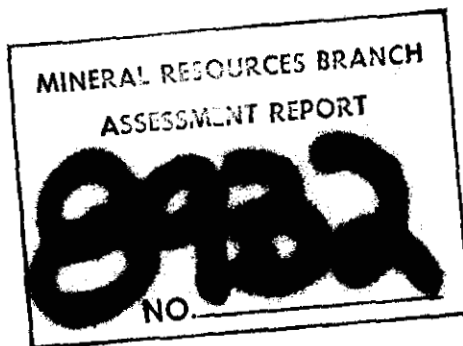


'81-#91-#8932

Geochemical and Prospecting Report  
on the  
HINI Mineral Claim  
Record Number 942(1)  
Claim Sheet No. 104K/11W  
Tulsequah Area  
Atlin Mining Division, B.C.

February 23, 1981



Geochemical and Prospecting Report  
on the

HINI Mineral Claim

Record Number 942(1)

Claim Sheet No. 104K/11W

Tulsequah Area

Atlin Mining Division, B.C.

58° 35' N. Lat., 133° 20' W. Long.

Owned and Operated

by

Comaplex Resources International Ltd.

Report by

John A. Greig - P. Geol.

February 23, 1981

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## ILLUSTRATIONS

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## INTRODUCTION

A program of stream sediment sampling was carried out on the HINI claims in June of 1980 and the claim group was prospected in July and August of 1980. The work was carried out by employees of Comaplex Resources Ltd. under the supervision of geologists K. Lintott, J. Greig and M. Kenyon.

The claims were acquired to cover areas of pyritic alteration within the Stuhini volcanics which may contain gold and silver, and also a known stibnite occurrence called the Baker showing.

The terrain in the immediate vicinity of the claim group is very steep and prospecting was limited to the less steep lower slopes immediately south of Stuhini Creek. These lower slopes are heavily forested and underbrush is very dense. Access along the creek beds for the purposes of stream sediment sampling is comparatively easy.

## LOCATION AND ACCESS

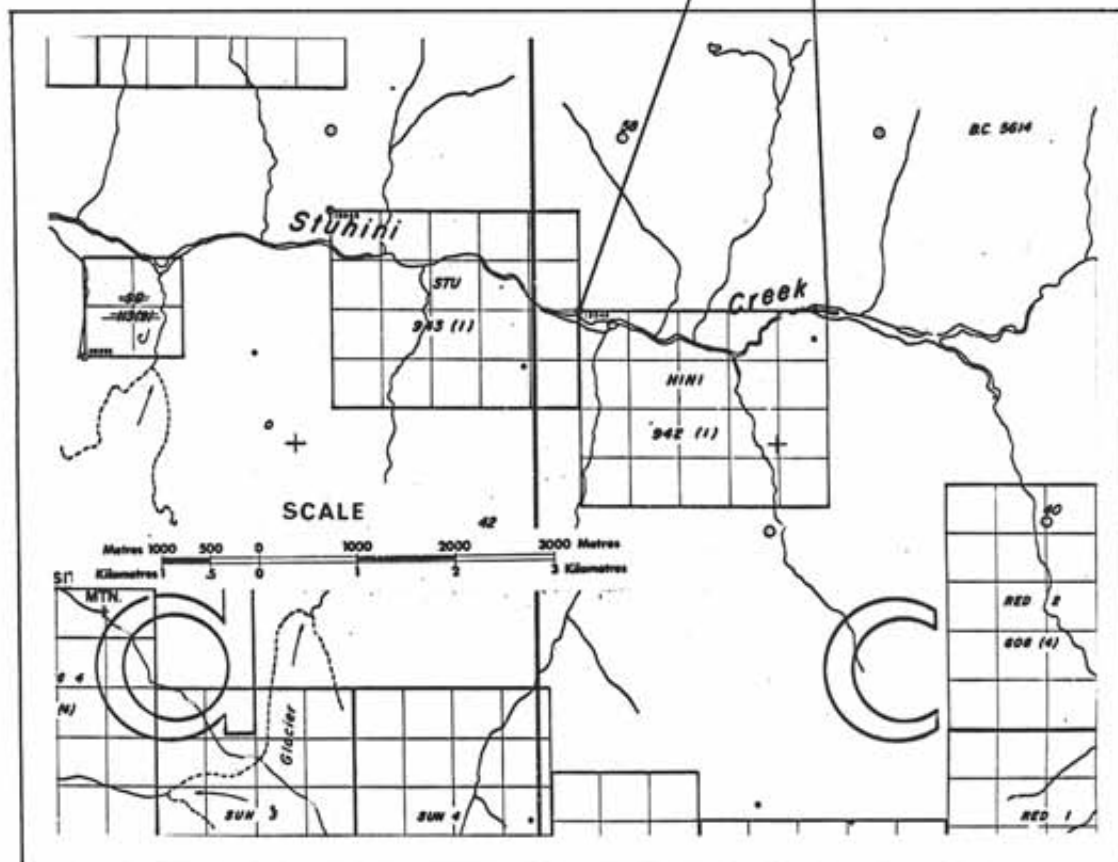
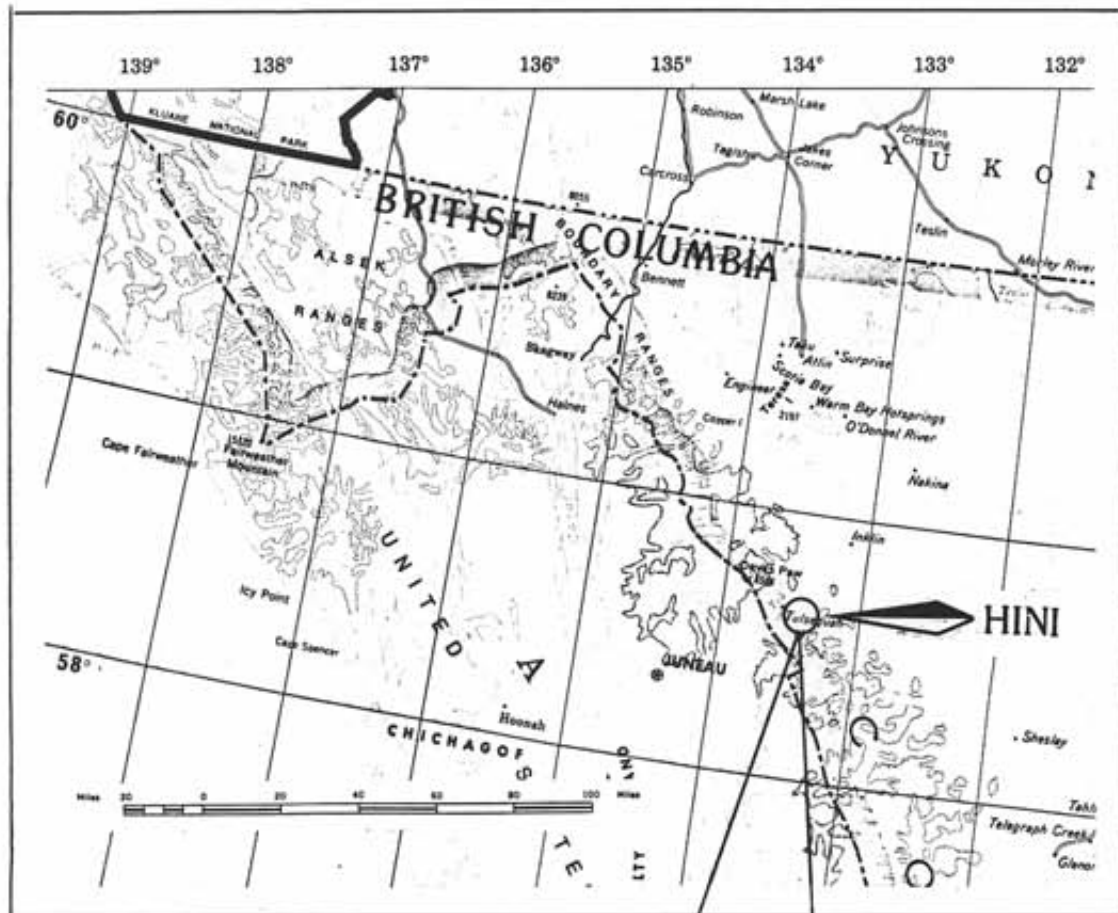
The HINI claim record number 942(1) is located on the south side of the Stuhini Creek valley about 70 miles south of Atlin, B.C. at about latitude  $58^{\circ} 35' N$  and longitude  $133^{\circ} 20' W$ . The property extends from the valley of Stuhini Creek at an elevation of about 200 meters above sea level to an elevation of about 1,100 meters at the highest point.

The exploration crew was camped for the summer at the Tulsequah Chief Mine some 20 miles N.W. of the property, and travel to and from the property was by helicopter, contracted for the summer by Comaplex, and stationed at the Tulsequah Chief Mine. Access to the area was from the town of Atlin, B.C. by fixed-wing aircraft to an airstrip at the Polaris Taku Mine on the Tulsequah river. Alternative access was by float-equipped fixed-wing aircraft to the old town of Tulsequah at the junction of the Taku and Tulsequah rivers.

## GEOLOGICAL SETTING

The Tulsequah area is on the eastern flank of the Coast Range Batholith and is

FIGURE 1 - LOCATION MAP



underlain by a succession of Paleozoic and Mesozoic volcanics and sediments of which Mesozoic rocks are most abundantly exposed. The HINI claim group is entirely underlain by Andesitic volcanics of the Upper Triassic Stuhini Group. The Stuhini volcanics in this area are flow and fragmental in origin and apparently fragmental units predominate.

The claims cover certain pyritic gossans within the Stuhini volcanics which elsewhere in the general Tulsequah area are known to be gold and silver bearing. The claims also cover a reported occurrence of stibnite known as the Baker showing. This stibnite occurrence is similar in many respects to other antimony occurrences along the south side of the valley of Stuhini Creek and which are controlled by W.N.W. striking faults. These particular fault structures may also have potential for gold and silver mineralization.

For greater geological detail reference may be made to G.S.C. Memoir 362 by J.G. Souther and accompanying map 1262A.

## GEOCHEMISTRY

### Sampling and Assay Techniques

Stream sediment sampling crews consisted of two persons (for safety reasons). Samples were collected from "center of stream" at approximately 300 meter intervals along the main creeks. Additional samples were collected from all small creeks approximately 50 to 100 meters from the junction of the main creek. Sufficient fine material could generally be collected to fill a 3" x 6" kraft paper sample bag; however, in areas of fast water flow sieving to minus 20 mesh in the field was necessitated in order to collect sufficient -80 mesh material for multi-element analysis.

Samples were sent to Barringer Magenta Ltd. in Whitehorse for Cu, Pb, Zn, Ag, Mo, Au, and Sb analysis and remaining -80 mesh material was sent to Barringer Magenta Ltd. in Calgary for As analysis.

Cu, Pb, Zn, Mo, Ag, Au were analyzed by atomic absorption spectrometry, Sb by fusion and As by colorimetric techniques.

Threshold values were selected from the regional sampling program data and consist of the following concentrations:

Cu	100 ppm	Au	100 ppb
Pb	20 ppm	Ag	1.0 ppm
Zn	100 ppm	As	25 ppm
Mo	10 ppm	Sb	15 ppm

### Interpretation of Results

The following samples were collected on the Hini claim. Those values exceeding threshold are underlined.

<u>Sample No.</u>	<u>Cu</u> <u>ppm</u>	<u>Pb</u> <u>ppm</u>	<u>Zn</u> <u>ppm</u>	<u>Mo</u> <u>ppm</u>	<u>Ag</u> <u>ppm</u>	<u>As</u> <u>ppm</u>	<u>Sb</u> <u>ppm</u>	<u>Au</u> <u>ppb</u>
E-104	54	12	53	3	0.6	7	<1	30
E-105	52	12	50	6	0.6	12	<1	40
E-106	55	11	45	5	0.4	7	<1	90
B-19	30	<u>52</u>	45	6	<u>1.0</u>	<u>70</u>	<1	<u>220</u>
B-20	17	13	40	2	0.3	12	<1	80
B-21	30	<u>180</u>	<u>100</u>	N.D.	<u>1.0</u>	<u>61</u>	<1	<u>300</u>
B-22	41	<u>325</u>	<u>225</u>	4	<u>1.6</u>	<u>85</u>	<1	<u>210</u>
B-23	17	<u>27</u>	43	3	0.3	7	<1	<u>180</u>
B-24	30	<u>70</u>	78	3	0.4	<u>45</u>	<1	<u>230</u>
B-25	41	<u>110</u>	<u>185</u>	<u>11</u>	<u>1.1</u>	<u>107</u>	<1	<u>110</u>
B-26	20	<u>34</u>	80	6	0.4	<u>32</u>	<1	<u>180</u>
B-27	18	12	40	1	0.3	7	<1	80
B-28	29	<u>65</u>	<u>105</u>	8	0.6	<u>136</u>	<1	<u>120</u>
B-29	27	<u>37</u>	63	2	0.6	<u>31</u>	<1	<u>210</u>
B-173	10	<u>31</u>	50	1	0.5	9	10	50
C-165	12	18	62	4	0.3		10	40

The north flowing creek draining the eastern portion of the claim exhibits greater than threshold values in lead, arsenic and gold and sporadic high values of zinc and silver.

### PROSPECTING

Prospecting traverses were carried out along the north side of Stuhini Creek and the lower portions of the north flowing eastern creek. The upper portions of the latter creek were not examined because of an impassible canyon approximately 500 meters upstream from its mouth.

Near the above mentioned canyon a small pyritic alteration zone occurs in pyroclastic Stuhini volcanics. It is apparently this zone which is referred to as the Baker occurrence on map 1262A.



Sample No. RS-13 was submitted to Loring Laboratories Ltd. of Calgary, Alberta for assay. The sample is an intermediate, silicified and pyritic pyroclastic selected from the alteration zone. Assay results are as follows: Au - trace, Ag - 0.04 oz/T, Cu - 0.01%, Pb - 0.02%, Zn - 0.01%.

Several patches of alteration occur on a precipitous east facing cliff further upstream. Talus derived from these alteration zones was not examined as they could not be reached by foot traverse beginning at Stuhini Creek. Helicopter access is possible.

### CONCLUSIONS AND RECOMMENDATIONS

The Hini claim overlies Stuhini volcanic rocks which have been hydrothermally altered. It is uncertain whether the alteration is penecontemporaneous with Triassic volcanism as is the case further north at the Tulsequah Chief volcanogenic massive sulphide orebody or is related to Late Cretaceous/Early Tertiary intrusions which occur in the immediate area.

Stream sediment sampling indicates that Cu, Pb, Zn, Au, and Ag mineralization occurs on the property but prospecting has not found the source of the anomalous stream sediments. The alteration zones on the east facing cliff are the most likely source of the anomalous samples.

Prospecting of the talus slopes below these alteration zones is strongly recommended and if ore grade mineralization is found, a professional climber should be utilized to sample across the alteration zones in the cliff face.

*Respectfully submitted*  
*J. H. Jones*

A circular professional seal for a Registered Professional Engineer in Alberta, Canada. The seal features a central figure of a person standing on a pedestal, surrounded by the text "REGISTERED PROFESSIONAL ENGINEER" and "ALBERTA, CANADA".

STATEMENT OF COSTS

Geochemical

Wages 4 man days	317.62
Field Support (food and camp costs) 4 days @ \$35/day	140.00
Helicopter 1½ hrs. @ \$345/hr.	517.50
Geochem. samples - 16 samples @\$16.65	266.40
Mobilization-Demobilization-proportionate costs 4 man days	60.00
Report costs - proportionate	<u>180.00</u>
	\$1,481.52

Prospecting

Wages 2 man days	201.81
Field support 2 days @\$35/day	70.00
Helicopter - 1 hr. @\$345/hr.	345.00
Assays	27.50
Mobilization - Demobilization	30.00
Report costs - proportionate	<u>120.00</u>
	\$ 794.31
	<u>\$ 2,275.83</u>

Total

LABOUR

Geochemistry

Kim Conway	June 19/80	1 day @	63.25
Charles Britton	June 19/80	1 day @	57.50
Bill Goble	June 20,21/80	1½ days @	100.00
Rob Hancock	June 20,21/80	1½ days @	57.50
Ken Lintott	July 9/80	¼ day @	150.00
Linda Nasset	July 9/80	¼ day @	57.50
Ken Lintott	Aug. 4/80	½ day @	150.00
John Greig	Aug. 4/80	½ day @	150.00

Addresses

1. Linda Nasset  
529 de Gaspé, Ap. 104  
Verdun, Mt 1., Quebec  
H3E 1E7
2. Charles Britton  
1418 Aven. N. South  
Saskatoon, Saskatchewan  
S7M 2T3
3. Kim Conway  
#226-1020 Pembroke St.,  
Victoria, B.C.  
V8T 4Z6
4. Rob Hancock  
3136-11th Avenue W.,  
Vancouver, B.C.  
V6K 2M7
5. Bill Goble  
94 Cartier Cres.,  
Saskatoon, Saskatchewan  
S7L 4L7
6. Ken Lintott  
c/o Wollex Exploration  
901-1015-4th Street, S.W.  
Calgary, Alberta  
T2R 1J4
7. John Greig  
36 Georgia Wynd  
Delta, B.C.  
V4M 1A5

STATEMENT OF QUALIFICATIONS

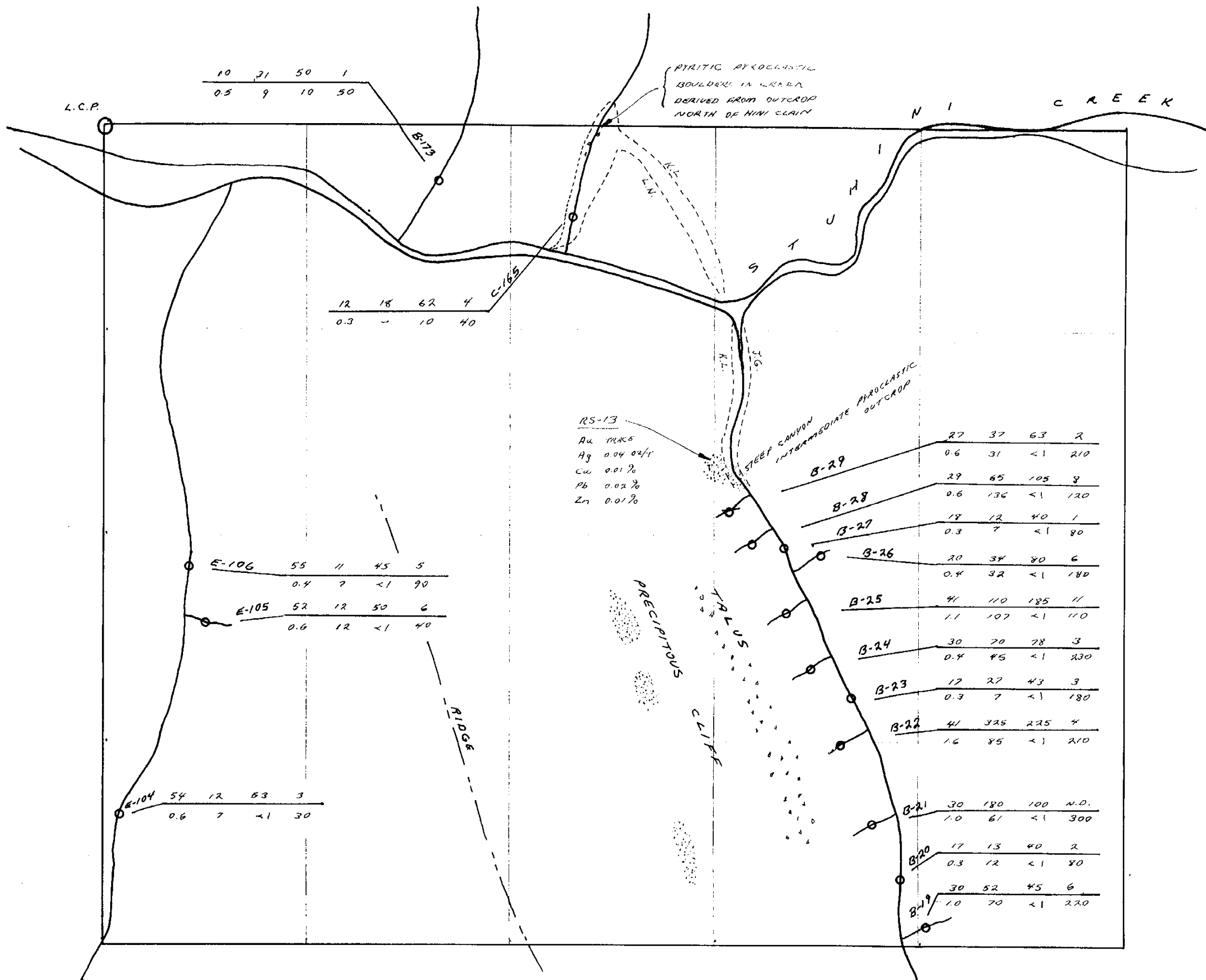
Name: John A. Greig

Profession: Geologist

Education: McGill University B.Sc. 1964 Geology  
University of Alberta M.Sc. 1971 Geology

Professional Association: Professional Geologist - Association of Professional Engineers, Geologists and Geophysicists of Alberta

Experience: 2 years seasonal employment : Quebec, British Columbia  
3 years Cominco Ltd. : N.W.T., Ontario, Manitoba, Saskatchewan and Alberta  
10 years Vestor Explorations Ltd., Pacific Cassiar Limited, Redfern Resources Ltd.: British Columbia, Yukon, N.W.T. and Ireland.



### SYMBOLS

SAMPLE NUMBER	ppm	ppm	ppm	ppm
	Cu	Pb	Zn	Mo
SAMPLE NUMBER	ppm	ppm	ppm	ppb
	Ag	As	Sb	Au

● PYRITIC ALTERATION

--- PROSPECTING TRAVERSE

K.L. KEN LINTOTT  
L.N. LINDA NESSETT  
J.G. JOHN GREIG

## HINI MINERAL CLAIM

ATLIN M.D. - B.C. 104-K-11

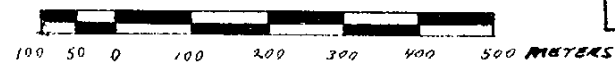
JOHN A. GREIG

FEBRUARY 1981

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT

**8932**  
NO.

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*J. Greig*  
February 23 1981



FIGURE 2