

84-#713 - 12693
8/85

GEOCHEMICAL AND GEOLOGICAL ASSESSMENT REPORT

on the

GAVIN PROPERTY

GAVIN and GAVIN 2 claims

GAVIN LAKE

CARIBOO MINING DIVISION, B.C.

NTS: 93A/5E,5W,12E,12W
Latitude: 52°29.3' to 52°30.2' North
Longitude: 121°42.7' to 121°46.7' West
Owner: Brican Resources Ltd.
Consultant: K.L. Daughtry & Associates Ltd.
Author: W.R. Gilmour
Date: August 14, 1984.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,693

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Summary

The GAVIN property, owned by Brican Resources Ltd., is located in the Intermontane Belt of British Columbia, 50 km northeast of Williams Lake.

This report presents the results of exploration work carried out during May, 1984.

A grid was installed over a portion of the GAVIN claim. A 400 m cut picket-line and 4.0 km of flagged grid lines comprise the 50 m x 25 m grid. A total of 173 soil samples was collected and analysed for gold, silver, arsenic, copper and lead. Rock samples, totalling 28, were collected and analysed for gold and silver.

The backhoe trenches were mapped at 1:500 and preliminary mapping begun on the grid at 1:2,000.

The soil geochemistry outlines areas of low grade gold and silver mineralization, associated with quartz veining and pyritic metasediments.

A minor exploration program is recommended.

Location, Access, and Topography

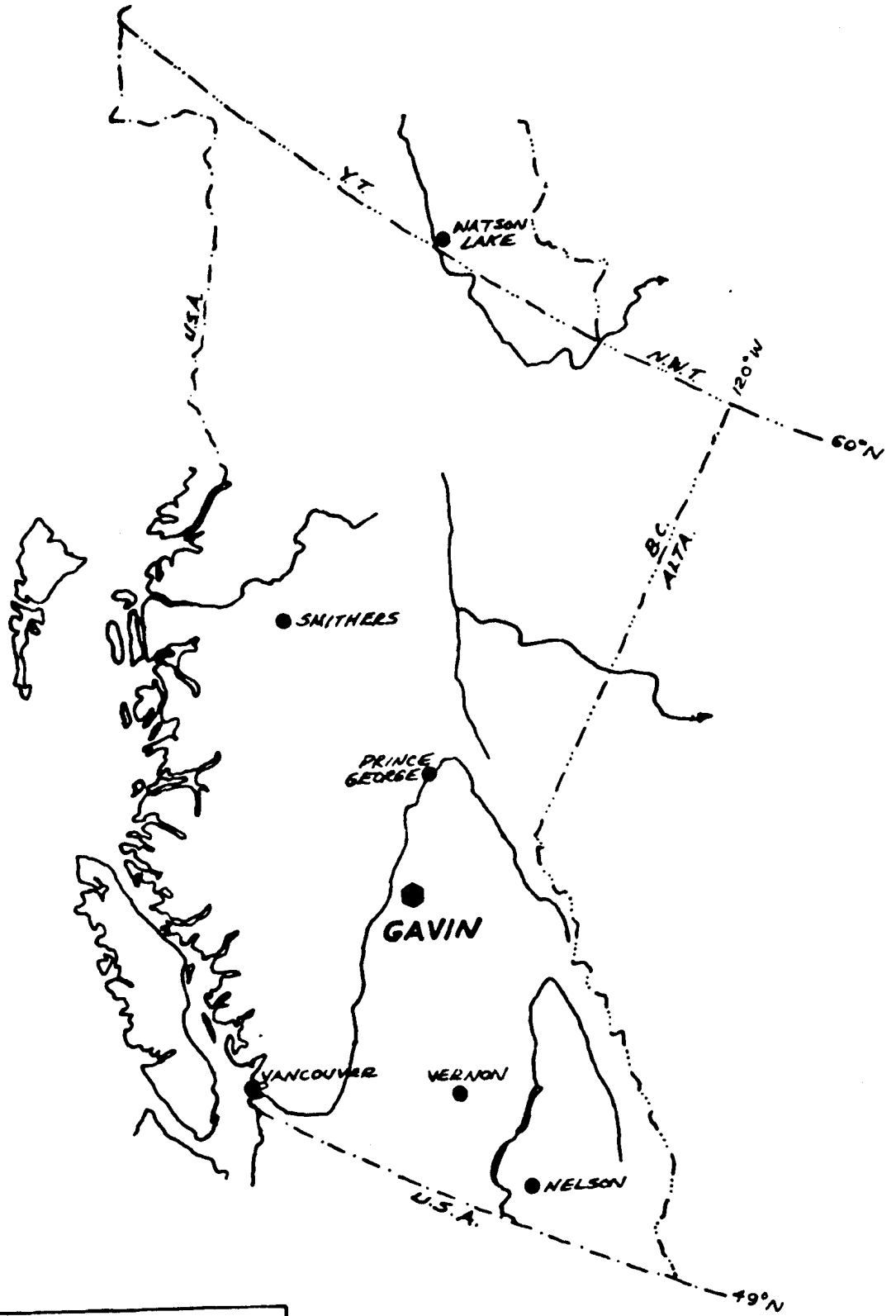
The GAVIN property is located in the Interior Plateau of central B.C. (Figure 1), 50 km northeast of Williams Lake and 17 km southwest of Likely. The claims extend north from Gavin Lake and Gavin Creek (Figure 2).

The National Topographic System map reference is 93A/5E,5W,12E,12W and the claims are between latitudes $52^{\circ} 29.3'$ to $52^{\circ} 30.2'$ North and longitudes $121^{\circ} 42.7'$ to $121^{\circ} 46.7'$ West.

Good access to the property is provided by road from Williams Lake, a distance of 62 km.

The topography on the property is moderate. Elevations range from 970 to 1170 m.

Much of the property has undergone various periods of clear-cut logging. The area of grid is forested with fir and pine.



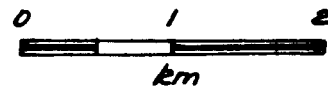
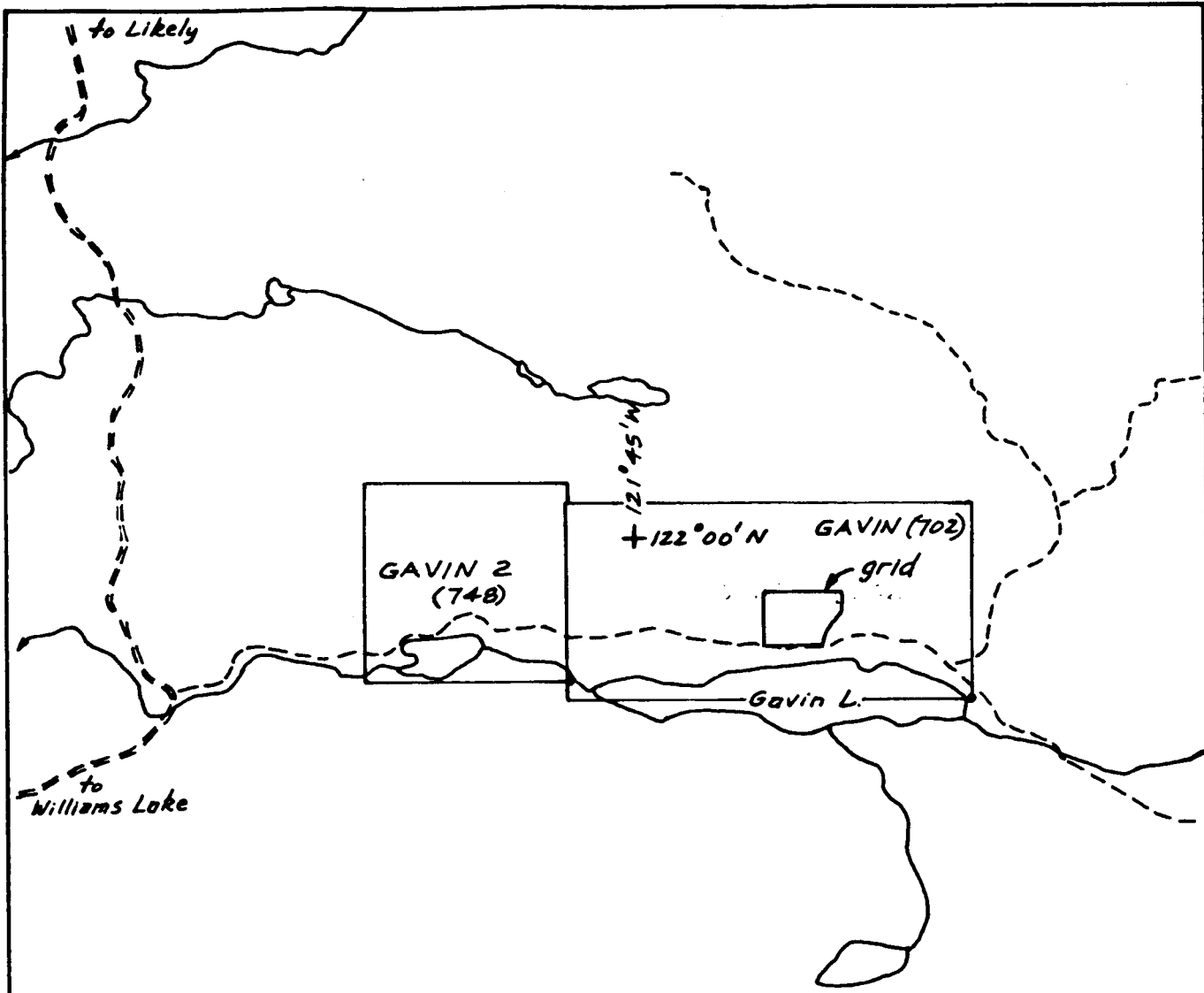
| | |
|----------------------------|------------|
| K.L. DAUGHTRY & ASSOC. LTD | |
| BRICAN RESOURCES LTD | |
| LOCATION MAP | |
| GAVIN PROPERTY | |
| JUNE, 1984 | FIG. NO. 1 |

Property

The GAVIN property consists of 2 located metric grid claims (Figure 2), comprising 27 units, in the Cariboo Mining Division. All claims are owned by Brican Resources Ltd.

The following table lists the pertinent information on the claims. The expiry dates are correct pending acceptance of this report.

| <u>Claim Name</u> | <u>Record Number</u> | <u>Units</u> | <u>Expiry Date</u> |
|-------------------|----------------------|--------------|--------------------|
| GAVIN | 702 | 18 | 850602 |
| GAVIN 2 | 748 | 9 | 850616 |



BRICAN RESOURCES LTD.

CLAIM MAP

GAVIN PROPERTY

CARIBOO M.D.

**93A/5E,5N,
93A/12E,12N**

1:50,000

JUNE, 1984

FIG. 2

History

The property was first staked in 1965 by L. Tattersall. The following year a trenching and x-ray drilling (about 200 m in 6 holes) program was carried out. In 1970 Amax Exploration Inc. carried out a detailed program of geological mapping, geochemical soil sampling, magnetometer surveying, trenching and sampling (3).

Zubex Resources Ltd., in 1973-74, conducted a geochemical soil survey over part of the property (5).

Brican Resources Ltd. staked the GAVIN property in 1978 and then optioned the property to St. Elias Exploration Corp. In 1979, St. Elias carried out soil sampling (2) and induced polarization (4) surveys.

Except for the work by Tattersall all exploration has been conducted towards the discovery of a molybdenum-copper porphyry deposit.

In 1983, Brican initiated a program of soil sampling and trenching to evaluate the gold potential of the property.

The results of that program and the sampling and mapping program in 1984 are the subject of this report.

Soil Geochemistry

In 1983, sampling of trenches and a preliminary soil survey indicated anomalous gold and silver values in rock, and gold and arsenic values in soils.

In 1984, a follow-up exploration program of soil sampling covered an area approximately 600 m X 300 m, on a 50 m X 20 m grid. A total of 173 samples was collected and analysed for gold, silver, arsenic, copper and lead (Figures 4 to 8). Antimony was analysed for only in the preliminary survey (Figure 9). The soil samples were collected in numbered Kraft wet strength paper bags and sent to Kamloops Research and Assay Laboratory Ltd., in Kamloops, for analysis. Wherever possible the samples were collected from the 'B' horizon at approximately 15 cm depth. However, the soil in places is poorly developed with only a thin, grey horizon between the humus and underlying rock fragments. Although outcrop is scarce over much of the grid area the depth of overburden does not appear thick, except near Gavin Lake.

The -80 mesh fraction was subject to aqua regia (Au), to hot nitric hydrochloric (Ag, Cu, Pb) and to nitric perchloric (As) digestions. Analysis was by combined fire assay and atomic absorption (Au), by atomic absorption (Ag, Cu, Pb) and by colorimetric (As) methods.

The statistics for the various elements are summarized in the following table.

| <u>Element</u> | <u>Number of Samples</u> | <u>Range</u> | <u>Contour Interval</u> |
|----------------|--------------------------|--------------|-------------------------|
| Au | 215 | <5 - 4320 | 20, 70 ppb |
| Ag | 215 | <0.2 - 20 | 1.3, 2.0 ppm |
| As | 215 | <2 - 490 | 20, 50 ppm |
| Cu | 173 | 10 - 463 | 70, 125 ppm |
| Pb | 173 | 10 - 1400 | 30, 50 ppm |
| Sb | 42 | <2 - 23 | |

The anomalous values are not continuous along the quartz vein. However, gold, silver, arsenic and lead anomalies coincide with the quartz vein. The highest copper values also occur in the area of veining. The soil geochemistry also indicates the presence of an undiscovered parallel mineralized vein, about 75 m to the east (Figure 3).

An unexplained gold value of 4320 ppb occurs in the northeast corner of the grid.

Geology and Mineralization

The property is underlain by Jurassic sedimentary and volcanic rocks intruded by Jurassic or Cretaceous dykes and plugs (1). Numerous mineral deposits occur in the area. The Gibraltar Mines copper-molybdenum deposit is located 40 km to the west, the Cariboo-Bell copper-gold deposit 9 km to the northeast and the QR gold deposit of Dome Mines 20 km to the north.

Siltstone and argillite are interlayered with basalt and porphyritic andesite flows and minor flow breccia (Figures 3,10). A brief orientation magnetometer survey indicates that the basalts can be delineated by such a survey. The sediments have been hornfelsed by feldspar and quartz porphyry dykes which pinch and swell and are generally subparallel to bedding. In the area of the trenches the dykes are up to 20 m wide. The steeply dipping sediments and volcanics strike north-northwest. A vertical quartz vein system cuts the layered rocks and the dykes. The vein is slightly discordant to both stratigraphy and the porphyry dykes and is more often found within or very near to the dykes.

All rock units appear to be cut by a northeast trending left-lateral fault, with the vein offset 15 m to the southwest.

The massive bull quartz part of the vein system is up to 2 m wide. Very minor vugs were noted. Abundant cross-cutting quartz veins (commonly about 1 to 2 cm wide) can be associated with or can occur instead of the massive vein. Minor galena, pyrite and malachite occur in the massive quartz vein. Selected grab samples contain up to 2 oz/ton silver. However, chip samples across the vein average about .6 oz/ton silver and .004 oz/ton gold across one metre.

The best gold values occur in pyritic hornfelsed sediments adjacent to the veins. One sample, over 0.6 m, ran 1830 ppm gold. The best section is across 4.0 m, including 1.0 m of vein, and grades .015 oz/ton gold and 0.8 oz/ton silver.

Discussions and Conclusions

Gold, silver, arsenic and lead soil anomalies broadly delineate the area of mineralization in and bordering the quartz vein. The survey also indicates the presence on an undiscovered parallel mineralized vein.

The quartz vein contains anomalous but not economically significant mineralization. The best gold values occur in pyritic hornfelsed sediments. The rocks are definitely anomalous but economic grades over significant widths were not discovered. Previous reports (3) of the quartz vein running 0.5 oz/ton gold does not appear to be representative. The volcanic rocks and porphyry dykes do not contain any significantly anomalous gold or silver values.

It should be noted that the recent exploration program for gold covered only about 5% of the property.

Recommendations

It is recommended that the next phase of work be restricted to sufficient exploration as to explain the significance of the high gold soil anomaly in the northeast corner of the grid.

Respectfully submitted,



W.R. Gilmour

August 14, 1984

References

1. Campbell, R.B. 1961 GSC map 3-1961
2. Grandall, J.T. 1979 Assessment Report 7333
3. Hodgson, C.J. 1970 Assessment Report 2733
4. Shore, G. 1979 Assessment Report 7396
5. Zubex Resources Ltd. 1974 Assessment Report 5105

Statement of Qualifications

I, W.R. GILMOUR of 13511 Sumac Lane, Vernon, B.C. V1B 1A1, DO HEREBY CERTIFY THAT:

1. I am a Consulting Geologist in mineral exploration employed by W.R. Gilmour & Associates Ltd., Vernon.
2. I have been practising my profession in British Columbia, the Yukon Territory, and Nevada for 13 years.
3. I am a graduate of the University of British Columbia with a Bachelor of Science degree in geology.
4. I am a Fellow of the Geological Association of Canada and a member of the Society of Mining Engineers of the American Institute of Mining, Metallurgical and Petroleum Engineers.
5. This report is based upon knowledge of the GAVIN property gained from personal experience and involvement in all aspects of the exploration program described herein.
6. I am a Director of Brican Resources Ltd., which owns the property.

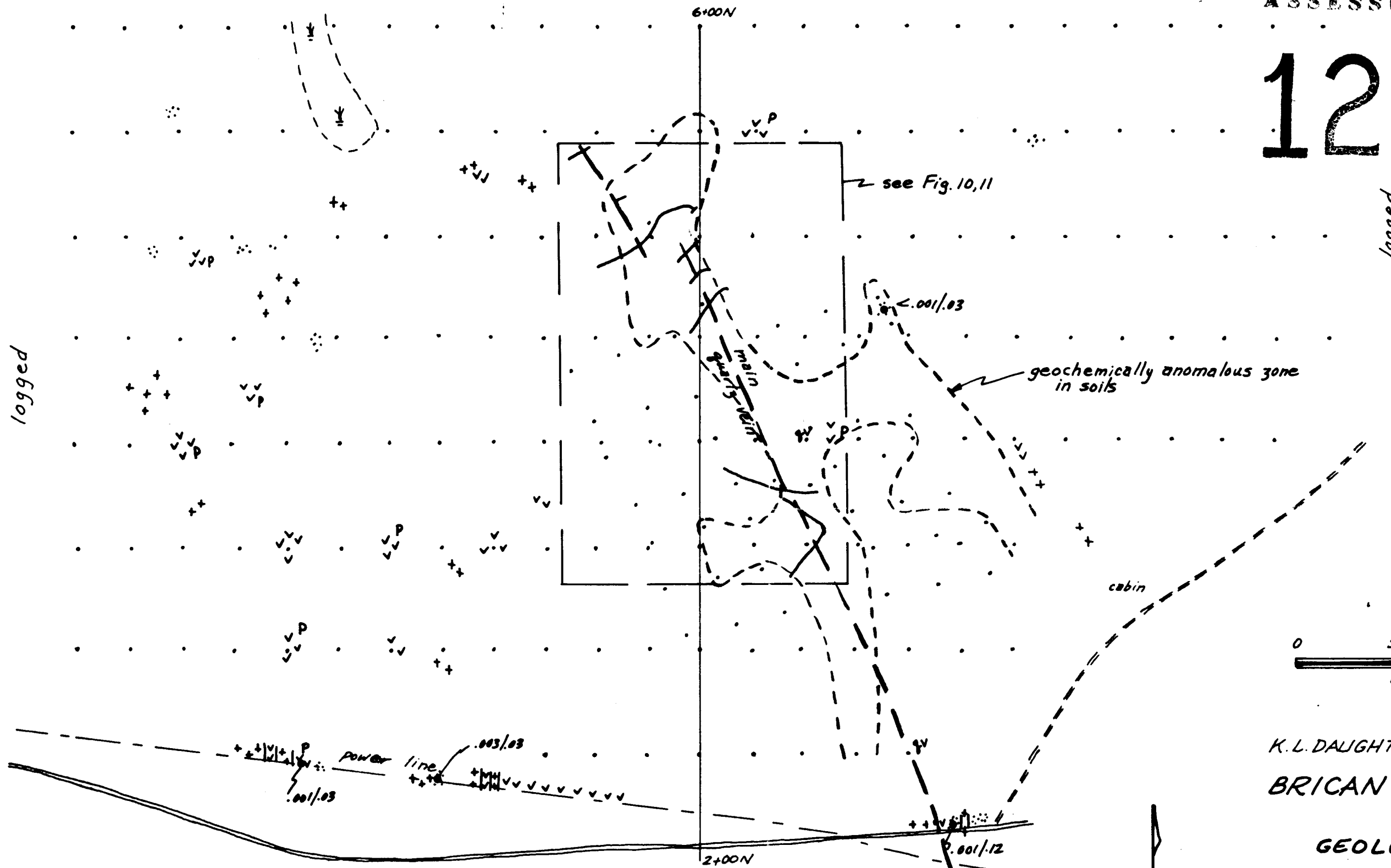


W.R. Gilmour

Vernon, B.C.

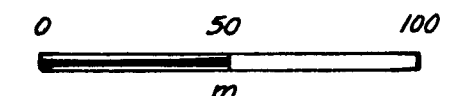
August 14, 1984.

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logged

logged



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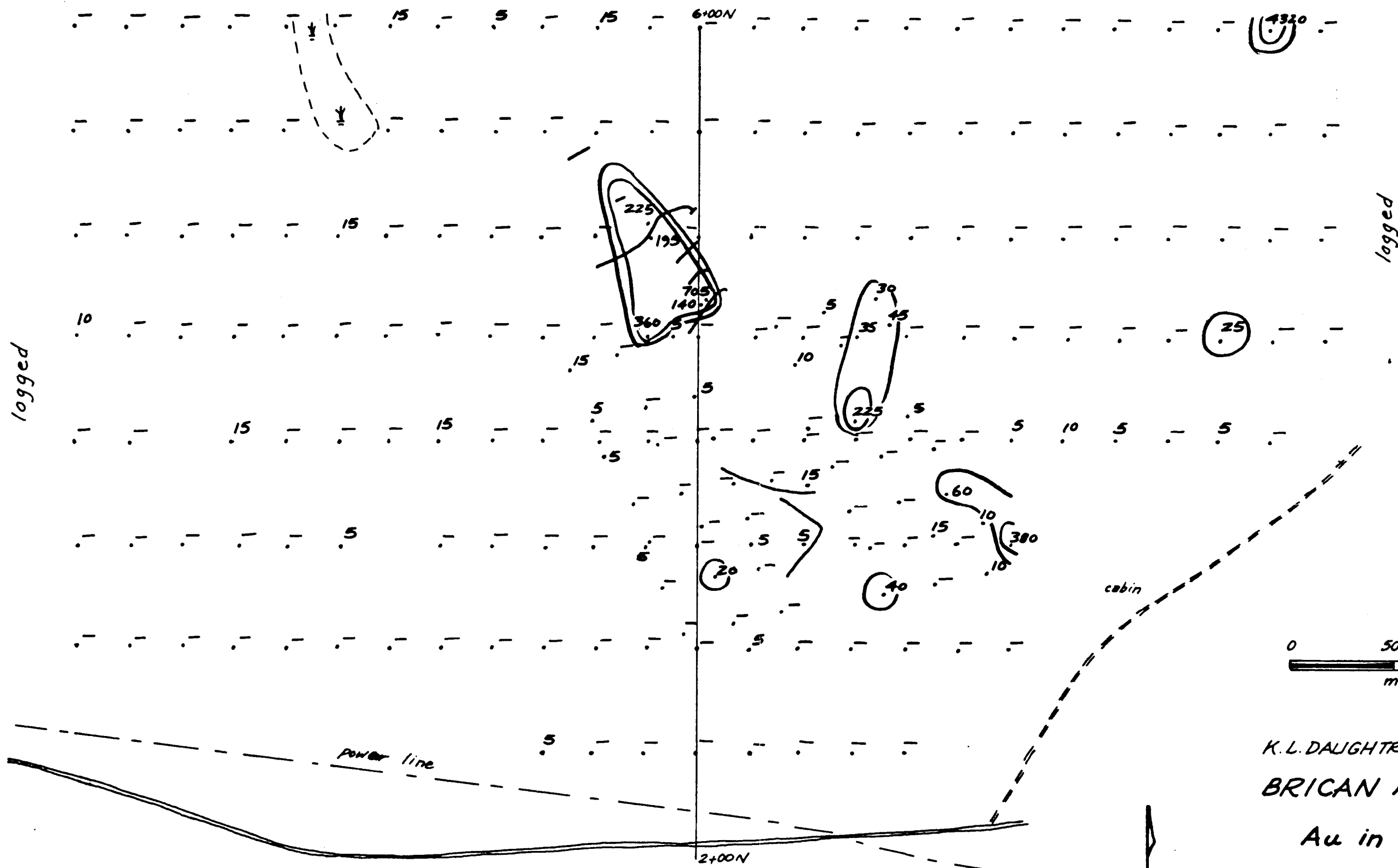
GEOLOGY

GAVIN PROPERTY
CARIBOO M.D. 93A/5W

- soil sample location
- backhoe trench
- rock sample
oz/ton Au/oz/ton Ag
- +x feldspar/quartz
porphyry dyke
- Pvv porphyritic andesite
- vv basalt
- :: hornfelsed argillite/siltstone

61.5 km to
Williams Lake

geology by WRG & after Amax (1979)



. soil sample location
 — backhoe trench
 — < 5 ppb
 — contoured at 20, 70 ppm

61.5 km to Williams Lake

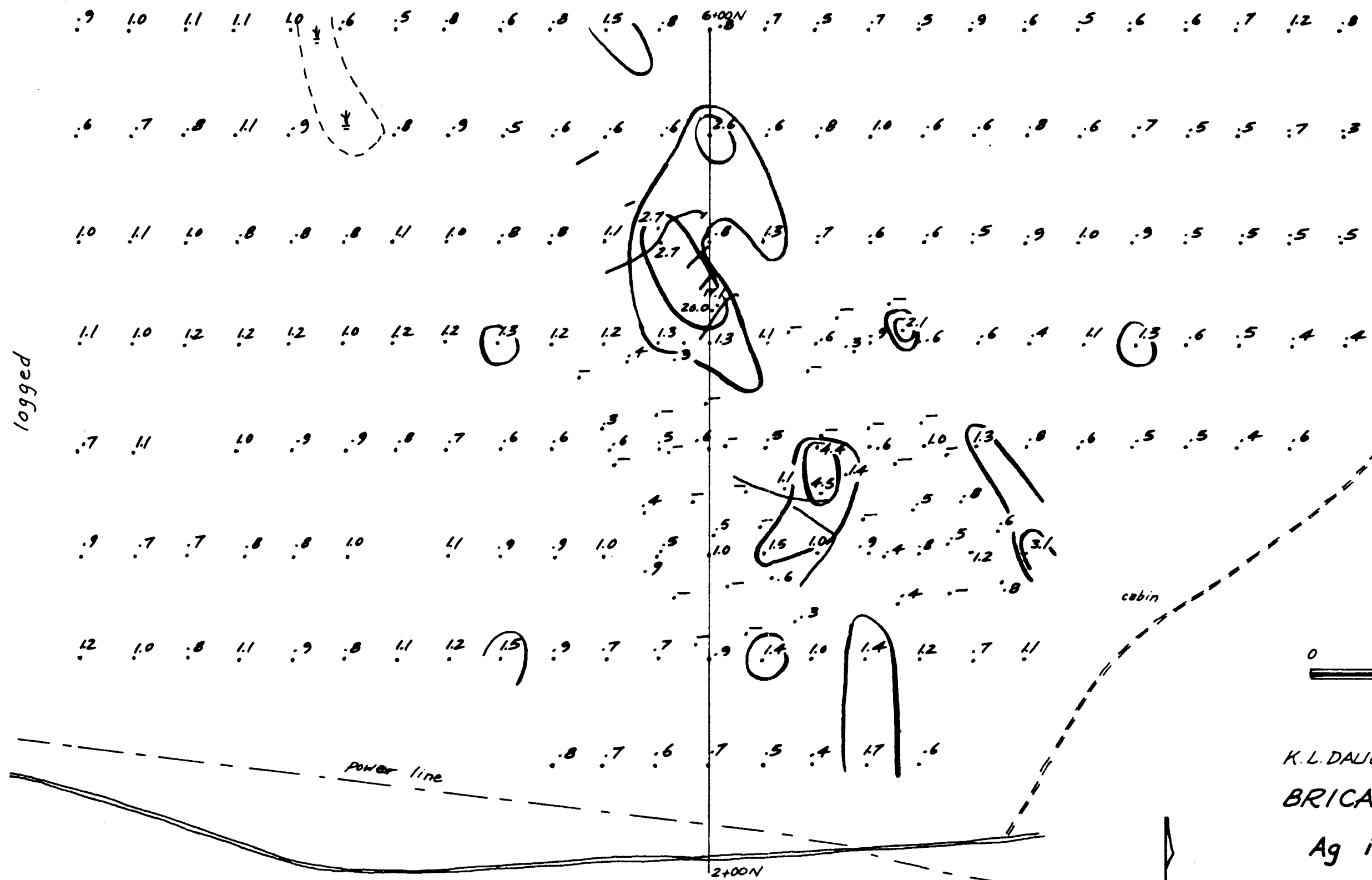
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 Au in soils

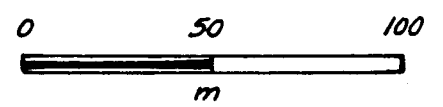
GAVIN PROPERTY
 CARIBOO M.D. 93A/5N

1:2,000 JUNE, 1984 FIG. N° 4
 PROJ. 074 WRG



logged

logged



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 Ag in soils

• soil sample location
 — backhoe trench
 — < .2 ppm
 - - - - - contoured at 1.3, 2.0 ppm

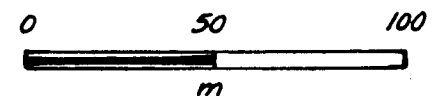
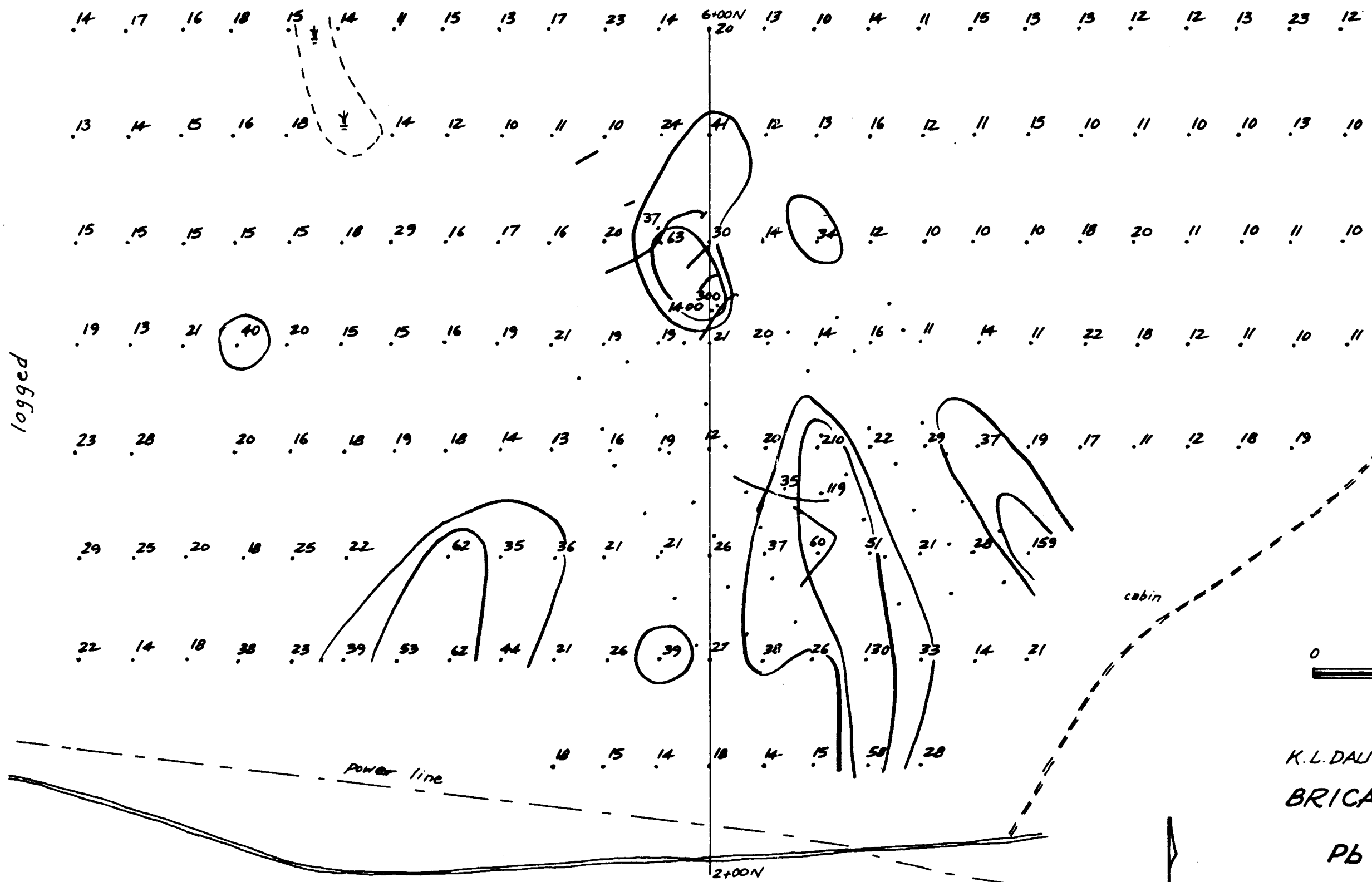
61.5 km to Williams Lake

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GAVIN PROPERTY
 CARIBOO M.D. 93A/5N

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1:2,000
 PROJ. 074
 JUNE, 1984
 WRG
 FIG. N° 5



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Pb in soils

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GAVIN PROPERTY

soil sample location

backhoe trench

contoured at 30, 50 ppm

CARIBOO M.D.

93A/5W

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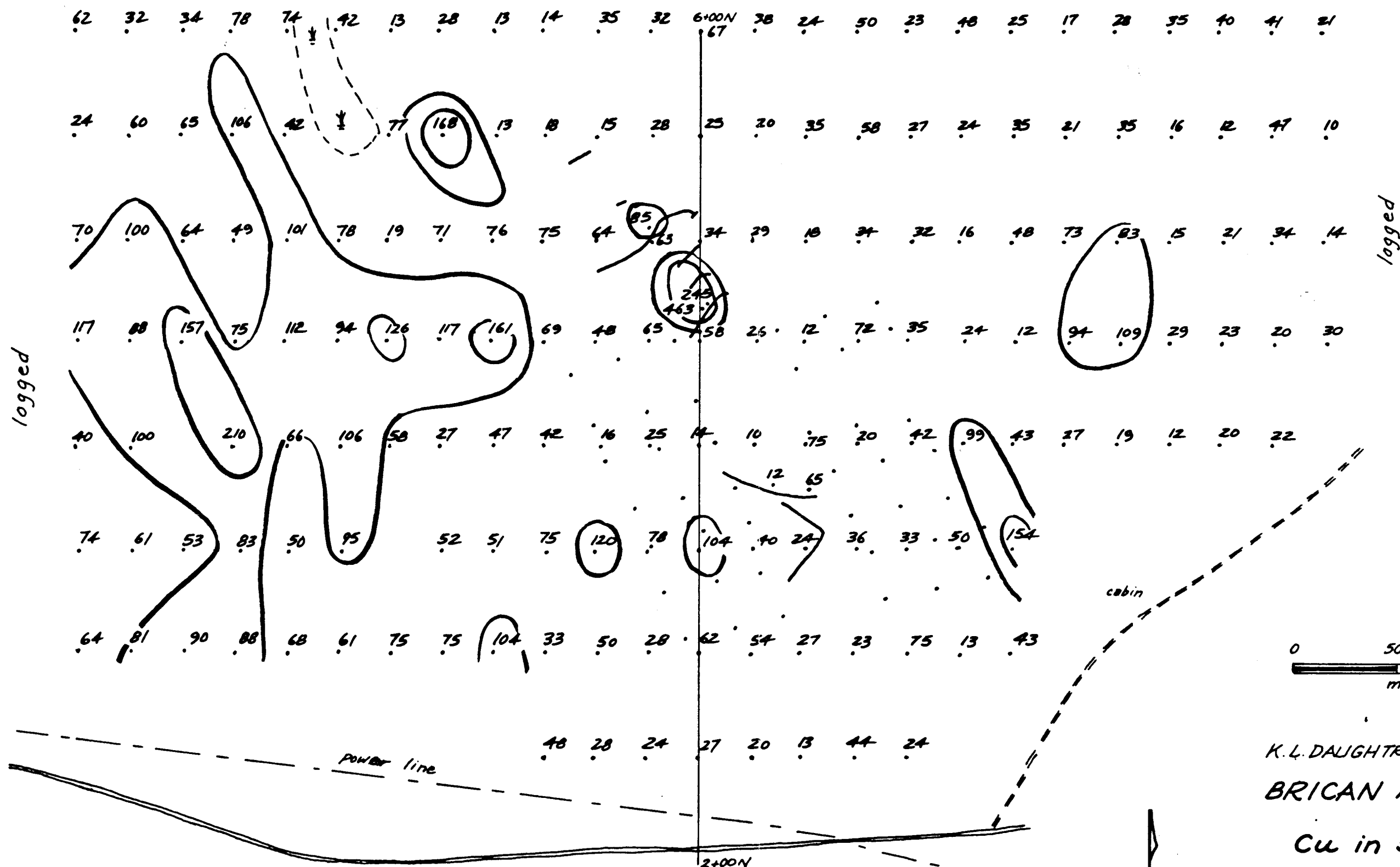
1:2,000

JUNE, 1984

FIG. N° 6

PROJ. 074

WRG



• soil sample location

— backhoe trench

contoured at 75, 125 ppm

← 61.5 km to Williams Lake

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Cu in soils

GAVIN PROPERTY

CARIBOO M.D.

93A/5W

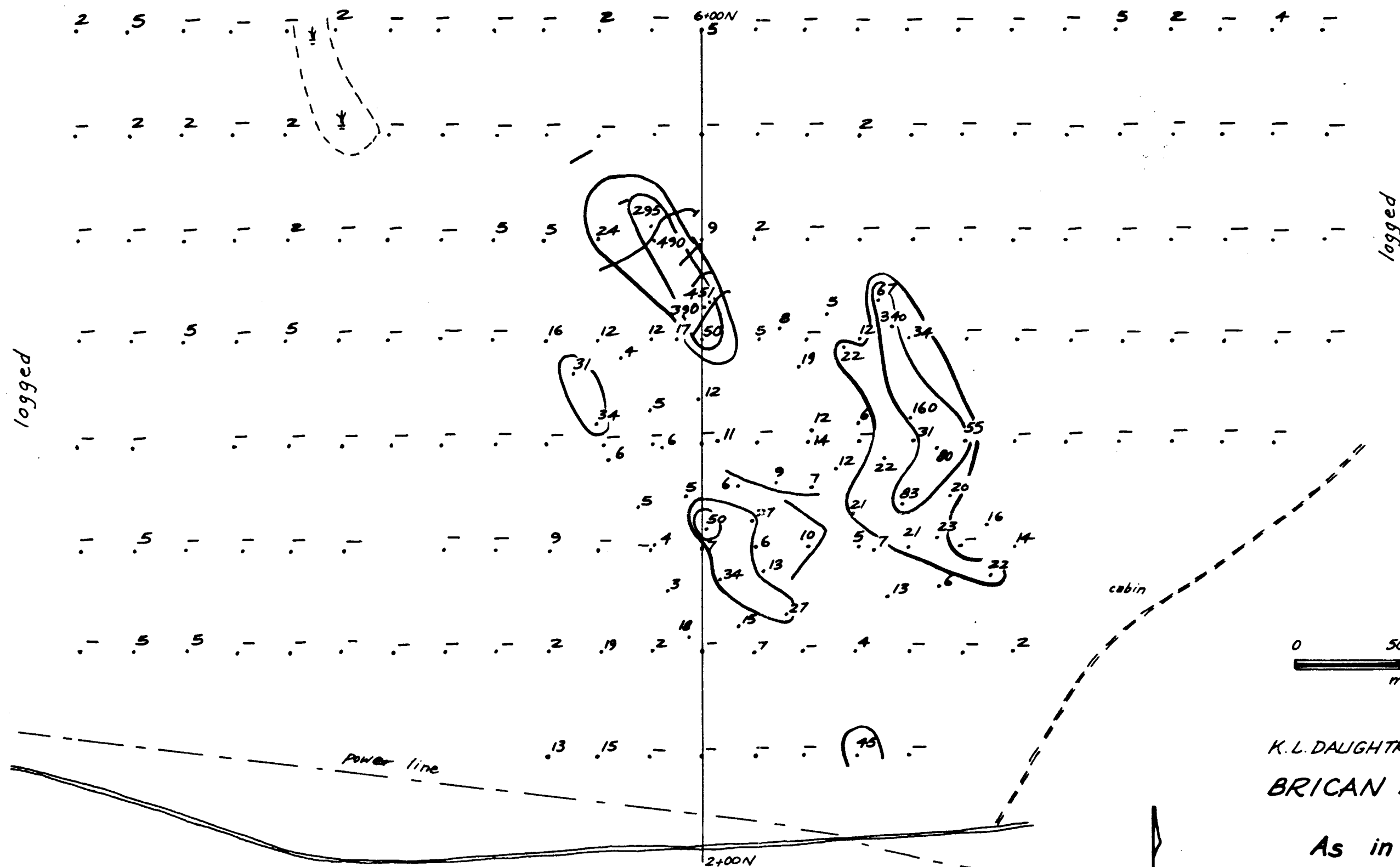
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JUNE, 1984

FIG. NO. 7

PROJ. 074

WRG



• soil sample location

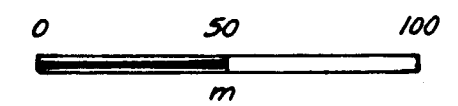
— backhoe trench

— < 2 ppm
 - - - - - contoured at 20, 50 ppm

← 6.5 km to Williams Lake

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As in soils

GAVIN PROPERTY

CARIBOO M.D.

93A/5N

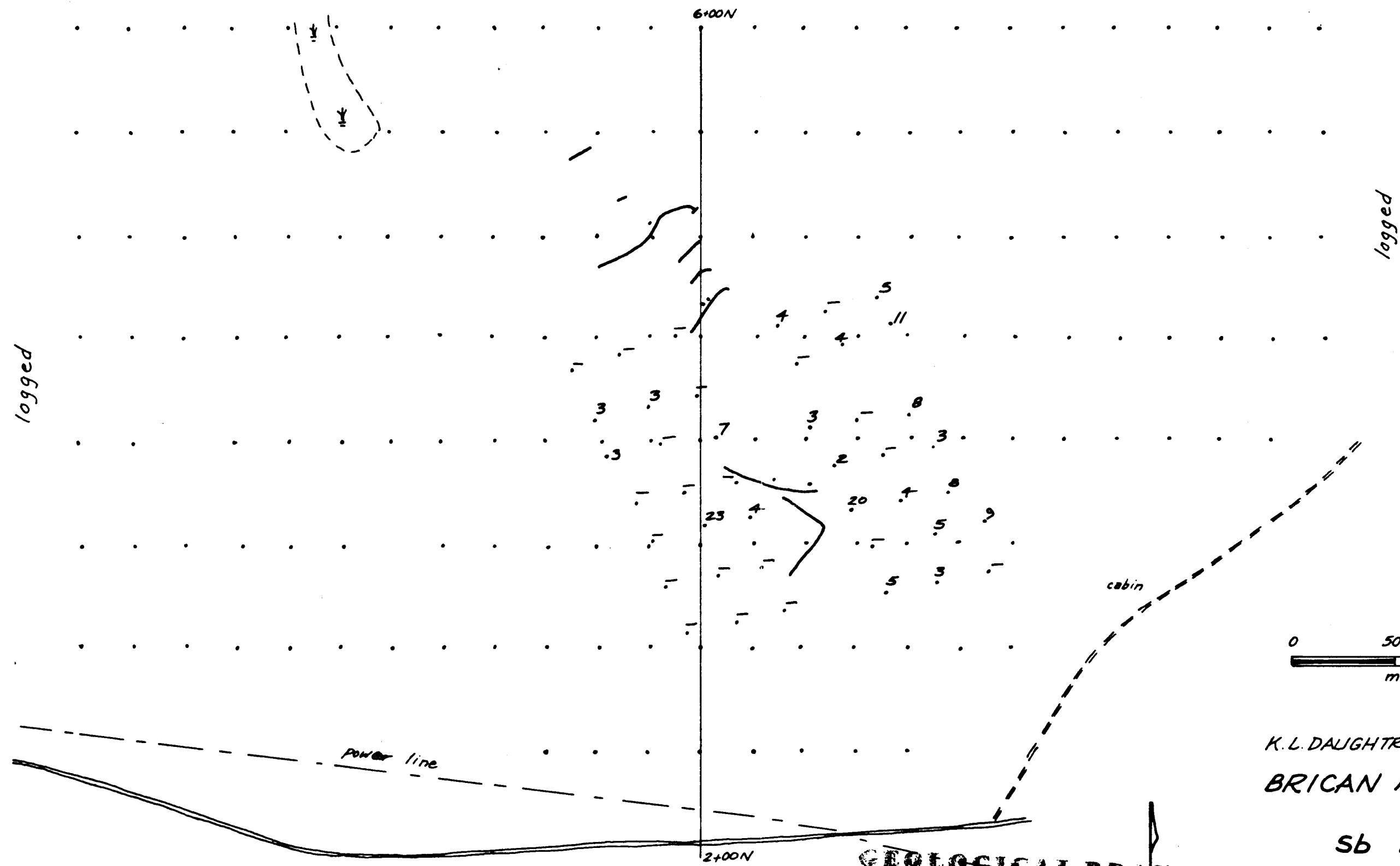
1:2,000

JUNE, 1984

FIG. N° 8

PROJ. 074

WRG



. soil sample location Sb values in ppm
 — < 2 ppm
 — backhoe trench

← 61.5 km to
 Williams Lake

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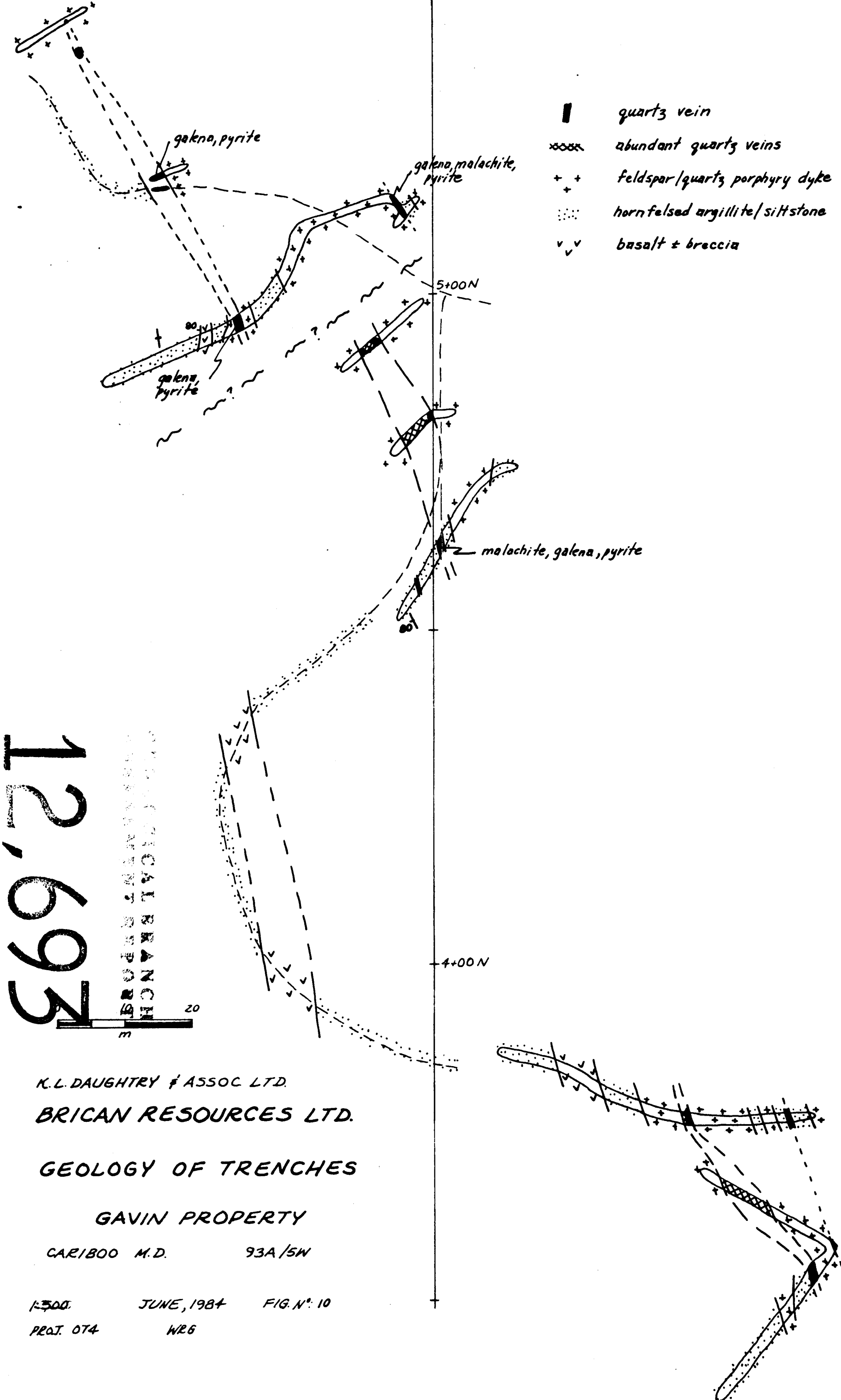
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Sb in soils

GAVIN PROPERTY

CARIBOO M.D. 93A/5W

1:2,000 JUNE, 1984 FIG. N° 9
 PROJ. 074 WRG

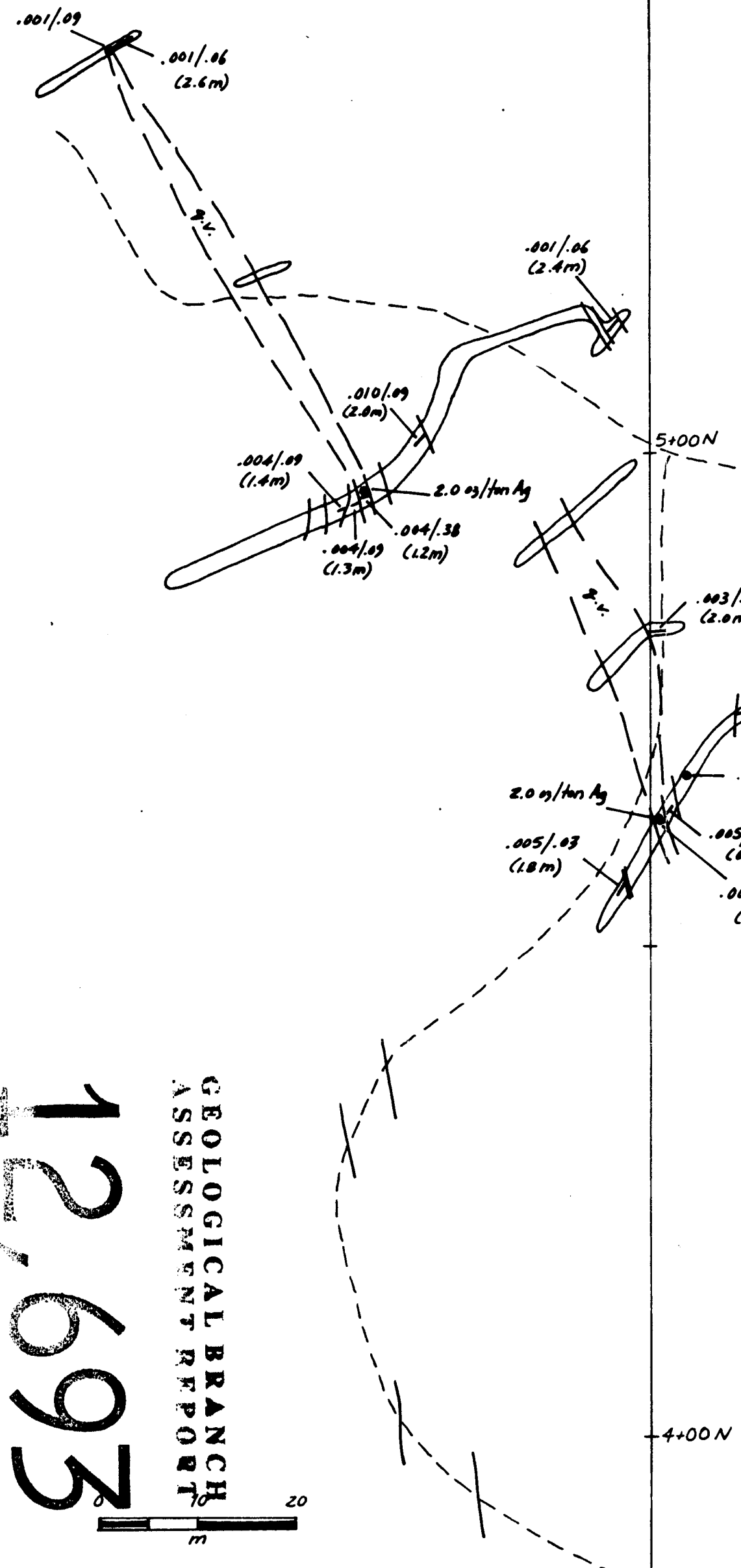


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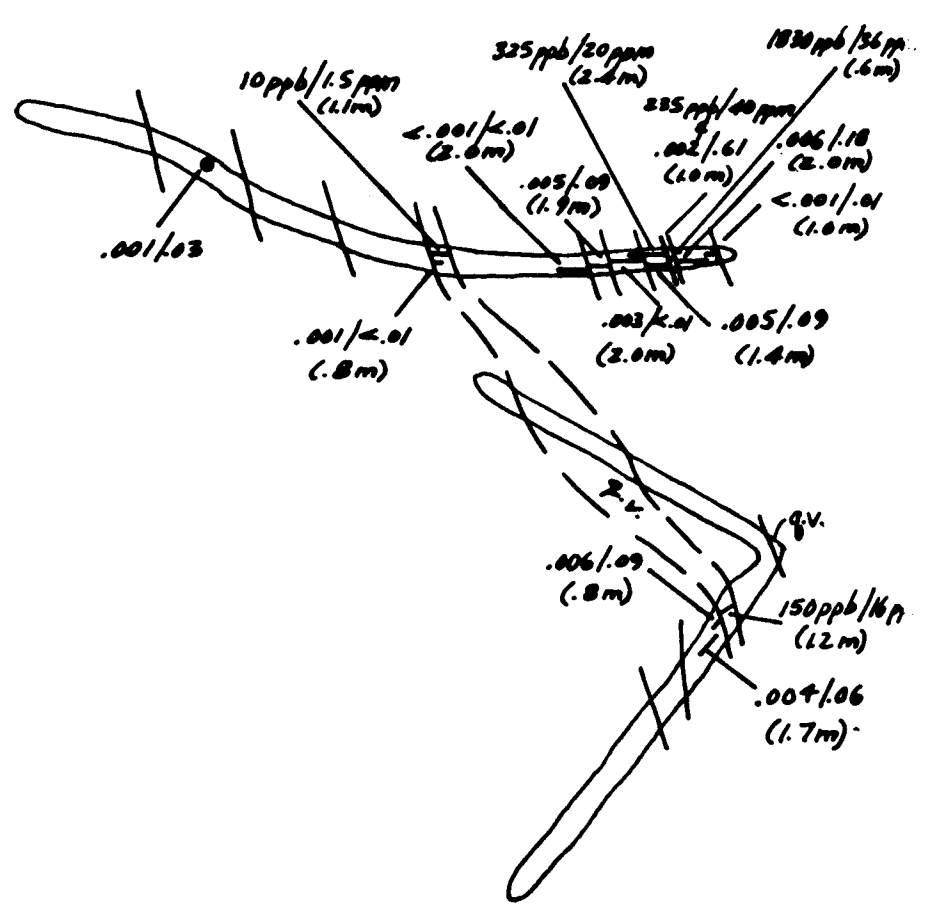
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 GEOLOGY OF TRENCHES
 GAVIN PROPERTY
 CARIBOO M.D. 93A/5W

1:500 JUNE, 1984 FIG. N° 10
 PROJ. 074 WR6

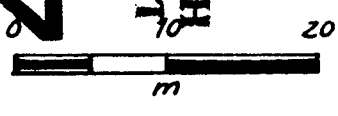


- chip sample
- ppb Au / ppm Ag
oz/tan Au / oz/tan Ag
(length in metres)
- grab sample
- - - geological contact
- q.v. main quartz vein



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ROCK SAMPLING

GAVIN PROPERTY

CARIBOO M.D. 93A/5W

1:5000 JUNE, 1984 FIG. N°: 11
PROJ. 074 WR6