

DU PONT OF CANADA EXPLORATION LIMITED

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE BAX CLAIMS

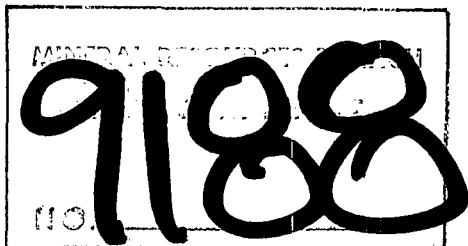
LIARD MINING DIVISION

LAT. 56°42'N, LONG. 130°59'W

NTS: 104-B-10W

OWNER OF CLAIMS: Du Pont of Canada Exploration Limited

OPERATOR: Du Pont of Canada Exploration Limited



Author: D. M. Strain

Date Submitted: 1981 June 8

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I INTRODUCTION(a) Location and Access

The BAX claim group lies in the north-central portion of the Iskut River map sheet (104-B-10W) (56°42'N latitude, 130°59'W longitude). The southwest corner of the claim group lies approximately 500 m north of the junction of the Verrett and Iskut Rivers with the Verrett River roughly delineating the western boundary of the claims.

Helicopter offers the only practical access to the property. Landing sites directly on the property are limited to small clearings with uneven terrain.

(b) Claim Definition

The BAX claim group was staked to cover the drainage of a small creek containing anomalous gold.

The group comprises 20 units in the Liard Mining Division and was recorded July 14, 1980. Du Pont of Canada Exploration Limited is the current owner and operator and views the property as a potential gold prospect.

(c) Summary of Work

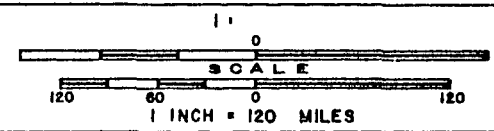
To date work performed consists of 2 person days of follow-up in an attempt to determine the source of the anomalous gold value.

A short traverse was conducted from the north claim boundary, central portion, in a south-westerly direction. A total of 9 soil samples were taken (Dwg. AR 80-202 and geology was noted along traverse. Six soils and 3 rock samples were taken from a gossan zone in the north-central portion of the property.

139° 138° 137° 136° 135° 134° 133° 132° 131° 130° 129° 128° 127° 126° 125° 124° 123° 122° 121° 120° 119° 118° 117° 116° 115°

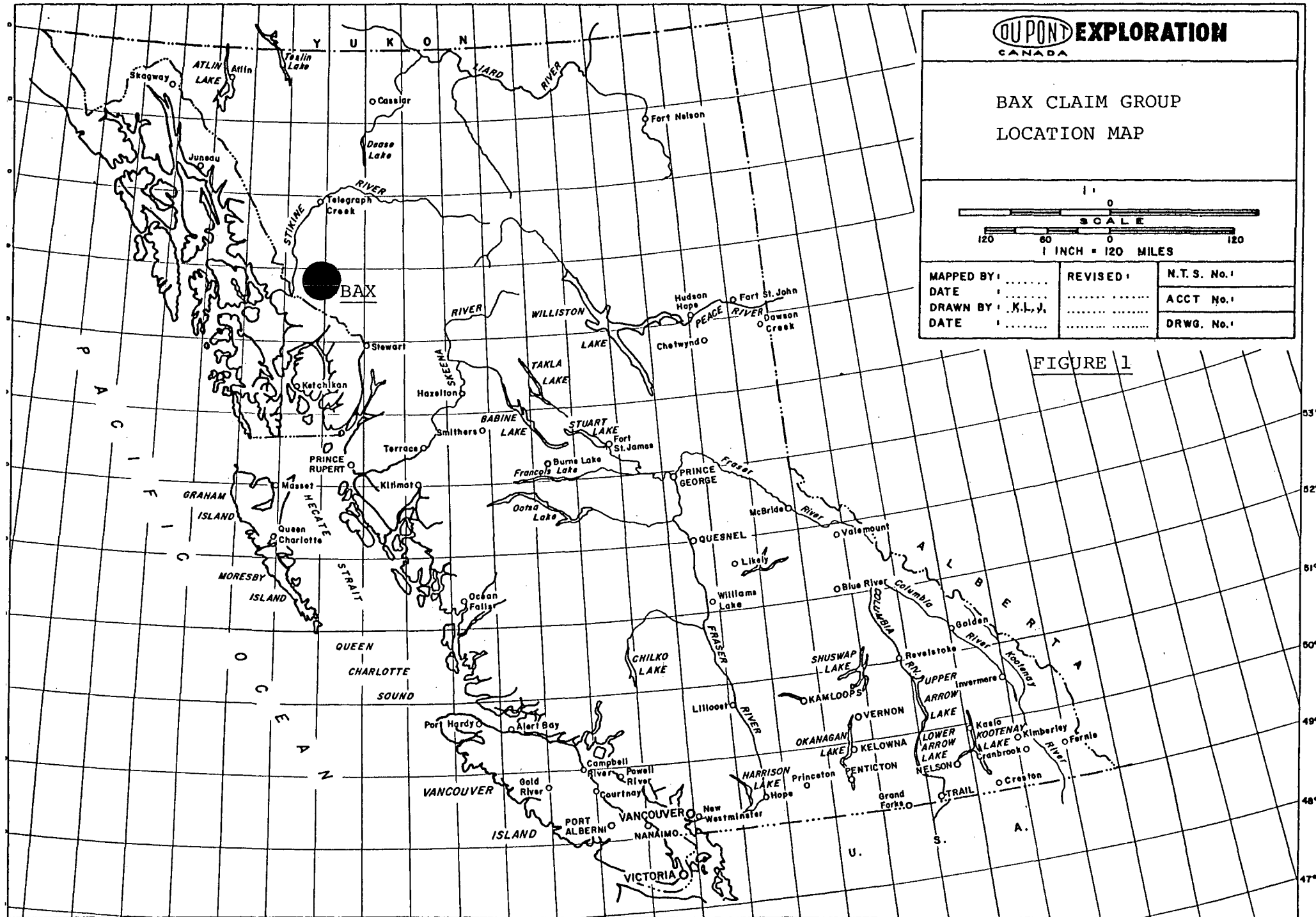
DU PONT EXPLORATION
CANADA

BAX CLAIM GROUP
LOCATION MAP



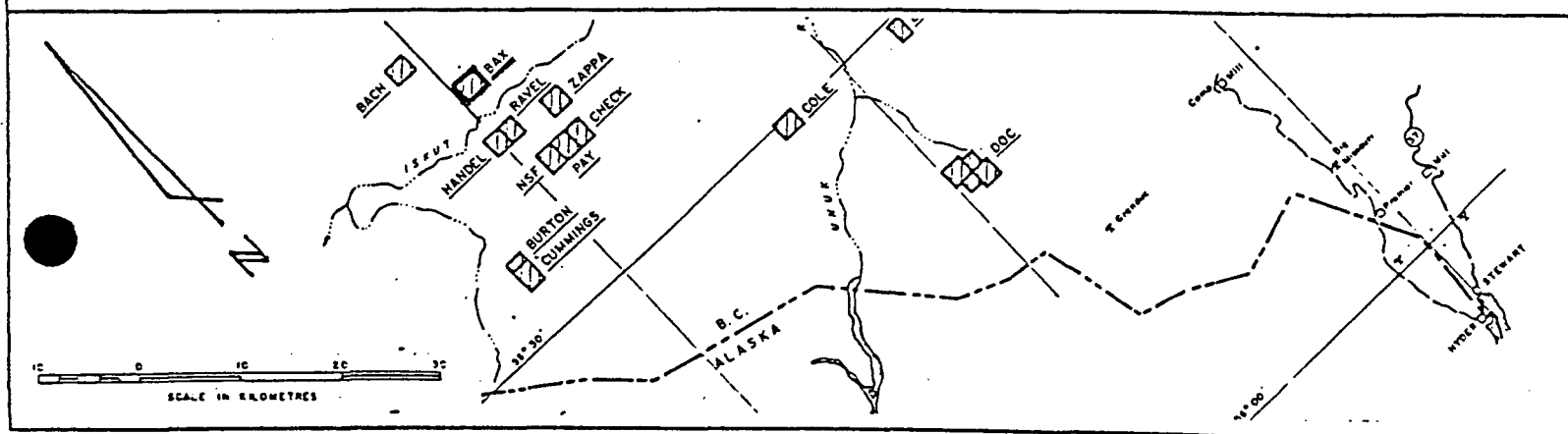
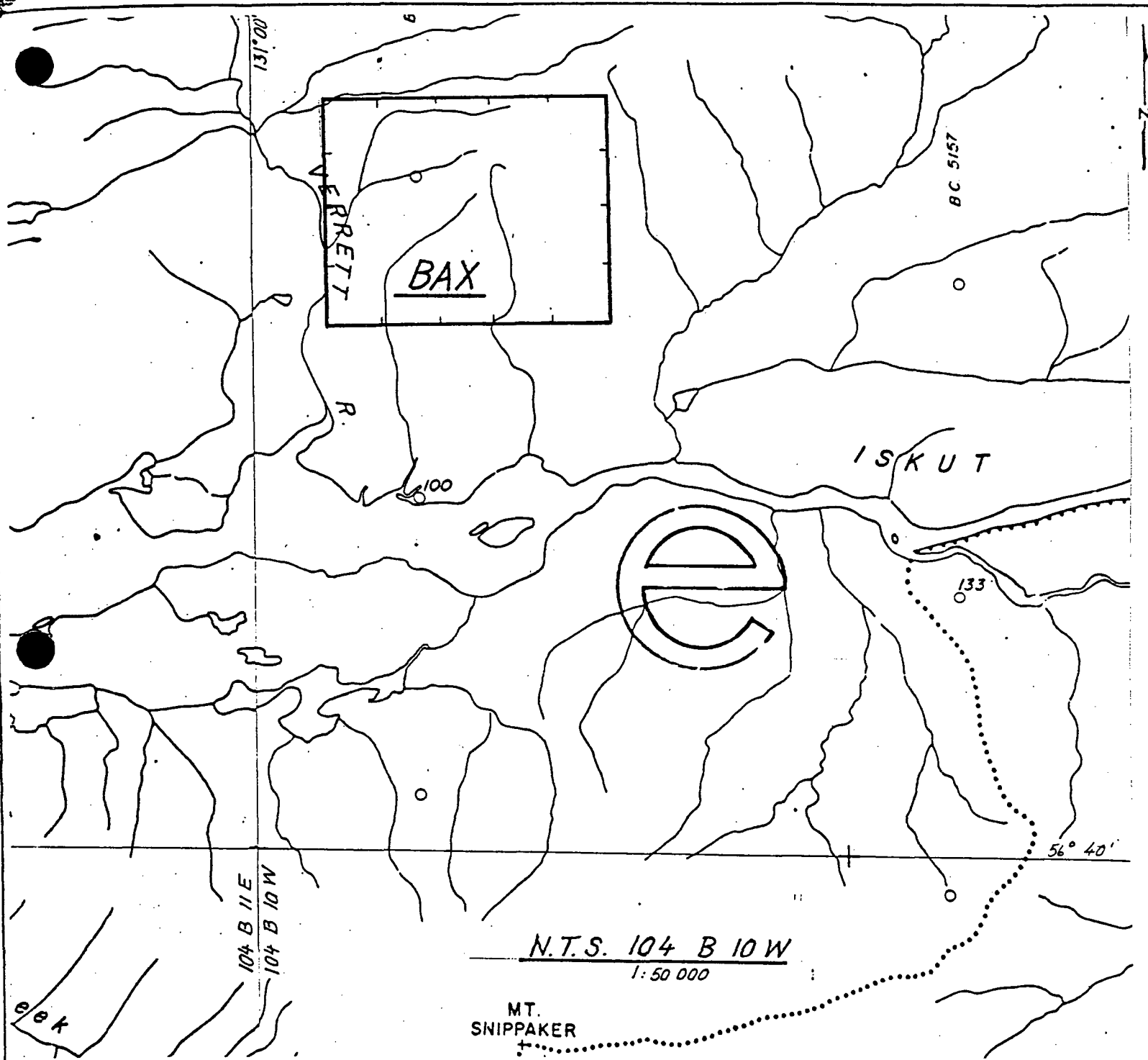
| | | |
|------------------|----------------|-------------|
| MAPPED BY: | REVISED: | N.T.S. No.: |
| DATE: | | ACCT No.: |
| DRAWN BY: K.L.J. | | DRWG. No.: |
| DATE: | | |

FIGURE 1



137° 136° 135° 134° 133° 132° 131° 130° 129° 128° 127° 126° 125° 124° 123° 122° 121° 120° 119° 118° 117° 116° 115° 114° 113° 112°

FIGURE 2



(d) Physiography

The area surrounding the BAX claim group is very rugged, heavily glaciated, mountainous terrain. Most of the smaller rivers and creeks have carved deep, steep walled valleys, headed by small to expansive glaciers. The ice field a few kilometres north of the claims covers at least 350 square km.

The property lies within the Iskut River valley, the southwest corner just 500 m from the Iskut-Verrett River junction. The claims cover an area of moderate slope and heavy vegetation drained by a few small creeks. Elevation ranges from 150 m to 915 m.

Devils club, alder and other shrubs are thick near stream beds and land slides while other areas are covered by spruce and hemlocks.

II GEOLOGY(a) Introduction

The BAX claim group lies within the western margin of the Intermontane Belt in the Coast Range Mountains.

The property is heavily vegetated and soil covered and as a result very little bedrock is exposed. Outcrop that was examined consists entirely of volcanic rocks of felsic to intermediate composition.

(b) Claim Geology

Massive to heavily fractured felsite (light coloured volcanic), cherty, pyritic tuffs, tuffs and hornblende porphyritic volcanic rocks were seen in small, separated outcrops in the north-central portion of the claims.

The felsite is very light bluish-grey in colour and without obvious textures. In the southern most outcrop these rocks are transected by vertical, east-west trending fractures and are heavily gossaned. To the north these rocks are massive and in contact with cherty, pyritic tuffs.

The tuffs in contact with the felsite are banded and cherty. The bands are subtly folded and alternate from light grey to slightly darker purple-grey in colour. These rocks are in contact with massive, softer, pale olive green tuffs.

A small outcrop of hornblende porphyry occurs to the east of the tuffs. Small (3-4 mm) hornblende phenocrysts are supported by a light green, aphanitic matrix. The composition is probably in the dacite-andesite range.

(c) Mineralization

Pyrite occurs in the fractured felsite and in the cherty tuff. In the felsite, pyrite occurs as fracture coatings and fine disseminations, in the cherty tuff as coarse blebs. The concentration of pyrite in these rocks ranges from 2% to 15%.

No mineralization was seen in any of the other rocks on the claims.

(d) Conclusion

On the basis of the few outcrops observed, the claims are underlain by felsic to intermediate volcanic rocks.

Pyrite occurs in fractured felsites as fracture coatings and fine disseminations, and in cherty tuffs as coarse blebs.

Prospecting at higher elevations where outcrop might be better exposed is suggested in order to more clearly define the geology of the claims. Further prospecting in the vicinity of the fractured and gossaned felsite is also required.

III GEOCHEMISTRY(a) Sample Collection, Preparation and Analysis

A total of 1, 10 kg stream sediment sample, 9 soil samples and 3 rock samples were collected from the BAX claims for analyses. (Dwg. AR 80-202). At each collection site the specific information pertaining to the sample was recorded on a special information tag. A flag bearing the sample number was secured adjacent to the sample site.

The 10 kg samples were collected in large plastic bags, the soil samples in Kraft sample envelopes. All samples were sent to Min-En Laboratories in North Vancouver.

The 10 kg samples were wet sieved and separated into a -20 +100 mesh coarse fraction and a -100 mesh fine fraction in the field lab. At Min-En Laboratories the coarse fraction was passed through tetrabromethane and a heavy mineral concentrate was obtained. The concentrate and the -100 mesh fraction were analyzed for Au and Ag along with a host of other elements (see table-Dwg. AR 80-202).

Soil samples #5684-86 were collected along traverse (Dwg. AR 80-202) at random intervals. Samples 5687 to 5692 were collected at 10 m intervals below an outcrop of fractured and gossaned felsite. All samples were taken from the C-detritus or rock grit horizon. All samples were analyzed for Au, Ag, Cr, Cu, Mo, Pb and Zn as described in Appendix A.

All rock samples were analyzed for Au following standard assay procedures.

(b) Results and Interpretation

Coarse, 10 kg stream sediment sample #1181 reported anomalous Au (650 ppb) in the -100 mesh fraction. The BAX claims were staked on this basis.

Of the few soil samples taken, most are anomalous in some respect. The results are as follows:

| <u>Sample</u> | <u>Mesh</u> | <u>Initial Analysis - Subsequent Analysis (ppm)</u> | | | | | | | |
|---------------|-------------|---|----------------|-------------|-----------|-----------|-----------|------------|-------------|
| | | <u>Au(ppb)</u> | <u>Ag(ppm)</u> | <u>Ag</u> | <u>Cr</u> | <u>Cu</u> | <u>Mo</u> | <u>Pb</u> | <u>Zn</u> |
| 5684 | -40 | <u>50</u> | 1.0 | 0.5 | 15 | 147 | 5 | 41 | <u>1040</u> |
| 5685 | -80 | <u>40</u> | <u>2.6</u> | 1.8 | 12 | 50 | 13 | 28 | 215 |
| 5686 | -80 | 15 | 0.7 | 0.3 | 12 | 84 | 12 | 18 | 168 |
| 5687 | -80 | <u>200</u> | 1.0 | 1.5 | 17 | 77 | 5 | 31 | 118 |
| 5688 | -80 | 20 | <u>6.5</u> | <u>10.7</u> | 16 | 258 | <u>22</u> | <u>223</u> | 210 |
| 5689 | -80 | 35 | 2.0 | 0.8 | 16 | 237 | 18 | 24 | 122 |
| 5690 | -80 | 5 | 0.6 | 0.5 | 11 | 106 | 4 | 20 | 68 |
| 5691 | -80 | <u>45</u> | 0.5 | 0.6 | 13 | 176 | 8 | 46 | 96 |
| 5692 | -80 | 5 | <u>2.4</u> | 1.5 | 40 | 82 | 0 | 13 | 66 |

The underlined values represent significant anomalies.

The highest Au, Ag, Cu, Mo and Pb values are from those samples taken below the fractured and gossaned felsite.

Further soil sampling to cover a larger area in the vicinity of the gossan zone to determine trends and extent of Au mineralization is required.

IV COST STATEMENT

(a) Wages

| | <u>Rate/</u> <u>day</u> | <u>Spec.</u> <u>dates</u> | <u>No.</u> <u>days</u> | <u>Cost</u> |
|----------------------|----------------------------|------------------------------|---------------------------|---------------|
| 1 field geol. | \$ 51.88 | Jul.24/80 | 1 | \$ 51.88 |
| 1 jr. field asst. | 46.58 | Jul.24/80 | 1 | 46.58 |
| 1 tech.asst. | 39.18 | Nov./80 | 0.5 | 19.59 |
| 1 field geol. | 51.88 | Oct.9/80 | 0.5 | 25.94 |
| 1 field geol. | 51.88 | Nov.10,13/80 | 1 | 51.88 |
| 1 field geol. | 51.88 | Mar.19/81 | 0.5 | 25.94 |
| 1 field geol. | 51.88 | Apr.8/81 | 0.5 | 25.94 |
| | | | | <u>247.75</u> |
| | | | | \$ 247.75 |

(b) Room and Board

Per diem rate of \$50.41 per person day
Based on 2 person days: \$ 100.82

(c) Transportation

Costs to and from the project area during July pertinent to these claims, are split amongst claims that had work conducted upon.

A. To/From Project Area - Scheduled Carriers

| <u>Date</u> | <u>From/To</u> | <u>Via</u> | <u>No. Persons</u> | |
|-------------------|-----------------------------|------------|--------------------|------------|
| Jul.13/80 | Vanc/Stewart | CP/TPA | 2 @ \$150.10 | \$ 300.20 |
| Jul.14/80 | Vanc/Stewart | CP/TPA | 3 @ \$150.10 | 450.30 |
| Jul.15-16 1980 | Whitehorse/ Vanc/Stewart | CP/TPA | 1 @ \$301.00 | 301.00 |
| Jul.16/80 | Vanc/Stewart | CP/TPA | 1 @ \$150.10 | 150.10 |
| Jul.21-22 1980 | Whitehorse/ Vanc/Stewart | CP/TPA | 1 @ \$301.00 | 301.00 |
| | | | | <hr/> |
| | | | | \$1,502.60 |

BAX portion of expenses (2/34 person days) \$ 88.39

Helicopter - (Stewart-Camp-Stewart)

Terr-Air Rotary Ltd.

| | |
|--|------------|
| Jul.16 - Inv.#907 (5.5 hrs @ \$366/hr) | \$2,013.00 |
| Jul.18 - Inv.#917 (8.3 hrs @ \$366/hr) | 3,037.80 |
| | <hr/> |
| | \$5,050.80 |

Charter split with another area: \$2,525.40

BAX portion of expenses: \$ 148.55

B. To/On Claims

Terr-Air Inv.#591 (1.03 hrs) \$ 376.98

Total transportation expenses: \$ 613.92

(d) Analytical Services

Min-En Laboratories Inv. #6862

| | | |
|--|----|--------------|
| 9 stream sed./soil - prep. (@ \$0.60 each) | \$ | 5.40 |
| 9 stream sed./soil - Au (@ \$4.25 each) | | 38.25 |
| 9 stream sed./soil - Ag (@ \$0.75 each) | | 6.75 |
| 3 rock - prep. (@ \$2.50 each) | | 7.50 |
| 3 rock - Au (fire) (@ \$7.50 each) | | 22.50 |
| | \$ | <u>80.40</u> |

Riocanex Laboratory

| | | |
|---|--------|-----------|
| 9 stream sed./soil - Mo,Cr,Pb,Zg,Zn,Cu (@ \$4.75) | \$ | 42.75 |
| | Total: | \$ 123.15 |

(e) Report Preparation

| | <u>Rate/ day</u> | <u>Date</u> | <u>No. days</u> | |
|----------|----------------------|--------------|---------------------|------------------|
| Drafting | \$127.00 | Apr.14,15/81 | 2 | \$ 254.00 |
| Typing | 64.80 | Apr.23/81 | 1 | 64.80 |
| | | | | <u>\$ 318.80</u> |

(f) Miscellaneous

| | |
|--|------------------|
| Cooks wages @ \$86.40/day (July 16-28) | \$1,123.20 |
| BAX portion of expenses (2/34 person days) | 66.07 |
| Room and board - pilot and cook, Per diem rate of \$50.41 | \$1,310.66 |
| BAX portion of expenses | 77.10 |
| Total miscellaneous expenses: | \$ <u>143.17</u> |

| | |
|-------------|--------------------------|
| GRAND TOTAL | <u><u>\$1,547.61</u></u> |
|-------------|--------------------------|

V. QUALIFICATIONS

I, David M. Strain, do hereby certify that:

1. I am a geologist residing at #202-330 East 7th Avenue, Vancouver, British Columbia, and employed on a part time basis by Du Pont of Canada Exploration Limited.
2. I am a graduate of Cambrian College of Applied Arts and Technology (Sudbury, Ontario) with a Diploma in Geological Engineering Technology.
3. I am presently enrolled in the Geological Sciences programme at the University of British Columbia endeavoring to obtain a B.Sc. degree in geology.
4. I have practised my profession in geology for the past three years in Ontario and British Columbia.
5. On 1980 July 24, I executed a field programme on the BAX claim on behalf of Du Pont of Canada Exploration Limited.



David M. Strain

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 July 13 and 1981 April 20, I supervised/directed a field programme on the BAX claim on behalf of Du Pont of Canada Exploration Limited.

Gerald A. Harron
Gerald A. Harron

*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.

*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 WORKPROCEDURES FOR Mo, Cu, Cd, Pb, Mn, Ni, Ag, Zn, As, F

Samples are 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 by a jaw crusher and pulverized by ceramic plated pulverizer.

1.0 gram of the samples are digested for 6 hours with HNO_3 and HClO_4 mixture.

After cooling samples are diluted to standard volume. The solutions are analyzed by Atomic Absorption Spectrophotometers.

Copper, Lead, Zinc, Silver, Cadmium, Cobalt, Nickel and Manganese are analysed using the CH_2H_2 -Air flame combination but the Molybdenum determination is carried out by C_2H_2 - N_2O gas mixture directly or indirectly (depending on the sensitivity and detection limit required) on these sample solutions.

For Arsenic analysis a suitable aliquote is taken from the above 1 gram sample solution and the test is carried out by Gutzeit method using $\text{Ag CS}_2\text{N} (\text{C}_2\text{H}_5)_2$ as a reagent. The detection limit obtained is 1.2 ppm.

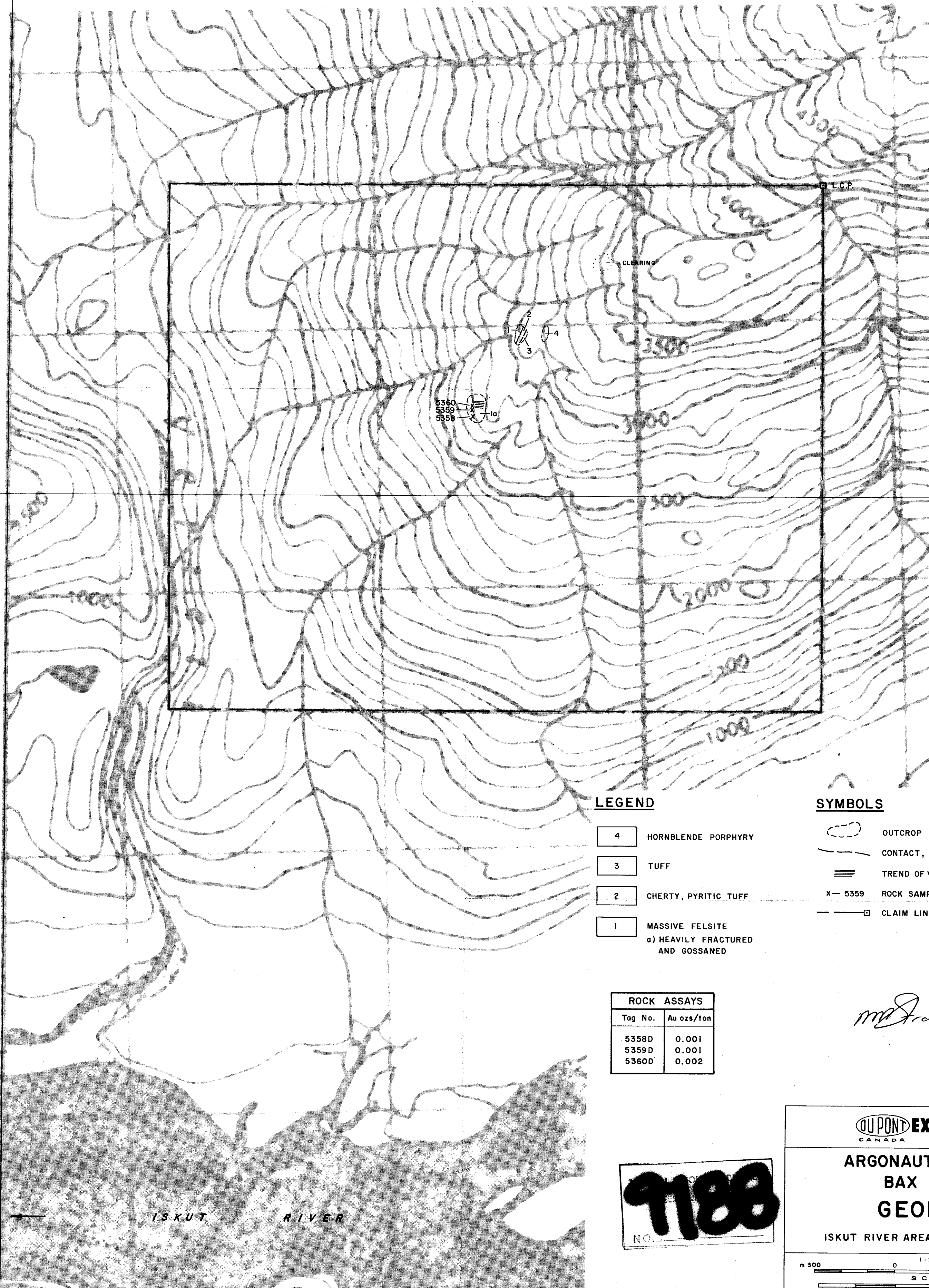
Fluorine analysis is carried out on a 200 milligram sample. After fusion and suitable dilutions the fluoride ion concentration in rocks or soil samples are measured quantitatively by using fluorine specific ion electrode. Detection limit of this test is 10 ppm F.

131° 00'



56° 43'

56° 43'



LEGEND

- 4 HORNBLende PORPHYRY
- 3 TUFF
- 2 CHERTY, PYRITIC TUFF
- 1 MASSIVE FELSITE
o) HEAVILY FRACTURED AND GOSSANED

SYMBOLS

- OUTCROP
- CONTACT, INFERRED
- TREND OF VERTICAL FRACTURES
- X - 5359 ROCK SAMPLE LOCATION & NUMBER
- CLAIM LINE & LEGAL CORNER POST

| ROCK ASSAYS | |
|-------------|------------|
| Tag No. | Au ozs/ton |
| 5358D | 0.001 |
| 5359D | 0.001 |
| 5360D | 0.002 |

M. J. Train

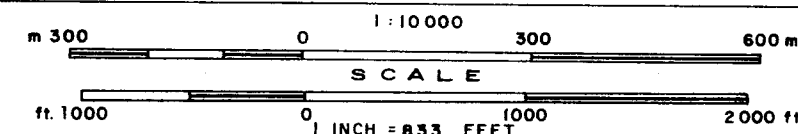
ISKUT RIVER

9188
NO.

DU PONT EXPLORATION
CANADA

**ARGONAUT PROJECT
BAX CLAIM
GEOLOGY**

ISKUT RIVER AREA, BRITISH COLUMBIA



| | | |
|-------------------|----------|-----------------------|
| MAPPED BY: D.M.S. | REVISED: | N.T.S. No.: 104 B 10W |
| DATE: 80.07.24 | | ACCT No.: 347-47 |
| DRAWN BY: K.L.J. | | DRWG. No.: AR. 80-201 |
| DATE: 81.04.14 | | |

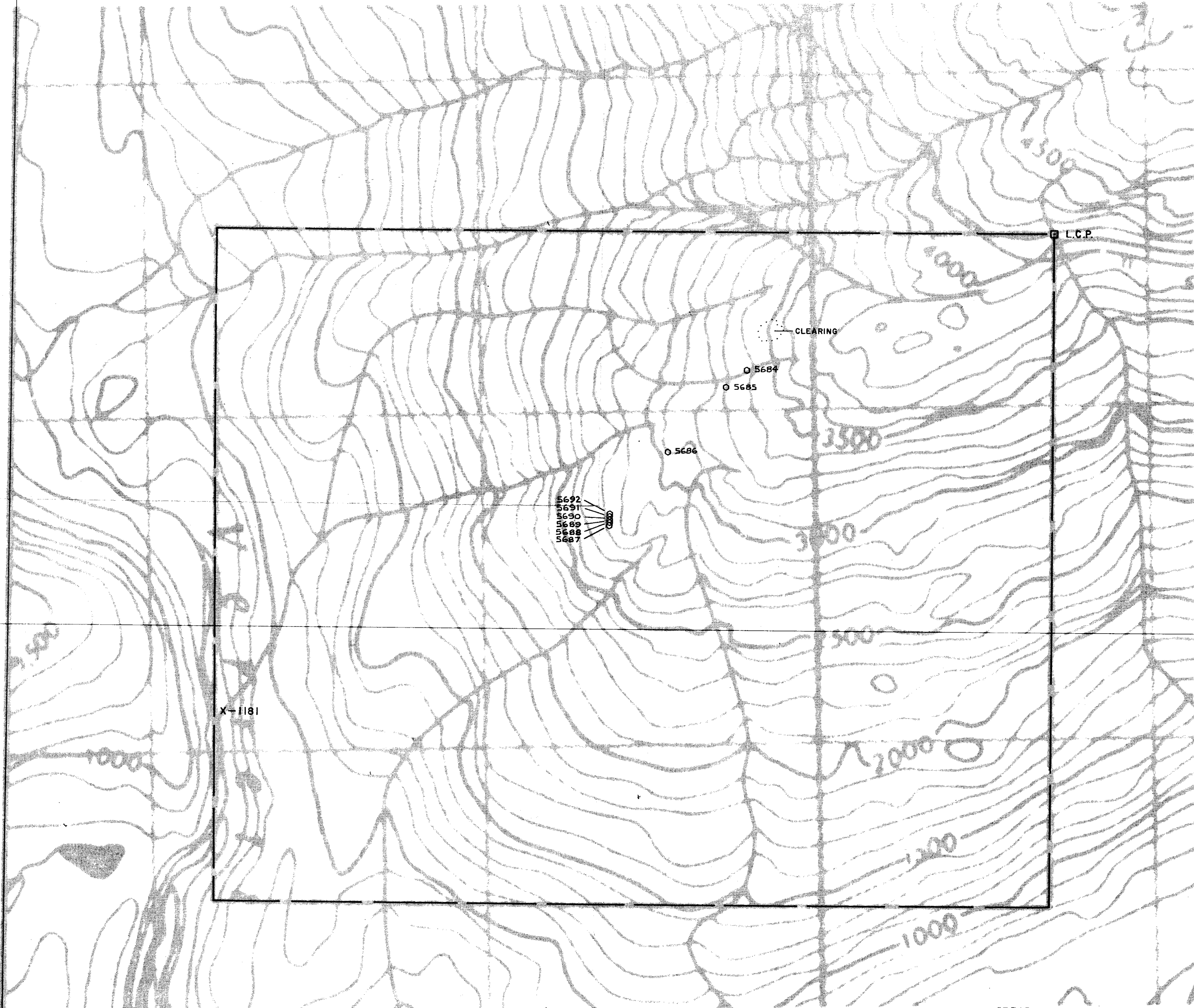
131° 00'

131° 00'



56° 43'

56° 43'



ORIGINAL SAMPLE RESULTS

| Tag | Mesh | Au P.P.B. | As P.P.M. | W P.P.M. | Sb P.P.M. | Pb P.P.M. | Cu P.P.M. | Ag P.P.M. | Cd P.P.M. | %H.M. |
|------|------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------|
| 1181 | - 20 | 5 | 14 | 12 | 170 | 26 | 74 | 2.7 | 0.3 | 9.02 |
| | -100 | 650 | 11 | < 2 | 40 | 24 | - | 0.8 | 0.6 | |

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.

FOLLOW-UP SOIL SAMPLE RESULTS

| Tag | Mesh | Au P.P.B. | Ag P.P.M. | Cr P.P.M. | Cu P.P.M. | Mo P.P.M. | Pb P.P.M. | Zn P.P.M. |
|------|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 5684 | - 40 | 50 | 1.0 | 15 | 147 | 5 | 41 | 1040 |
| 5685 | - 80 | 40 | 2.6 | 12 | 50 | 13 | 28 | 215 |
| 5686 | - 80 | 15 | 0.7 | 12 | 84 | 12 | 18 | 168 |
| 5687 | - 80 | 200 | 1.0 | 17 | 77 | 5 | 31 | 118 |
| 5688 | - 80 | 20 | 6.5 | 16 | 258 | 22 | 223 | 210 |
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| 5691 | - 80 | 45 | 0.5 | 13 | 172 | 8 | 46 | 96 |
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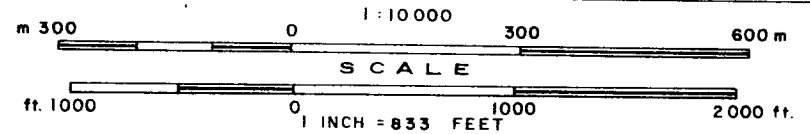
MINERAL RESOURCES DIVISION
9188
NO.

D.M.S.

ISKUT RIVER

DUPONT EXPLORATION
CANADA

**ARGONAUT PROJECT
BAX CLAIM
GEOCHEMISTRY**
Au IN PPB. & Ag, Cr, Cu, Mo, Pb, Zn IN P.P.M.
ISKUT RIVER AREA, BRITISH COLUMBIA



| | | |
|-------------------|----------|------------------------|
| MAPPED BY: D.M.S. | REVISED: | N.T.S. No.: 104 B 10 W |
| DATE: 80.07.24 | | ACCT No.: 347-47 |
| DRAWN BY: K.L.J. | | DRWG. No.: AR. 80-202 |
| DATE: 81.04.14 | | |

131° 00'