

DU PONT OF CANADA EXPLORATION LIMITED

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE R CLAIM

LIARD MINING DIVISION

LAT. 58°22'N, LONG. 129°41'W

NTS: 104-I-5E

OWNER OF CLAIM: Du Pont of Canada Exploration Limited

OPERATOR: Du Pont of Canada Exploration Limited

D. A. Harron

Author: G. A. Harron

Date Submitted: JUN 24 1981

TABLE OF CONTENTS

	<u>Page No.</u>
I. INTRODUCTION	1
II. GEOLOGY	2
III. GEOCHEMICAL SURVEY	2
IV. COST STATEMENT	3
V. QUALIFICATIONS	5

Appendix A - Geochemical Analytical Procedure

LIST OF FIGURES

	<u>Behind Page</u>
Index Map	1
Dwg. AR 80-164 Sample Locations, Numbers & Results for Au in ppb.	In pocket

I INTRODUCTION(a) Location

The R1 claim is located 24.5 km southeast of Dease Lake, B.C. and 11 km east-southeast of Tanzilla Butte and south of Zuback Creek. Elevations on the claim range from 1364 m in the southwest corner of the claim to 1646 m in the northeast corner of the claim. The property is covered with a ground moraine, and is 90% free of forest cover. Sparse, low spruce occur along the creeks, and the remainder of the claim is open alpine meadow.

(b) Access

Rotary wing aircraft provide the most convenient type of transport to the property, from Dease Lake, B.C.; a distance of 24.5 km to the northwest.

(c) Claim Definition

The R1 claim comprises 20 units, with a tag number of 55401, a record number of 1342, and a record date of June 25.

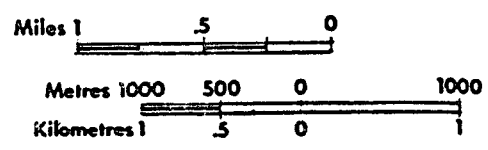
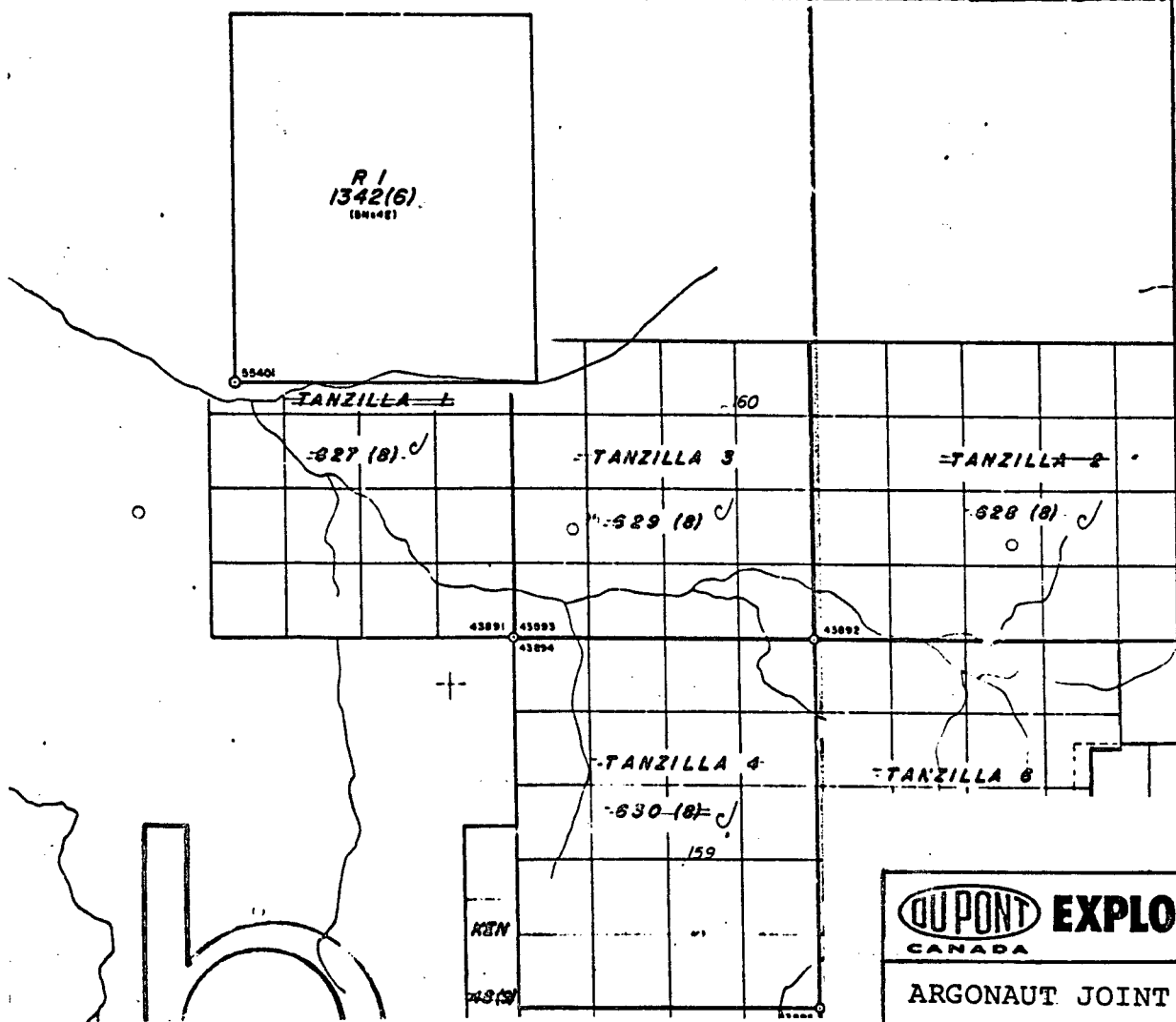
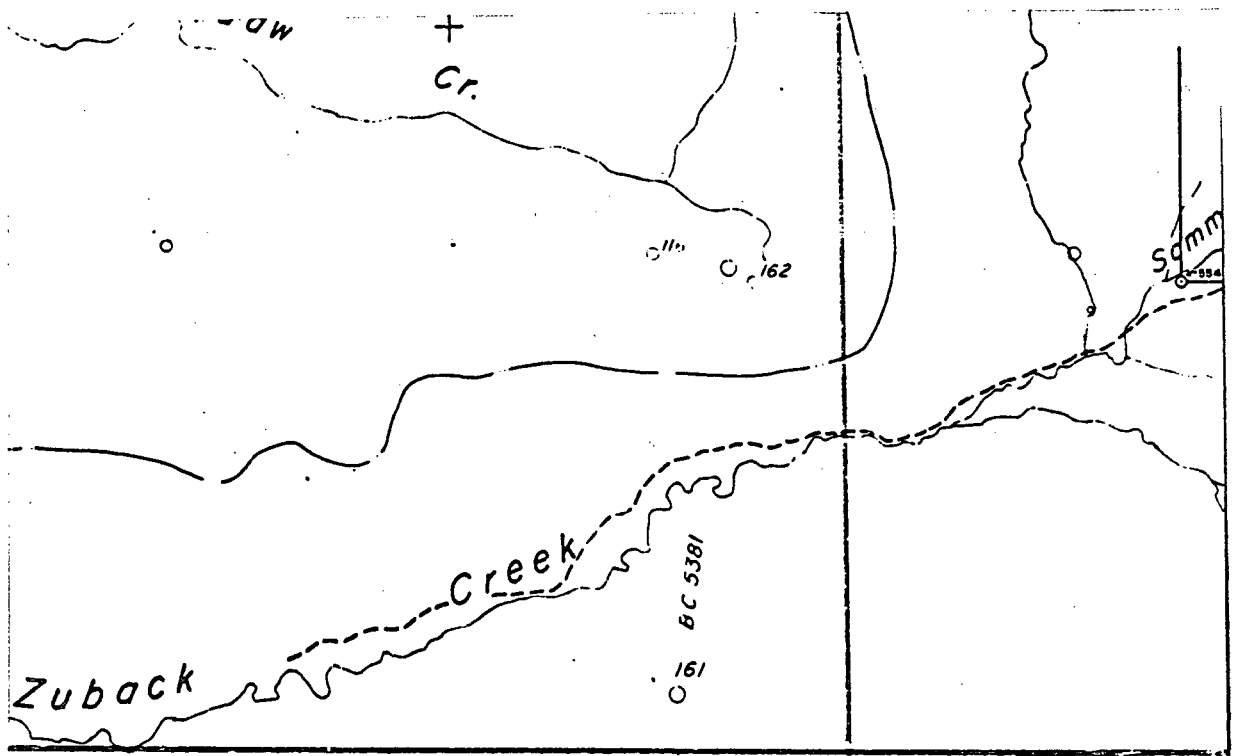
(d) Economic Assessment of Property

The area of the claim was partially investigated previously by an unknown party at an unknown time.

The present investigations did not reveal any mineralization of economic significance as no outcrops were noted on the claim.

(e) Summary of Work Performed

A total of 20 soil samples were collected in the southern part of the claim, and a geologist examined the glacial rock debris.



DUPONT EXPLORATION
 CANADA

ARGONAUT JOINT VENTURE
 Cry Project
 R CLAIM
 INDEX MAP

Cassiar Range, B.C.
 N.T.S. 104-I-5E March/80

II GEOLOGY

(a) Introduction

No rock outcrops occur on the claim, and the entire claim is underlain by an ablation moraine. Boulders in the creek bed suggest that the claim is underlain by interbedded graphitic argillite and greywacke and a granitic intrusive. Float pieces containing narrow (2-5 cm) quartz veins were also noted.

III GEOCHEMICAL SURVEY

(a) Sample Collection, Preparation and Analysis

Soil samples were collected from depths of about 10 to 20 cm below surface using a mattock with an 8 cm x 13 cm blade to dig through the LH and Ao horizon (where present) to the C detritus or rock grit horizon.

All samples were collected in pre-numbered, wet-strength soil sample envelopes with special information tags stapled to them. At each station (100 m intervals), the specific information about the sample was recorded on the tag, which was then removed and filed. A flag bearing the sample number was placed at all stations.

A total of 20 soil samples were collected and sent to Min-En Laboratories in North Vancouver for preparation and analysis. The samples were oven dried and sieved to -80 mesh. The -80 mesh fraction was analyzed for Au according to the procedures outlined in Appendix A.

(b) Results and Interpretation

Drawing No. AR 80-164 shows the sample locations, numbers, and the results for Au in ppb.

The values range from 15 to 55 ppb Au, indicating a broad zone of slight Au enhancement in the ablation till from stations 400E (4807) to 1400E (4817).

which suggests a source of gold located to the north of this area sampled. Further sampling is recommended.

IV COST STATEMENT

(a) Wages

	<u>Rate/ day</u>	<u>Spec. dates</u>	<u>No. days</u>	<u>Cost</u>
1 geologist	\$172.00	Aug.8/80, Feb.20/81	2	\$ 344.00
1 field asst.	46.58	Aug.8/80 Dec.8/80	2	93.16
				<u>93.16</u>
				\$ 437.16

(b) Room and Board

A per diem rate of \$36.70 applies to the dates above for field work only. This represents a total of 2 person days: \$ 73.40

(c) Transportation

i) Transport of 1 person from Smithers to Dease Lake, July 31, 1980. \$ 163.00

ii) In support of field work

<u>Date</u>	<u>Flying Hrs.</u>	<u>Rate</u>	<u>Fuel</u>	
Aug.8/80	1.4	\$365/hr	42 gal.@ \$2	\$ 595.00

(d) Analytical Services

<u>Sample Type</u>	<u>No.Samples</u>	<u>Element</u>	<u>Unit cost</u>	
Soil	20	Au	\$4.25	\$ 85.00
Soil	20	Prep.	0.60	12.00
				<u>12.00</u>
				\$ 97.00

V. QUALIFICATIONS

I, Gerald A. Harron, do hereby certify that:

1. I am a geologist residing at 2810 Sechelt Drive, North Vancouver, British Columbia and employed by Du Pont of Canada Exploration Limited.
2. I am graduate of the University of Western Ontario with a M.Sc. degree in geology.
3. I am a registered Professional Engineer in the Province of Ontario.
4. I have practised my profession in geology continuously for the past 11 years in various provincial jurisdictions in Canada.
5. Between 1980 August 8 and 1981 March 31, I supervised/directed a field programme on the R1 claim on behalf of Du Pont of Canada Exploration Limited.

Gerald A. Harron
Gerald A. Harron

APPENDIX A*MIN-EN Laboratories Ltd.**Specialists in Mineral Environments*Corner 15th Street and Bewicke
705 WEST 15th STREET
NORTH VANCOUVER, B.C.
CANADAANALYTICAL PROCEDURE REPORTS FOR ASSESSMENT WORKPROCEDURE FOR GOLD GEOCHEMICAL ANALYSIS.

Geochemical samples for Gold processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

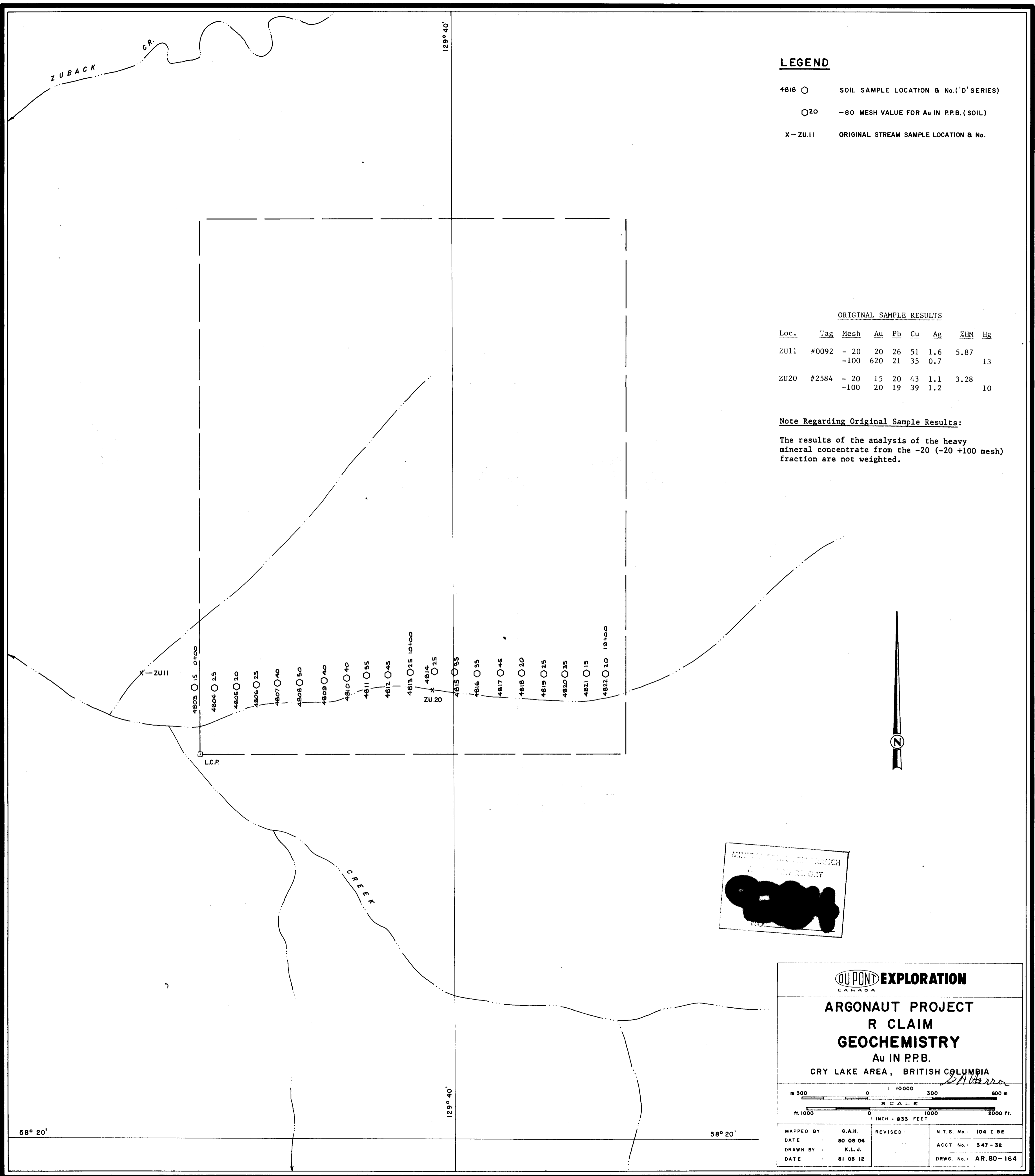
A suitable sample weight 5.0 or 10.0 grams are pre-treated with HNO_3 and HClO_4 mixture.

After pretreatments the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

At this stage of the procedure copper, silver and zinc can be analysed from suitable aliquote by Atomic Absorption Spectrophotometric procedure.

Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone.

With a set of suitable standard solution gold is analysed by Atomic Absorption instruments. The obtained detection limit is 5 ppb.



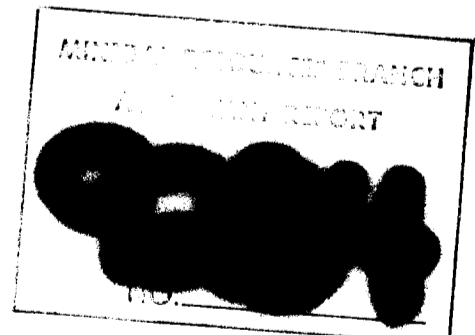
LEGEND

- 4818 ○ SOIL SAMPLE LOCATION & No. ('D' SERIES)
- 20 -80 MESH VALUE FOR Au IN P.P.B. (SOIL)
- X-ZU.11 ORIGINAL STREAM SAMPLE LOCATION & No.

ORIGINAL SAMPLE RESULTS

Loc.	Tag	Mesh	Au	Pb	Cu	Ag	%HM	Hg
ZU11	#0092	- 20	20	26	51	1.6	5.87	
		-100	620	21	35	0.7		13
ZU20	#2584	- 20	15	20	43	1.1	3.28	
		-100	20	19	39	1.2		10

Note Regarding Original Sample Results:
 The results of the analysis of the heavy mineral concentrate from the -20 (-20 +100 mesh) fraction are not weighted.



DUPONT EXPLORATION
CANADA

**ARGONAUT PROJECT
R CLAIM
GEOCHEMISTRY
Au IN PPB.**

CRY LAKE AREA, BRITISH COLUMBIA

SCALE
1 INCH = 833 FEET

MAPPED BY: G.A.H.	REVISED:	N.T.S. No.: 104 I BE
DATE: 80 08 04		ACCT No.: 347-32
DRAWN BY: K.L.J.		DRWG No.: AR.80-164
DATE: 81 03 12		