

84-#15-11923

GEOLOGY, GEOCHEMISTRY, GEOPHYSICS  
of  
THE THORN PROPERTY  
(Trapper Lake, B.C.)

104K - 10W

Atlin Mining Division  
58°34'N, 132° 48'W

by  
J.E. Wallis, P. Eng.,  
for  
INLAND RECOVERY GROUP LTD.  
(Owner and financier)

AUGUST, 1983

Daisy (1302), Daisy 2 (1317)

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**11,923**

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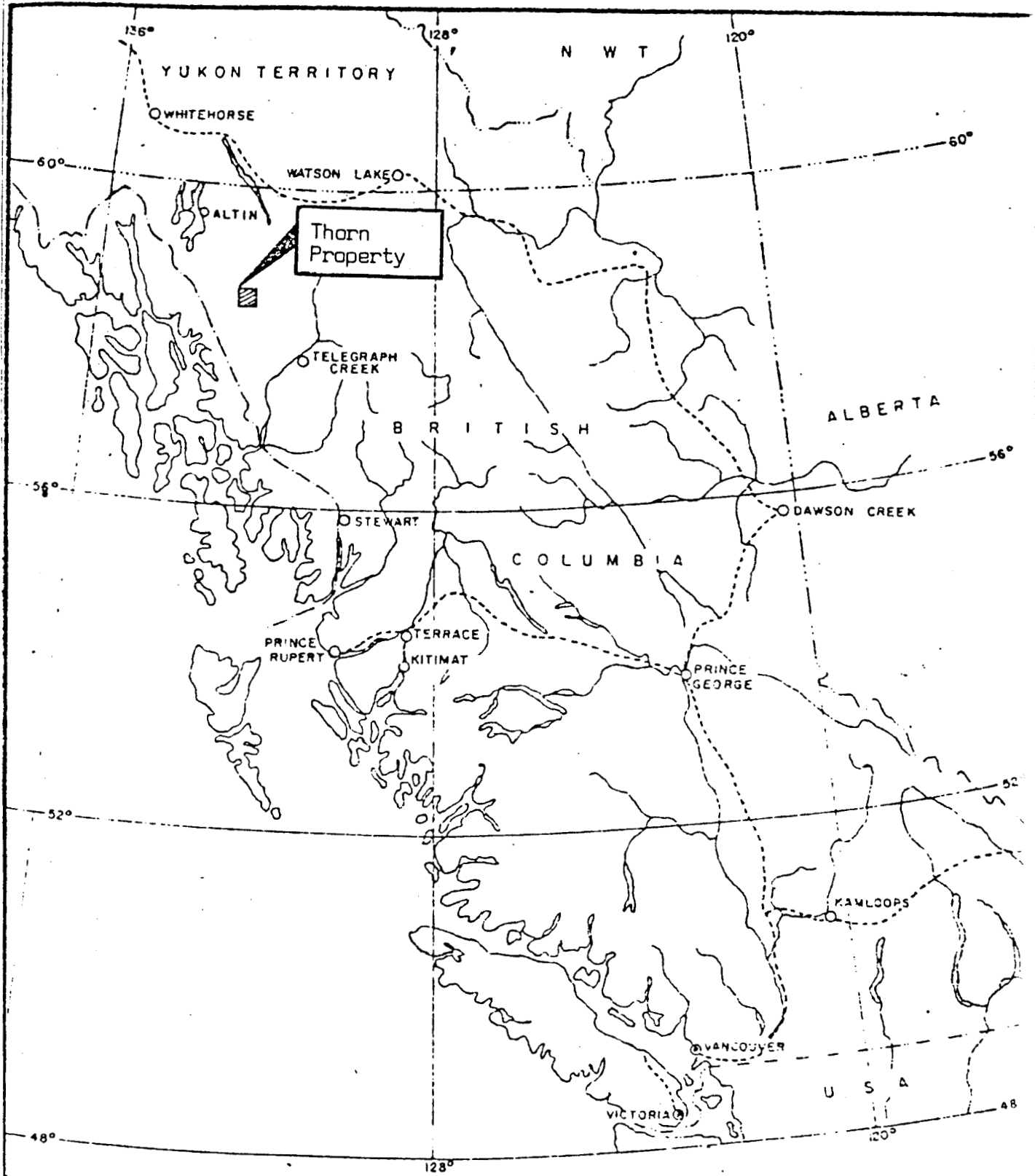
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Cost Estimate

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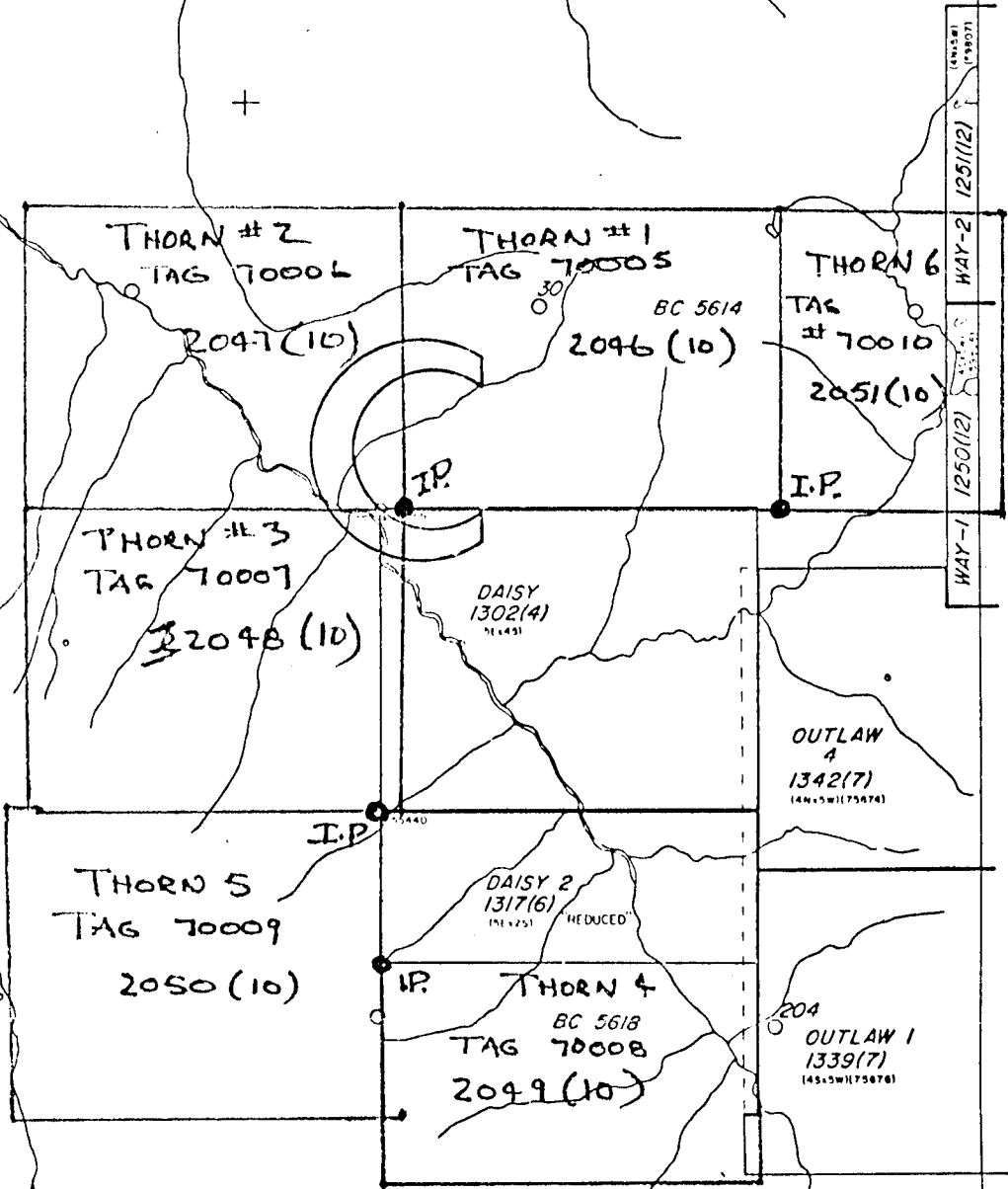
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LOCATION MAP  
INLAND RECOVERY GROUP LTD.  
THORN PROPERTY

Figure 1

FLAHINE



SEE MAP 104-K-7-W

58°30'  
132°45'

UNITED STATES REFERENCE MAP 104K/10W

F. 2

## SUMMARY

The Daisy 1 and 2 mineral claims comprising 30 contiguous claim units are controlled by Inland Recovery Group Ltd. of Vancouver, B.C. The property is readily accessible by fixed wing aircraft and helicopter from Atlin, B.C. Preliminary geologic mapping, prospecting and sampling during the latter part of July and early August 1983 has defined an east/west trending quartz-pyrite breccia zone up to 250 metres wide and approximately 600 metres in length containing significant amounts of tetrahedrite, enargite, pyrite and quartz veining. This breccia zone is considered worthy of definitive examination through diamond drilling.

A drilling program is recommended to determine if economic quantities of precious metal mineralization is contained within this zone. It is also recommended that the preliminary drilling program be completed during September and October of 1983 to permit careful assessment of the geologic controls during the winter months. Cost of the program is estimated at \$150 per foot or \$200,000 CAN.

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## INTRODUCTION

At the request of Mr. Carl Zuber and Mr. J.R. Woodcock, a preliminary exploration program was conducted on the Daisy Claims between July 12 and August 2, 1983. The objective of this program was to discover and define the source of known tetrahedrite and enargite bearing float along La Jaune Creek. The program was successful. An east/west trending quartz-pyrite breccia zone carrying intermittent tetrahedrite and enargite mineralization was located. The most prominent discovery was a 7 meter wide zone of enclon tetrahedrite, enargite, pyrite and quartz veining upslope from one of the float trains.

A four man field crew under the supervision of Mr. J.D. Blanchflower, F.G.A.C., geologically mapped the central portion of the claim group, established a blazed and flagged grid over the mineralized breccia zone, conducted a variable VLF-EM survey over the entire grid, and collected 478 soil and silt samples and 21 rock samples for assay.

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## LOCATION AND ACCESS

The Daisy Claims or Thorn Property is located approximately 130 kilometers south southwest of Atlin, B.C. and 12 kilometers northwest of Trapper Lake.

Geographical coordinates of the property are 58° 34' north latitude and 132° 48' west longitude.

Access to the property is via fixed wing aircraft on floats from either Whitehorse, Yukon or Atlin, B.C. to Trapper Lake. From Trapper Lake it is a 12 kilometer trip by helicopter to the campsite on La Jaune Creek. It should be noted that the cost of access to an isolated region such as this is high. In this case a helicopter was based at Trapper lake while the program was conducted and was chartered at a nominal rate. During the bulk of the year, access would require direct helicopter support from either Atlin or Whitehorse, in addition to fixed wing support.

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## PROPERTY

Inland Recovery Group Ltd. controls 30 contiguous claim units described as follows:

<u>Claim Name</u>	<u>No. of Units</u>	<u>Record No.</u>	<u>Expiry Date</u>
Daisy 1	20	1,302	April 24, 1985
Daisy 2	10	1,317	June 15, 1984

All are recorded on National Topographic Series staking sheet 104 K/104W, Atlin Mining Division, British Columbia (see Figure 2, Claim Map).

## PHYSIOGRAPHY

The property is situated regionally within the eastern portion of the Coast Plutonic Complex and has very high relief, from steep canyons to high mountains.

Relief on the property is in the order of 800 meters from 800 to 1,600 meters. Drainage is into the Sutlahine River via La Jaune Creek and its tributaries. Most of the claims are covered by heavy forest and undergrowth, notably thick slide alder, devil's club and scrub conifers. Bedrock exposures are commonly limited to steep canyon slopes and small drainage systems.

## CLIMATE

No reliable information is available for the climatic conditions of the area. It is reported that under normal conditions average annual precipitation is approximately 90 centimeters with slightly more falling at the higher elevations. Temperatures range from -40° C in winter to 18° C in the summer.

## HISTORY

The property has a relatively long, though spurious exploration history. The property was originally staked by D. Barr and J.R. Woodcock in 1959 for Kennco Exploration Western Ltd. Work on a highly anomalous, jarositic gossan disclosed some localized tetrahedrite and base metal mineralization. The property was subsequently allowed to lapse.

Between 1963 and 1965, Julian Mining Company Ltd. (An Anaconda subsidiary) prospected, soil sampled, mapped, and tested the mineralized area with a limited I.P. survey and a single X-ray diamond drill hole. Results of their work showed that although the property might have some precious metal potential, it did not have sufficient base metal potential to support a viable open pit mining operation. Again, the property was allowed to lapse.

In 1969, Cordilleran Engineering Limited conducted additional prospecting, sampling and geophysics (magnetometer survey) for American Uranium Ltd. Results of this work were generally negative despite discovering additional tetrahedrite mineralization. Metal prices at that time were \$42.50 and \$0.80 per ounce for gold and silver.

In subsequent years, the property was intermittently staked but the claims received little attention and were allowed to lapse.

The property was staked in 1981 by Phil Timpany of Atlin, B.C. as agent for J.R. Woodcock of Vancouver, B.C. The property has since been optioned to Inland Recovery Group Ltd. of Vancouver.

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## GEOLOGY

The Tulsequah area has been mapped by Dr. J.G. Souther, and his work is well documented in G.S.C. Memoir 362, 1971. Briefly, the eastern contact of the Coast Plutonic Complex trends northwesterly through the map area. Locally, along the northeastern contact of the complex with Mesozoic strata there are a number of Early Tertiary Age acid to intermediate intrusions with associated volcanic flows and pyroclastics. One such intrusion occurs within the property and, like the other intrusions, there is widespread pyritization and silicification associated with it.

## PETROGRAPHY

Rocks collected on the property have been examined and classified as flow volcanics, quartz feldspar prophyry and quartz pyrite breccia. Thin section work is currently being undertaken to aid in their classification, particularly the quartz pyrite breccia. Two sections analyzed by J.R. Woodcock in 1981 identified the quartz feldspar prophyry and breccia as follows:

### 1) Quartz Feldspar Prophyry

The rock is approximately 60 percent matrix and 40 percent phenocrysts. Feldspar phenocrysts now completely altered to sericite may have been plagioclase. These pseudomorphs of sericite form about 28 per cent of the section. Rounded quartz phenocrysts form 7 percent of the section and disseminated pyrite forms about 5 per cent. A large patch of epidote is probably alteration of previous phenocrysts. It is not known if these were plagioclase or mafic minerals.

The matrix which forms 60 per cent of the section consists of 50-55 per cent quartz, 40-45 per cent sericite and 2-3 per cent pyrite, along with minor Ti-oxide.

## 2) Breccia

A sample of breccia was taken from the east side of Camp Creek. It contained sub-angular and rounded cobbles cemented by finer debris and contained considerable manganese stain.

Thin sections made of the cobbles and matrix shows that the matrix contains numerous angular crystal fragments of quartz and lithic fragments, some of which are prophyritic lavas. Sericite and carbonate alteration are abundant throughout this material.

Examination of one of the cobbles shows that it is a porphyry containing about 50 per cent phenocrysts. The phenocryst content is 34 per cent plagioclase, 6 percent quartz and 10 per cent biotite. The biotite is almost completely altered to muscovite plus some opaques and calcite. The plagioclase is highly altered to carbonate plus sericite. The quartz phenocrysts are partially resorbed.

The matrix consists primarily of plagioclase with minor fine grained sericite. The section contains no K-feldspar.

## ECONOMIC GEOLOGY

The most extensive mineralization on the property is contained within an elongate quartz-feldspar porphyry intrusion. The porphyry is exposed for approximately 3,500 meters along La Juane Creek and for over 1,500 meters along Camp Creek. Most of the intrusion is saussuritized and/or sericitized to a light to dark green color. Fresh cubic disseminated pyrite (1 to 3%) is common throughout most of the intrusion.

At the junction of La Jaune and Camp Creeks the quartz-feldspar intrusion has been silicified and pyritized to a buff to light brown colour. Jarositic and hematitic gossans are very prominent locally, particularly in cliff faces. This highly silicified

zone is approximately 500 meters wide in a north/south direction and 600 meters in an east/west direction. Within this zone there is an east/west trending quartz-pyrite breccia zone over 600 meters in length. This zone varies in width from 250 meters on the west side of La Jaune Creek to 10 meters on the east side. There is no apparent structural explanation, why the zone narrows west to east across La Jaune Creek other than La Jaune obviously reflects a northwesterly trending fault structure which has been episodically active prior to, during and since the mineralizing event. Intermittently along this zone, tetrahedrite and enargite mineralization was noted. In 1969, Cordilleran discovered a 6" wide discontinuous tetrahedrite vein near the west end of the zone. A sample from the vein assayed 33.71% Cu, 25.32 oz Ag/ton and 0.22 Au/ton. Prospecting this season identified a 7 meter wide zone in the same area which contains enechelon tetrahedrite, enargite, pyrite and quartz veining with veins ranging in width from 1 to 15 cm. The veins infilled shears oriented  $104^{\circ} / -83^{\circ}S$  and are separated by barren, altered intrusive rock. A chip sample (No. 79343) taken from this zone across 1 meter and cutting 5 pyrite, tetrahedrite, enargite veinlets ranging from 2.5 to 15 cm in width assayed 0.059 oz Au/ton, 4.82 Ag/ton and 4.75% Cu.

The eastern extremity of this zone was trenched and sampled by Cordilleran in 1969 and returned 0.25 oz. Au/ton, 9.10 oz Ag/ton and 0.03% Copper across 12 feet. The old trench is now completely sloughed in. A sample cut across 1.2 meters of the mineralized zone during July of 1983 (No. 79334) returned 0.115 oz. Au/ton 6.13 oz. Ag/ton and 0.03% Cu. A grab sample of mineralized material from this trench (No. 79335), assayed 0.172 oz. Au/ton, 3.58 oz. Ag/ton and 0.15% Cu.

Tetrahedrite and enargite float can be picked up along the strike length of this east/west trending quartz-pyrite breccia zone. Geological and geochemical results indicate that the zone is continuous and well mineralized over its length.

## GEOCHEMISTRY

Reconnaissance stream sediment sampling was conducted on Camp Creek and all drainages into La Jaune Creek south of Camp Creek with the exception of a small stream flowing into La Jaune Creek from the west. This water course traverses a large portion of the western half of the quartz-pyrite breccia zone, the water is extremely acid and runs rust in color. A total of 37 silt samples were collected and run for copper, zinc, silver and gold; 19 are considered anomalous and a further 8 are above threshold levels.

Soil samples were collected along the grid as shown on the Regional Geology & Geochemistry Plan. A total of 435 samples were collected of which 97 show anomalous gold values (above 20 PPB).

Both the silt and soil samples outline the general trace of the quartz-pyrite breccia zone.

The 5 rock geochemical samples that were analyzed show no correlation between copper, zinc, silver or gold values.

Stream silt samples were collected in the active portion of the water course with care taken to avoid selecting organic material. Soil samples were generally taken from the 'B' horizon approximately 6 inches below the surface. All samples were placed in Kraft bags and the locations marked with flagging tape. The samples were analyzed for zinc, silver and gold by the Whitehorse, Yukon Laboratory of Bondar-Clegg & Company Ltd.

For soil and silt samples, the -80 mesh size portion was analyzed using aqua regia digestion and A A detection for Cu, Zn, Ag. The gold was digested with HBr- Br and detected with carbon rod A A .

## GEOPHYSICS

A phoenix VLF EM survey was conducted over the main interest area of the Thorn Property using two stations - Annapolis Md. and Hawaii. The grid positions of the dip angle crossovers appear to agree quite closely with the geology of the map area. It is also apparent that small dip angle crossovers occur at creek crossing.

The value of field strength data collected is questionable. On most days the signal strength would drift 100 per cent with no apparent consistency.

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## CONCLUSIONS AND RECOMMENDATIONS

The limited exploration program undertaken on the Thorn Property has outlined a quartz-pyrite breccia zone some 600 meters in length, varying in width from 10 meters to 250 meters, and carrying appreciable values in copper, gold and silver. Geochemistry and VLF EM results agree quite closely with geologic mapping and assay results.

It is the writers opinion that a limited diamond drilling program is essential to determine the extent of the quartz-pyrite breccia zone and its precious metal grade. Drilling will require a helicopter transportable drill rig with NQ capabilities. The following sites are recommended (see Detailed Geological Plan):

	<u>Hole No.</u>	<u>Coordinates</u>		<u>Azimuth</u>	<u>Dip</u>	<u>Length (meters)</u>
DDH	83-1	10075	9800	000°	-45	100
	83-2	10125	9700	000°	-45	100
	83-3	10150	9775	000°	-45	100
	83-4	10035	9975	180°	-45	40
	83-5	9975	10025	000°	-45	<u>60</u>
TOTAL LENGTH						400 meters

Field observations and geologic mapping indicates that the mineralized zone has a number of complex structural controls, most of which are not readily apparent. It is the writers opinion that the initial drilling as outlined should be completed during September and October of 1983 to allow sufficient time during the winter months to sort out these structural controls.

The estimated all out cost of this drill program is \$150 per foot or \$200,000 CAN.




## CERTIFICATE OF QUALIFICATIONS

I, J.E. Wallis, of Box 59, Atlin, British Columbia, do certify that:

- 1- I am a registered Professional Engineer in good standing in the Association of Professional Engineers of British Columbia.
- 2- I am a graduate of the Haileybury School of Mines 1958, the University of Alaska B.Sc. 1965 and Queen's University M.Sc. (Eng) 1967.
- 3- I have been practicing my profession for 24 years and as a Professional Engineer for the past 15 years.
- 4- I do not have nor have I ever had any interest direct, indirect or contingent, in the shares of Inland Recovery Group Ltd., nor do I expect to receive any interest, either direct or indirect, in the properties or securities pertaining thereto.
- 5- I have personally visited the property reviewed in this report on two occasions and am familiar with the district.
- 6- I hereby grant my permission for the Inland Recovery Group Ltd. to use this report for filing with the Vancouver Stock Exchange as partial requirement of a Statement of Material Facts or for any legal purposes normal to the business of the Inland Recovery Group Ltd.

Dated at Atlin, British Columbia, this 25th day of August, 1983.



J.E. Wallis, P. Eng.

January 17, 1984

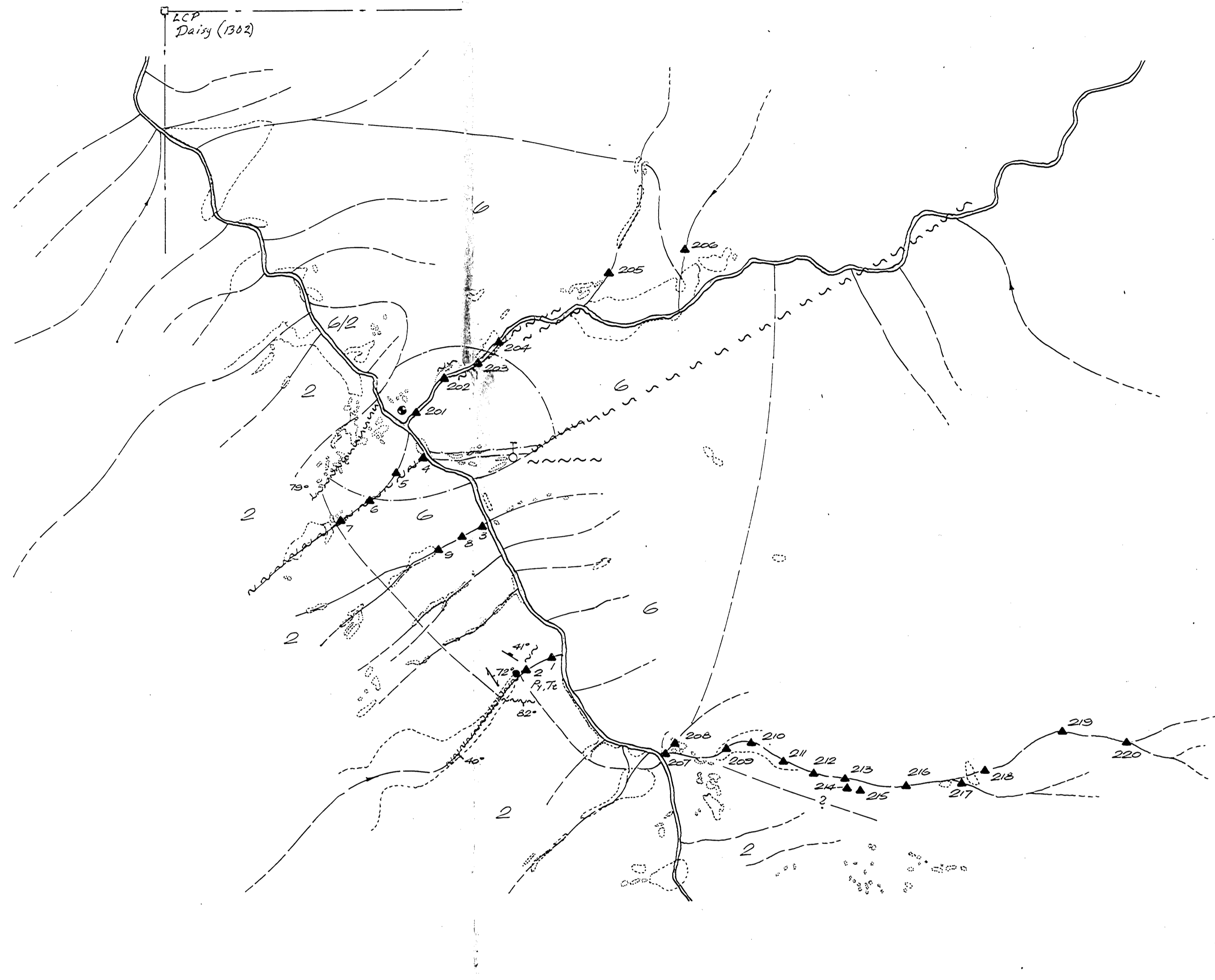
June 15 to Sept. 6, 1983

Wages and Fees

J. R. Woodcock			
June 17 to 28	1½ days		
July 4 to 26	1¼ day		
Aug. 10 to 17	1¼ days		
	<u>3</u> days @ \$450 =	\$1,350	
Dennis Gorc			
June 15 to July 2	3 days @ \$225 =	675	
M. Kilby			
July 9 to Aug. 2	24 days @ \$175 =	4,200	
D. Blanchflower			
July 9 to Aug. 3	25½ days @ \$250 =	6,375	
Arctic Engineering Man			
July 11 to 30	20 days @ \$160 =	3,200	
Arctic Engineering Man			
July 11 to 30	20 days @ \$160 =	3,200	
J. E. Wallis			
June 10 to Sept. 6	9 days @ \$350 =	<u>3,150</u>	\$22,150

Disbursements

Helicopter	\$2,220.00	
Air Charters	4,335.93	
Air Fairs	1,380.70	
Food and Meals	1,771.18	
Rentals	1,950.00	
Geochem	5,890.75	
Misc. Supplies, Reproductions, etc.	<u>3,275.22</u>	<u>\$20,823.78</u>
Total		<u>\$42,973.78</u>



**LEGEND :**

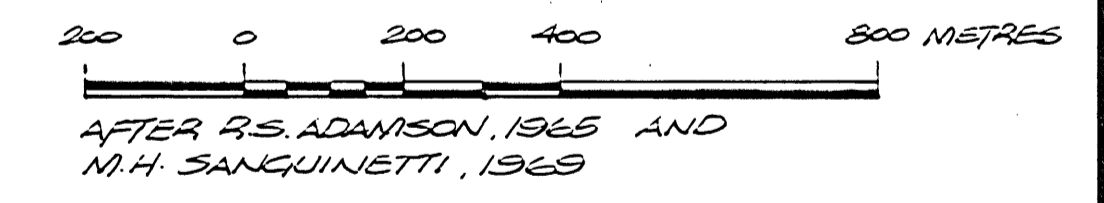
- TERTIARY**  
 LATE TERTIARY AND PLEISTOCENE HEART PEAKS FORMATION
- 8 TRACHYTE AND RHYOLITE FLOWS, PYROCLASTICS  
 7 ANDESITE DIKES
- CRETACEOUS AND TERTIARY**  
 LATE CRETACEOUS AND EARLY TERTIARY
- 6 QUARTZ - FELDSPAR PORPHYRY SLOKO GROUP  
 5 RHYOLITE, DACITE AND TRACHYTE FLOWS  
 4 PYROCLASTICS
- JURASSIC AND CRETACEOUS**  
 MIDDLE AND UPPER JURASSIC
- 3 HORNBLLENDE - BIOTITE GRANODIORITE
- TRIASSIC**  
 UPPER TRIASSIC
- 2 ANDESITE AND BASALT FLOWS, VOLCANIC BRECCIA, PILLOW LAVA, LAPILLI TUFF, MINOR VOLCANIC SANDSTONE, GREYWACKE.
- PRE UPPER TRIASSIC**  
 1 FINE GRAINED CLASTIC SEDIMENTS, LIMESTONE

**- SYMBOLS -**

- GEOLOGICAL CONTACT (DEFINED, INFERRED)
- OUTCROP
- FAULT (DEFINED, INFERRED)
- FAULT (ANGLE, VERTICAL)
- SHEAR FRACTURE (VERTICAL, ANGLE, HORIZONTAL)
- JOINT (VERTICAL, ANGLE)
- X.D.H. (JULIAN MINING CO.)
- ▲ SILT SAMPLE
- GEOLOGICAL STATION (1983)
- TRENCH (1969)
- QUARTZ (PYRITE ZONE)
- CREEK

- P<sub>1</sub> PYRITE
- Q<sub>2</sub> QUARTZ
- T<sub>2</sub> TETRAHEDRITE
- E<sub>n</sub> ENARGITE
- M<sub>c</sub> MALACHITE
- M<sub>s</sub> SERICITE
- L<sub>i</sub> LIMONITE
- J<sub>a</sub> JAROSITE
- H<sub>e</sub> HEMATITE
- E<sub>p</sub> EPIDOTE

SCALE : 1 : 9,600



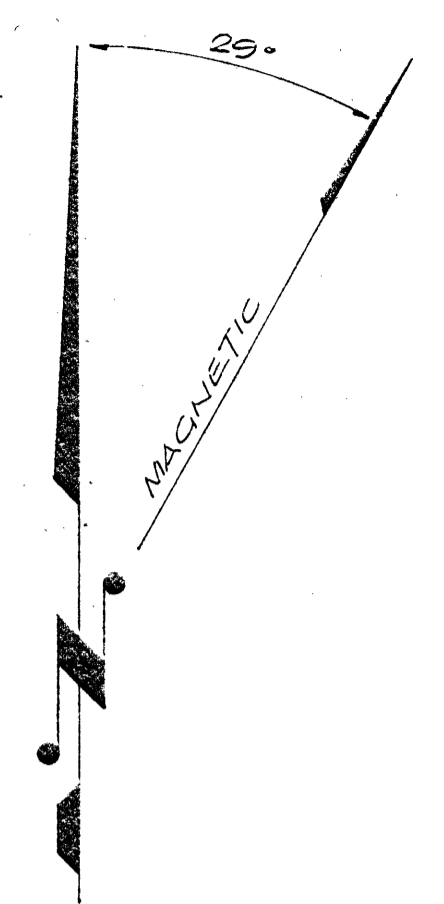
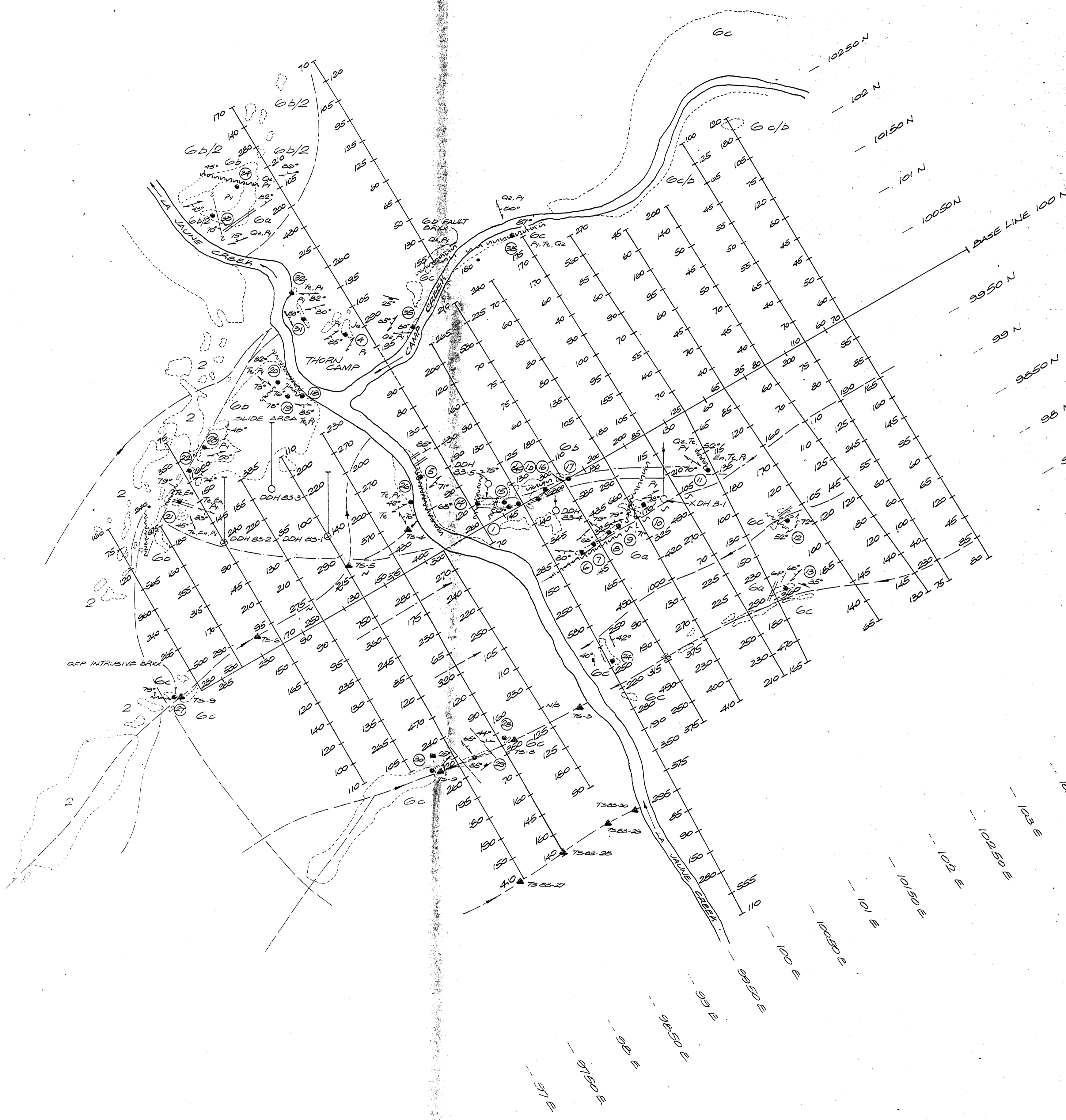
GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

11,923

INLAND RECOVERY GROUP LTD. VANCOUVER B.C.	
ARCTIC ENGINEERING SERVICES LTD. BOX 59 ATLIN B.C.	
COMPOSITE PLAN OF THE REGIONAL GEOLOGY & GEOCHEMISTRY <b>THORN PROPERTY</b> ATLIN MINING DIVISION BRITISH COLUMBIA	
TECHNICAL WORK BY: J. D. B.	N.T.S. 104 K / 10
DRAWN BY: <i>ML</i>	SCALE: 1 : 9,600
DATE: JULY 1983	FIGURE NO.: 3





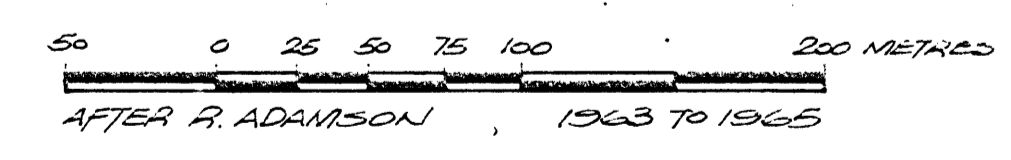


- LEGEND :**
- CRETACEOUS AND TERTIARY**
- G QUARTZ-FELDSPAR PORPHYRY
  - A ANDESITE DYKE
  - S SILICIFIED AND PYRITIZED INTRUSIVE
  - C SAUSSURITIZED INTRUSIVE
- TRIASSIC**
- UPPER TRIASSIC**
- 2 STUHINI GROUP
- ANDESITE AND BASALT FLOWS, VOLCANIC BRECCIA, PILLOW LAVA, LAPILLI TUFF, MINOR VOLCANIC SANDSTONE, GREYWACKE AND RELATED SEDIMENTARY ROCKS.
- SYMBOLS :**
- GEOLOGICAL CONTACT (DEFINED, INFERRED)
  - OUTCROP
  - FAULT (DEFINED, INFERRED)
  - SHEAR FRACTURE (VERTICAL ANGLE)
  - JOINT (VERTICAL ANGLE)
  - X.D.H. (JULIAN MINING CO.)
  - SILT SAMPLE SITE (1963)
  - GEOLOGICAL STATION (1963)
  - QUARTZ - PYRITE (± TETRAHEDRITE, ENARGITE) BRECCIA ZONE
- |    |              |                |                 |
|----|--------------|----------------|-----------------|
| Qz | QUARTZ       | H <sub>2</sub> | HEMATITE        |
| Py | PYRITE       | Ll             | LIMONITE        |
| Tc | TETRAHEDRITE | Mn             | MANGANESE OXIDE |
| En | ENARGITE     | Mz             | MALACHITE       |
| Ja | JAROSITE     | Ns             | SERICITE        |
- 110 65 50 DESIGNATES ZINC P.P.M.

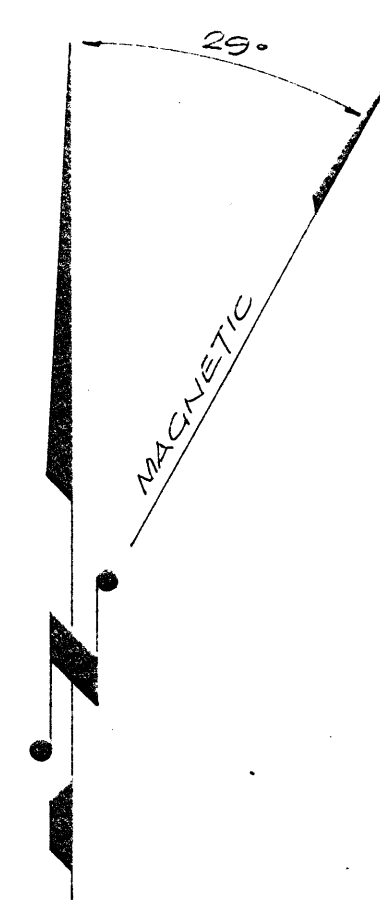
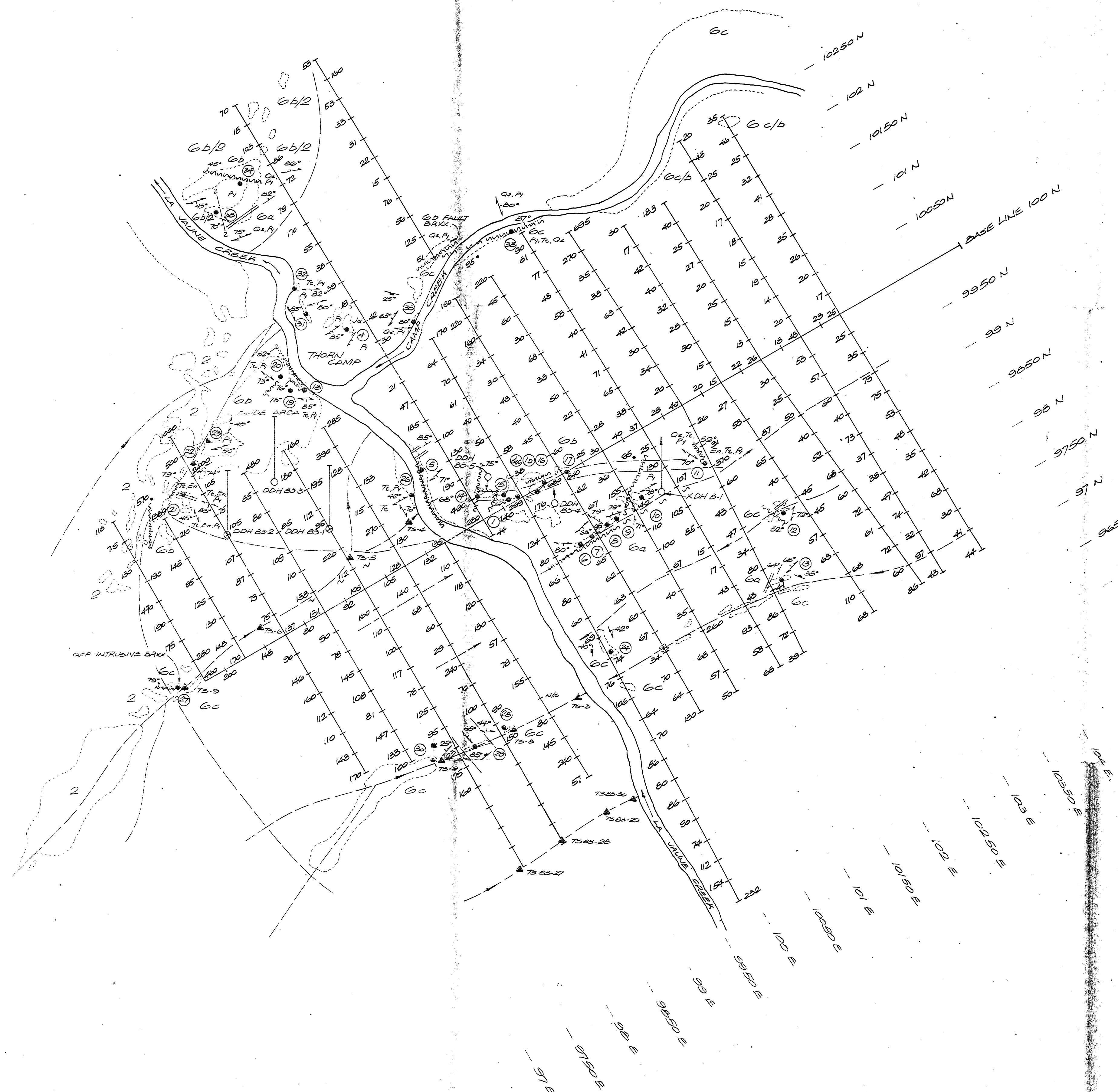
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**11,923**

SCALE : 1 : 2,500



INLAND RECOVERY GROUP LTD. VANCOUVER B.C.	
ARCTIC ENGINEERING SERVICES LTD. BOX 59 ATLIN B.C.	
ZINC GEOCHEMISTRY OF THE 'B' 'D' & 'L' ZONES <b>THORN PROPERTY</b> ATLIN MINING DIVISION BRITISH COLUMBIA	
TECHNICAL WORK BY: J. D. B.	N.T.S. 104 K / 10W
DRAWN BY: <i>ML</i>	SCALE: 1 : 2,500
DATE: JULY 1983	FIGURE NO: 5



- LEGEND :**
- CRETACEOUS AND TERTIARY**
- G QUARTZ-FELDSPAR PORPHYRY
  - Q ANDESITE DYKE
  - B SILICIFIED AND PYRITIZED INTRUSIVE
  - C SAUSSURITIZED INTRUSIVE
- TRIASSIC**
- UPPER TRIASSIC**
- 2 STUJINI GROUP
- ANDESITE AND BASALT FLOWS, VOLCANIC BRECCIA, PILLOW LAVA, LAPILLI TUFF, MINOR VOLCANIC SANDSTONE, GREYWACKE AND RELATED SEDIMENTARY ROCKS.
- SYMBOLS :**
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  - FAULT (DEFINED, INFERRED)
  - SHEAR FRACTURE (VERTICAL ANGLE)
  - JOINT (VERTICAL ANGLE)
  - X.D.H. (JULIAN MINING CO.)
  - SILT SAMPLE SITE (1983)
  - GEOLOGICAL STATION (1983)
  - QUARTZ-PYRITE (+TETRAHEDRITE, ENARGITE) BRECCIA ZONE
- |                 |                    |
|-----------------|--------------------|
| Qz QUARTZ       | Hc HEMATITE        |
| Py PYRITE       | Ll LIMONITE        |
| Tc TETRAHEDRITE | Mn MANGANESE OXIDE |
| En ENARGITE     | Ml MALACHITE       |
| Ja JAROSITE     | Ns NERITE          |
- 61 72 60 DESIGNATES COPPER P.P.M.

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

11,923

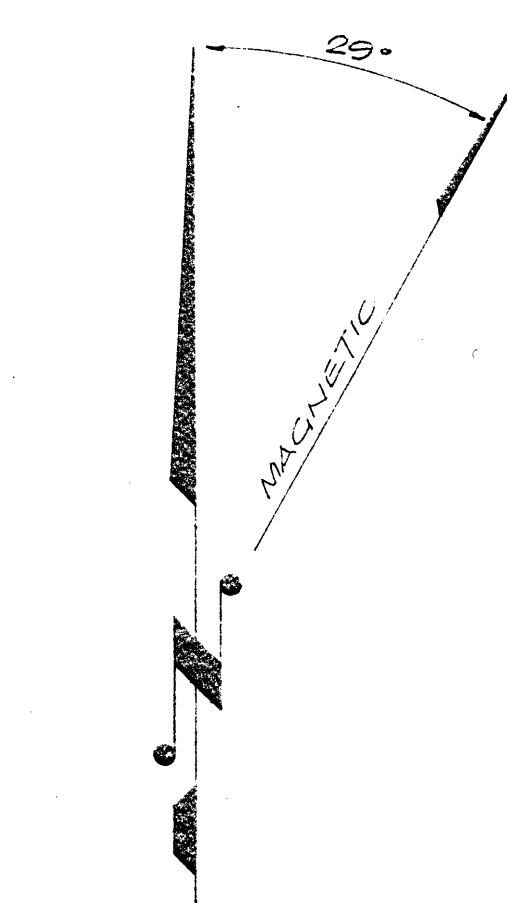
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50 0 25 50 75 100 200 METERS

AFTER H. ADAMSON 1963 TO 1965

INLAND RECOVERY GROUP LTD. VANCOUVER B.C.	
ARCTIC ENGINEERING SERVICES LTD. 807 5 <sup>th</sup> AVE. ATLIN B.C.	
COPPER GEOCHEMISTRY OF THE 'B' 'D' & 'L' ZONES <b>THORN PROPERTY</b> ATLIN MINING DIVISION BRITISH COLUMBIA	
TECHNICAL WORK BY: J. D. B.	N.T.S. 104 K / 10W
DRAWN BY: <i>ML</i>	SCALE: 1 : 2,500
DATE: JULY 1983	FIGURE NO: 6





**LEGEND :**

CRETACEOUS AND TERTIARY

- C QUARTZ-FELDSPAR PORPHYRY
- D ANDESITE DYKE
- B SILICIFIED AND PYRITIZED INTRUSIVE
- C SAUSSURITIZED INTRUSIVE

TRIASSIC

UPPER TRIASSIC

- 2 SLEHINI GROUP

ANDESITE AND BASALT FLOWS, VOLCANIC BRECCIA, PILLOW LAVA, LAPILLI TUFF, MINOR VOLCANIC SANDSTONE, GREYWACKE AND RELATED SEDIMENTARY ROCKS.

**SYMBOLS :**

- GEOLOGICAL CONTACT (DEFINED, INFERRED)
- OUTCROP
- FAULT (DEFINED, INFERRED)
- SHEAR FRACTURE (VERTICAL ANGLE)
- JOINT (VERTICAL ANGLE)
- X.D.H. (JULIAN MINING CO.)
- SILT SAMPLE SITE (1983)
- GEOLOGICAL STATION (1983)
- QUARTZ-PYRITE (? TETRAHEDRITE, ENARGITE) BRECCIA ZONE

Qz	QUARTZ	He	HEMATITE
Py	PYRITE	Li	LIMONITE
Tt	TETRAHEDRITE	Mn	MANGANESE OXIDE
En	ENARGITE	Ml	MALACHITE
Ja	JAROSITE	Ns	SERICITE

0.6 0.3 0.2 DESIGNATES Ag (SILVER) P.P.M.

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

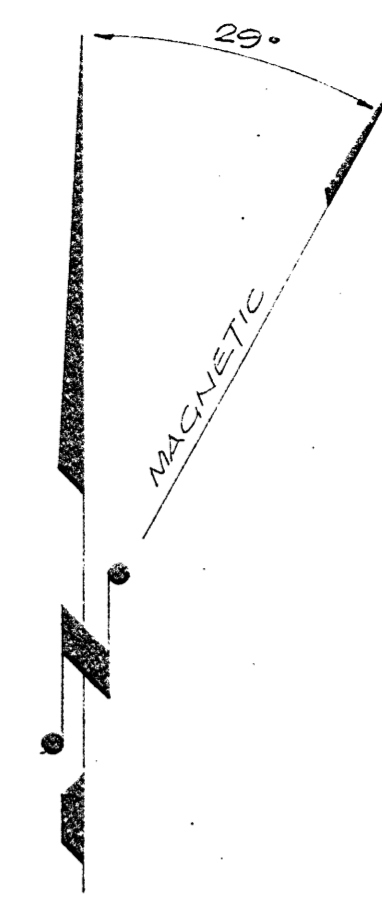
**11,923**

SCALE : 1 : 2,500

0 25 50 75 100 200 METERS

AFTER R. ADAMSON, 1963 TO 1965

INLAND RECOVERY GROUP LTD. VANCOUVER B.C.	
ARCTIC ENGINEERING SERVICES LTD. BOX 59 ATLIN B.C.	
SILVER GEOCHEMISTRY OF THE 'B' 'D' & 'L' ZONES <b>THORN PROPERTY</b> ATLIN MINING DIVISION BRITISH COLUMBIA	
TECHNICAL WORK BY: J. D. B.	N.T.S. 104 K / 10W
DRAWN BY: <i>ML</i>	SCALE: 1 : 2,500
DATE: JULY 1983	FIGURE NO: 7



- LEGEND :**
- CRETACEOUS AND TERTIARY
- ① QUARTZ-FELDSPAR PORPHYRY
  - ② ANDESITE DYKE
  - ③ SILICIFIED AND PYRITIZED INTRUSIVE
  - ④ SAUSSURITIZED INTRUSIVE

- TRIASSIC
- UPPER TRIASSIC
- ② STUHNI GROUP
- ANDESITE AND BASALT FLOWS, VOLCANIC BRECCIA, PILLOW LAVA, LAPILLI TUFF, MINOR VOLCANIC SANDSTONE, GREYWACKE AND RELATED SEDIMENTARY ROCKS.

- SYMBOLS :**
- GEOLGICAL CONTACT (DEFINED, INFERRED)
  - OUTCROP
  - FAULT (DEFINED, INFERRED)
  - ∠ SHEAR FRACTURE (VERTICAL ANGLE)
  - ∠ JOINT (VERTICAL ANGLE)
  - X.D.H. (JULIAN MINING CO.)
  - △ SILT SAMPLE SITE (1983)
  - GEOLOGICAL STATION (1983)
  - QUARTZ PYRITE (1 TETRAHEDRITE, ENARGITE) BRECCIA ZONE
- |    |              |    |                  |
|----|--------------|----|------------------|
| Qz | QUARTZ       | Hc | HEMINITE         |
| Pt | PYRITE       | Lc | LIMONITE         |
| Tc | TETRAHEDRITE | Mh | MINERALIZED TUFF |
| En | ENARGITE     | Mz | MALACONITE       |
| Va | VARISCITE    | Ms | SEPIOLITE        |
- 1 2 4 25 DESIGNATES Au (GOLD) PRD.

11,923

SCALE : 1 : 2,500

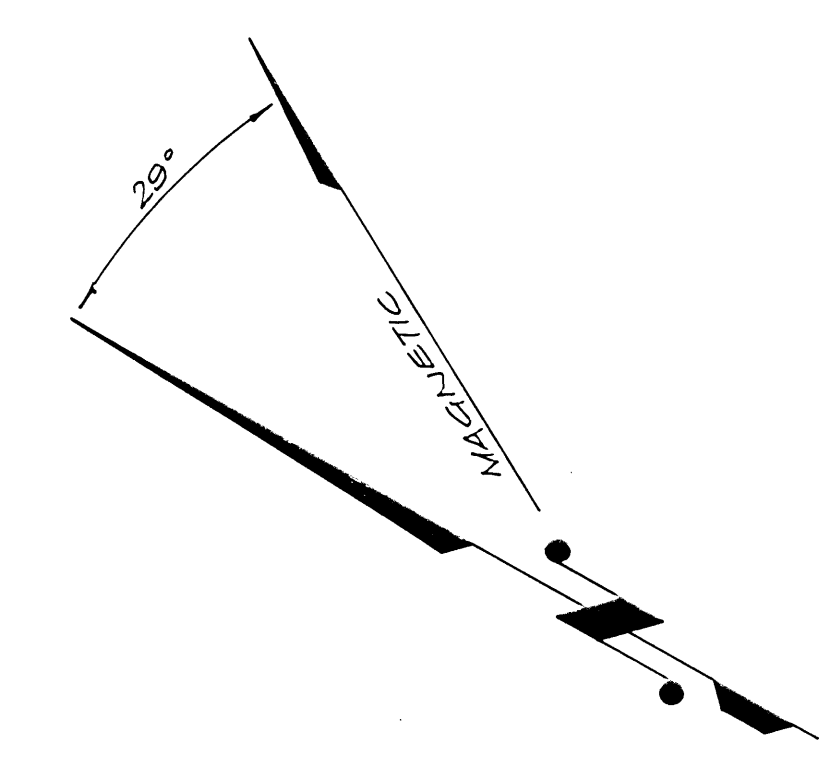
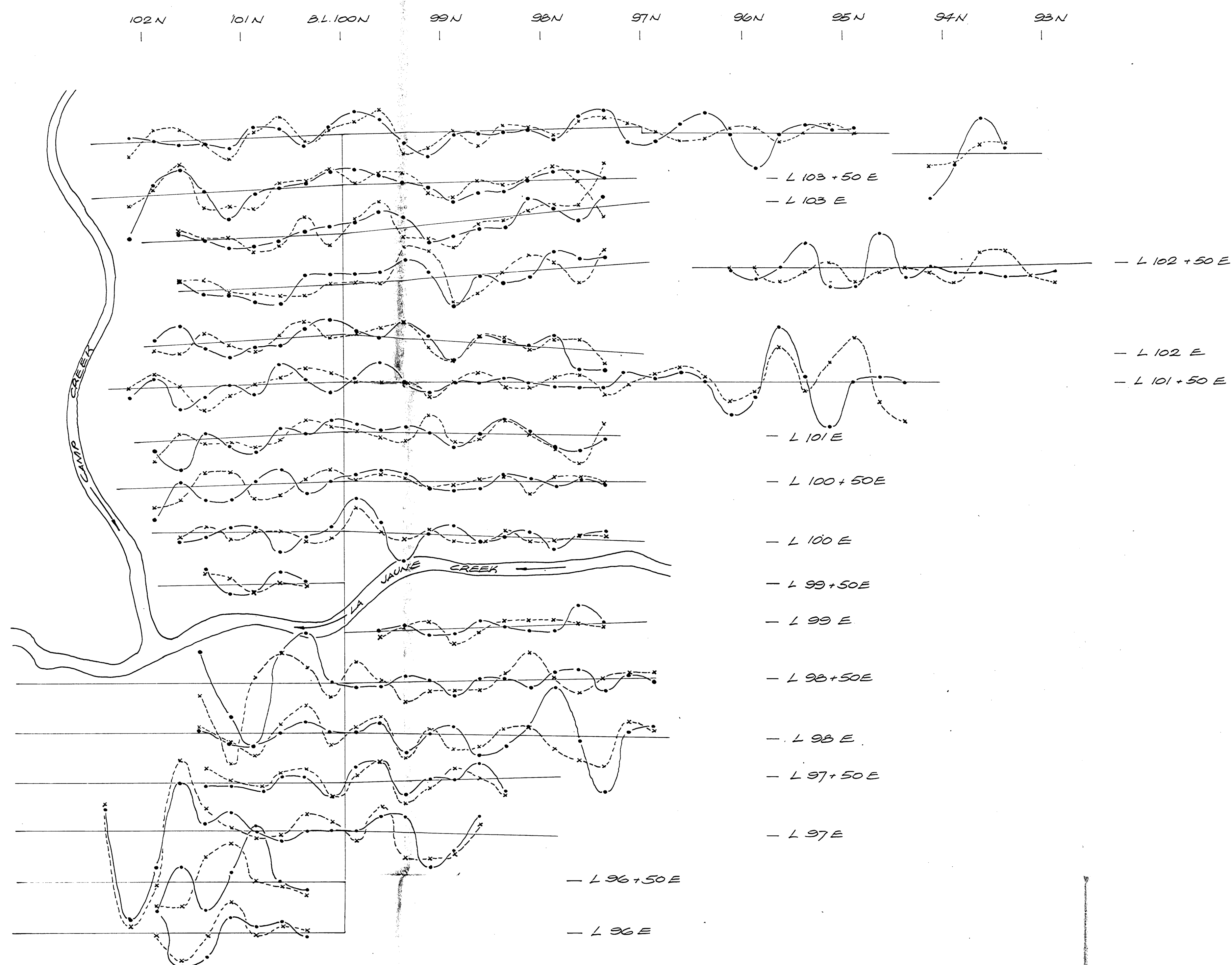
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AFTER A. ADAMSON 1983 TO 1985

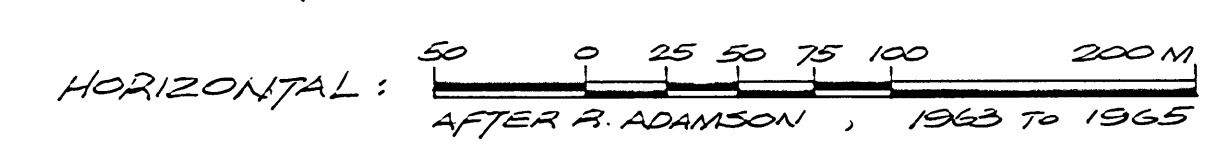
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

INLAND RECOVERY GROUP LTD. VANCOUVER B.C.	
ARCTIC ENGINEERING SERVICES LTD. 807 55 ATLIN B.C.	
GOLD GEOCHEMISTRY OF THE 'B' 'D' & 'L' ZONES <b>THORN PROPERTY</b> ATLIN MINING DIVISION BRITISH COLUMBIA	
TECHNICAL WORK BY: J. D. B.	N.T.S. 104 K / 10W
DRAWN BY: <i>ML</i>	SCALE: 1 : 2,500
DATE: JULY 1983	FIGURE NO: 8





SCALE :



VERTICAL : 2 mm = 2 INCREMENTS (1:1)

NOTES :

- DENOTES HAWAI CONTOUR (FRASER FILTERED)
  - x-x-x- DENOTES AMOPOLIS CONTOUR (FRASER FILTERED)
- OPERATOR : M. KILBY (OPERATOR WAS FACING NORTH EAST)

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

11,923

INLAND RECOVERY GROUP LTD. VANCOUVER B.C.	
ARCTIC ENGINEERING SERVICES LTD. BOX 59 ATLIN B.C.	
PLAN OF VLF-EM DIP CONTOURS	
<b>THORN PROPERTY</b> ATLIN MINING DIVISION BRITISH COLUMBIA	
TECHNICAL WORK BY : J. D. B.	N.T.S. 104 K / 10 W
DRAWN BY : <i>ML</i>	SCALE : HOR. 1:2500, VER. 1:1
DATE : JULY 1983	FIGURE NO. : 9