DU PONT OF CANADA EXPLORATION LIMITED

GEOLOGICAL AND GEOCHEMICAL REPORT

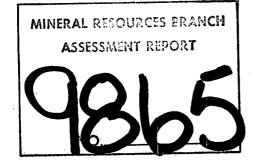
ON THE S1 CLAIM

LIARD MINING DIVISION

LAT. 58°34'N, LONG. 129°21'W

NTS: 104-I-11W

OWNER OF CLAIM: Du Pont of Canada Exploration Limited OPERATOR: Du Pont of Canada Exploration Limited



Author: G. A. Harron

Date Submitted: June 25 1981

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Appendix A - Geochemical Analytical Procedure

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1 Index Map Geochemistry, Sample Locations, Numbers, Dwg. AR 80-166 Gold in ppb. In pocket

INTRODUCTION

Т

(a) Location

The Sl claim is located 23 km east of Dease Lake, B.C. and l.5 km west of Eaglehead Lake. Elevations on the property range from 1189 m to 1433 m in the southwest corner of the claim. At the lower elevations the ground is covered with black spruce and above 1310 m low shrubs and alpine flora predominate. Physiographically the claim is located on a ground moraine that slopes to the north.

(b) Access

Rotary wing aircraft provide the most convenient type of transportation to the property from Dease Lake, B.C.; a distance of 23 km to the east.

(c) Claim Definition

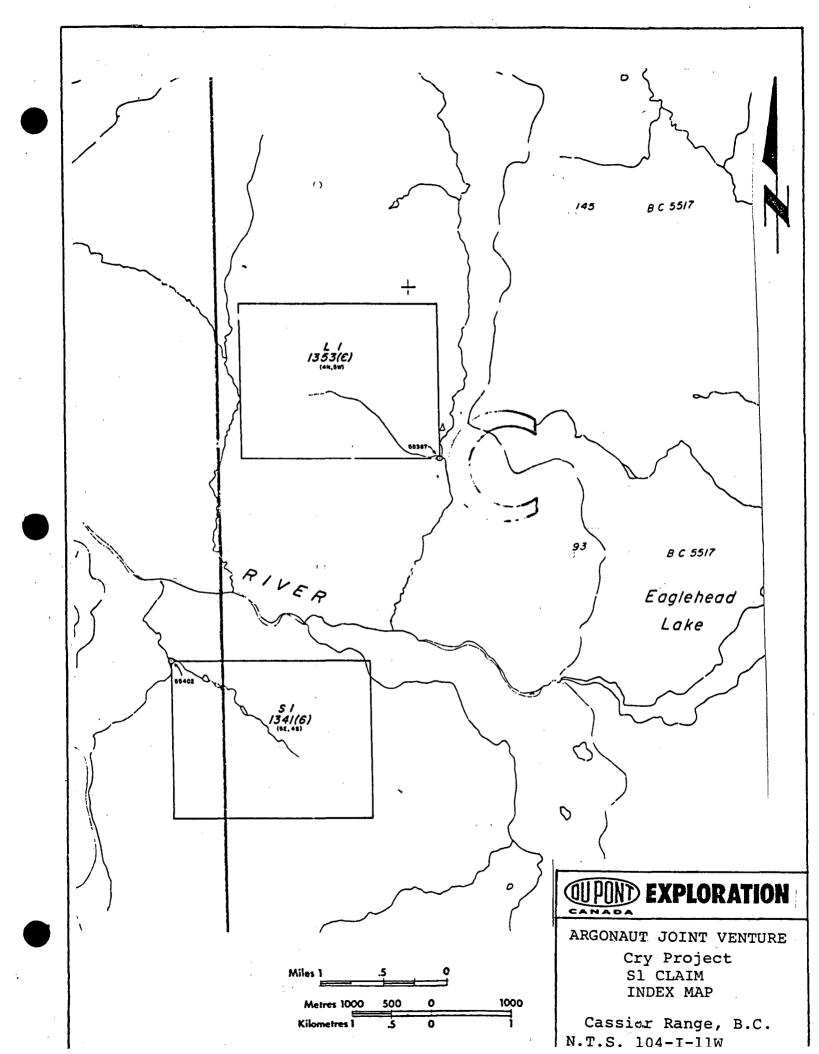
The Sl claim is comprised of 20 units, with a tag number of 55402, a record number of 1341, and a record date of June 25, 1980. The current owner and operator is Du Pont of Canada Exploration Ltd. The claim was staked in order to facilitate the investigation of a gold geochemical anomaly located at the northwest corner of the claim.

(d) Economic Assessment of the Property

There is no public record of previous work on the claim to the writers knowledge. The present investigation did not result in the discovery of mineralization of economic significance.

(e) Summary of Work Performed

A total of 19 soil samples were collected on the property. As no outcrops were noted on the property, geological observations were restricted to an examination of glacial debris.



II GEOLOGY

(a) Introduction

The claim is covered with an ablation moraine of sand, gravel and boulders, and is devoid of outcrops. Examination of boulders suggests the claim is underlain by mafic schistose volcanic rocks, and argillaceous and arenaceous sedimentary rocks. Small float pieces of greywacke containing narrow (2 cm) milky white quartz veins were also noted.

No data concerning lithology, structure, or mineralization of the bedrock was collected.

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 glacial debris.

All samples were collected in pre-numbered, wetstrength 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 19 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

The sample sites, sample numbers and the values obtained for gold are shown on Dwg. NO. AR 80-166. The gold values range from 5 to 40 ppb and interpreted to reflect background values. No anomalous values were recognized, and the soil sampling did not substantiate the anomalous gold geochemical sample collected at the northwest corner of the claim, as all samples were collected from ablation moraine sediments.

IV COST STATEMENT

(a) Wages

	Rate/ 	Spec. dates	No. days	Cost	
l geologist	\$172.00	Aug.4/80, Feb.10/81	1.5	\$	258.00
l geol.asst.	50.82	Aug.4/80	0.5		25.41
1 field asst.	46.58	Aug.4/80	0.5		23.29
l field asst.	39.18	Dec.8/80	1.0		39.18

\$

345.88

55.05

(b) Room and Board

A per diem rate of \$36.70 applies to the above dates for field work only. This represents 1.5 person days: \$

(c) Transportation

i) In support of field work

Date	Flying Hrs.	Rate	Fuel	
Aug.4/80	1.4	\$365/hr	42 gal @ \$2.00	\$ 595.00

(d) Analytical Services

Sample Type	No.Samples	Element	Unit Cost	
Soil Soil	19 19	Au Prep.	\$4.25 0.60	\$ 80.75 11.40
				\$ 92.15

(e) Report Preparation

	Rate/ day	Spec. dates	No. days	
Typing Drafting	\$ 62.00 124.00	Apr.1/81 Mar.12/81	1 1	\$ 62.00 124.00
		·		\$ 186.00

GRAND TOTAL \$1,274.08

V QUALIFICATIONS

- I, Gerald A. Harron, do hereby certify that:
- 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 4 and 1981 April 1, I supervised/directed a field programme on the Sl claim on behalf of Du Pont of Canada Exploration Limited.

Derold & Harron

Gerald A. Harron

PHUNE /980-5814

APPENDIX A

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments Corner 15th Street and Bewicke 705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA

ANALYTICAL PROCEDURE REPORTS FOR ASSESSMENT WORK

PROCEDURE 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 pretreated with HNO_3 and $HC1O_4$, mixture.

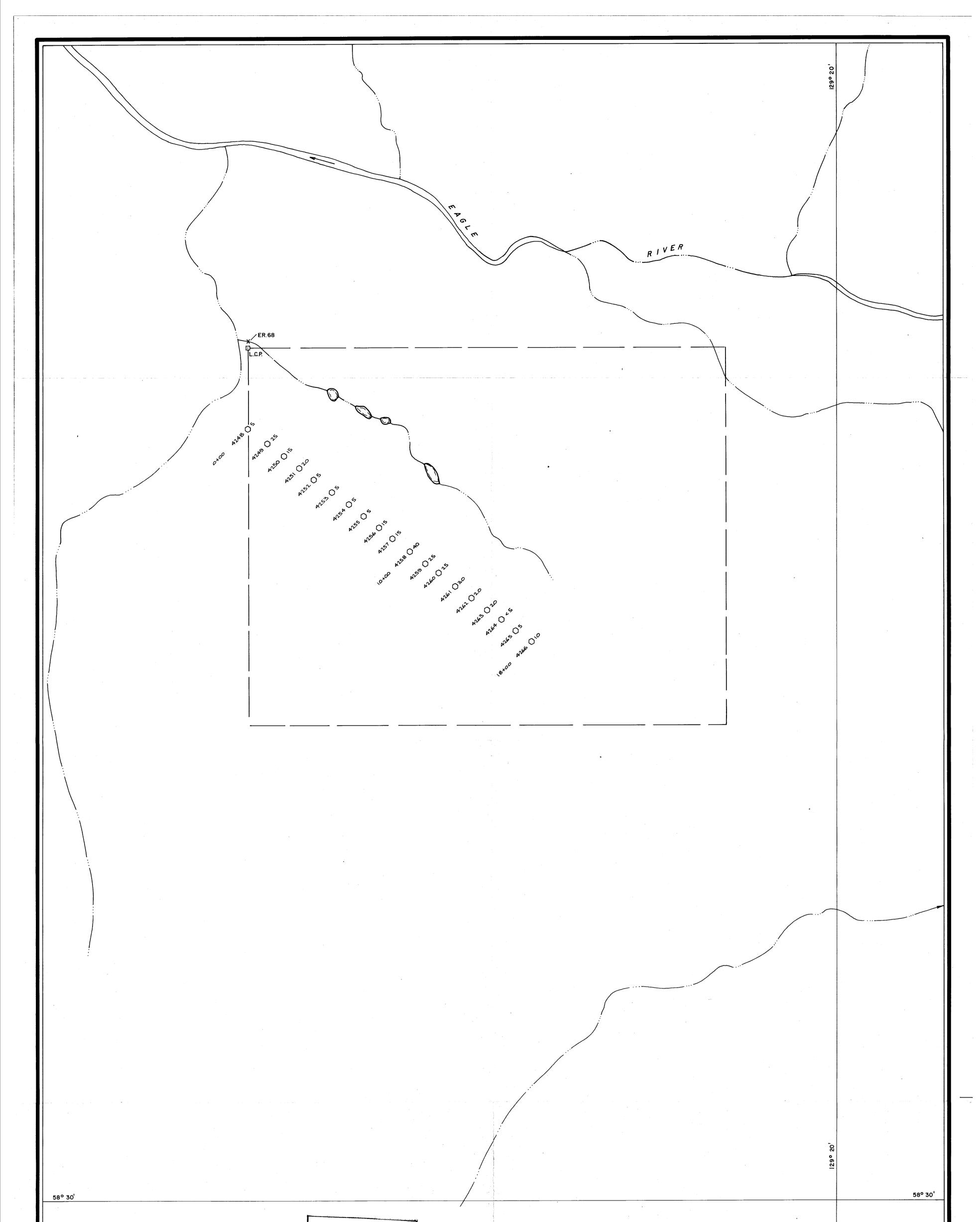
After pretreatments the samples are digested with <u>Aqua Regia</u> solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

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.







4249 O SOIL SAMPLE LOCATION & No. ('D' SERIES) O 25 -80 MESH VALUE FOR Au IN P.P.B. (SOIL)

X-ER.68 ORIGINAL STREAM SAMPLE LOCATION & No.

ORIGINAL SAMPLE RESULTS

 Loc.
 Tag
 Mesh
 Au
 Pb
 Cu
 Ag
 %HM
 Hg

 ER68
 #0620
 - 20
 15
 15
 20
 0.6
 11.80

 -100
 600
 9
 17
 0.8
 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.

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