

Assessment Report
on
HOLMAN and BLOOM GEOCHEMICAL SURVEYS

ROSE GOLD Mineral Claim

Record No. 2934 (7)

Mt. Penrose Area

Gold Bridge Region

Lillooet Mining Division

Lat. $50^{\circ} 51'$ Long $123^{\circ} 55'$

NTS 92J 15/W

Owner: Tammy L. La Rue
Lillooet, B.C.

Information for this report
compiled and written by

John P. La Rue

Lillooet, B.C.

July 18th, 1991

21,572

LOG NO: AUG 12 1991 RD.

ACTION:

FILE NO:

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**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,572

INTRODUCTION

- (i) The ROSE GOLD Mineral Claim is located at Lat $50^{\circ} 51'$ Long $123^{\circ} 55'$ 6 kilometers west of the town of Gold Bridge, B.C. within the Lillooet Mining Division, NTS Map 92J/15W.

Access to the property's eastern boundary is two-wheel drive from Gold Bridge via West Gunn Lake Rd. Access to the interior portions of the claim is 4-wheel drive via Dunn Rd. which leaves West Gunn Lake Rd. some 600 meters north of the junction with East Gunn Lake Rd; Dunn Rd. in turn branches into a network of numerous sub-grade logging roads, particularly on the eastern half of the claim.

The property is located on the southeastern slope of Mt. Penrose immediately west and north of Gunn and Lajoie Lakes respectively. The property lies at the southeastern part of the Pacific Ranges, a physiographic division of the Coast Ranges. The terrain is, in general steep and mountainous with the prevalent slope facing towards the south and southeast. Elevations vary from 3000' at the SE corner of the claim to more than 4900' at the NW corner on Mt. Penrose.

Sources of water for all phases of property development are abundant and would potentially include Penrose Creek which bisects the property in a northwesterly direction, Gunn Lake, Lajoie Lake, and Downton Lake.

A B.C. Hydro Generating Station is located in Gold Bridge at the foot of Downton Lake and residential electrical service follows both east and west Gunn Lake Roads.

Forest cover consists primarily of moderate density fir and spruce conifer species on the heights and dense alder and willow deciduous species in the drainages. Undergrowth is generally from moderate to dense, the previously logged off portions being especially thick and difficult to traverse.

- (ii) The ROSE GOLD Mineral Claim Record No. 2934 is comprised of 20 units Modified Grid with an expiry date of July 30th, 1991. This expiry date does not take into account the surveys under discussion as being accepted for assessment credits. ROSE GOLD is

owned by Tammy L. La Rue of Lillooet, B.C. and operated by Interex Resources Inc. of Lillooet, B.C.. The ROSE GOLD Claim is located on the site of the former Gwendolyn's Glory and G.G. 1 Mineral Claims, and incorporates this ground that had previously been held by Climex Mining of B.C. Ltd. and Chalice Mining Inc. respectively.

Regionally the ROSE GOLD property is located within the famous Bridge River Gold Camp, where production from the Bralorne-Pioneer and Minto Mines together totalled a significant 8,224,520 tons grading and average 0.53 oz/ton Au and 0.12 oz/ton Ag. Today, many of these early discoveries and past producers of the Bridge River camp, including the Bralorne-Pioneer, are currently being re-evaluated as potential modern day producers.

Local geologic history in the vicinity of ROSE GOLD centers around one such former small producer, the VERITAS Group of Reverted Mineral Crown Grants which lie immediately adjacent along the southern boundary of the claim, and are owned and operated by Coral Energy Ltd. of Vancouver, B.C. The capsule geological comment for the VERITAS Group from the Ministry of Energy, Mines and Petroleum Resources Data Section describes them: "A tongue of Bralorne Diorite intrudes Quartzites and Argillites of the Bridge River (fergusson) Group and serpentine. A massive quartz vein, with small amounts of pyrite, arsenopyrite, galena and native gold, cuts the diorite and the serpentine. Minerals present include gold and lead." A sample of massive pyrite-arsenopyrite in quartz from the dump of the #3 adit returned 0.56 oz/ton Au (Climex Mining of B.C. Ltd, 1980). Sampling of the Veritas adits by W. Gruenwald B.Sc. of Kerr, Dawson and Assoc. indicated "moderately high grade gold and silver mineralization occurring in massive pyrite and arsenopyrite sulphides occurring as pods within the known vein system". (1978 Ministry of Mines Assessment Report #6971)

ROSE GOLD is located on the site of the former Gwendolyn's Glory and G.G.1 Mineral Claims. In 1979, Climex Mining of B.C. performed geo-exploration surveys on the property consisting of geophysical and geochemical surveys, physical work, limited trenching, and

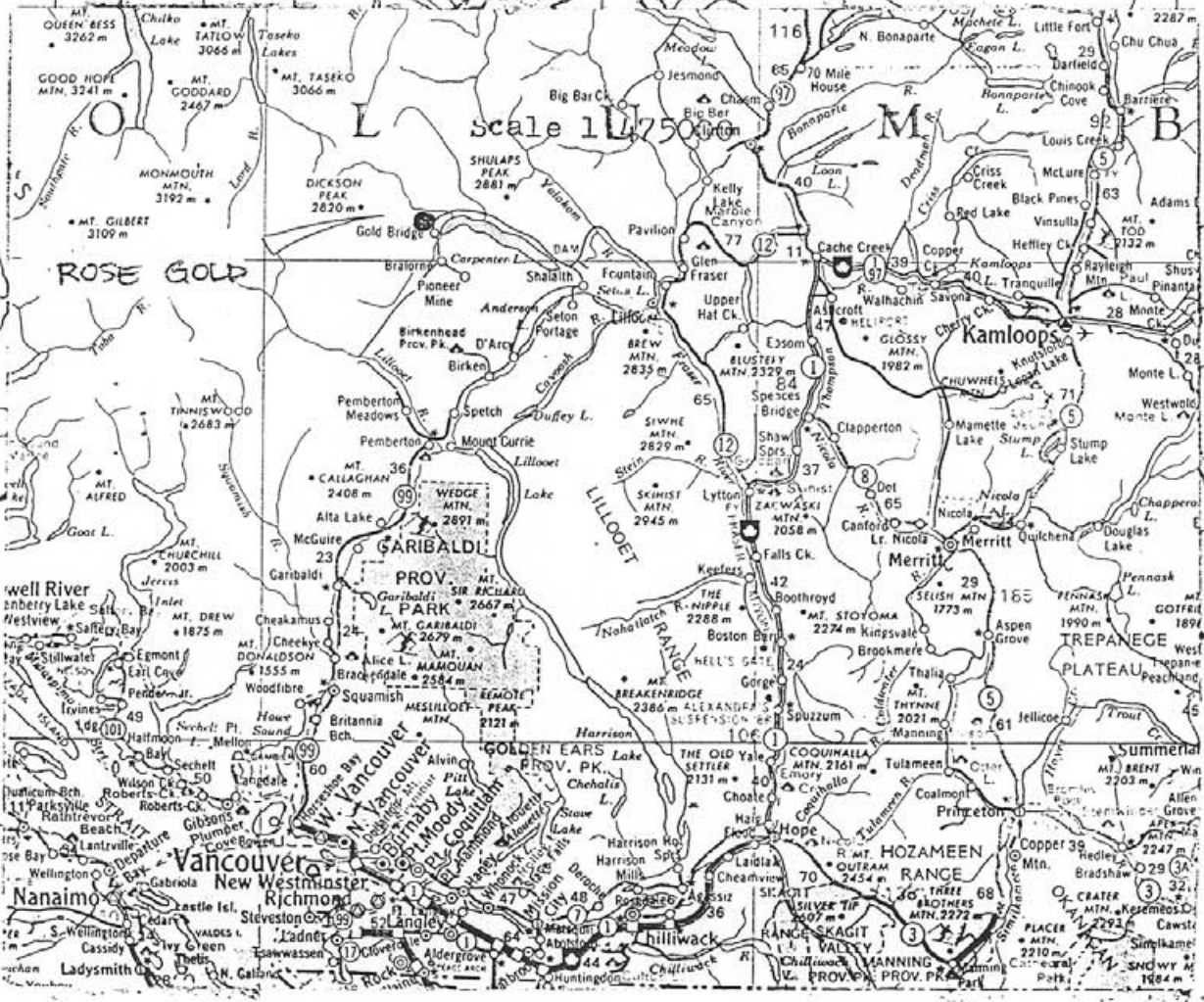
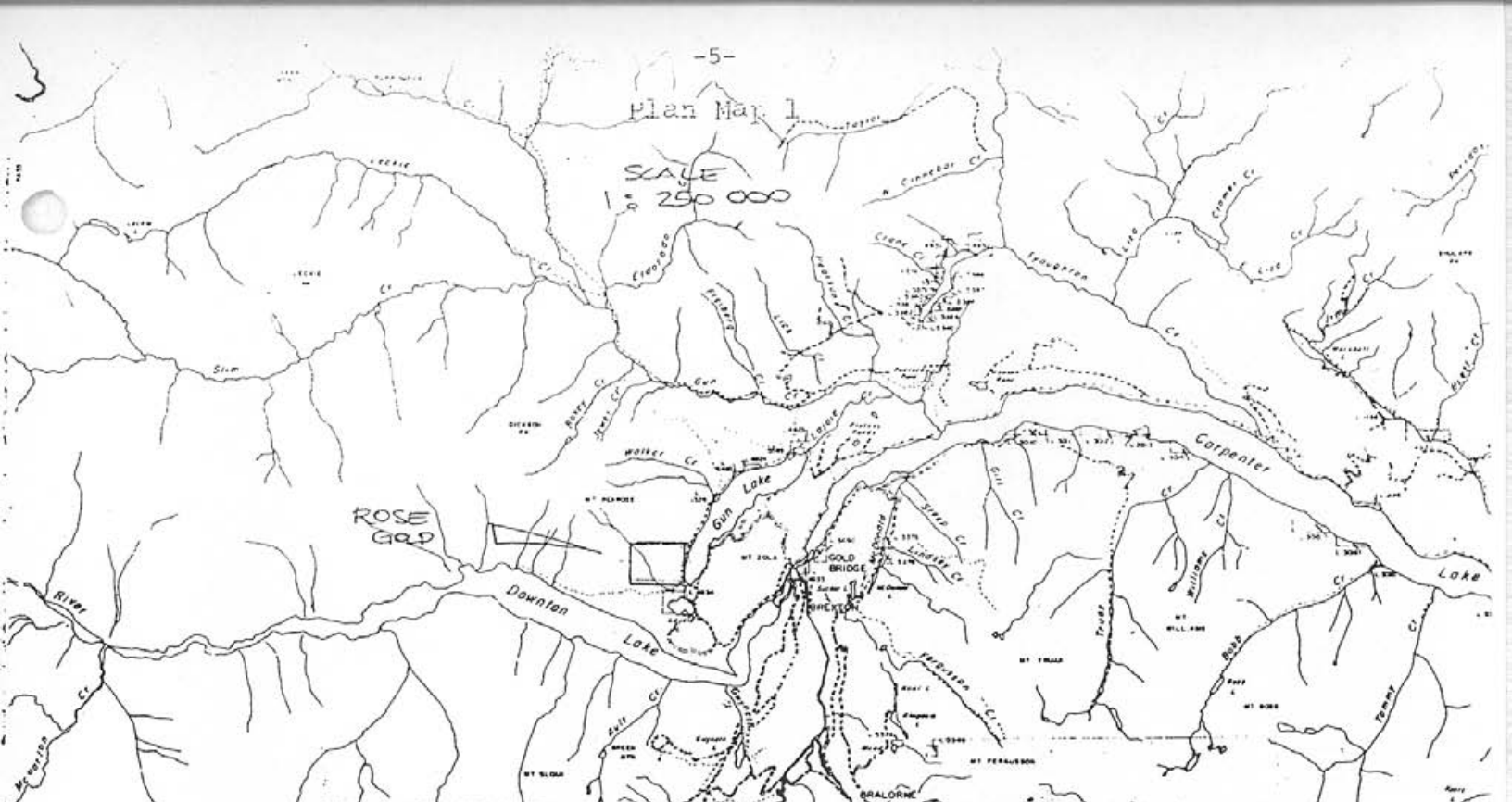
diamond drilling totalling 30 feet of overburden and 90 feet of bedrock. In 1980 Climex commissioned a "Geological Report on the Gold Bridge Property of Climex Mining of B.C. LTD." by L. Sookochoff, P.Eng. In 1983, a letter describing local geology was commissioned by Chalice Mining Inc. following a property examination by Edward W. Grove, Ph.D., P.Eng. In 1984, airborne Magnetic and VLF-EM Geophysical Surveys were flown by Columbia Airborne Geophysical Services Ltd. and a subsequent report written by David G. Mark, Geophysicist, at the request of Chalice Mining Inc. (Assessment Report 12853). A program of Linecutting, Grid Establishment, and subsequent ground Magnetometer and VLF-EM surveys were completed by Interex Resources Inc. at the request of D.R.Benn, for assessment purposes in 1985. During 1986, Interex performed geophysical surveys on ROSE GOLD consisting of VLF-EM and Self-Potential surveys. This was followed up in 1987 with additional SP, VLF-EM, and Magnetometer surveys and limited soil geochemistry, also performed by Interex Resources Inc. During the 1988 - 89 exploration season, Interex performed Self-Potential, VLF-EM and IP surveys conducted over portions of both A and B Grids. Self-Potential surveys were also conducted during the 1989 - 90 exploration season; focus of the surveys was the northwestern half of A Grid where Climex (1980) delineated favourable soil geochemistry for Copper, Arsenic and Gold in a limited sampling program.

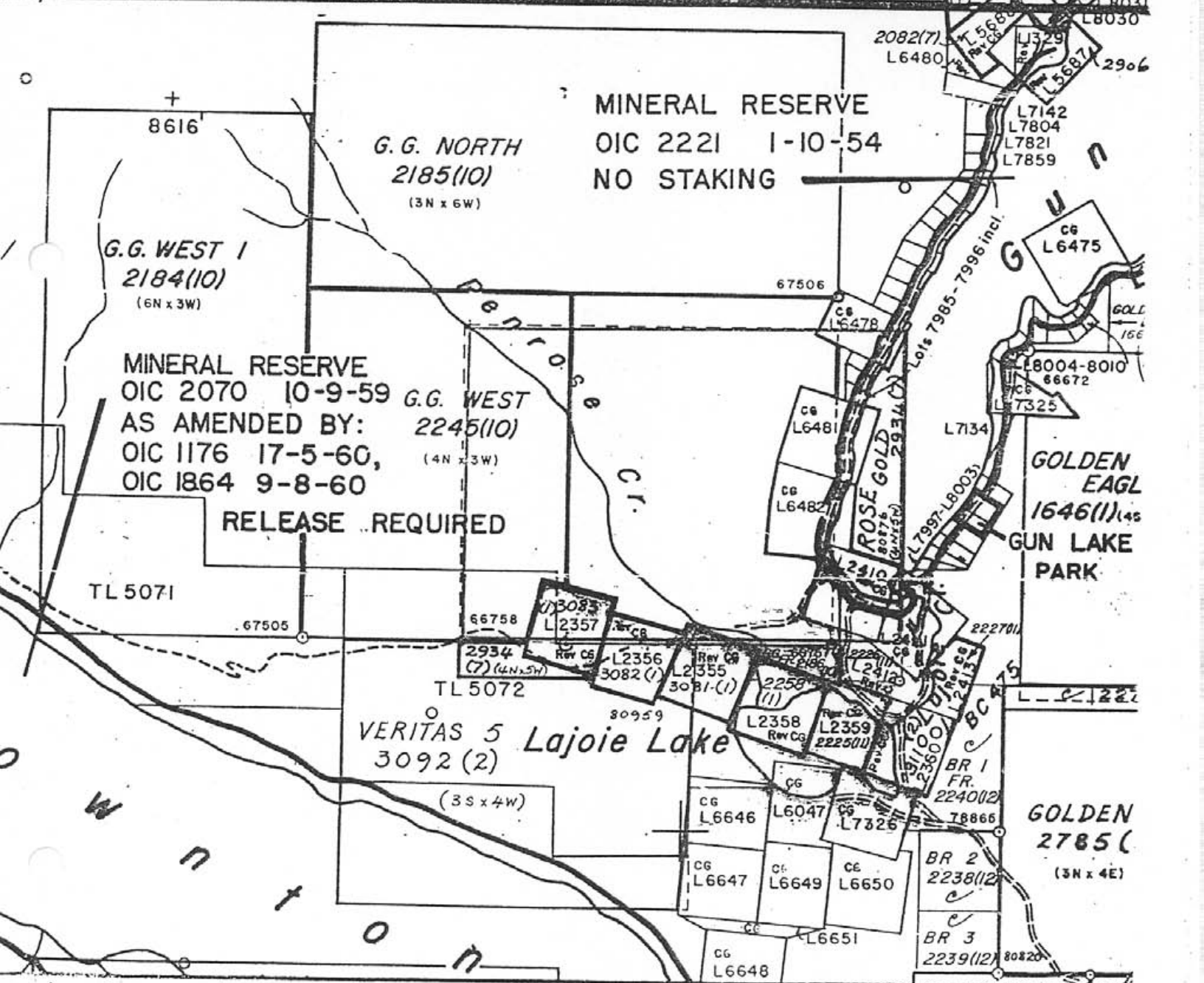
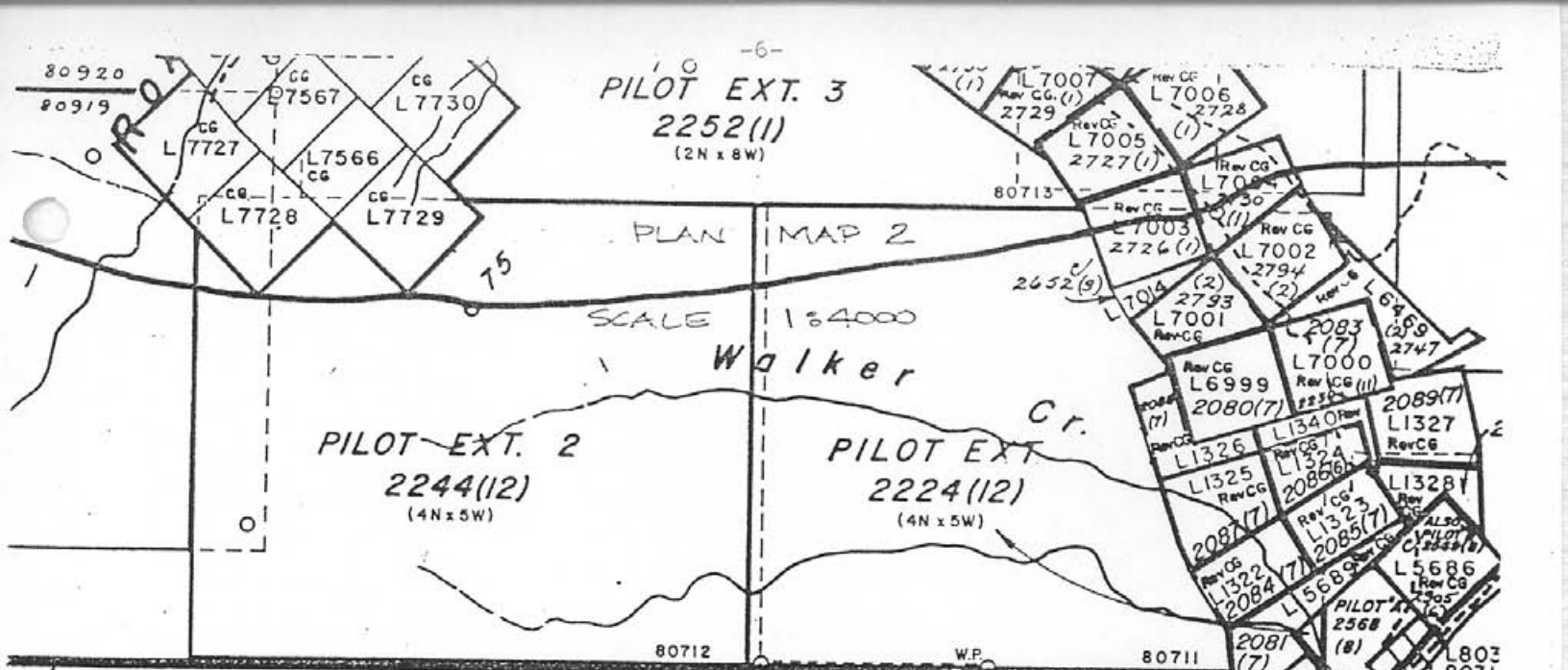
- (iii) A summary of work performed on the ROSE GOLD Property for assessment purposes during the 1990 - 91 exploration season is as follows:
- Overburden removal of approximately 50 - 60 squ. ft (approx 7 sq. meters) X depths ranging from 15 cm to .75 meters was performed with pick and shovel in the area of 275N + 135W of A Grid where Climex had a rock assay return 2.65 oz/ton Ag and 0.6% Cu in a contact zone with altered intrusives.
 - A total of 3.46 km of Holman and Bloom Geochemical Soil Survey was completed over the Northwestern-half of A grid, over the same area returning a coincidental SP anomaly in last years' explorations, with the favourable soil geochemistry found by Climex in 1980.

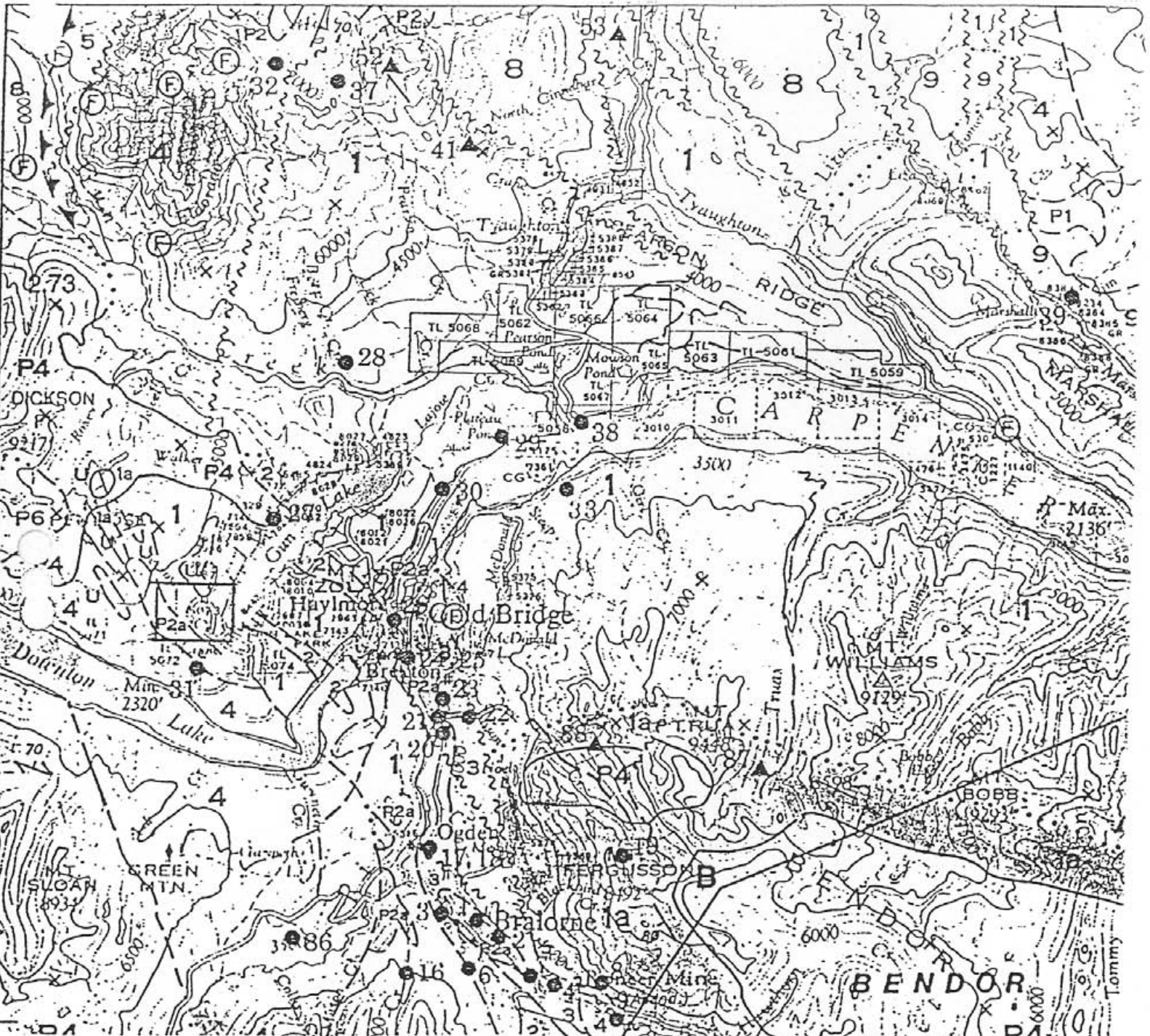
- (iv) Work was performed over an area approximately 0.35 sq. Km and is in the exact area of last years explorations; work performed was of a follow-up nature.

Plan Map 1

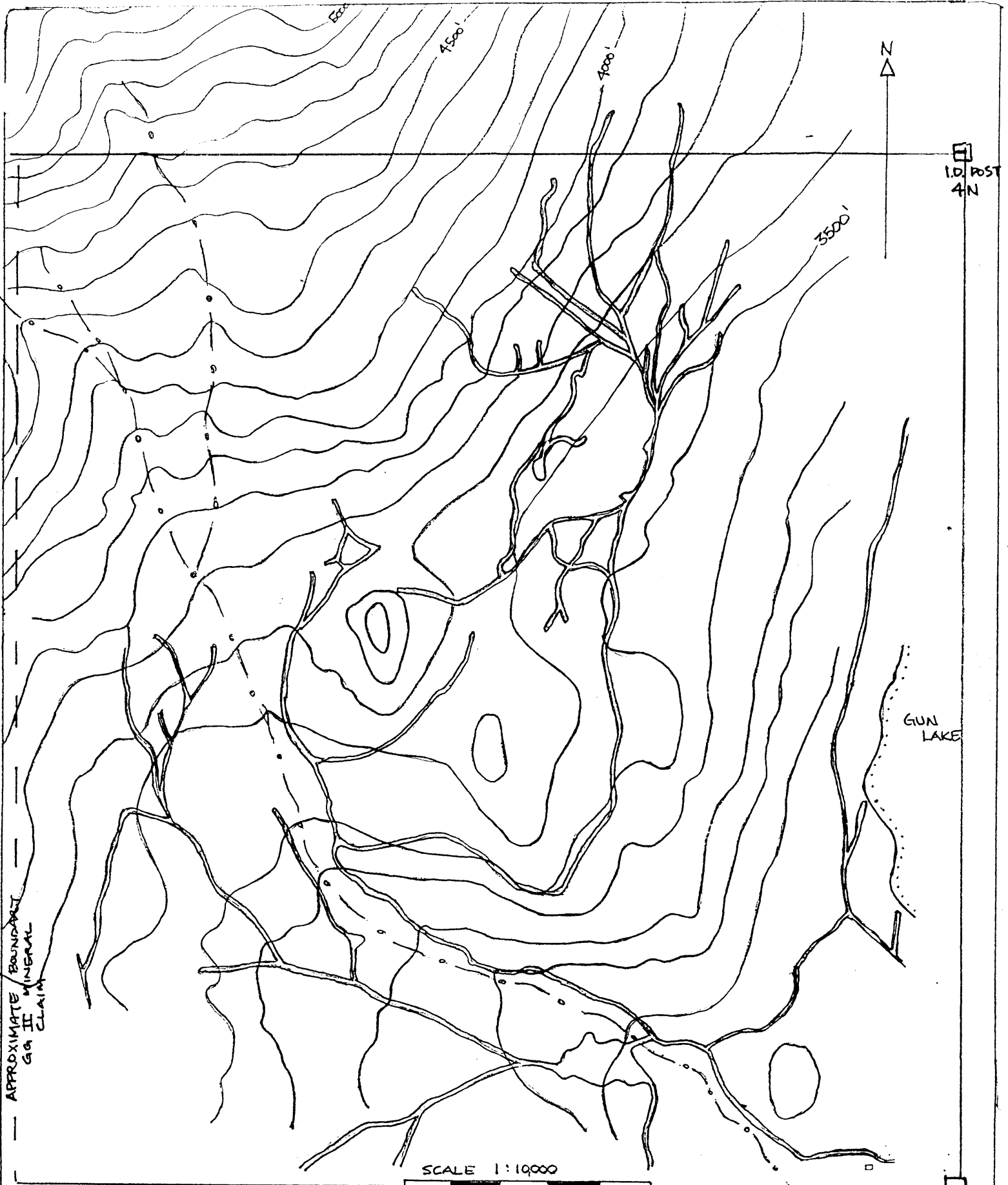
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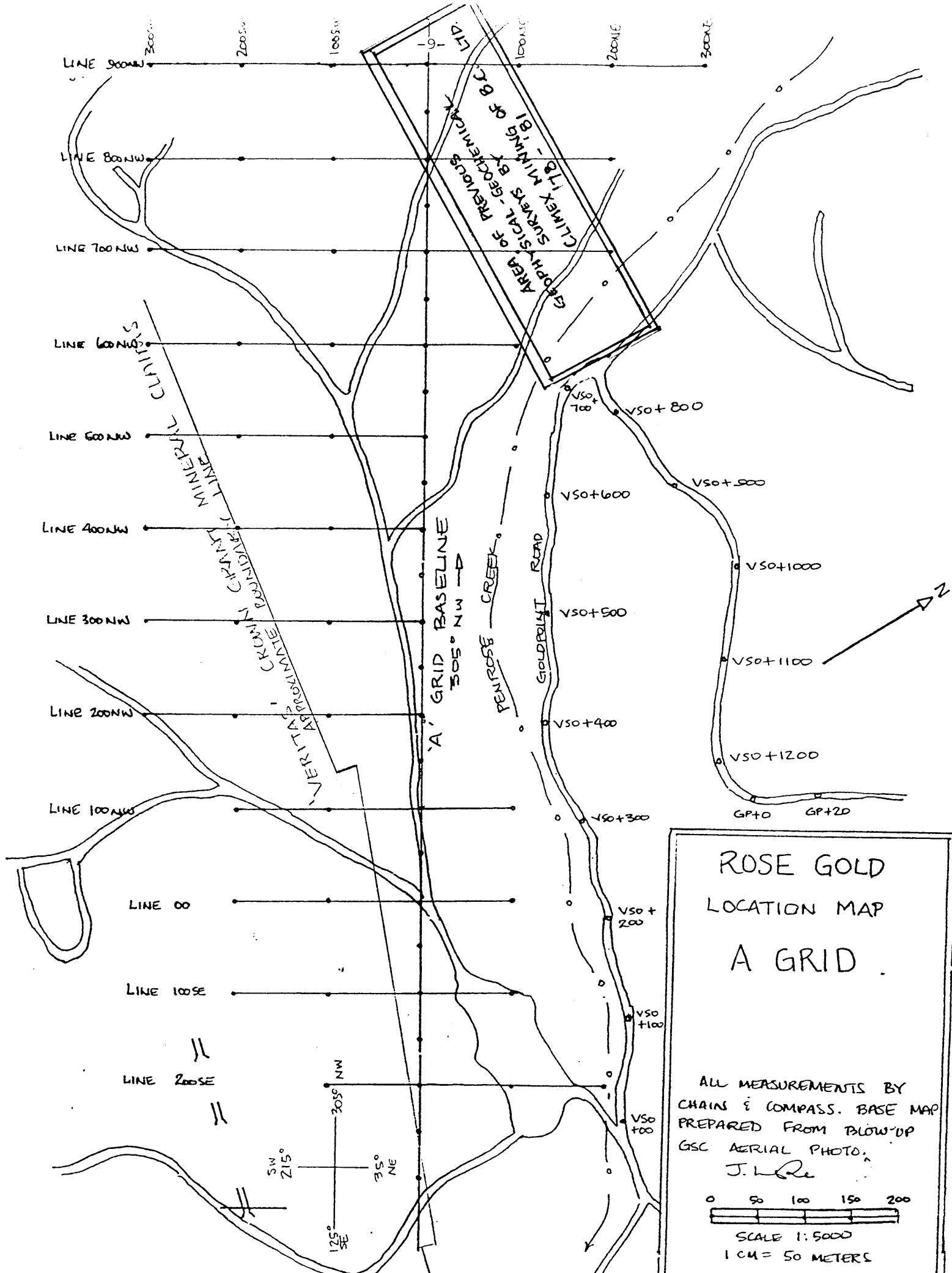




- 1 - Bridge River Group (Fergusson): Chert argillite, phyllite, greenstone
- P2a- Bralorne Intrusions
- U - Ultrabasics
- 2 - Noel Formation: Thin Bedded chert, argillite, conglomerate, greenstone
- 3 - Pioneer Formation: Greenstone derived from andesitic flows, minor rhyolitic breccia and pyroclastics
- 4 - Hurley Formation: Thin bedded limy argillite, phyllite, limestone tuff

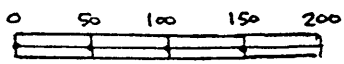


ROSE GOLD MINERAL CLAIM #2034 (7)
 SW X 4N MODIFIED GRID

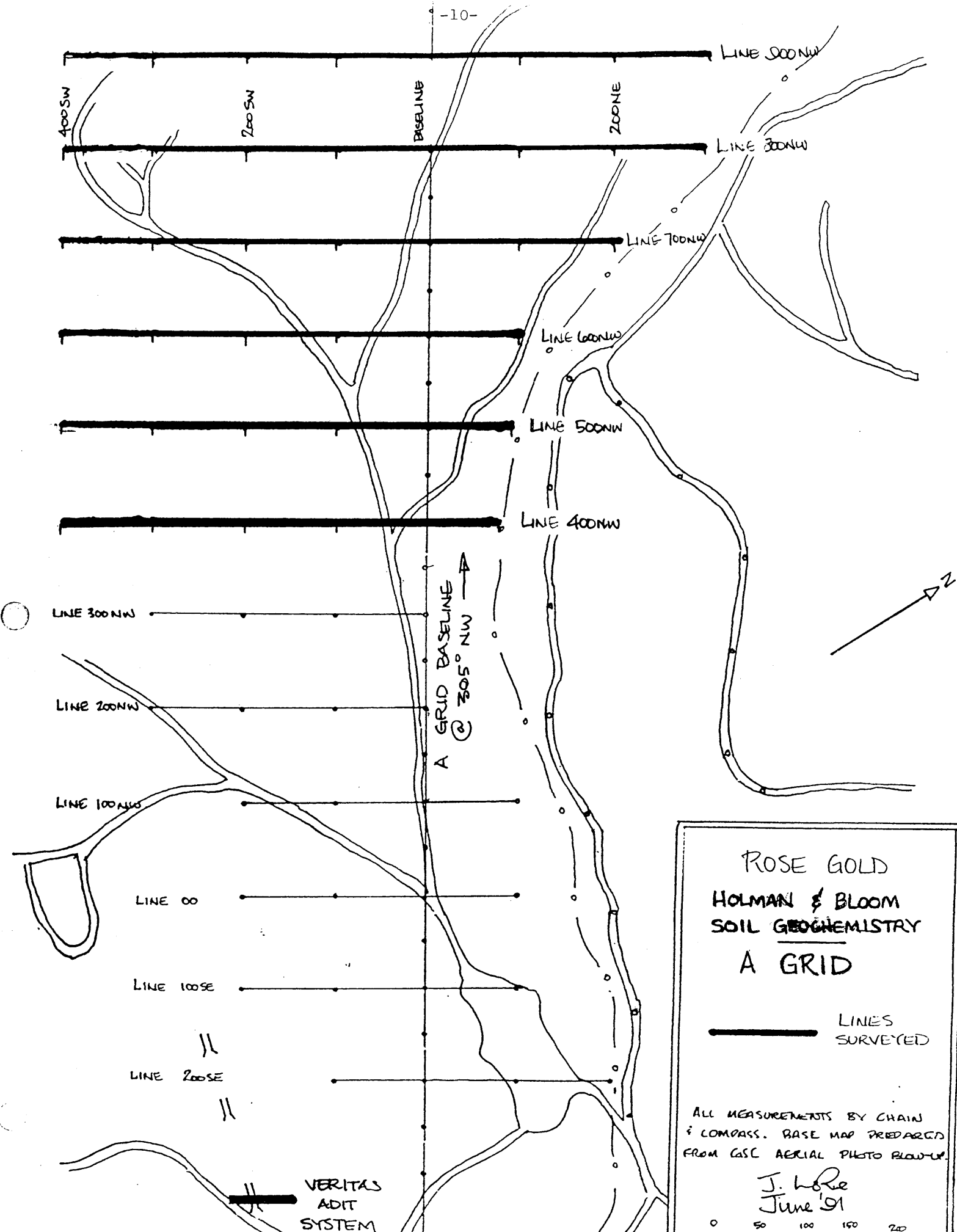


ROSE GOLD
LOCATION MAP
A GRID

ALL MEASUREMENTS BY
CHAINS & COMPASS. BASE MAP
PREPARED FROM BLOW-UP
GSC AERIAL PHOTO.
J. L. Re



SCALE 1:5000
1 CM = 50 METERS



DETAILED TECHNICAL DATA AND INTERPRETATION

3.46 Km. of Homan and Bloom Soil Geochemistry were performed on Lines 400NW through 900NW of A Grid, for a total of 184 stations and 368 soil sample determinations. The stations were established at 20 meter grid intervals, and marked with flagging tape. Virtually every roadside ribbon had been torn down in the span of one year. Approximately 15 - 20 stations were re-measured and flagged.

A total of 184 soil samples were collected from the 'B' Horizon (or where the 'B' Horizon should be were it more developed), placed in wet strength Kraft paper bags, air dried, and transported to Lillooet where they were subsequently tested using the Holman and Bloom Method of determining relative presence/absence of "copper" and/or "total heavy metal" ions in the soil. The kit is made available by Min -En Labs of N. Vancouver.

The samples were collected using a polaski and long handled shovel. Due to the intense pumice/ash fall in the region, holes averaging over 100 cm depth were common, and in fact necessary to reach the B Horizon laying under the pumice layers. Focus of the survey was to verify the location of previous geochemical anomalies (Climex), and determine if the delineated SP anomaly generated in last years' exploration season was coincident with anomalous Holman and Bloom values; that by using the "copper" and "total heavy metals" for testing as pathfinders, it might be possible to determine areas for future geochemical testing for gold. The soil samples are currently stored at the authors' home in Lillooet; sufficient soil was gathered that additional testing will be possible at a future date.

The Holman method determines concentrations of readily-soluble copper in soil and alluvium. In the procedure, a measured sample of soil is shaken, cold, with an acid citrate solution and dithizone in a stoppered test tube. A positive test for copper will show a slight to intense reddish coloration in the 'upper' organic layer; subsequent titration of additional amounts of dithizone brings the coloration back to a blue-grey 'end-point'. The volume of the titra-

tion in drops gives a measure of the amount of metal reacting, and comparison between individual samples, of the additional amounts of added dithizone necessary to bring the solution back to the 'end-point' are the basis of the test; it is these resultant values that are then plotted and graphed or contoured.

Similarly, the Bloom method is a test for determining readily-soluble heavy metal concentrations in soils and alluvium. Procedure is for a measured sample to be shaken cold, with an acid citrate solution and dithizone in xylene. As in the Holman test, a colorimetric determination is made after shaking and then titrated back to the 'end-point'; results may then be plotted and graphed or contoured.

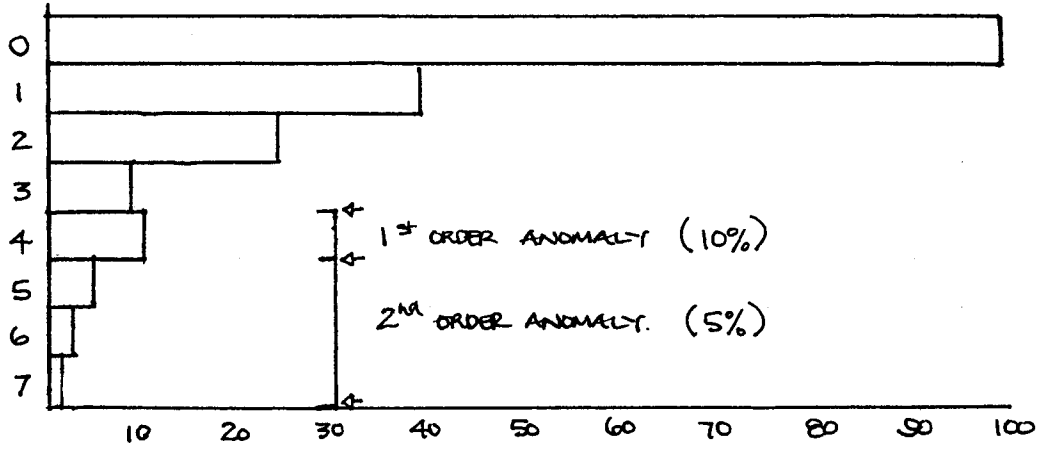
Histograms for both the Holman and Bloom tests were prepared to assist in interpreting the results. First Order and Second Order anomalies were then delineated using the top ten percent (highest) readings (values) to indicate an anomaly of the First Order, and the top five percent (highest) readings to indicate an anomaly of the Second Order. For the purposes of this survey, only the Second Order anomalies were plotted for simplification. Following an actual geochemical analysis of selected soil samples, it would hopefully be possible to extrapolate comparative values in ppm.

Results of contouring the Second Order values show two anomalous parallel Holman contours extending through Lines 400NW and 500NW, but do not extend through line 600NW. A single, perhaps broader, Bloom anomaly parallels the Holman, and ^{SIMILARLY} does not extend through Line 600NW. First Order anomalies for copper extend through the area originally surveyed by Climex; it is assumed these verify the original work, however no markings remain from the survey to delineate exactly. Extension of this Holman First Order anomaly closely parallels last years delineated SP anomaly in the same area.

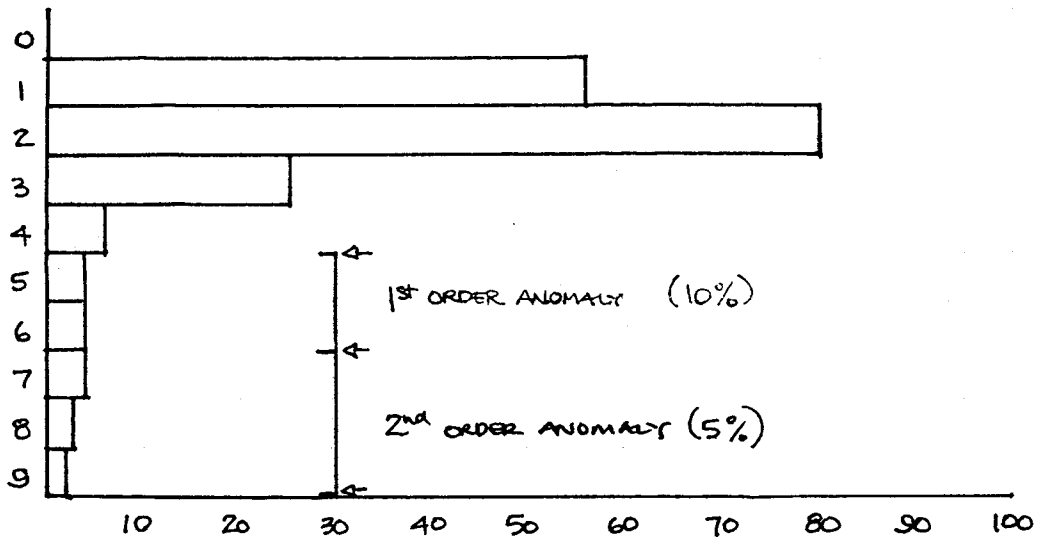
The data collected in this years' Holman and Bloom Survey reflects apparent coincident anomalies over a portion of the surveyed area, and suggests that portions of the prime A Grid SP anomaly might have copper and/or "heavy metal" mineralization as a causitive source, hence represent excellent exploration targets for additional surveying.

HISTOGRAMS FOR HOLMAN & BLOOM SOIL GEOCHEMISTRY

VERTICAL VALUES INDICATE TOTAL NUMBER OF DROPS OF HOLMAN OR BLOOM REAGENTS NECESSARY TO RESOLVE SOIL SOLUTION BACK TO NEUTRAL END-POINT



HORIZONTAL VALUES INDICATE FREQUENCY OF OCCURENCE



J. Holman
July '01

ITEMIZED COST STATEMENT

| | |
|---|-----------------------|
| SOIL SAMPLING | \$2400.00 |
| 2 persons X 8 days X \$150 per man day | |
| HOLMAN and BLOOM TESTING | |
| 2 man days @ \$150.00 per day | 300.00 |
| 4 X 4 Rental plus mileage | |
| 10 days @ \$35.00 per day plus 788 Km. @ \$0.30/Km. | 586.40 |
| Mob-de-mob: | |
| Gas, Ferry, Camp Supplies, Exploration Supplies | 828.00 |
| HOLMAN and BLOOM Test Kit (Total Cost \$824.90 for 500 determinations each Holman and Bloom) | 303.56 |
| <u>184 samples</u> 500 determinations possible | X \$824.90 = \$303.56 |
| Report Costs: Typing, Photocopying, Map Preparation and Report 4 man days @ \$150 per day | 665.00 |
| TOTAL COSTS per 1990 - 91 Season | \$5082.96 |

MALASPINA COLLEGE

Statement of Course Completion

JOHN P. LARUE

has

Successfully Completed 180 Hours of Instruction
in

MINERAL EXPLORATION FOR PROSPECTORS

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