

826706

**AUSTAR RESOURCES LTD.
ASSESSMENT COMPILATION REPORT
PRIME AND PRIME 1 CLAIMS
TULAMEEN 92H/NE
PRINCETON AREA, B.C.**

**BY:
J. BANKOWSKI**

FEBRUARY 1991

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INTRODUCTION

This report is a compilation of data relating to the Prime and Prime 1 claims which was forwarded to the author by Mr. L. Starck in addition to assessment reports ordered from the government through the mail.

Accompanying the text of this report are a series of five, page-sized maps as follows:

- Map 1 - a portion of gov't. Assessment Report Index Map, Tulameen 92H/NE, showing the location of the Prime and Prime 1 claims and related assessment report numbers with corrections [Scale 1:194,954].
- Map 2 - a portion of the current claim-map showing the Prime and Prime 1 claims and related claims [Scale 1:31,680].
- Map 3 - compilation map of Prime and Prime 1 claims showing selected data from previous work, 1990 rock-chip sample locations and assays and mineralized Areas "A to D" [Scale 1:15,840].
- Map 4 - compilation map of mineralized Area "A" (a.k.a. "King George" area) showing Cu and Au geochemical results from surveys by Christopher, 1988 [Scale 1:6,298].
- Map 5 - compilation map of mineralized Area "B" (RE: Brican) showing Newmont, 1980 I.P. survey anomalies and 1980, 1981 and 1989 drill-hole locations and selected intersections [Scale 1:3,936].

In addition, a 1:5,000 scale map of the Prime and Prime 1 claims labelled "Map 6" is also included. Map 6 is a composite map outlining the physiography of the claims as well as important results of previous exploration work on Prime and Prime 1 although due to lack of space, not all work is shown. The text and maps are accompanied by one set of reports itemized chronologically (recent to oldest) as Item #1 to 27 as follows:

- #1 - assess. rep. #18776, Brican Res., Man claims - Prime claim, drill report with logs and assays, holes 321-1 to 321-8, 1989 and map showing DDH locations and I.P. anomalies from 1988 survey.
- #2 - Brican Res. 1988 and 1989 press releases on Man claims and letter to L. Starck from Discovery Consultants.

- #3 - agreement between Giant Piper Explorations Ltd. and Consolidated Silver Butte Mines Ltd. dated Oct. 16, 1987.
- #4 - Brican prospectus with report on Man claims by Miller, 1988.
- #5 - assess. rep. #16985, Christopher, 1988 for Consolidated Silver Butte Mines Ltd., geochemical (Cu, Au and Mo) fill-in survey on 1987 survey, mineralized Area "A" on Map 3 and 5 and 6, "King George" area is covered by this work, reported 23 M.T. at 0.2% Cu, reference, pp 3 of #16985:

"The King George was explored by McIntyre Porcupine Mines Limited in 1962 and by Primer Group Minerals between 1963 and 1970 with portions of the claims explored by Perry, Knox, Kaufman, Inc. in 1971 and by Belcarra Explorations Ltd. and Riocanex in 1972 and 1973. Exploration included geological mapping, soil geochemical, magnetic, electromagnetic and induced polarization, stripping and trenching surveys with at least 31 percussion holes totaling 4,192 feet and 33 diamond drill holes totaling 13,909 feet."

NOTE: little of the 1962 to 1973 work as described above is in the author's possession and apparently was not filed for assessment credit. This is valuable data and should be obtained if possible. Sketchy descriptions of some of this work are contained in photocopies from assorted government publications forwarded to the author by Mr. L. Starck and are outlined under Item #27.

- #6 - assess. rep. #17004, Brican, Prospecting Report on Man claims, 1988, with 28 soil samples, assays and location map.
- #7 - assess. rep. #17077, Christopher, 1987 for Cons. Silver Butte Mines Ltd., original geochemical survey on mineralized Area "A" (refer Item #5).
- #8 - same as Item #7, spare copy.
- #9 - Christopher, 1986 terms for vending of Prime and Prime 1 claims.
- #10 - assess. rep. #13231, Christopher, 1984, Geological and VLF-magnetometer report on Area "B" (RE: Brican-Man claims) of Map 3, for Giant Piper Explorations Inc.
- #11 - same as Item #10, spare copy.
- #12 - Christopher, 1984, Geochemical Report on MS claims (to south of Prime and Man claims) for Burr, Mullin and Stephens.

- #13 - assess. rep. #9649, Visagie, 1981, Drilling Report, Prime Claim (refer to Map 5 for hole location, 81-4 - RE: Area "B"), Newmont for Giant Piper et al.
- #14 - same, spare copy.
- #15 - assess. rep. #8692, Limion, 1980, Newmont for Giant Piper et al., I.P. Survey Report, Prime and HG claims (Area "B", Map 3, RE: Brican-Man claims). This is a valuable report and along with Item #1 and #18, form the bulk of information on Area "B".
- #16 - assess. rep. #8241, Gutrath, 1980, Outcrop Geology Report, Prime 1 claim, for Piper Petroleum Ltd. This report covers both mineralized Areas "A" and "C".
- #17 - assess. rep. #8364, Gutrath, 1980, Outcrop Geology Report, Prime 2 claim (to the SE and contiguous with the Prime claim, this claim has lapsed and is now the Dill 2 claim (refer Map 2)).
- #18 - package of maps and drill-hole sections forwarded by L. Starck of 1980 Newmont work on Area "B" covering both the Prime and Man claims as follows:
Regional Geochemistry Map, Geological Plan, Trench Geology Plan and drill-hole sections 80-1 to 80-6.
This is valuable information on mineralized Area "B".
- #19 - letter dated Sept. 28, 1979 to Mr. L. F. Farris from Charles K. Ikona concerning a property examination of the Prime claims.
- #20 - assess. rep. #7521, Gutrath, 1979, Outcrop Geology Report, Prime 2 claim. This claim has lapsed and is now the Dill 2 claim to the SE of the Prime claim.
- #21 - assess. rep. #6877, Gutrath, 1978, Outcrop Geology, Trenched Area, Prime 2 claim, same comments as for #20.
- #22 - assess. rep. #6900, Gutrath, 1978, Geological and Geophysical report, Prime 1, Prime and Prime 2 claims for Piper Petroleum Ltd.
This report covers mineralized Area "A" a.k.a. "King George" with a magnetic survey and geology and also shows the locations of the old trenching in this area and is a valuable report.
- #23 - assess. rep. #6412, Gutrath, 1977, for Piper Petroleum Ltd., Outcrop Geology of Trenched Areas 1 and 2, Prime Claim Group.

- Covers recent trenching on the west side of mineralized Area "A". Rough but of some value especially for trench locations.
- #24 - Summary Of Piper Petroleum's Mineral Exploration Project, January, 1977. Unsigned 5-page summary and estimated costs for proposed work on mineralized Area "A" on Prime and Prime 1 claims and Prime 2 to the SW.
- Of note, a page-size map in this report shows I.P. and geochemical anomalies for Area "A" and Piper apparently had this information concerning previous work on this area from 1962 to 1973 by McIntyre Porcupine Mines et al.
- #25 - assess. rep. #4169, Gutrath and Nielsen, 1972 for Belcarra Explorations Ltd.
- This report consists of a magnetometer and I.P. survey on the former "Nellie" claims to the SW of and including the SW 1/4 of the Prime claim.
- This is very important information and the I.P. results are shown on Map 6. Magnetometer and apparent resistivity results are also considered to be of value but are not shown on Map 6 due to lack of space.
- #26 - assess. rep. #3955, Gutrath, 1972 for Belcarra Explorations Ltd.
- This report consists of a Cu-geochemical survey over the Nellie claims as described above and covers the SW 1/4 of the Prime claim.
- This is also valuable information and the results are outlined on Map 6.
- #27 - This item consists of a package of 13 separate references relating to the Prime and Prime 1 claims forwarded to the author by Mr. L. Starck obtained from B.C. government publications in his possession. Briefly, these references are as follows:
- 1 - G.S.C. Memoir 243, 1947, pages 92 and 93 (RE: King George Group). This is the earliest reference on hand describing the King George occurrence and is generally sketchy and of little use. Of note however, is the reference to the location of the original occurrence as follows:

"It lies between elevations of 4,220 and 4,340 feet on the slope of the hill about 1 1/2 miles southeast of the south end of Missezula Lake."

This would indicate that the original King George occurrence is located on what is now the Dill 2 claim (formerly Prime 2) southeast of the Prime and Prime 1 claims as shown on the location sketch of Item #24 "Summary of Piper Petroleum Mineral Exploration Project January, 1977".

- 2 - Mines and Petroleum Resources Report 1963, pages 57 and 58 (RE: Primer Group).

Again, this is quite sketchy and refers to geophysical (magnetometer, EM) and geochemical surveys and stripping by McIntyre Porcupine Mines Limited in 1962 on two areas south of Dillard Creek. The western area is on the former Primer 8, 55 and 56 mineral claims which appears to correlate to Trend "B" of Area "A" of the current report (refer Map 6) in the northeast 1/4 of the current Prime claim. The eastern area is reported to be about 4,500 feet to the southeast on the former Primer 21 claim and would correlate with the original King George occurrence as described above on what is now the Dill 2 claim.

- 3 - Mines and Petroleum Resources Report 1965, page 157 (RE: Primer Group). Short description of additional stripping done on the former Primer 21 claim (current Dill 2 claim - original King George occurrence) to the SE of the current Prime and Prime 1 claims.

Of note, reference is made to a new exposure of altered monzonite porphyry containing finely disseminated chalcopyrite.

- 4 - Mines and Petroleum Resources Report, 1966, page 176 (RE: Primer Group).

This reference mentions additional stripping done on the former Primer 21 claim (current Dill 2 - original King George occurrence) to the SE of the current Prime and Prime 1 claims as well as 3, 400-foot diamond drill holes on the former Primer 47 and 55 claims. The location of the former Primer

47 claim is uncertain but the Primer 55, as previously described, appears to correlate to Trend "B", Area "A" in the northeast 1/4 of the current Prime claim. The description is as follows:

"The drill cores all were in Nicola basaltic and andesitic flows with minor tuff and breccia. Copper mineralization was fairly consistently in or near the several intersections of hornblende diorite. Grab samples of split core, approximately equal quantities taken at 5-foot intervals, assayed as follows: Diamond-drill hole No. 1: 0-76 feet, 0.15 per cent copper; 195-295 feet, 0.29 per cent copper. Diamond-drill hole No. 4: 0-50 feet, 0.15 per cent copper. The samples assayed nil and trace in gold and silver."

- 5 - Mines and Petroleum Resources Report, 1968, page 204 (RE: OD, OB, OC - note new claim names, apparently restaking of Primer claims and still owned by Primer Group Minerals Ltd.)

The description is short and is as follows:

"Work Done: Ten and one-half miles of induced polarization survey, 500 lineal feet of bulldozed trenches, 12 holes totalling 3,463 feet diamond drilled, and nine holes totalling 2,010 feet percussion drilled. Two miles of access road was built."

No reference is given for an assessment report so this work apparently was not submitted for assessment credit. D.W. Pringle is listed as the consultant for this work.

- 6 - Mines and Petroleum Resources Report, 1969, page 279 (RE: OD, OB, OC).

Again, a very short description as follows:

"Work Done: Geological mapping of all claims; geochemical survey involving 43 line-miles of grid and 1,200 soil samples; four trenches totalling 1,200 feet excavated; 10 holes totalling 5,800 feet diamond drilled; 22 holes totalling 2,182 feet percussion drilled."

Again, no assessment report number is given and this work does not appear to have been filed for assessment credit.

- 7 - Mines and Petroleum Resources Report, 1971, page 277 (RE: OD, OB, OC, - Primer Group Minerals still listed as owner, operator listed as Perry, Knox, Kaufman,,Inc. c/o Bull, Housser & Tupper).

No work is listed but may be on page 278 which is not in the author's possession.

- 8 - Mines and Petroleum Resources Report, 1972, page 128 (RE: Primer OD, OB, OC).

Very short, as follows:

"Owner: Primer Group Minerals Ltd., Operator: Rio Tinto Canadian Exploration Limited, Metal: Copper, Work Done: Magnetometer and induced polarization surveys, References: Minister of Mines, B.C., Ann Rept., 1963, p. 57; 1965, p. 157; 1966, p. 176; 1968, p. 204; B.C. Dept. of Mines & Pet. Res., G.E.M., 1969, p. 279; 1971, p. 277; Geol. Surv., Canada, Mem. 243, p. 92; Assessment reports 493, 2354, 2355, 2356, 4169."

The assessment report numbers given are of note since they are shown to be located about 1,000 meters to the east of the current Prime 1 claim on the assessment report index map (Map 1) and it appears that the work done by Rio Tinto was on a large parcel of claims which included the Prime and Prime 1 claims.

These assessment reports should be ordered.

- 9 - Mines and Petroleum Resources Report, 1973, page 160 (RE: OD, OB, OC, Bill).

Again, Primer Group Minerals is listed as owner and the operator is listed as Rio Tinto Exploration Limited.

The description is short and is as follows:

"Work Done: Surface diamond drilling, five holes totalling 2,103 feet on OB 5, 6, 12, and 14."

The location of these holes is uncertain and no assessment report number is given for this work.

- 10 - Mines and Petroleum Resources Report, 1977, page 137 (RE: Prime, Prime 1, Prime 2).

The owner of the claims is now listed as Piper Petroleums Ltd. The work done is listed as surface geological mapping at 1:1,200 and 243 meters of trenching on Prime and Prime 2. The references are listed as Mineral Inventory 92H/NE-55, 56, 110; B.C. Ministry of Mines & Pet. Res., GEM, 1973, p. 160; Assessment Report 6412.

Mineral Inventory 92H/NE-55, 56, 110 are not on hand and these should be obtained.

- 11 - Mines and Petroleum Resources Report, 1978, page 154 (RE: Prime, Prime 1, Prime 2).

Geological mapping and a magnetometer survey were performed for Piper Petroleum. This data is on hand (assess. rep. 6877 and 6900).

- 12 - Mines and Petroleum Resources Report, 1979, page 158 (RE: Prime, Prime 1, Prime 2).

The owner is listed as Piper Petroleum and the work is described as follows:

"Work Done: Geological survey covering outcrops; grid survey, 1:2,500; and ground magnetometer survey, 13.7 kilometers, covering all claims. References: Mineral Inventory 92H/NE-55, 56 110; B.C. Ministry of Energy, Mines and Pet. Resources., Exploration in B.C., 1978, P. 154; Assessment Reports 6412, 6877, 6900, 7340, 7521."

Of note is assessment report 7340. This report is shown on the assessment report index map (Map 1) as 7430 which is obviously a typographical error since 7430 is for the Nechako area. Assessment report 7340 should therefore be ordered since it is not on hand and contains important information. Similarly, assessment report 13932 is shown on the index map for the Prime claims but this report is for the Greenwood area so it would appear that a typo error has been made here as well. The author has not come across any assessment report number similar to 13932 and so can not determine what the proper number should be.

This could be important information and an effort to determine the proper assessment report number should be made.

7340

13 - Mines and Petroleum Resources Report, 1980, page 209 and 210 (RE: Prime, Prime 1, Prime 2, HG).

This description outlines extensive work performed in 1980 by Newmont Exploration of Canada Ltd. on a large parcel of land including the Prime and Prime 1 claims. Linecutting, geological mapping, magnetometer and induced polarization surveys, roadbuilding, geochemical sampling and diamond drilling was performed, mostly on the HG claims but also over the south-central part of the Prime claim.

This is very important data and the data on hand has been incorporated into Map 6 of this report.

The report and associated maps do not appear to have been submitted for assessment credit. The author used photocopies forwarded to him but these do not appear complete as the report text and details of the magnetometer survey and 1981 diamond-drilling are lacking.

A complete set of data should be obtained and added to the appendix of this report.

SUMMARY

The most recent assessment work related to the Prime and Prime 1 claims was done by Brican Resources in 1988 and 1989 on the Man claims, contiguous with and to the south of the Prime claim, straddling the central, south boundary of the Prime claim. This work consisted of I.P. and geochemical sampling and the diamond-drilling of 8 holes. Of note, drill-hole 321-7 was drilled on the Prime claim (refer Map 6) apparently due to locational miscalculation by Brican. This area (Area "B", Maps 3, 5 & 6) was extensively explored by Newmont Exploration of Canada from 1979 to 1981 with I.P., magnetometer, geochemistry, trenching and diamond-drilling. An area of mineralization at least 750 feet in length by 30 to 100 feet in width grading 0.4% Cu and 0.009 oz. Au/T was defined. With respect to this area, Item #18 of the appendix is incomplete and a complete set of the Newmont 1979 to 1981 data should be added. Also, "Mineral Inventory 92H/NE - 55, 56, 110; B.C." should be obtained and added to the appendix.

Assessment Report #13932 (refer Map 1) is for the Greenwood area of B.C. and is an apparent typographic error. The Princeton Gold Commissioner's Office assessment report index maps should be examined and an effort made to determine the proper number of #13932 (i.e. 13923, 13239, etc.) and if determined, this report should be obtained and added to the appendix.

The other area of the Prime and Prime 1 claims (Area "A", Maps 3, 5 & 6) upon which assessment work has been done in recent years is located in the northeast 1/4 of the Prime - southeast 1/4 Prime 1 claims. This area appears to be a portion of the old King George workings for which a mineral inventory of 23 million tons of 0.2% copper was reported. The original King George occurrence is located on the Dill 2 claim (former Prime 2 claim) to the southeast of and contiguous with the Prime claim while Area "A" appears to have been discovered and explored in subsequent years by numerous operators such as McIntyre Porcupine Mines Limited in 1962, Primer Group Minerals from 1963 to 1970, Perry, Knox, Kaufman Inc. in 1971, Riocanex and Bellcarra Explorations in 1972 and 1973 and Piper Petroleum from 1977 to 1979. Much of the data relating to this work is not in the author's possession and this data should be obtained and added to the

appendix of this report. Without this data, it is not known if Area "A" is included in the ore tonnage calculations quoted for the King George mineral inventory (23 M.T. @ 0.2% Cu). Riocanex apparently did exploration work on a large parcel of land of which this area was a part but the assessment report numbers on the government index map are shown well to the east of the Prime and Prime 1 claims and were not ordered. Assessment reports # 493, 2354, 2355, 2356, 4169 and 7340 should be ordered from the B.C. government and these reports added to the appendix to complete available information relating to the Prime claims.

CONCLUSIONS AND RECOMMENDATIONS

Since the original King George claims were staked in 1937, much exploration work has been carried out in the immediate area with a mineral inventory of 23 M.T. of 0.2% Cu assigned to the King George occurrence on the current Dill 2 claim which may or may not include Area "A" of the Prime - Prime 1 claims and an area at least 750 feet long by 30 to 100 feet wide of 0.4% Cu and 0.009 oz. Au/T defined as straddling the Prime claim south boundary (Area "B").

These two areas of copper-gold mineralization are about 1 mile apart in an east-west direction. The King George occurrence on the current Dill 2 claim to the east is a body of relatively low-grade mineralization (0.2% Cu) with a northwest strike while the mineralized area (Area "B", Maps 3, 5 and 6) to the west straddling the south Prime claim boundary is of a higher grade (0.4% Cu & 0.009 oz. Au/T) and has a northerly strike. These two areas therefore are not physically related but represent two mineralized trends of which the trend represented by Area "B" appears more attractive due to the higher copper content as well as enhanced values in gold. An examination of the assessment compilation Map 6, reveals that the mineralization of Area "B" is effectively defined by previous I.P. surveys and that the mineralized trend terminates about 1,000 feet south of the south boundary of the Prime claim within the Man claims. The I.P. and geochemical sampling indicate however, that the mineralized trend is open to the north onto the Prime claim and continues north beyond the surveyed area.

Area "A" to the north is shown to consist of two, parallel, north-striking mineralized trends designated Trend "A" and Trend "B" on Map 6. Trend "B" of Area "A" was observed to have been extensively bulldozer-trenched and diamond-drilled and as previously stated, may or may not have been included in the published mineral inventory of the King George occurrence. Trend "B" appears to terminate about 2,000 feet south of the north Prime - south Prime 1 boundary on the basis of geochemical sampling but appears to continue north onto the Prime 1 claim beyond the surveyed area.

Trend "A" of Area "A" has a lesser amount of trenching and apparently, has not been diamond-drilled. Again, on the basis of geochemical sampling, Trend "A" appears to be open both in a north and south direction beyond the limits of the surveyed area.

Of significance, is the fact that the south limit of Trend "A", Area "A" as defined by the geochemical survey and the north limit of Area "B" mineralization as defined by the previous I.P. surveys, are directly on strike with each other and are separated by less than 1,000 feet of unsurveyed ground. It appears that Trend "A" of Area "A" and the mineralization of Area "B" form one, continuous mineralized trend striking just east of north from just south of the center of the Prime south boundary to, and beyond, the north boundary of the Prime - south boundary of the Prime 1 claim for a total distance of at least 7,500 feet and an average width of about 800 feet. Except for limited bulldozer trenching in the north and several diamond-drill holes to the south, this zone is relatively untested on the Prime and Prime 1 claims and would appear to be the most attractive exploration bet as now known on these claims. It should also be pointed out that the northwest 1/4 and southeast 1/4 of the Prime claim and virtually the whole of the Prime 1 claim have not been explored.

I.P. geophysical surveying is considered to be the strongest exploration tool and is well suited to the disseminated nature of the mineralization present. Geochemical surveying also appears to work well but may be of limited use in observed areas of thick overburden. Areas of thin overburden are amenable to further bulldozer trenching.

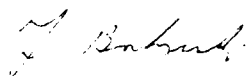
It is recommended that a baseline striking just east of north be established along the indicated strike of the previously described 7,500-foot long mineralized zone and that cross-lines be established from this baseline. I.P. and geochemical surveying should be conducted to overlap and confirm previous I.P. and geochemical surveys. The baseline, cross-lines and surveys should extend north past the northern limit of the mineralized zone as now known with some cross-lines and surveys extended to the east and west to test unexplored areas. This would also help to define the northern limit of Trend "B", Area "A" and would help define observed mineralization

at Area "C" along Dillard Creek. Geochemical sampling could also be conducted along the northwest flowing, unnamed creek near the center of the Prime claim, between the geochemically-indicated portion of the mineralized trend to the north and the I.P.-indicated portion of the trend to the south as this is untested ground and could possibly verify continuity of the indicated mineralized zone. Relatively high-grade copper sulphide and carbonate mineralization observed in old trenching on Trend "B" of Area "A" would seem to be a good area to conduct further bulldozer trenching as well as areas of better mineralization on Trend "A" of Area "A" since overburden is thin and the ground relatively flat.

All missing data related to the Prime and Prime 1 claims as previously described should be obtained and incorporated into the appendix of this report as this could reduce the amount of work needed to define the +7,500-foot long zone.

It is also recommended that a magnetometer map of the Prime and Prime 1 claims be drafted upon receipt of the missing data mentioned above as areas of higher-grade copper mineralization have been observed to be related to high magnetite content which could aid in definition of mineralized areas.

Respectfully Submitted:



J. Bankowski, B.Sc. (Geology)

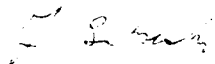
CERTIFICATE

I, Joseph H. Bankowski, do hereby certify:

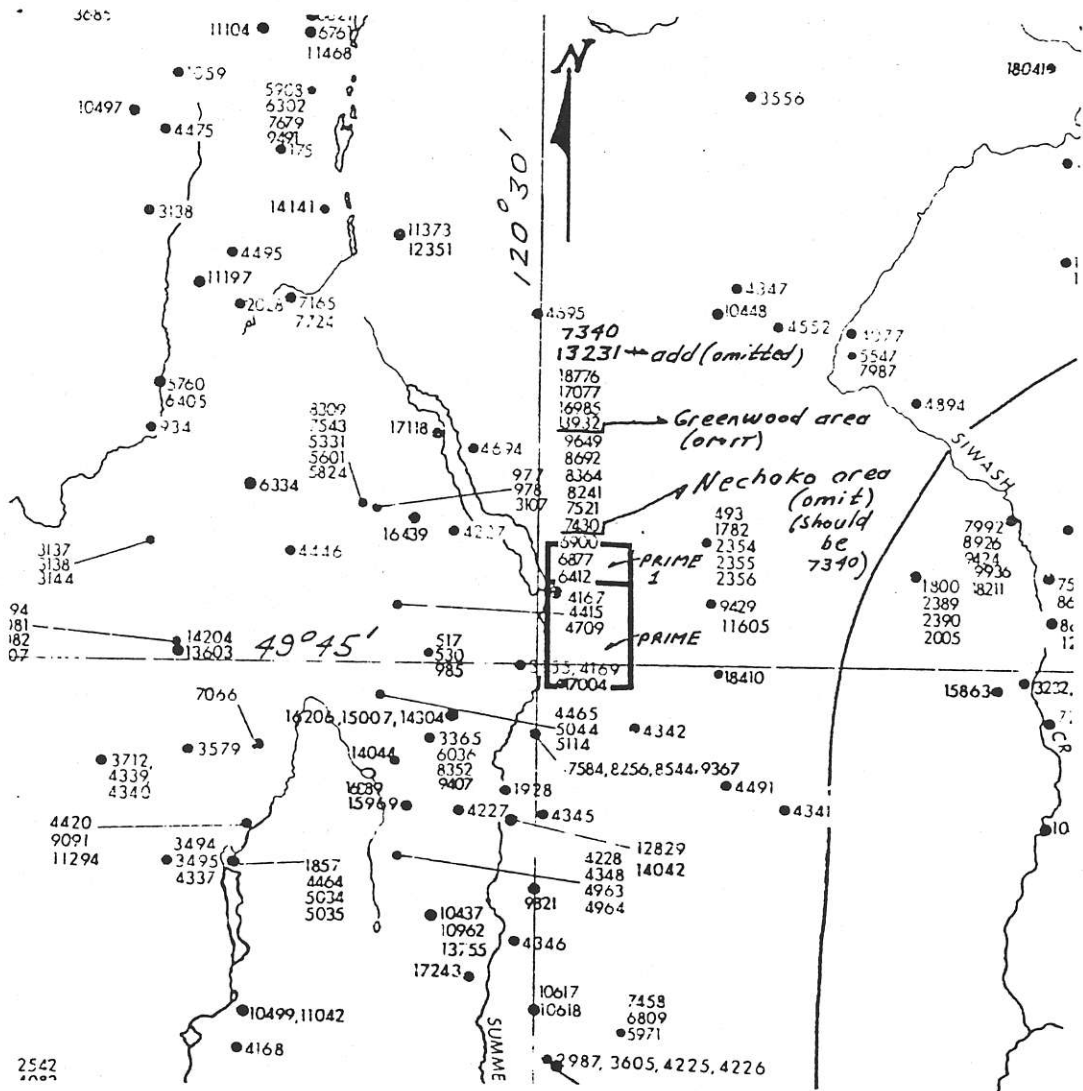
- 1 - that I am an exploration geologist residing at 88 Edgedale Dr., N.W.,
Calgary, Alberta;
- 2 - that I am a graduate of the University of Western Ontario, 1980 with a
B.Sc. (Geology) and a graduate of Cambrian College, Sudbury, Ontario,
1972 (Geol. Tech.);
- 3 - that I have been engaged in the practice of my profession since grad-
uating;
- 4 - that I have no interest, direct or indirect, nor do I expect to receive
any such interest in the properties or securities of Austar Resources
Ltd.

Joseph H. Bankowski, B.Sc. (Geology)

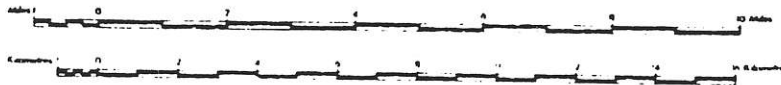
February 3, 1991.



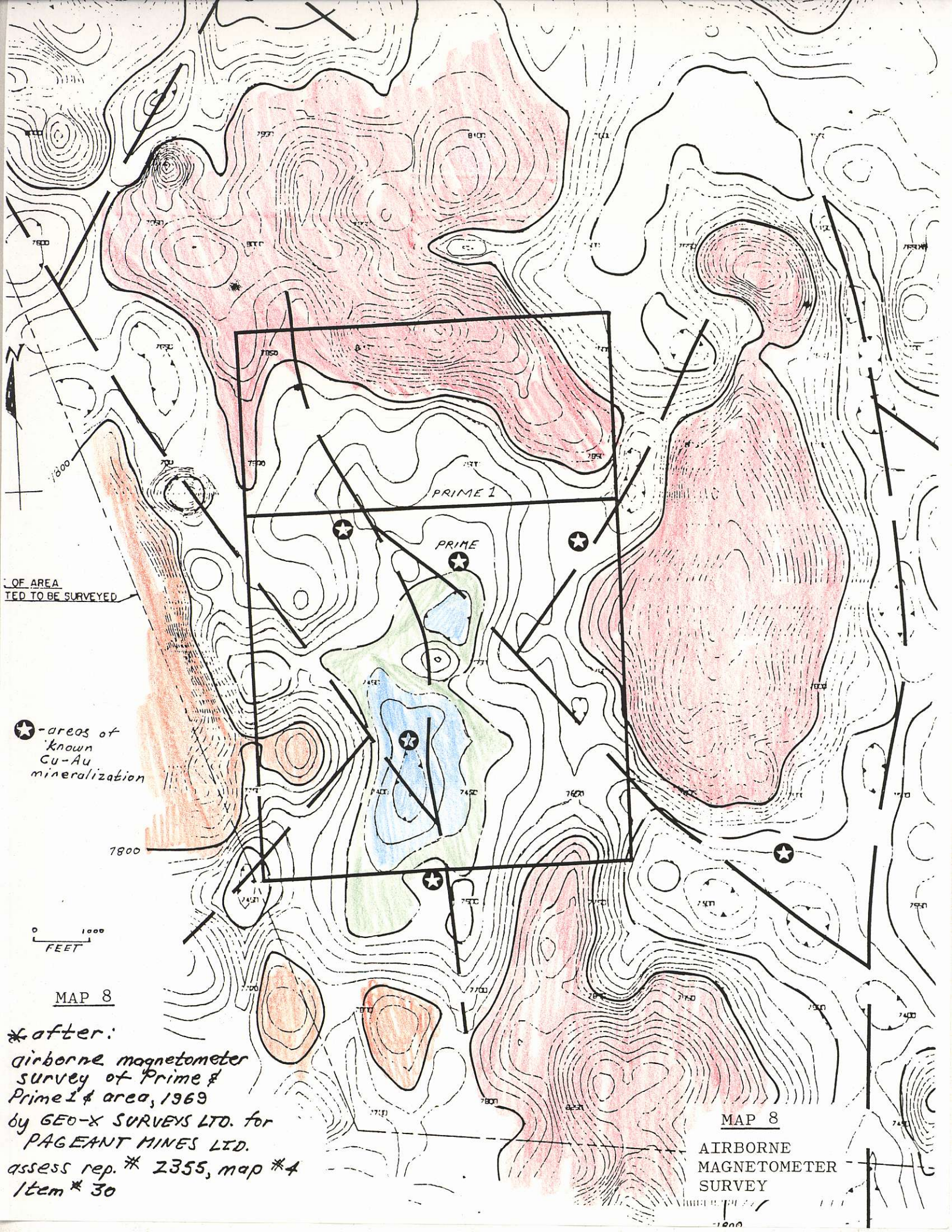
PRIME & PRIME 1 CLAIMS, ASSESS. INDEX MAP



TULAMEEN 92 H/NE



(approx 1''-3 miles)
1:194,954



BOUNDARY OF AREA TO BE SURVEYED

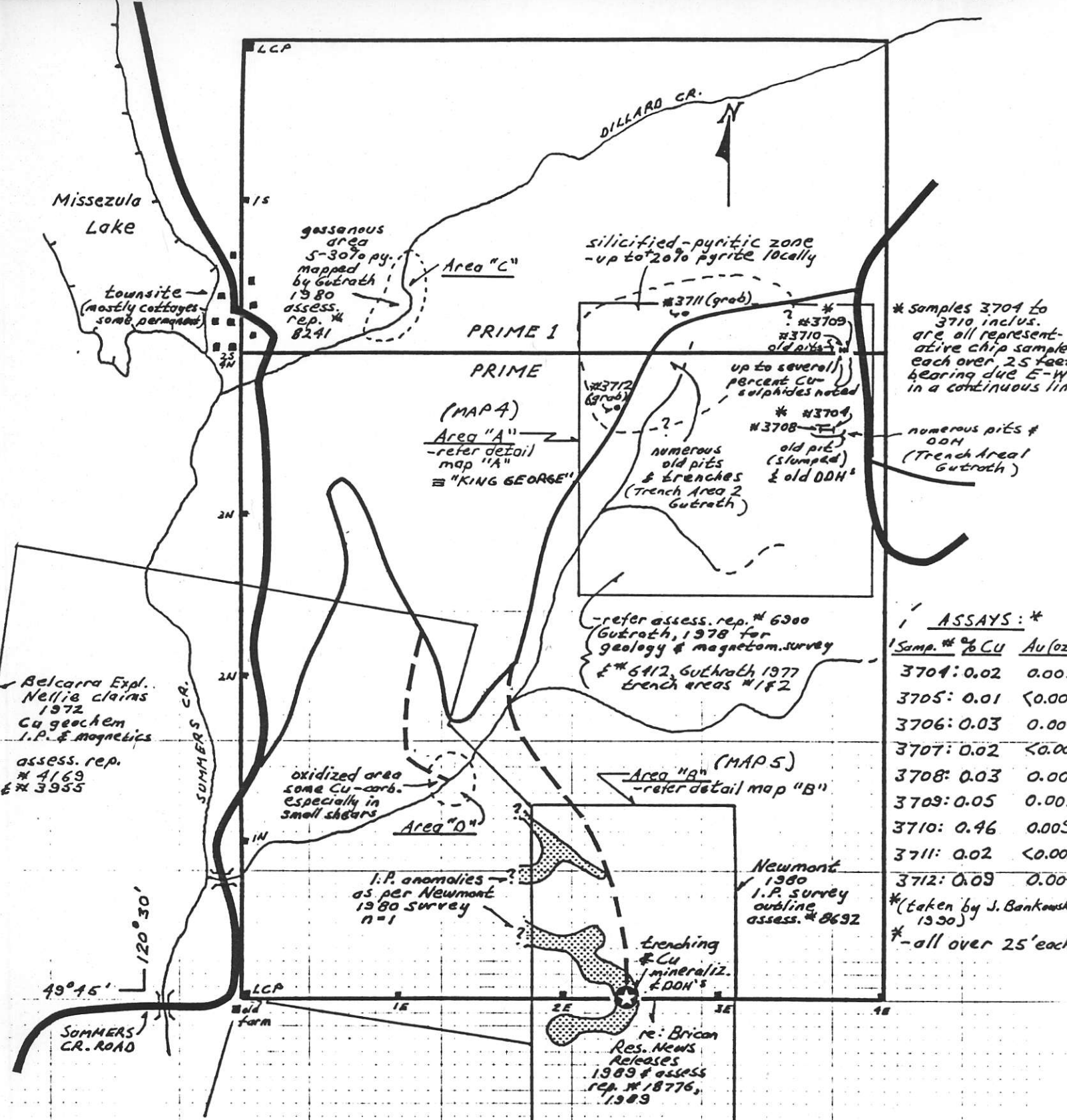
★ - areas of known Cu-Au mineralization

0 1000 FEET

MAP 8

★ after:
 airborne magnetometer
 survey of Prime &
 Prime 1 & area, 1969
 by GEO-X SURVEYS LTD. for
 PAGEANT MINES LTD.
 assess rep. # 2355, map # 4
 Item # 30

MAP 8
 AIRBORNE
 MAGNETOMETER
 SURVEY



* Samples 3704 to 3710 inclus. are all representative chip samples each over 25 feet bearing due E-W in a continuous lin.

numerous pits & DDH (Trench Area Gutroth)

ASSAYS: *

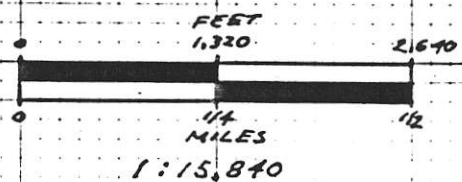
Sample #	% Cu	Au (oz.)
3704	0.02	0.00%
3705	0.01	<0.00%
3706	0.03	0.00%
3707	0.02	<0.00%
3708	0.03	0.00%
3709	0.05	0.00%
3710	0.46	0.00%
3711	0.02	<0.00%
3712	0.09	0.00%

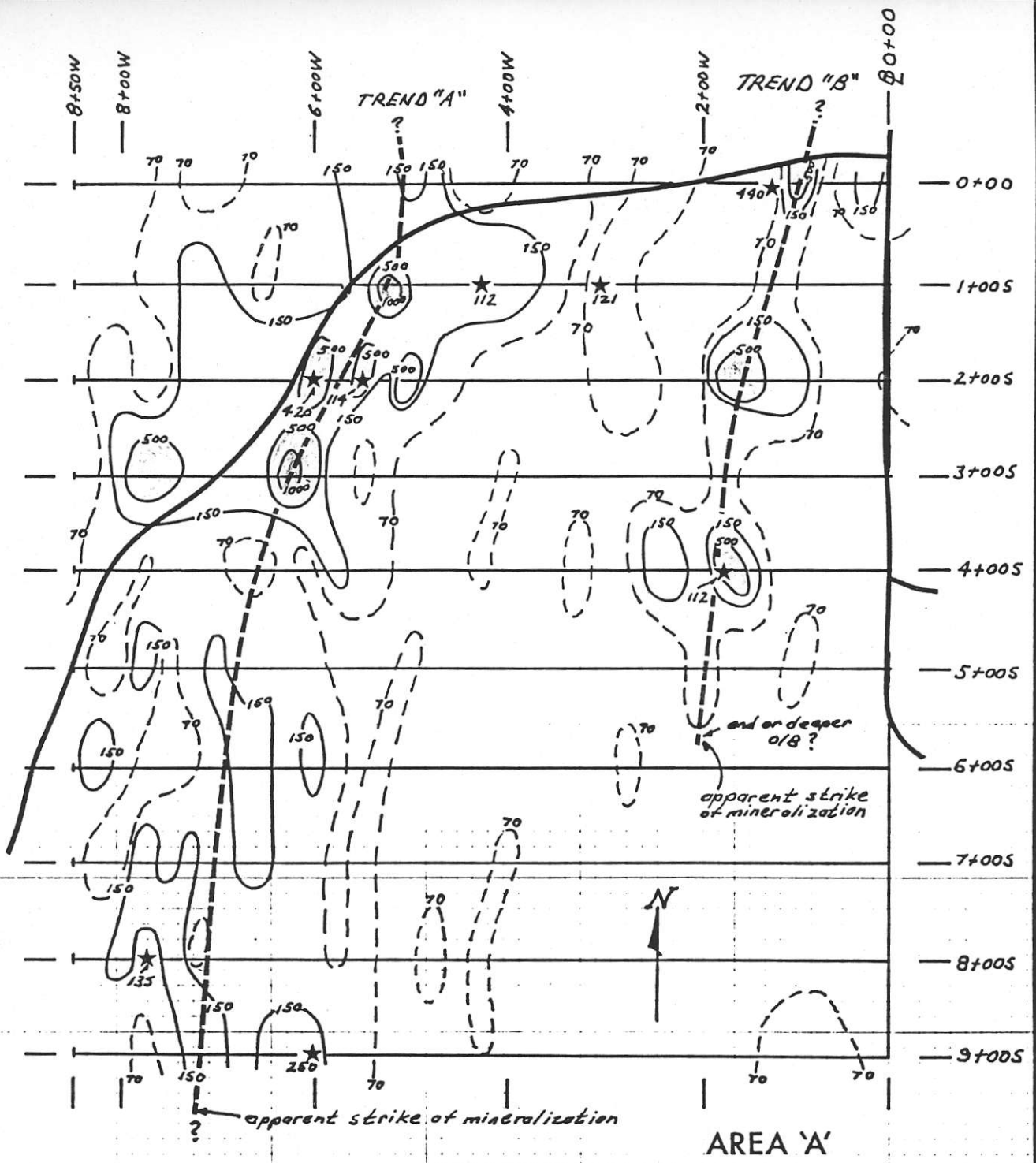
* (taken by J. Bankowsk. 1990)
* - all over 25' each

**AUSTAR RESOURCES LTD.
PRIME & PRIME 1 CLAIMS
PRINCETON AREA, B.C.**

COMPILATION MAP

SHOWING SELECTED ASSESSMENT DATA, 1990 ROCK-CHIP SAMPLING AND MINERALIZED AREAS (A-C)





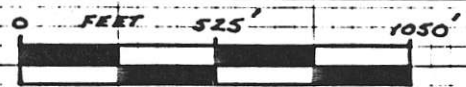
NOTES

- ① - Traced from Christopher Cu-contour map, Mar. 88, Geoch. Survey, 25 m spacing
- ② - original scale 1:50,000, reduced
- ③ - Cu contours; 70-149 } in ppm
 150-499 }
 500-999 }
 1000 >
- ④ ★ - Au assay in ppb
 110
- ⑤ "King George" (23 M.T. @ 0.2% Cu) work re: pitting & OQH appears related to "Trend B" in general but abundant pitting also on Trend "A"

AUSTAR RESOURCES LTD.

**PRIME-MAN CLAIMS
 PRINCETON AREA, B.C.**

**COMPOSITE LOCATION MAP
 SHOWING GOLD & COPPER
 ANOMALIES.**



1:6,250

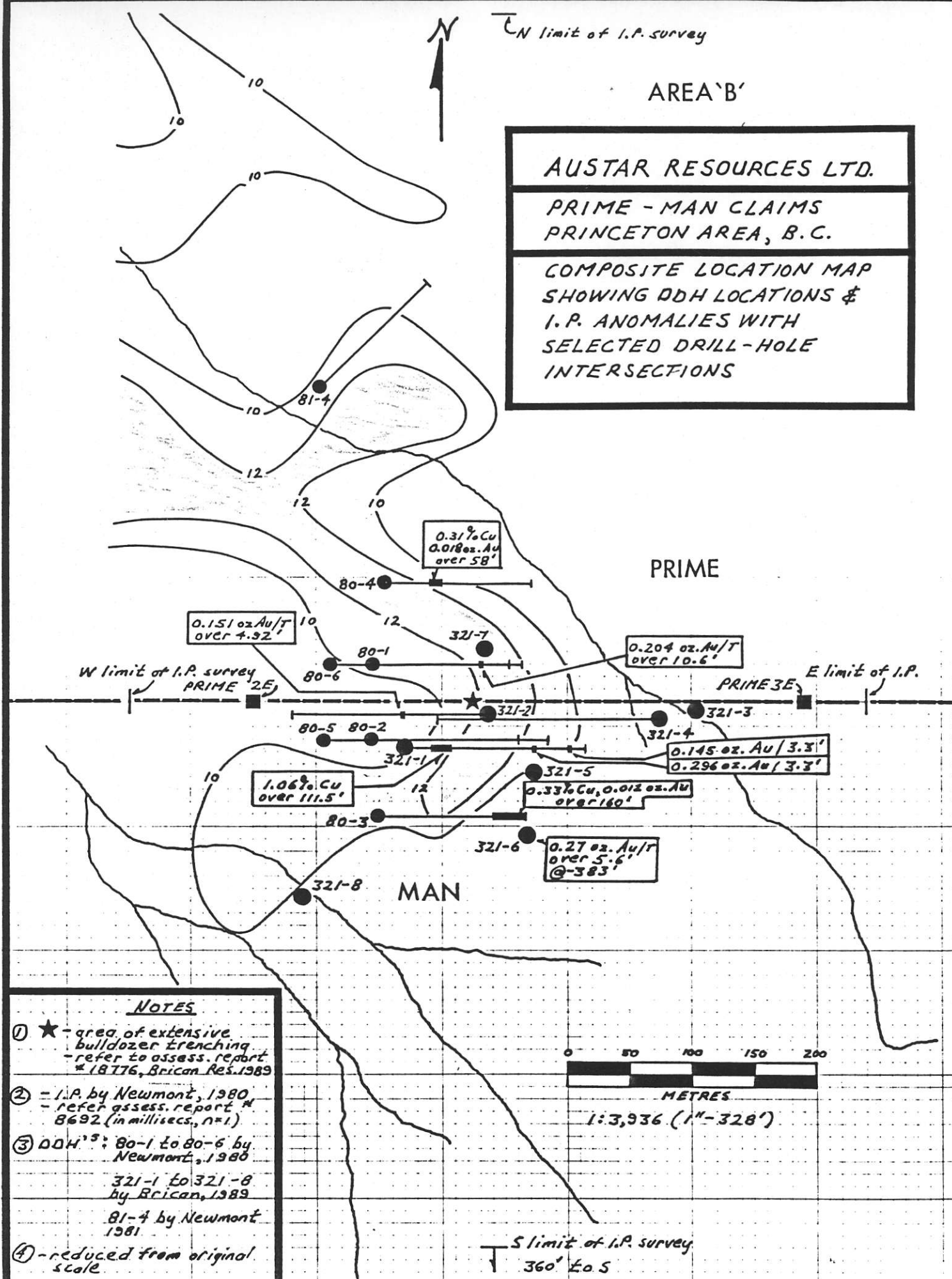
N limit of I.P. survey

AREA 'B'

AUSTAR RESOURCES LTD.

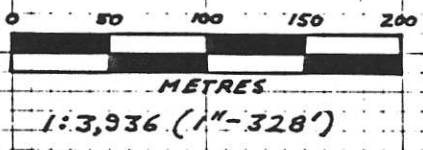
PRIME - MAN CLAIMS
PRINCETON AREA, B.C.

COMPOSITE LOCATION MAP
SHOWING DDH LOCATIONS &
I.P. ANOMALIES WITH
SELECTED DRILL-HOLE
INTERSECTIONS

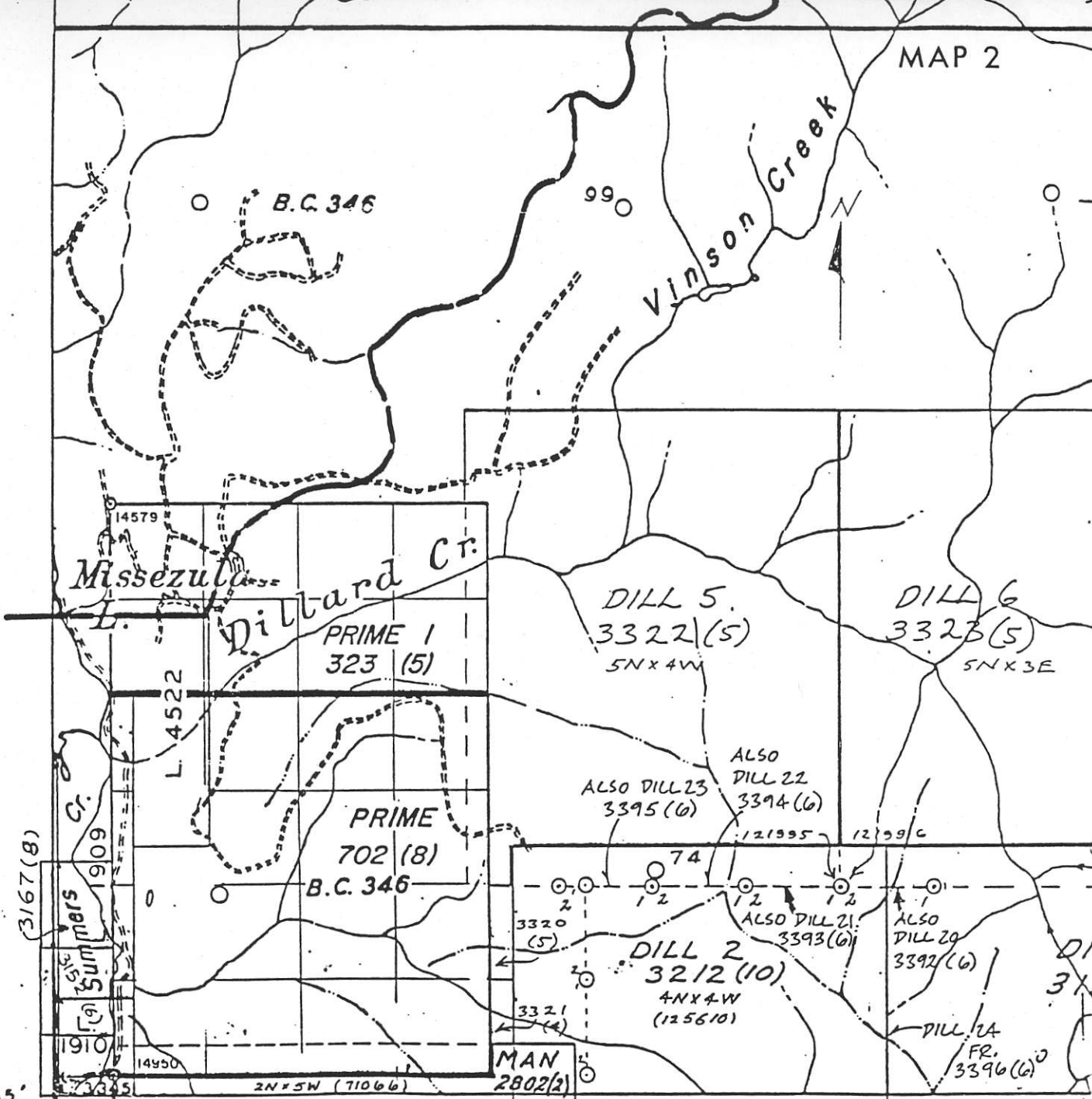


NOTES

- ① ★ - area of extensive bulldozer trenching - refer to assess. report # 18776, Brican Res. 1989
- ② = I.P. by Newmont, 1980 - refer assess. report # 8692 (in milliseccs, n=1)
- ③ DDH'S: 80-1 to 80-6 by Newmont, 1980
 321-1 to 321-8 by Brican, 1989
 81-4 by Newmont 1981
- ④ - reduced from original scale.



S limit of I.P. survey
360' EoS



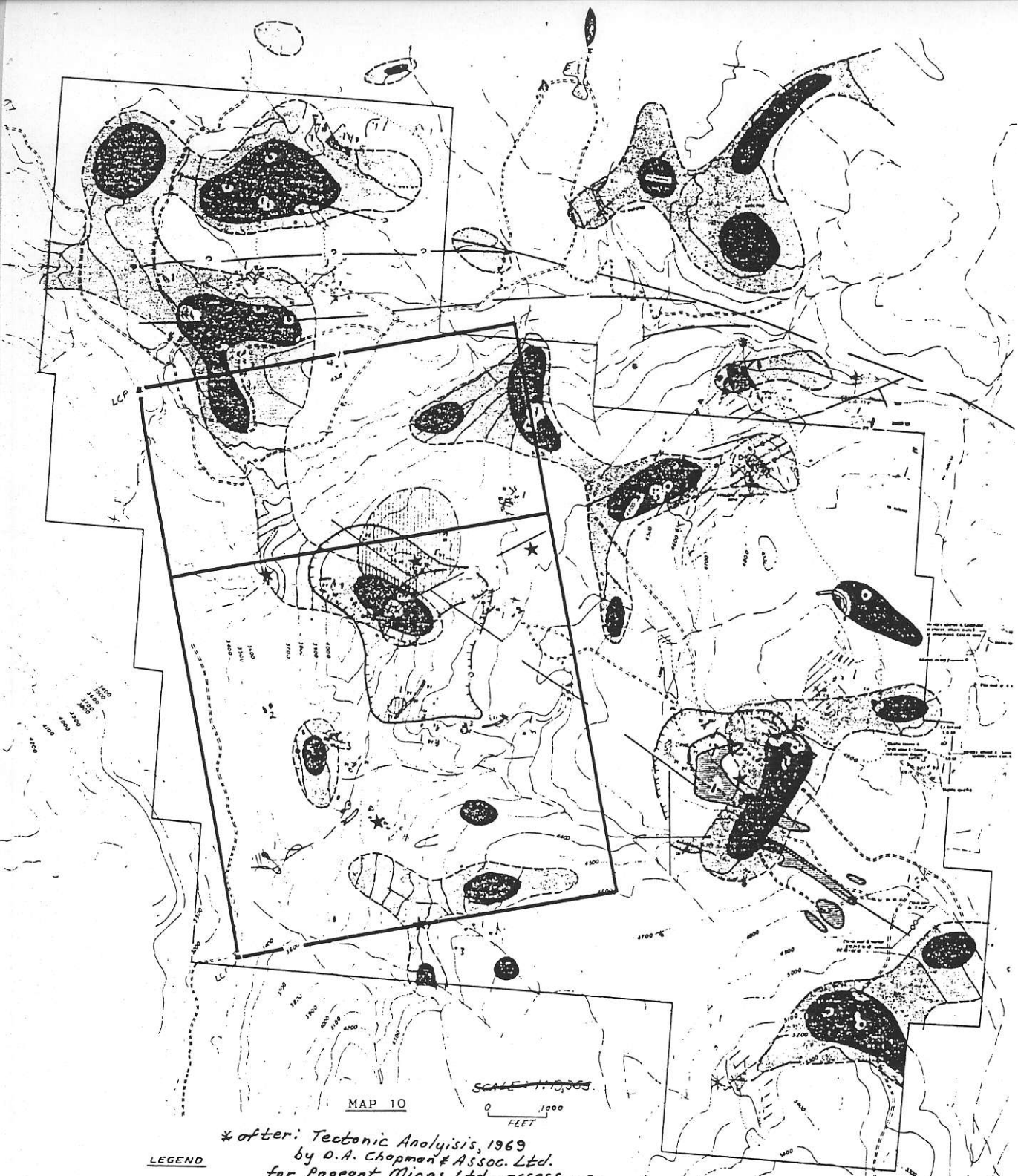
49°45'
120°30'

SCALE: 1:31,680
OR 1" = 1/2 mile
0 1/2 1
MILES

* current @
June / 90

NICOLA & SIMILKAMEEN MINING DIVISIONS

Mining Division Boundary	— — — — —	Crown Gr
Indian Reservation	▨▨▨▨▨▨▨▨▨▨	Reverted C
Mineral and Placer Reserve	▬▬▬▬▬▬▬▬▬▬	Forfeited A
Ecological Reserve	▧▧▧▧▧▧▧▧▧▧	Verified Le
Park Boundary	▬▬▬▬▬▬▬▬▬▬	Power Tran
Recreation Area Boundary	▬▬▬▬▬▬▬▬▬▬	Pipeline
Surveyed Line	▬▬▬▬▬▬▬▬▬▬	Stream... p
Railway	— + — + — + — + —	
Railway (abandoned)	— + — + — + — + —	
Highway	▬▬▬▬▬▬▬▬▬▬	Boundary.
Public Road	▬▬▬▬▬▬▬▬▬▬	Swamp
Trail	— — — — —	Flight Nu



MAP 10

SCALE 1:10,000

0 1000 FEET

* after: Tectonic Analysis, 1969
 by D.A. Chapman & Assoc. Ltd.
 for Pageant Mines Ltd., assess. rep.
 # 2356, Map #3,
 Item # 32

LEGEND

SYMBOLS

- Sphene, monazite
- Garnet
- Andesite
- Tectonic Anomaly
- Soil Anomaly
- Induced Polarization Anomaly
- Pyrite Hole (center Cu & Fe mineralization)
- Air photo Lineament
- Geological contact
- Outcrop area
- Cutroad
- Jointing
- Faults
- Percussion drill hole

ABBREVIATIONS

- A Andesite
- Ah hornblende andesite
- Ap Prograde andesite
- C Copper
- Dy Pyrite
- d Garnet
- S Sphene
- m Monazite

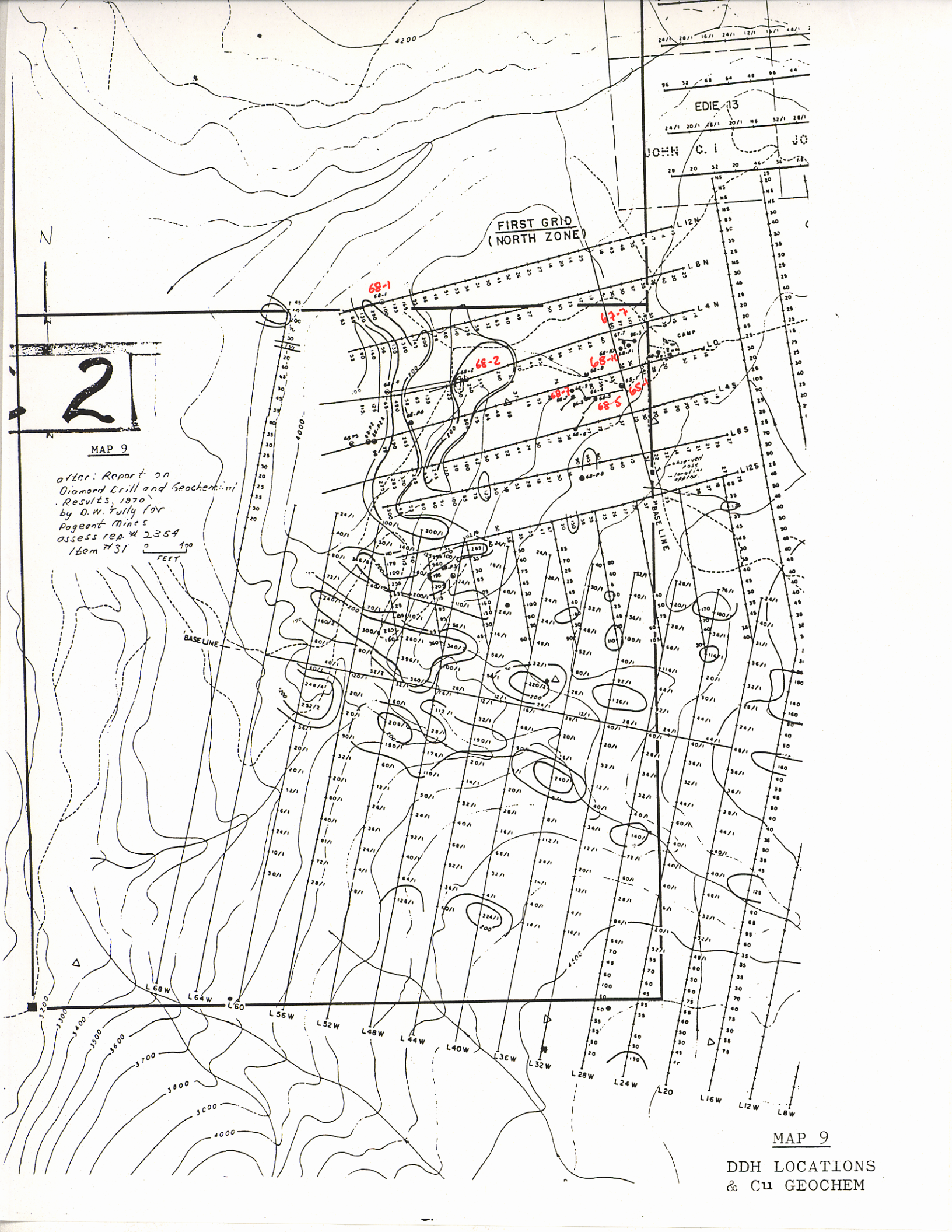
★ - areas of known mineralization

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 2356 MAP #3

This map accompanies the
 GEOCHEMICAL SURVEY REPORT
 by
 D. A. CHAPMAN & ASSOCIATES LTD.
 on the
 PAGEANT MINES LIMITED

Pink, Purple, Jack Supplement,
 Jack X Supplement, Yellow
 Claim Groups

Latitude 49°43'30"N Longitude 120°39'W



EDIE 13
 JOHN C. I JO

FIRST GRID (NORTH ZONE)

2

MAP 9

after: Report on
 Diamond Drill and Geochemical
 Results, 1970
 by O.W. Fully for
 Pageant Mines
 assess rep. # 2354
 16cm 7/31

100
 FEET

BASELINE

BASELINE

CAMP

MAP 9

DDH LOCATIONS
 & Cu GEOCHEM

2

MAP 9

after Report on
Downed Drill and Snatching
Results, 1970
by O. W. Tully for
Regent Mines
assess rep. W 2354
12cm 1/31

0 100
feet

BASELINE

FIRST GRID
(NORTH ZONE)

SOUTH ZONE

GRID 1

EDIE 13 EDIE 14 JOHN C. 1 JOHN C. 2 JOHN C. 3 JOHN C. 4 EDIE 31

(APPROXIMATE LOCATION OF BOUNDARY) PAGEANT MINES LTD. PRIMER GROUP MINERALS LTD (N.P.L.) (UNSURVEYED)

EDIE 29

EDIE 27

EDIE 25

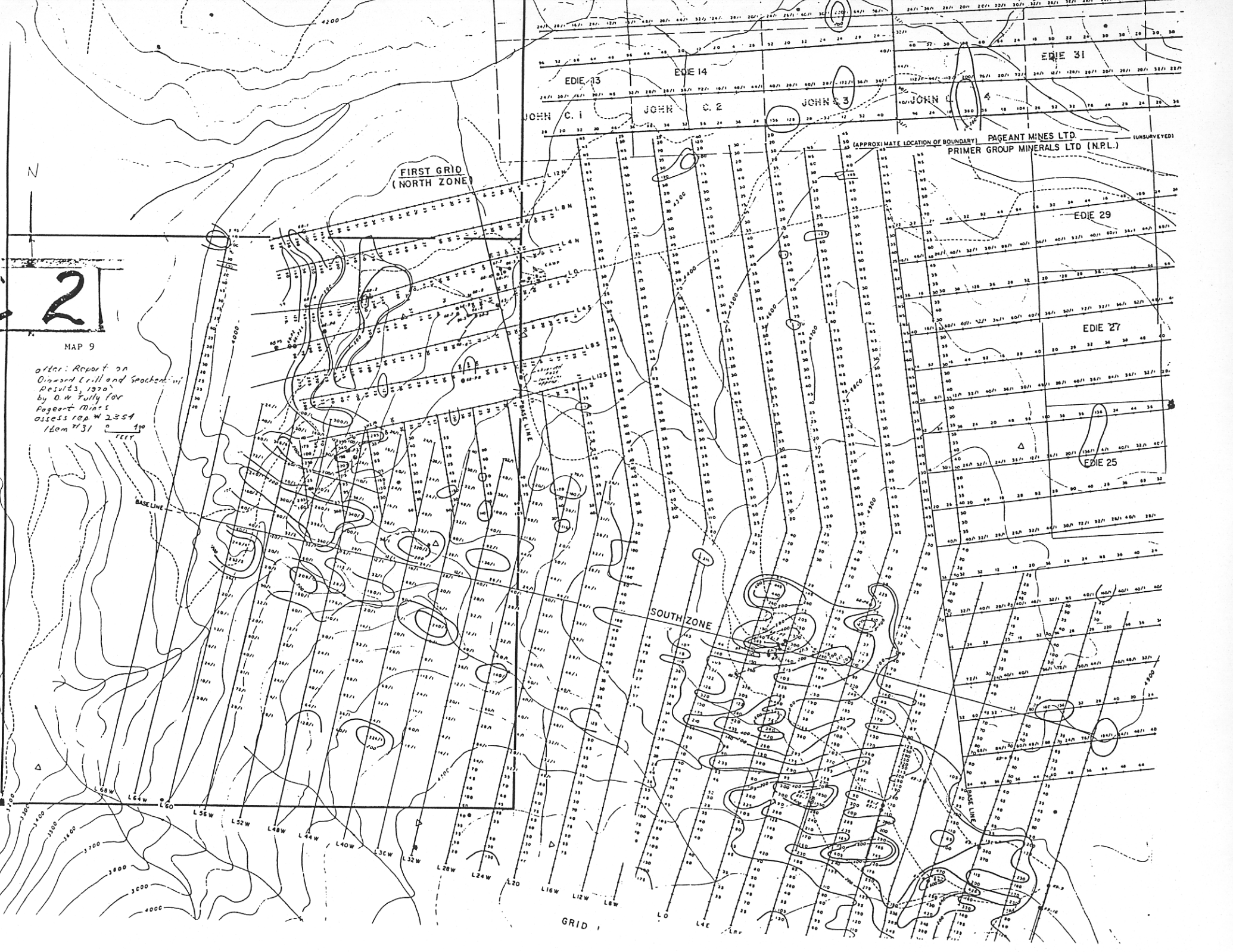


TABLE B

SUMMARY OF DIAMOND DRILL RESULTS

PROGRAM HOLE NO.

AVERAGE GRAD

		<u>From</u>	-	<u>To</u>	=	<u>Lgth/Ft.</u>	x	<u>Cu%</u>	<u>Au</u>	<u>Ag</u>	<u>Mo%</u>	<u>Remarks</u>
<u>1965</u>	1	---		---		Results not available						
<u>1966</u>	1	30.0	-	418.0	=	388.0	x	0.22)				Andesite Diorite
		195.0	-	225.0	=	30.0	x	0.34)				
	2	154.0	-	409.0	=	260.0	x	0.15				HB Porphyry
	3	30.0	-	130.0	=	100.0	x	0.34				Andesite
	4	6.0	-	201.0	=	195	x	0.29				HB Porphyry
	5	14.0	-	110.0	=	96.0	x	0.15)				Andesite
		14.0	-	70.0	=	56.0	x	0.24)				
<u>1967</u>	67-1	-		-		RESULTS NOT AVAILABLE						Andesite
	2	-		-		"	"	"				Andesite
	3	-		-		"	"	"				Andesite
	4	16.0	-	410.0	=	394.0	x	0.24				Basalt- Diorite
	5	8.0	-	309.0	=	301.0	x	0.23	.01	TR		Andesite
	7	33.0	-	174.5	=	141.5	x	0.53)	TR	TR	TR	Andesite Dacite
		8.0	-	174.5	=	166.5	x	0.51)				
<u>1968</u>	68-1	40.0	-	310.0	=	270.0	x	0.06				Feld. Per.
	2	40.0	-	460.0	=	420.0	x	0.12				Feld. Per.
	3	18.0	-	130.0	=	112.0	x	0.05				Feld. Per.
	4	684.0	-	1001.0	=	317.0	x	0.11				Feld. Per.
	5	48.0	-	247.0	=	199.0	x	0.22	TR	TR	.003	Andesite
		180.0	-	200.0	=	20.0	x	0.90	TR	.1	.002	
	6	22.0		64.0	=	42.0	x	0.04				Andesite
	7	52.0	-	256.0	=	240.0	x	0.05	.01	.1	.01	Andesite
	8	1.0	-	106.0	=	106.0	x	0.26)				HB Porphyry
		80.0	-	100.0	=	20.0	x	0.66)	.01	.01		
	9	11.0	-	128.0	=	117.0	x	0.14				Andesite HB Porphyry

after:

#2354
Item #31

Report on Diamond
Drill and Geochemical
Results, 1970 by
D.W. Tully for Primer
Gp. Min. Ltd.
Tables A & B, pp. 8, 9 & 10
Assess. rep. # 2354

PRIMER GROUP MINERALS LTD.
DILLARD CREEK PROPERTY
PRINCETON B.C.

SUMMARY OF DIAMOND DRILL HOLES

1965 Series	Item # 31	Depth	Dip	Direction	Location	Remarks
D.D. Hole 65-1		X-Ray Core	45°	S E	North zone	No X-Section
<u>1966 Series</u>						
D.D. Hole 1	(66-1)	418 feet	45°	S80E	South zone	
" "	2 (66-2)	409.7 " (414')	38°	N70E	" "	
" "	3 (66-3)	177 "	38°	West	North zone	
" "	4 (66-4)	474 " (518')	40°	N85E	" "	
" "	5 (66-5)	110 "	45°	West	" "	
<u>1967 Series</u>						
D.D. Hole #1-67	(67-1)	200 "	60°	N W	South zone	
" "	#2-67 (67-2)	180 "	60°	S E	" "	
" "	67-3	126 "	90°	---	" "	
" "	67-4	620 "	90°	---	" "	
" "	67-5	309 "	45°	West	" "	
" "	67-7	174.5 "	70°	South	North zone	
<u>1968 Series</u>						
D.D. Hole 68-1		500 feet	45°	S75W	North zone	
" "	68-2	501 "	45°	S76W	" "	
" "	68-3	133 "	45°	S E	" "	
" "	68-4	1001 "	45°	N79E	" "	
" "	68-5	247 "	55°	S W	" "	
" "	68-6	64 "	60°	N E	" "	
" "	7-N-68 (68-7)	256 "	50°	S W	" "	
" "	8-N-68 (68-8)	106 "	90°	----	" "	
" "	N-9-68 (68-9)	128 "	90°	----	" "	
" "	D-10-N-68 (68-10)	307 "	90°	----	" "	
" "	D-11-S-68 (68-11)	52 "	90°	----	South zone	
" "	68-S-12 (68-12)	128 "	90°	----	" "	
<u>1969 Series</u>						
D.D. Hole 1-1969		812.5 "	45°	S10W	South zone	- 20F
" "	69-2	403 "	90°	----	" "	- 20E
" "	69-3	246 "	54°	S22W	" "	- 24E
" "	69-4	343 "	54°	S W	" "	- 28E
" "	69-5	812.5 "	70°	N E	" "	- 32E
" "	69-6	598 "	90°	----	" "	- See 32E
" "	69-7	1001 "	54°	S W	" "	- 12E
" "	69-8	498 "	90°	----	North of Dillard Creek	
" "	69-9	375 "	45°	S W	South zone	- 40E
" "	69-10	573 "	45°	S W	" "	- 40E

Total 12.283.2 "

SUMMARY OF DIAMOND DRILL RESULTSPROGRAM HOLE NO.AVERAGE GRADE

	<u>From</u>	-	<u>To</u>	=	<u>Lgth/Ft</u>	x	<u>Cu%</u>	<u>Au</u>	<u>Ag</u>	<u>Mo%</u>	<u>Remarks</u>
10	3.0	-	100	=	97.0	x	0.58				Andesite
	3.0	-	307.0	=	304.0	x	0.25				Near 67-7
11	1.0	-	52.0	=	51.0	x	0.24				Andes. Por.
12	4.0	-	128.0	=	124.0	x	0.33				Feld. Por. Andes. Por.
<u>969</u>	69-1	132.0	-	262.0	=	130.0	x	0.40			Diorite
		262.0	-	811.0	=	549.0	x	0.23			Dior. - Andes.
2	84.0	-	400.0	=	316.0	x	0.14				Diorite
3	165.0	-	246.0	=	81.0	x	0.05				Diorite
4	43.0	-	343.0	=	300.0	x	0.02				Andes. Por.
5	83.0	-	812.0	=	729.0	x	0.07				Feld. Por.
	398.0	-	418.0	=	20.0	x	0.35				Buff Dyke
6	55.0	-	598.0	=	543.0	x	0.05				Feld. Por.
7	30.0	-	1001.0	=	971.0	x	0.17				Feld. Por.
	615.0	-	625.0	=	10.0	x	0.76				Feld. Por.
8											Assays incomplete
9					"	"					Andesite
10	41.0	-	573.0	=	532.0	x	0.05				Andesite Feld. Por.

3

ITEM # 8

same as item # 7 ie/ access. # 17077
- spare copy

GEOCHEMICAL REPORT ON THE PRIME PROPERTY
NICOLA & SIMILKAMEEN MINING DIVISIONS
SUMMERS CREEK, BRITISH COLUMBIA

CLAIMS

PRIME (702), PRIME 1 (323)

LOCATION

N.T.S.: 92H-16W
LATITUDE: 49° 45' 40"
LONGITUDE: 120° 29' 33"

OPERATOR

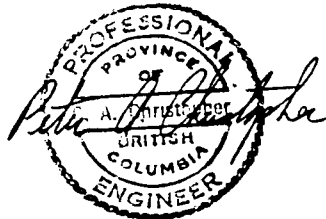
CONSOLIDATED SILVER BUTTE MINES LTD.
906 - 837 WEST HASTINGS STREET
VANCOUVER, B.C. V6C 1B6

OWNER

GIANT PIPER EXPLORATION INC.
1850-1140 WEST PENDER STREET
VANCOUVER, BRITISH COLUMBIA
V6E 4G1

BY

PETER A. CHRISTOPHER Ph.D., P.Eng.
PETER CHRISTOPHER & ASSOCIATES INC.
3707 WEST 34th AVENUE
VANCOUVER, BRITISH COLUMBIA V6N 2K9



NOVEMBER 26, 1987

GEOPHYSICAL REPORT ON THE PRIME PROPERTY
NICOLA & SIMILKAMEEN MINING DIVISIONS
SUMMERS CREEK, BRITISH COLUMBIA

CLAIMS

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VANCOUVER, BRITISH COLUMBIA V6N 2K9



NOVEMBER 26, 1987

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SUMMARY

The Prime Property, consisting of 2 metric claims totaling 24 units is situated southeast of Missezula Lake and east of Summers Creek. The claims are adjacent to the Missezula Lake Road from kilometers 28 to 30 from Highway 5. The claims were staked to cover copper showings in the Nicola Volcanics with renewed interest generated by detection of gold values near the southern boundary of the Prime claim by prospector Ed Mullin in 1978. Previous drilling and surface sampling by Newmont Exploration of Canada Ltd. has indicated a copper zone 200 meters by 15 to 30 meters with a 5 meter section in a trench averaging over 0.25 oz Au/ton. The government mineral inventory 92H-NE 55 and 92H-NE 56 indicates reported reserves of 23,000,000 ton with a 0.20 copper cut-off for the Primer or King George.

The present program consisted of marking of the southern claim boundary, location of the old King George workings, construction of a chained and flagged grid with a 1.2 kilometer base line and 8.5 kilometers of cross lines. A total of 350 soil and eight rock samples were collected at 25 meters intervals with alternate soil samples (126) from line 0+00 to 6S and nine rock samples analyzed for 30 element ICP and gold geochem at Acme Laboratory in Vancouver. The remaining soil samples were dried and store for future analytical work.

Soil geochemical plots were made for gold, copper and molybdenum which showed the most significant responses with gold varying from 1 to 420 ppb, copper from 16 to 950 ppm and molybdenum from 1 to 20 ppm. Strong copper, molybdenum and gold generally occur together with the strongest response in the area of the old King George workings. The best potential in the area is for a previously unrecognized gold zone within the previously known copper prospect.

The writer recommends that stored soil samples, collected from within anomalous copper, molybdenum and gold zones be analyzed before deciding if trench and/or drilling of a possible gold zone is warranted.

INTRODUCTION

The Prime Property consisting of the 24 units is situated in the Nicola and Similkameen Mining Divisions about 30 kilometer north of Princeton, British Columbia. The property has easy road access to the western boundary with two and four-wheel-drive access to the showings. Peter Christopher & Associates Inc. was retained by the management of Giant Piper Exploration Inc. to conduct a geological and geochemical assessment of the Prime Property. The 1987 field program was conducted between October 16, 1987 and October 27, 1987.

This report summarizes the geochemical results obtained from 126 soil samples and 9 rock samples collected from the Prime Property and provides a recommendation for further analytical work on samples collected during the 1987 field program.

LOCATION AND ACCESS (Figures 1 & 2)

The Prime Property is situated west of Summers Creek and east of Missezula Lake. The western claim boundary extends along the Missezula Lake Road from 28 to 30 kilometers east of Highway 5. The legal corner post for the Prime claim is on the east side of the Missezula Lake road at a bridge crossing of Summers Creek. The area is considered part of the Thompson Plateau of south-central British Columbia. The property is situated at the southwest corner of map sheet 92 H 16W and centers at geographic coordinates of 049° 45' 40" N. latitude and 120° 29' 33" W. longitude.

Access is by the Missezula Lake Road which branches off Highway 5 about 8 kilometers north of Princeton, British Columbia. Missezula Lake is 30 kilometers by good gravel road from Highway 5. The Prime Property can be reached by a 3.5-kilometer of two and 4-wheel-drive road that branches to the east from the main road about 1.5 kilometers south of Missezula Lake. making for slow progress. Elevation vary from 975 meters (3100 feet) in the valley bottom to 1550 meters (5,100') in the eastern claim area.

PROPERTY DEFINITION

The Prime Property, consisting of 24 grid unit is situated in the Nicola and Similkameen Mining Divisions, B.C. The claims were staked using the modified grid system with the Prime claim extending four units north and four units east from a legal corner post situated adjacent to the Missezula Lake Road and the Prime 1 claim extending four units east and 2 units south from a legal corner post situated east of Missezula Lake. The Prime 1 claim was staked by Pat Henry on May 14, 1976 and sold to Piper Petroleums Ltd. on January 5, 1977. The Prime claim was staked on July 28, 1979 by Gordon Gutrath as agent for Piper Petroleums Ltd. The Prime claim was a relocation of the abandoned Prime 47(5) claim.

Table 1 summarizes pertinent claim data and Figure 1 and 2 shows the approximate location of the Prime claims. The legal corner post and the 1E, 2E, 3E and 4E post for the Prime claim were located in the field. The southern boundary of the Prime Claim and was blazed and flagged. The location of the surveyed area is shown on Figure 2.

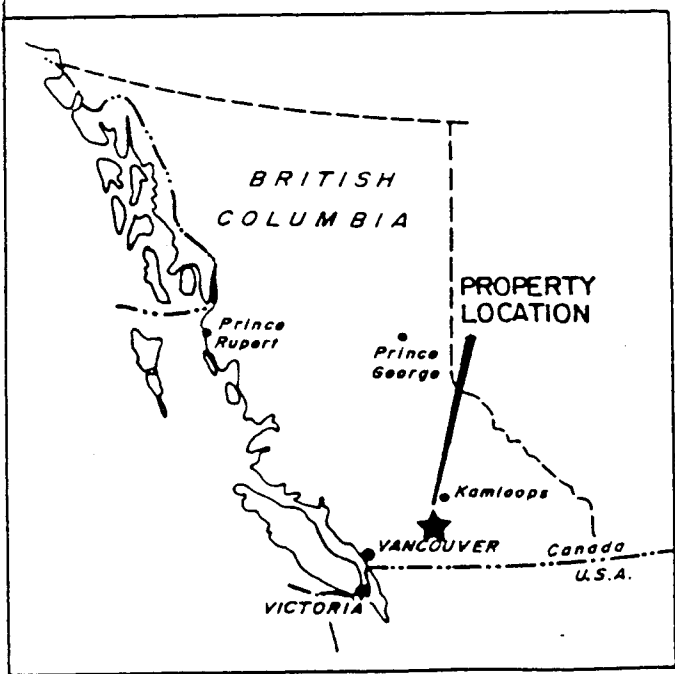
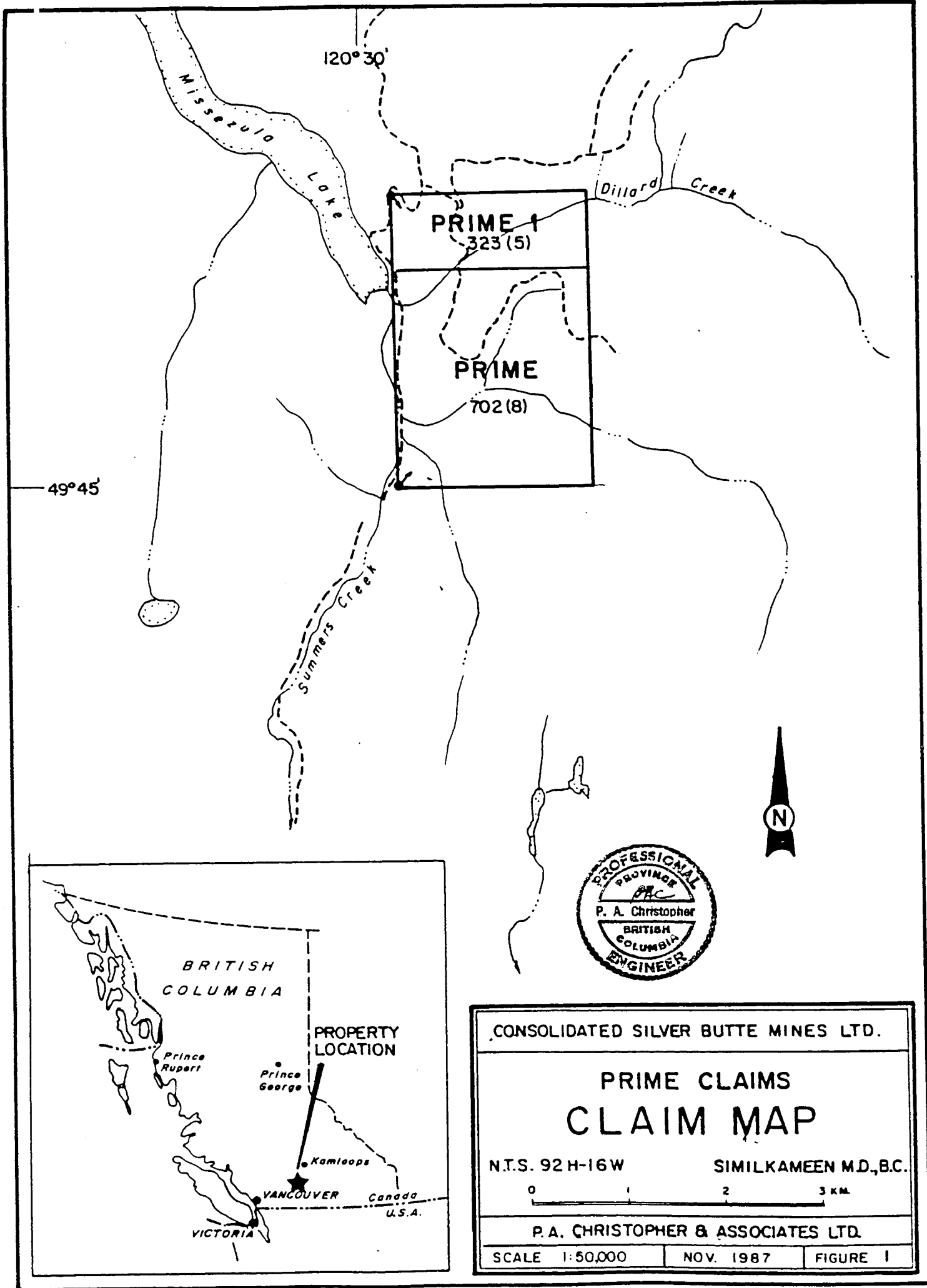
Table I. Pertinent Claim Data For MS Claims.

<u>CLAIM</u>	<u>RECORD #</u>	<u>UNITS/SHAPE</u>	<u>RECORD DATE</u>	<u>EXPIRY*</u>	<u>STAKER</u>
PRIME 1	323(5)	8/2SX4E	MAY 20/86	1988	PAT HENRY
PRIME	702(8)	16/4NX4E	AUG. 21/79	1988	GORDON GUTRATH

* Before recording work summarized in this report.

HISTORY OF THE CLAIMS

The Prime 1 claim was staked by Pat Henry in May 1976 and the Prime claim was staked in July 1979 by Gordon C. Gutrath as agent for



CONSOLIDATED SILVER BUTTE MINES LTD.

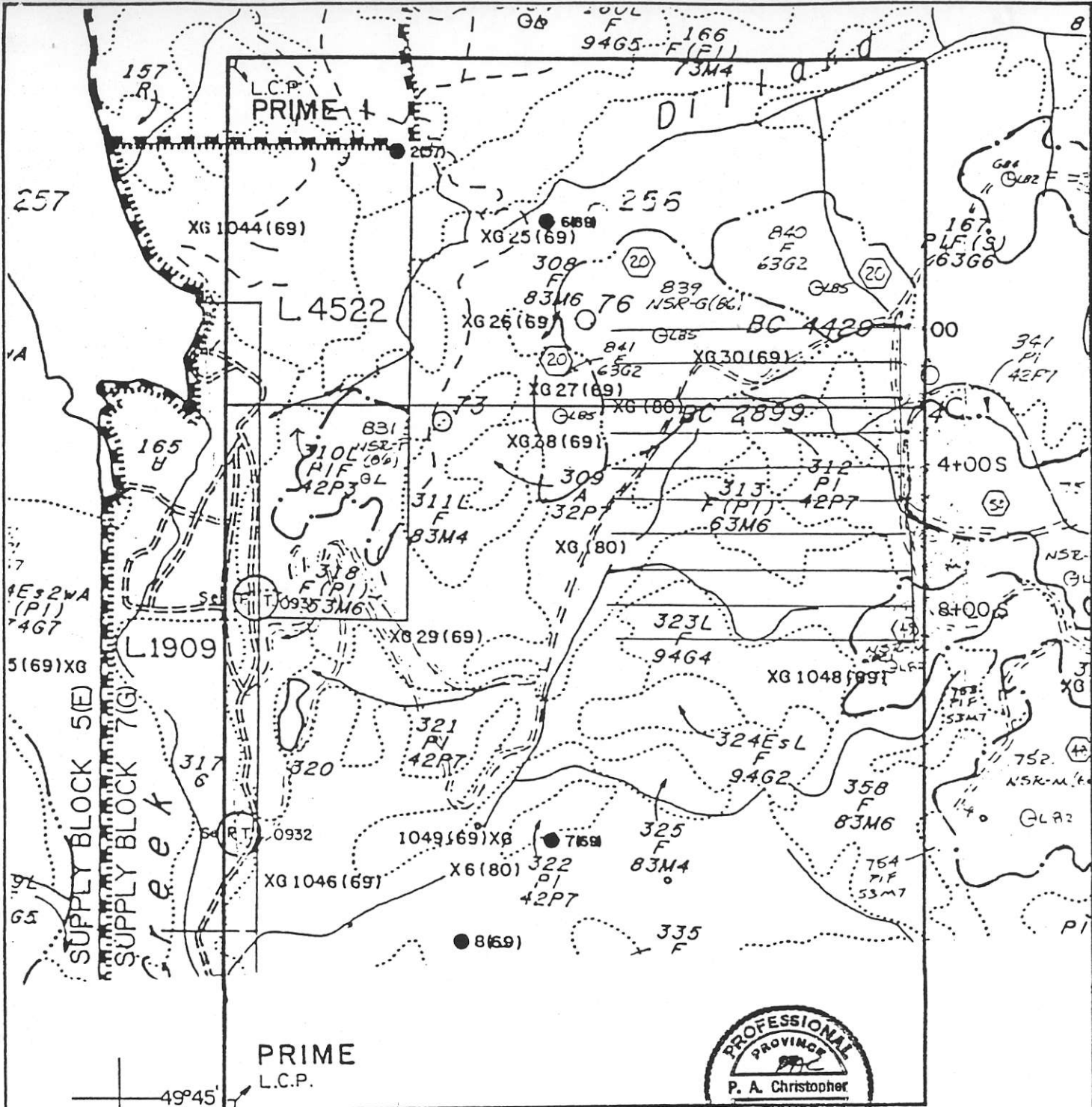
**PRIME CLAIMS
CLAIM MAP**

N.T.S. 92 H-16 W SIMILKAMEEN M.D., B.C.

0 1 2 3 KM

P. A. CHRISTOPHER & ASSOCIATES LTD.

SCALE 1:50,000	NOV. 1987	FIGURE 1
----------------	-----------	----------



2800 m N-S
 X
 1900 m E-W
 @ lines 100 m, sta. @ 50m on lines
 = 28 lines x 1.9 km + 2.8 km @
 = 56 line km
 @\$300/km
 = \$16,800
 1 km = 1000 m

CONSOLIDATED SILVER BUTTE MINES, LTD.

**PRIME CLAIMS
GRID LOCATION**

N.T.S. 92H-16W SIMILKAMEEN M.D., B.C.

0 200 400 600 METRES

P.A. CHRISTOPHER & ASSOCIATES LTD.

SCALE	NOV. 1987	FIGURE 2
-------	-----------	----------

Piper Petroleums Ltd. (name changed to Giant Piper Petroleum Inc.) to relocated the abandoned Prime 47(5) claim. The claims were staked to cover part of a property known as the King George. The King George was explored by McIntyre Porcupine Mines Limited in 1962 and by Primer Group Minerals between 1963 and 1970 with portions of the claims explored by Perry, Knox, Kaufman, Inc in 1971 and by Belcarra Explorations Ltd. and Riocanex in 1972 and 1973. Exploration included geological mapping, soil geochemical, magnetic, electromagnetic and induced polarization, stripping and trenching surveys with at least 31 percussion holes totaling 4,192 feet and 33 diamond drill holes totaling 13,909 feet. In 1977 and 1978, Piper Petroleums Ltd. explored the property with magnetic, electromagnetic, and geochemical surveys which defined targets for stripping.

In 1978 a group of local prospectors (Edward Mullin, Gerald Burr and William Stevens) found copper showing south of the Prime claim and located the MS and HG claims. In August 1979 they optioned the adjoining Prime claim from Piper Petroleums and optioned the combined property to Newmont Exploration of Canada Ltd. Newmont worked the property between 1979 and 1981. Reports by John Nebocat and Dave Visagie outline geological, geophysical, geochemical, trenching and diamond drilling programs conducted on the property. A total of 12 holes totaling 2,550 meters were drilled by Newmont on a copper-gold zone that straddles the Prime-HG claim boundaries. Newmont reported a copper zone 200 meters long by 10 - 30 meters wide with an average copper content of 0.3 - 0.4%. The highest gold value obtained from the drilling was 3 meters of 0.2 ounces per ton. The potential for small tonnage high grade deposits was not fully tested by Newmont.

The Prime-HG-MS Property was optioned to Peter A. Christopher in 1984 and 1985 with magnetic, electromagnetic, soil geochemical and geological surveys completed before returning the property to the vendors. In 1986 the Prime claim was returned to Giant Piper Exploration Inc.

In October of 1987, Peter Christopher & Associates Inc. was retained by the management of Giant Piper to conduct a geological and geochemical assessment of the Prime Property. This report review of the results of surveys conducted between October 16 and October 27, 1987.

WORK PROGRAM

The 1987 work program was conducted by the writer with the assistance of prospectors F. Haidlauf and J. Lissau and assistant C. Reynolds between October 16, 1987 and October 27, 1987. Mobilization for the program was from Vernon, Olalla, and Vancouver, British Columbia with meals and accommodation obtained in Princeton, B.C. A total of about 10 line kilometers of grid was chained with 350 stations flagged and soil sampled at 25 meter intervals. The grid location is shown on Figure 2 with geochemical values for copper, gold and molybdenum shown on Figure 3 through 5 and analytical data presented in Appendix B. Descriptions and locations of 9 rock samples are presented in Appendix C and a cost statement for the program is presented as Appendix A.

REGIONAL GEOLOGY

The Prime Property is situated in the Intermontane Tectonic Belt of the southern Canadian Cordillera. In southern British Columbia the upper Triassic Nicola Group dominates the belt. The Nicola Group consists mainly of alkalic and calc-alkalic volcanic and volcanoclastic rocks that have been divided by Preto (1979) into three north-trending structural belts, bounded by major faults. The Summers Creek fault zone running along the western boundary of the Prime Claim separates rocks of Preto's Central Belt from rocks of the Eastern Belt which underlie the property. Eastern Belt rocks along Summers Creek include both alkalic and calc-alkalic suites derived from comagmatic intrusions and are dominated by extrusive tuffs, lahar deposits, some basaltic flows, and high-level syenitic stocks (Preto, 1979; Christopher, 1973).

The Alleyne-Summers Creek fault system, a major north-south rift system passes along the western boundary of the claim and dominates the tectonic fabric of the property. Local faults generally parallel the northerly trend but N20°W and N40-45°E linears are probably also important fault directions.

Nicola rocks are generally only weakly metamorphosed with maximum regional grade reaching greenschist facies. Locally comagmatic intrusions have produced metasomatic and metamorphic effects with deposits like Ingerbelle, Copper Mountain, Afton, Axe and Craigmont resulting.

MINERALIZATION

The Prime Property contains a number of structurally controlled copper bearing zones (B.C. Mineral Inventory 92H-NE, 55, 56, 110) with potential for precious metal enhanced 'syenitic' copper deposits. A zone near the southern boundary of the property was explored by Newmont Exploration of Canada Ltd. with a copper zone 200 meters long by 10 to 30 meters wide estimated by Newmont to contain 0.3 to 0.4% copper. The copper mineralization occurs mainly as the secondary minerals malachite, azurite, and neotocite. Chalcopyrite occurs as disseminations in fine alkalic intrusive and as fracture fillings. Pyrite generally occurs with chalcopyrite and minor bornite has been observed in a trench and in core (Nebocat, 1980).

Gold values of up to 3 meters of 0.204 oz Au/ton were intersected in drill hole 80-1 with a 14 meter section in a surface trench averaging 0.104 oz Au/ton. Gold values were reported to occur in fault zones that separated mineralized from fresh, unaltered rock.

Previous exploration on the property occurred in structurally controlled copper zones referred to as the King George (Rice, 1960) resulted in reported reserves of 23,000,000 with a copper cut-off of 0.2% (B.C. Mineral Inventory 92H-NE 56). The mineralization is described as occurring in two zones: a zone of silicified Nicola Volcanics with pyrite and chalcopyrite and a zone of minor pyrite and chalcopyrite associated with calcite veinlets and stringers. Little information is available on the precious metal content of the King George copper prospects.

GEOCHEMICAL SURVEY

Soil samples were collected at 25 meter intervals along cross lines extending at 270° from a base line established near the eastern boundary of the Prime Claim (Figure 2). Soil samples were collected over the area of the old King George workings to test the precious metal potential of the copper bearing zone. A total of 350 soil samples were collected from the B horizon at about 20 cm, placed in craft soil bags and dried. A total of 126 of the soil samples were selected for 30 element ICP and atomic absorption gold analyses. Alternate sample sites along lines 0+00 to 6+00S were analyzed with remaining samples stored for future analytical work.

The B horizon was sampled with a mattock at a depth of about 20 cm. The B horizon is generally greyish brown. Sample stations were chained and flagged with orange and blue flagging.

RESULTS AND INTERPRETATION

Review of the analytical data for the 30 element ICP indicated that anomalous results were mainly restricted to Mo, Cu and Au. Results for Cu, Au and Mo were plotted and contoured on 1:5,000 scale maps (Figures 3, 4, 5). Background, slightly anomalous and anomalous ranges were based on other surveys conducted over Nicola volcanic terrain. Statistical treatment was not attempted because of the low number of samples. Analytical results are included in the Appendix B at the end of this report.

Copper

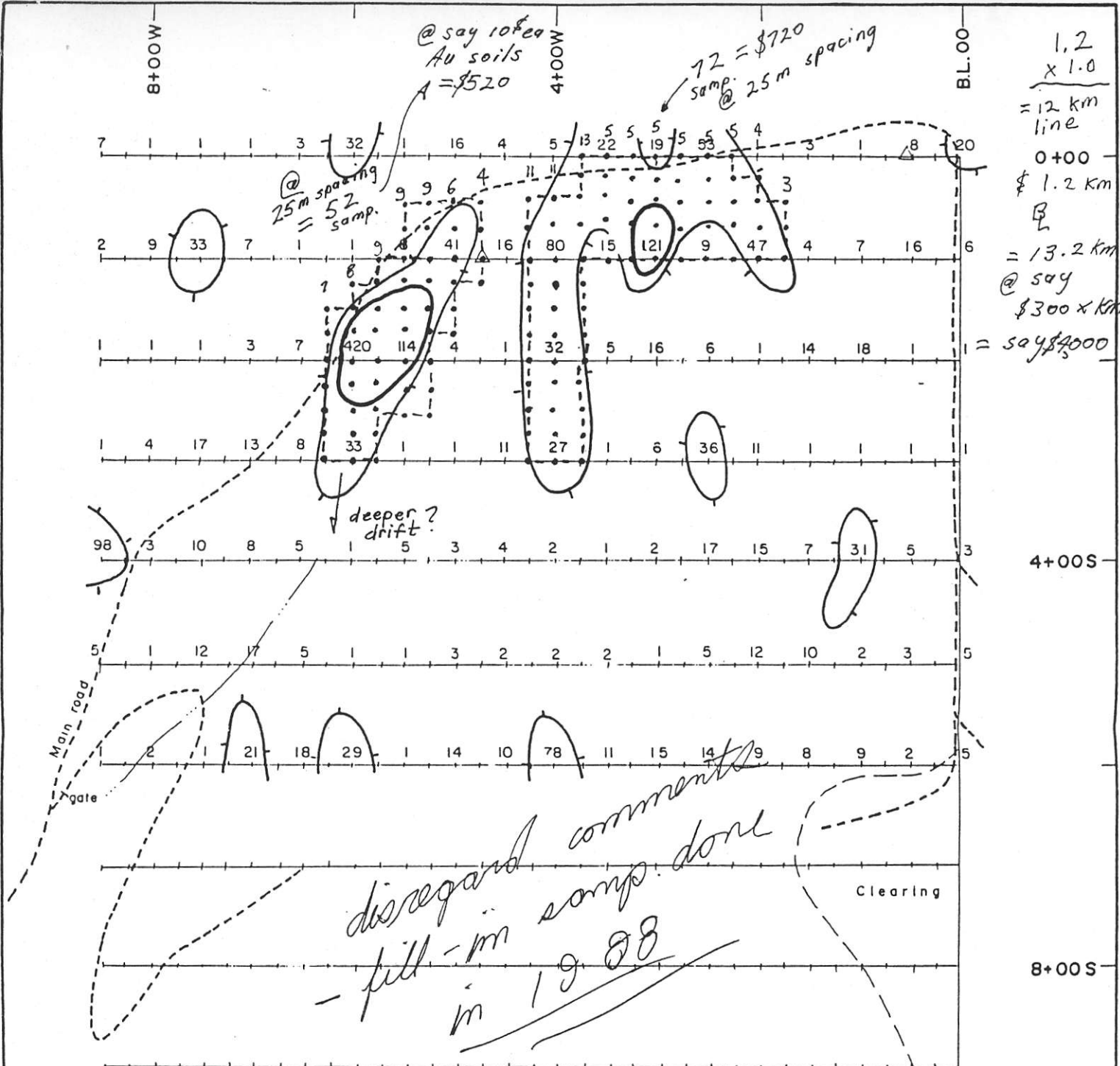
Copper values range from 10 ppm to 480 ppm with values between 70 and 150 ppm considered weakly anomalous and values over 150 considered anomalous. A total of 51 samples were weakly anomalous or anomalous with 22 of these sample in the anomalous range. About 40% of the samples are at least weakly anomalous in copper with over 17% of the samples anomalous in copper. A strong northeasterly trending zone of anomalous copper values extends from about line 6S 8+00W to line 0+00 5+50W and a weaker discontinuous northerly trending copper anomaly occurs between 1+00W and 2+00W. Although silver values are not strongly anomalous, the higher silver results occur with the anomalous copper values (ie. all Ag values of 0.7ppm or higher).

Silver

Silver ranges from the detection limit of 0.1ppm to 1.0ppm with values between 0.6ppm and 1.0ppm considered weakly anomalous. A total of 23 weakly anomalous values were detected. The strongest silver values of 0.9ppm and 1.0ppm occur with the strongest copper and gold on line 2S from 5+50W to 6+00W.

Gold

Gold ranges from a lower detection limit of 1ppb to 420ppb at line 2S 6+00W with values of 20 ppb considered anomalous and values over 99ppb considered strongly anomalous. A total of 20 anomalous values were detected with 3 of the values strongly anomalous. Anomalous gold values generally occur with anomalous copper and molybdenum values.



1.2
x 1.0
= 12 km
line
0+00
\$ 1.2 Km
= 13.2 km
@ say
\$300 x Km
= say \$4000

- main consideration is depth of o/B-drift
- anomalous areas assumed to be thin cover
- further sampling should be restricted to areas of thin cover

LEGEND

- △ Survey pegs
- Soil sample location
- 20 ppb Au
- 100 " "

ie/ isopach map of property would be very helpful



Recomm: - if sufficient funding avail should have grid cut & surveyed over entire area espec. to N & W (ie/ 98 ppm @ 4.5-8+50m ie/ some grid as above but extra 2 lines to N & 2 to W = 13.2 line km = say \$4000 @ \$300 per Km cut & picketed every 50m * grid 100m x 50m over entire prop. = 56km = \$16,800.

CONSOLIDATED SILVER BUTTE MINES LTD.

**PRIME CLAIMS
Au IN PPB**

N.T.S. 92H-16W SIMILKAMEEN M.D., B.C.

0 100 200 300 METRES

P. A. CHRISTOPHER & ASSOCIATES LTD.

SCALE 1:5000 DATE NOV 1987 FIGURE 3

Molybdenum

Molybdenum values vary from a lower detection limit of 1ppm to 20ppm with 13 values of 5ppm or greater considered anomalous. The anomalous values for molybdenum are mainly in the northern part of the grid area and occur with anomalous copper and/or gold.

Rock Samples

A total of 9 rock samples were collected to check copper stained or iron sulphide bearing rocks for precious metal content. Samples K107 to K109 were from a trenched area near 2S 1+50W and K106 consisted of selected pieces near line 0+00 5+00W. Samples K105 and K105 were from old core at a main campsite near 2S 1+00E. Samples K101 and K102 were from the north end of a road-trench at about line 7S 6+50W and sample K103 was a 10 foot chip at 4S 8+00W on the main access road. Sample K106 contained 7084ppm copper, 331ppm molybdenum, 3.1ppm silver and 149ppb gold with the highest gold value of 210ppb from 10 foot chip sample K107.

CONCLUSIONS AND RECOMMENDATIONS

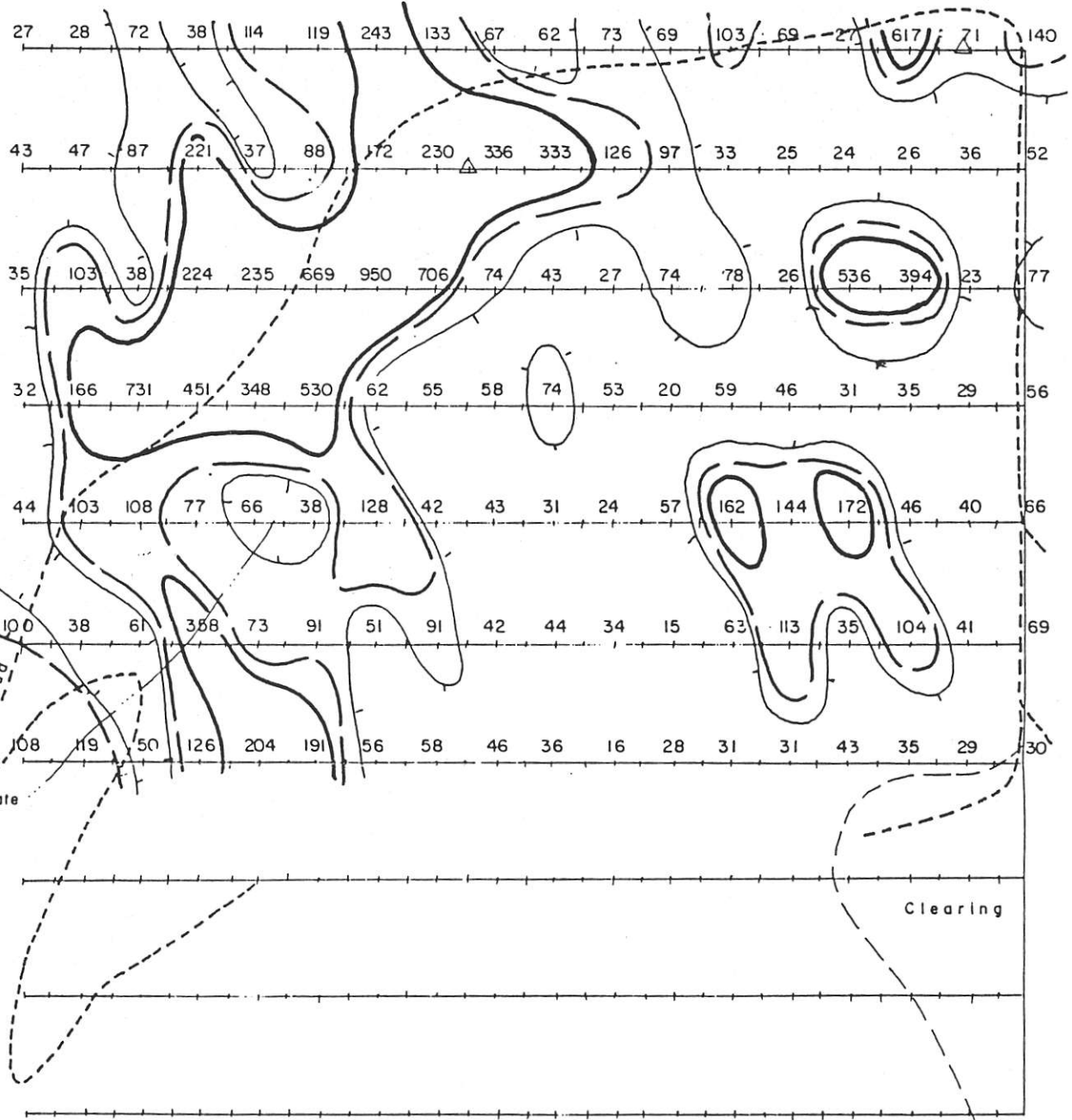
Soil sampling of part of the old King George showings has indicated the existence of anomalous gold condition in conjunction with northerly and northeasterly anomalous trends for copper and molybdenum. The strongest gold response is 420ppb for a sample on 2S at 6+00W with 114ppb gold in the sample at 2S 5+50W. Encouraging precious metal values obtained from analyses on 126 of 350 samples collected provide justification for further analytical work on stored samples.

A decision to trench and/or drill precious metal anomalies should be made after further analytical work is completed.






8+00W

4+00W

BL.00



LEGEND

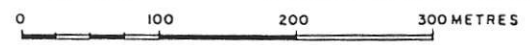
-  Survey pegs
-  Soil sample location
-  70 ppm Cu
-  100 " "
-  150 " "



CONSOLIDATED SILVER BUTTE MINES LTD.

**PRIME CLAIMS
Cu IN PPM**

N.T.S. 92H-16W SIMILKAMEEN M.D., B.C.



P. A. CHRISTOPHER & ASSOCIATES LTD.

SCALE 1:50.00 DATE NOV 1987 FIGURE 5


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CERTIFICATE

I, Peter A. Christopher, with business address at 3707 West 34th Avenue, Vancouver, British Columbia, do hereby certify that:

- 1) I am a consulting geological engineer registered with the Association of Professional Engineers of British Columbia since 1976.
- 2) I am a Fellow of the Geological Association of Canada and a member of the Society of Economic Geologists.
- 3) I hold a B.Sc. (1966) from the State University of New York at Fredonia, a M.A. (1968) from Dartmouth College and a Ph.D. (1973) from the University of British Columbia.
- 4) I have been practising my profession as a Geologist for over 20 years.
- 5) I have no interest in the properties or securities of Giant Piper Exploration Inc. or Consolidated Silver Butte Mines Ltd.
- 6) I have based this report on a review of available geological data, on several examinations of the property with the most recent examinations on October 16, 24, 25, 1987, and on a geochemical exploration program conducted under my supervision between October 16, 1987 and October 27, 1987.
- 7) I consent to the use of this report by Consolidated Silver Butte Mines Ltd. for any Filing Statement, Statement of Material Facts or Assessment Report.


PETER A. CHRISTOPHER, PH.D., P.Eng.
November 26, 1987



The seal is circular with the text "PROFESSIONAL ENGINEER" around the top and "BRITISH COLUMBIA" around the bottom. In the center, it says "P. A. Christopher".

APPENDIX B.

CERTIFICATES OF ANALYSIS

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEC. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: P1-4 SOIL P5-ROCK AU: ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: NOV 3 1987

DATE REPORT MAILED: *Nov 13/87* ASSAYER: *D. J. Jepsen* DEAN TOYE, CERTIFIED B.C. ASSAYER

PETER A. CHRISTOPHER PROJECT-FRIME-1 File # 87-5375 Page 1

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W	AUX
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	I	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	I	I	PPM	PPM	I	PPM	I	PPM	I	I	PPM	PPM	
0+00S 8+50W	1	27	3	56	.1	9	7	877	2.26	3	5	ND	1	19	1	2	2	52	.23	.065	2	12	.34	109	.08	3	1.65	.04	.06	1	7
0+00S 8+00W	2	28	2	61	.2	10	10	1281	2.62	3	5	ND	1	23	1	2	2	54	.29	.133	3	11	.30	106	.09	3	1.99	.04	.04	1	1
0+00S 7+50W	2	72	2	42	.1	12	6	207	1.95	4	5	ND	1	16	1	2	2	45	.27	.130	2	12	.22	76	.10	3	1.47	.03	.07	1	1
0+00S 7+00W	3	38	6	35	.4	8	5	374	1.79	2	5	ND	2	13	1	2	2	43	.17	.042	2	9	.17	51	.09	2	1.13	.03	.05	4	1
0+00S 6+50W	3	114	6	52	.5	16	9	569	2.57	2	5	ND	2	19	1	2	2	66	.23	.095	2	19	.46	97	.12	4	2.28	.04	.04	1	3
0+00S 6+00W	4	119	2	62	.1	16	10	432	2.86	3	5	ND	1	21	1	2	2	72	.30	.075	2	20	.58	83	.11	4	1.74	.04	.08	1	32
0+00S 5+50W	6	243	4	64	.3	19	15	466	3.98	4	5	ND	2	26	1	2	2	93	.30	.086	5	25	.70	108	.14	3	2.91	.04	.08	1	1
0+00S 5+00W	6	133	4	57	.7	16	11	473	3.74	4	7	ND	2	35	1	2	2	88	.35	.080	5	26	.68	98	.12	3	2.21	.04	.09	1	16
0+00S 4+50W	1	67	2	102	.2	17	10	393	2.72	5	5	ND	2	22	1	2	2	63	.29	.089	3	19	.43	82	.11	3	1.87	.04	.10	1	4
0+00S 4+00W	2	62	4	86	.3	16	10	864	3.09	2	5	ND	2	31	1	2	2	76	.44	.066	5	27	.49	98	.13	6	1.95	.04	.12	1	5
0+00S 3+50W	1	73	6	120	.3	16	13	876	3.34	2	5	ND	3	33	1	2	2	77	.42	.071	4	27	.70	104	.11	3	2.43	.04	.12	1	22
0+00S 3+00W	1	69	2	103	.3	17	12	909	3.19	4	5	ND	2	32	1	2	2	64	.40	.077	4	24	.59	125	.08	3	2.04	.04	.10	1	19
0+00S 2+50W	1	103	4	47	.3	16	9	367	3.58	7	5	ND	2	41	1	2	2	96	.70	.068	7	30	.65	42	.12	5	1.44	.05	.05	2	53
0+00S 2+00W	1	69	5	82	.3	27	12	612	2.63	3	5	ND	2	22	1	2	2	54	.49	.078	4	31	.47	90	.09	3	2.10	.04	.07	1	1
0+00S 1+50W	1	27	4	72	.1	12	7	407	2.26	5	5	ND	2	17	1	2	2	50	.26	.126	3	18	.33	103	.08	3	1.68	.04	.06	1	3
0+00S 1+00W	1	617	3	81	.7	14	4	98	1.65	2	5	ND	2	112	1	2	2	40	3.03	.052	8	16	.36	135	.06	8	1.56	.05	.03	1	1
0+00S 0+50W	1	71	5	63	.2	12	8	479	2.77	2	5	ND	1	25	1	2	2	75	.43	.051	4	20	.46	105	.11	3	1.63	.04	.07	1	8
BL 0+00	1	140	7	79	.1	18	14	811	3.75	5	5	ND	2	39	1	2	2	96	.70	.083	5	31	.94	152	.10	3	2.35	.05	.09	1	20
1S 8+50W	2	43	6	39	.1	10	8	284	2.69	2	5	ND	1	24	1	2	2	63	.27	.058	2	14	.50	95	.09	3	1.93	.04	.05	1	2
1S 8+00W	2	47	3	71	.4	15	8	564	2.31	2	5	ND	2	20	1	2	2	54	.26	.100	3	16	.37	91	.10	7	1.82	.04	.07	1	9
1S 7+50W	3	87	8	71	.2	15	9	511	2.78	8	5	ND	2	25	1	2	2	63	.51	.062	5	20	.44	87	.08	4	1.87	.04	.05	1	33
1S 7+00W	6	221	7	42	.3	32	11	190	4.06	2	5	ND	2	51	1	2	2	117	.34	.041	5	111	1.52	200	.21	5	2.33	.06	.36	1	7
1S 6+50W	1	37	2	43	.3	12	6	374	1.98	2	5	ND	1	24	1	2	2	44	.27	.142	2	15	.27	70	.10	2	1.50	.04	.07	2	1
1S 6+00W	2	88	7	76	.4	19	12	362	3.27	3	5	ND	3	28	1	2	2	75	.34	.102	4	23	.73	104	.12	4	2.47	.05	.11	1	1
1S 5+50W	5	172	8	65	.3	18	14	660	3.54	3	5	ND	2	28	1	2	2	77	.34	.069	4	24	.66	114	.11	4	2.32	.04	.11	1	8
1S 5+00W	3	230	5	82	.8	20	13	578	4.05	2	5	ND	3	40	1	2	2	93	.62	.067	6	30	.73	90	.13	5	2.19	.05	.31	1	41
1S 4+50W	6	336	8	99	.6	21	15	511	5.32	3	5	ND	5	48	1	2	2	133	.46	.107	6	33	1.01	139	.19	4	2.75	.06	.27	2	16
1S 4+00W	13	333	12	86	.8	22	19	750	6.49	2	5	ND	3	97	1	2	2	127	.58	.106	6	32	.90	121	.15	4	3.28	.05	.29	1	80
1S 3+50W	3	126	4	67	.3	17	10	503	3.29	2	5	ND	2	39	1	2	2	82	.52	.084	5	32	.67	98	.13	4	1.89	.05	.13	1	15
1S 3+00W	1	97	7	54	.5	17	9	362	3.87	3	5	ND	3	35	1	2	2	107	.57	.058	6	30	.63	66	.14	6	1.41	.04	.10	1	121
1S 2+50W	1	33	5	50	.2	13	7	424	2.99	2	5	ND	2	29	1	2	2	84	.46	.027	4	28	.49	72	.15	5	1.38	.04	.15	1	9
1S 2+00W	1	25	4	45	.3	14	7	377	2.75	2	5	ND	2	26	1	2	2	73	.39	.039	4	27	.42	80	.13	4	1.50	.04	.09	2	47
1S 1+50W	1	24	7	49	.3	11	6	328	2.33	5	5	ND	2	22	1	2	2	59	.34	.058	3	20	.35	91	.10	2	1.40	.04	.05	1	4
1S 1+00W	1	26	5	101	.1	9	5	1016	2.02	3	5	ND	1	27	1	2	2	41	.40	.143	3	14	.24	178	.07	5	1.43	.04	.05	1	7
1S 0+50W	1	36	9	91	.2	10	6	528	2.17	2	5	ND	2	20	1	2	2	48	.31	.127	4	16	.29	128	.08	4	1.61	.04	.05	1	16
1S 0+00W	1	52	6	54	.2	14	8	360	3.28	2	5	ND	2	28	1	2	2	88	.45	.052	6	30	.57	128	.12	3	1.82	.04	.04	1	6
STD C/AU-S	19	60	38	129	7.5	70	29	1101	4.14	41	21	8	40	49	19	18	20	60	.50	.092	40	62	.87	176	.09	36	1.86	.09	.14	14	49

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE I	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA I	P I	LA PPM	CR PPM	MG I	BA PPM	TI I	B PPM	AL I	NA I	K I	W PPM	AU# PPB
2S 8+50W	1	35	5	70	.6	12	8	628	2.24	5	5	ND	3	25	1	2	2	50	.30	.140	3	14	.28	98	.11	8	1.96	.04	.10	2	1
2S 8+00W	2	103	8	60	.5	12	9	672	2.77	3	5	ND	2	18	1	2	2	64	.21	.111	4	16	.39	95	.13	3	2.71	.04	.07	2	1
2S 7+50W	2	38	6	56	.1	9	6	518	2.18	2	5	ND	1	17	1	2	2	52	.23	.107	2	14	.28	77	.11	5	1.72	.04	.06	1	1
2S 7+00W	4	224	5	56	.5	17	10	344	2.96	8	5	ND	2	25	1	2	2	75	.28	.082	3	25	.63	96	.14	5	2.38	.05	.12	2	3
2S 6+50W	4	235	7	66	.7	20	12	406	3.61	8	5	ND	3	31	1	2	2	85	.38	.065	6	31	.69	117	.12	5	2.40	.05	.13	1	7
2S 6+00W	5	669	5	63	.9	24	17	555	5.43	7	5	ND	4	44	1	2	2	127	.47	.074	8	39	.98	126	.15	5	2.83	.04	.15	1	420
2S 5+50W	19	950	10	68	1.0	19	12	407	5.47	10	5	ND	3	32	1	3	2	113	.34	.177	6	28	.72	97	.17	6	2.89	.05	.08	3	111
2S 5+00W	1	706	6	76	.6	36	8	207	2.26	3	5	ND	1	77	1	2	2	54	1.79	.079	8	22	.48	169	.06	6	1.85	.07	.06	1	4
2S 4+50W	2	74	3	64	.3	13	9	421	2.99	5	5	ND	2	29	1	2	2	76	.39	.090	3	21	.51	110	.12	6	1.88	.05	.08	1	1
2S 4+00W	1	43	4	74	.5	12	8	469	2.64	2	5	ND	2	24	1	2	2	65	.30	.091	3	18	.38	90	.11	3	1.67	.04	.08	1	32
2S 3+50W	1	27	4	48	.4	11	8	403	2.43	2	5	ND	2	21	1	2	2	59	.27	.076	2	16	.30	70	.11	4	1.55	.04	.06	2	5
2S 3+00W	1	74	7	83	.2	19	9	291	3.28	3	5	ND	2	29	1	2	2	84	.41	.078	3	27	.53	114	.12	7	2.36	.04	.10	1	16
2S 2+50W	1	78	4	87	.3	11	8	482	2.51	4	5	ND	2	20	1	2	2	61	.30	.070	2	17	.33	104	.08	4	1.55	.04	.08	1	6
2S 2+00W	1	26	5	44	.3	9	5	462	2.33	3	5	ND	1	30	1	2	2	62	.44	.042	2	19	.33	97	.10	3	1.28	.04	.09	3	1
2S 1+50W	2	536	5	59	.8	16	12	582	3.41	7	5	ND	2	40	1	3	2	86	.85	.079	6	28	.62	163	.11	6	1.76	.05	.11	1	14
2S 1+00W	2	394	8	63	.6	21	13	706	3.82	7	5	ND	2	55	1	2	2	101	1.26	.094	7	37	.88	132	.13	5	1.99	.06	.13	2	18
2S 0+50W	1	23	8	55	.4	11	6	367	2.41	2	5	ND	2	29	1	2	2	62	.40	.057	4	20	.36	107	.12	3	1.63	.04	.09	1	1
2S BL 0+00	2	77	8	49	.5	19	11	621	3.78	8	5	ND	3	55	1	2	2	108	.86	.092	9	40	.79	105	.15	6	1.82	.06	.09	2	1
3S 8+50W	1	32	5	69	.2	11	7	691	2.25	2	5	ND	2	23	1	2	2	49	.22	.176	3	11	.26	126	.10	3	1.63	.04	.06	1	1
3S 8+00W	4	166	5	56	.5	15	11	786	3.05	2	5	ND	2	34	1	2	2	69	.49	.049	4	18	.45	137	.12	4	2.03	.05	.13	1	4
3S 7+50W	17	731	6	47	.6	22	17	545	5.26	4	5	ND	2	48	1	2	2	123	.55	.062	6	38	1.01	116	.16	4	2.36	.05	.28	6	17
3S 7+00W	11	451	7	55	.7	19	12	381	5.15	10	5	ND	2	39	1	4	2	136	.50	.084	7	33	1.08	106	.14	6	2.39	.05	.09	2	13
3S 6+50W	8	348	7	75	.3	18	10	385	3.82	9	5	ND	2	53	1	2	2	88	.42	.064	4	18	.51	134	.13	5	2.25	.05	.10	2	8
3S 6+00W	20	530	7	60	.5	12	11	245	3.88	8	5	ND	2	44	1	2	2	91	.25	.113	8	12	.89	143	.05	4	2.74	.04	.14	1	33
3S 5+50W	1	62	5	40	.1	9	5	393	1.93	2	5	ND	1	33	1	2	2	43	.54	.016	4	13	.28	64	.09	4	1.70	.06	.02	2	1
3S 5+00W	1	55	6	98	.2	14	9	392	2.94	5	5	ND	3	25	1	2	2	67	.32	.175	3	20	.42	121	.09	6	1.97	.04	.07	1	1
3S 4+50W	1	58	6	41	.1	8	6	287	2.48	2	5	ND	2	28	1	2	2	59	.70	.013	3	17	.33	65	.12	5	1.64	.06	.06	3	11
3S 4+00W	2	74	7	50	.5	15	9	416	3.50	4	5	ND	3	48	1	2	2	100	.91	.061	7	34	.65	78	.14	5	1.69	.06	.08	1	27
3S 3+50W	2	53	5	43	.4	12	8	242	3.34	5	5	ND	2	39	1	2	2	99	.53	.059	3	27	.54	64	.15	5	1.68	.05	.09	2	1
3S 3+00W	1	20	5	57	.2	11	6	338	2.32	2	5	ND	2	25	1	2	2	60	.30	.045	2	18	.34	96	.11	4	1.71	.04	.06	1	6
3S 2+50W	1	59	6	67	.2	16	11	311	3.71	4	5	ND	1	24	1	2	2	83	.31	.091	2	25	.54	72	.11	3	2.47	.04	.05	1	36
3S 2+00W	1	46	6	81	.1	13	8	404	3.03	4	5	ND	1	25	1	2	2	79	.39	.050	3	22	.44	109	.11	9	1.81	.04	.07	1	11
3S 1+50W	1	31	5	91	.3	9	6	503	2.11	5	5	ND	1	20	1	2	2	51	.28	.076	3	16	.28	123	.08	3	1.47	.04	.05	1	1
3S 1+00W	1	35	5	120	.2	9	7	463	2.82	2	5	ND	2	15	1	2	2	56	.23	.030	3	13	.53	215	.03	3	1.85	.04	.10	1	1
3S 0+50W	1	29	6	83	.1	9	6	734	2.51	2	5	ND	1	18	1	2	2	57	.31	.080	3	18	.50	194	.05	4	1.59	.04	.07	1	1
3S 0+00	1	56	7	48	.5	12	7	380	2.77	5	5	ND	3	37	1	2	2	73	.51	.063	6	26	.47	141	.11	4	1.96	.05	.12	1	1
STD C/AU-S	20	58	39	129	7.5	68	29	1045	4.11	39	21	7	39	51	19	17	22	59	.49	.093	39	62	.86	175	.08	35	1.86	.09	.15	16	47

SAMPLE#	MO PPH	CU PPH	PB PPH	ZN PPH	AG PPH	NI PPH	CO PPH	MN PPH	FE %	AS PPH	U PPH	AU PPH	TH PPH	SR PPH	CD PPH	SB PPH	BI PPH	V PPH	CA %	P %	LA PPH	CR PPH	MG %	BA PPH	TI %	B PPH	AL %	NA %	K %	W PPH	AU1 PPB
4S 8+50W	1	44	8	86	.4	11	7	933	2.24	2	5	ND	2	38	1	2	2	50	.50	.108	3	17	.30	189	.09	4	1.45	.04	.12	1	98
4S 8+00W	2	103	4	50	.2	17	13	577	3.09	4	5	ND	2	38	1	2	2	86	.52	.032	5	30	.53	89	.15	5	1.49	.05	.19	1	3
4S 7+50W	3	108	4	48	.2	12	8	310	3.35	2	5	ND	1	36	1	2	2	91	.49	.027	3	26	.52	61	.15	3	1.46	.04	.17	1	10
4S 7+00W	1	77	4	47	.7	14	8	298	3.01	2	5	ND	2	34	1	2	2	81	.43	.025	5	29	.51	69	.15	5	1.48	.05	.17	2	8
4S 6+50W	1	66	3	59	.4	17	9	366	3.18	3	5	ND	3	40	1	2	2	86	.52	.059	5	32	.56	92	.15	6	1.59	.05	.19	1	5
4S 6+00W	1	38	5	44	.3	11	7	326	2.59	4	5	ND	1	29	1	2	2	71	.41	.080	3	22	.37	70	.12	3	1.40	.04	.07	2	1
4S 5+50W	2	128	6	40	.6	14	9	286	3.48	2	5	ND	3	35	1	2	2	102	.51	.045	4	26	.65	81	.13	4	1.71	.05	.06	2	5
4S 5+00W	1	42	6	36	.2	12	6	230	2.33	2	5	ND	2	22	1	2	2	56	.36	.089	3	15	.27	69	.11	3	1.77	.04	.04	1	3
4S 4+50W	1	43	2	36	.2	12	6	177	2.46	2	5	ND	2	24	1	2	2	56	.41	.053	4	15	.32	70	.12	3	2.15	.05	.05	1	4
4S 4+00W	1	31	3	51	.6	12	7	224	2.31	3	5	ND	2	23	1	2	2	56	.31	.119	3	15	.30	64	.12	5	1.84	.05	.09	1	2
4S 3+50W	1	24	2	53	.4	10	6	331	2.24	2	5	ND	2	23	1	2	2	56	.31	.103	3	18	.29	56	.11	4	1.52	.04	.08	1	1
4S 3+00W	1	57	4	65	.1	16	11	374	3.25	3	5	ND	1	34	1	2	2	86	.43	.068	4	27	.52	100	.13	5	2.18	.04	.09	1	2
4S 2+50W	2	162	8	91	.6	16	12	703	3.47	9	5	ND	2	27	1	4	2	69	.53	.068	5	24	.62	157	.07	4	1.69	.05	.09	1	17
4S 2+00W	2	144	10	81	.5	18	10	532	3.72	12	5	ND	2	28	1	2	2	77	.42	.062	7	29	.53	121	.08	5	1.82	.04	.08	1	15
4S 1+50W	1	172	8	77	.4	13	17	616	5.86	18	5	ND	1	30	1	2	2	93	.54	.115	8	18	.86	159	.05	4	1.72	.04	.08	1	7
4S 1+00W	1	46	9	75	.5	10	7	548	2.84	2	5	ND	2	14	1	2	3	51	.24	.043	2	14	.33	147	.03	3	1.34	.03	.10	1	31
4S 0+50W	1	40	5	70	.1	11	6	336	2.55	2	5	ND	1	16	1	2	2	56	.25	.091	3	18	.38	201	.07	3	2.07	.04	.05	1	5
4S 0+00	1	66	8	49	.2	13	7	353	2.84	2	5	ND	2	37	1	2	2	77	.55	.062	7	28	.48	116	.12	4	1.67	.05	.06	1	3
5S 8+50W	1	100	5	51	.4	23	11	436	3.66	4	5	ND	2	51	1	3	2	102	.71	.065	7	46	.75	84	.17	7	1.83	.05	.14	1	5
5S 8+00W	2	38	2	83	.3	13	7	826	2.57	2	5	ND	2	34	1	2	2	65	.50	.056	4	23	.34	149	.12	7	1.42	.04	.20	1	1
5S 7+50W	1	61	5	52	.1	14	8	339	2.88	2	5	ND	1	34	1	2	2	79	.45	.028	3	28	.48	82	.14	7	1.48	.05	.11	1	12
5S 7+00W	2	358	9	76	.7	22	9	513	2.68	14	5	ND	2	42	1	2	2	56	.92	.063	7	26	.47	100	.07	4	1.77	.04	.10	1	17
5S 6+50W	2	73	5	35	.3	13	8	265	3.15	4	5	ND	2	32	1	4	2	87	.45	.041	3	23	.46	56	.13	5	1.55	.05	.06	1	5
5S 6+00W	2	91	6	54	.3	13	8	817	2.98	3	5	ND	1	31	1	2	2	83	.46	.056	3	23	.45	92	.13	3	1.64	.04	.07	1	1
5S 5+50W	1	51	2	43	.1	13	7	220	2.56	2	5	ND	1	27	1	2	2	61	.38	.118	2	18	.35	108	.12	4	1.74	.04	.07	1	1
5S 5+00W	1	91	4	40	.4	14	8	242	3.18	2	5	ND	1	28	1	4	2	85	.45	.051	2	22	.47	85	.13	5	1.84	.05	.07	2	3
5S 4+50W	1	42	3	55	.1	13	7	223	2.75	2	5	ND	1	23	1	2	2	62	.39	.095	2	19	.39	98	.13	6	2.40	.05	.10	1	2
5S 4+00W	1	44	4	43	.3	11	6	226	2.30	2	5	ND	2	23	1	2	2	52	.35	.037	4	15	.27	62	.11	5	1.97	.05	.06	1	2
5S 3+50W	1	34	4	59	.4	10	7	467	2.42	3	5	ND	2	22	1	2	2	56	.35	.061	2	15	.32	119	.10	6	1.75	.04	.10	1	2
5S 3+00W	1	15	4	49	.3	5	6	630	1.91	2	5	ND	1	14	1	2	2	38	.27	.102	2	8	.16	162	.07	2	1.46	.04	.04	1	1
5S 2+50W	1	63	2	73	.3	9	7	350	2.36	3	5	ND	1	14	1	2	2	48	.26	.029	2	13	.25	143	.06	3	1.42	.03	.06	1	5
5S 2+00W	1	113	4	85	.5	12	6	477	2.66	2	5	ND	2	26	1	2	2	51	.53	.026	5	20	.39	153	.09	8	1.99	.06	.04	1	12
5S 1+50W	1	35	4	78	.4	11	7	628	2.66	2	5	ND	2	22	1	3	2	60	.30	.077	4	18	.36	131	.08	5	1.58	.04	.09	1	10
5S 1+00W	1	104	6	48	.8	10	5	700	2.07	2	5	ND	3	32	1	4	2	44	.57	.023	9	15	.31	214	.09	4	1.96	.07	.06	1	2
5S 0+50W	1	41	4	51	.2	8	5	423	2.24	2	5	ND	1	19	1	2	2	54	.29	.124	3	17	.34	155	.07	3	1.75	.04	.04	1	3
5S 0+00	1	69	5	54	.5	14	8	401	2.97	2	5	ND	2	33	1	2	2	78	.53	.067	6	26	.49	108	.12	5	1.67	.05	.07	1	5
STD C/AU-S	19	59	40	129	7.2	71	29	1060	4.08	40	22	7	39	52	19	18	22	59	.49	.092	40	62	.86	176	.08	35	1.84	.08	.14	13	49

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE I	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA I	P I	LA PPM	CR PPM	MG I	BA PPM	TI I	B PPM	AL I	NA I	K I	W PPM	AU1 PPB
6S 8+50W	2	108	6	122	.6	14	11	488	3.41	3	5	ND	3	24	1	2	2	68	.30	.191	4	15	.38	89	.12	6	2.03	.05	.06	1	1
6S 8+00W	2	119	5	87	.4	13	9	298	2.92	5	5	ND	2	25	1	2	2	66	.33	.115	2	14	.41	79	.10	6	1.78	.05	.06	1	2
6S 7+50W	1	50	5	45	.2	9	7	305	2.58	2	5	ND	2	19	1	2	2	60	.25	.076	2	11	.26	76	.11	6	1.49	.04	.04	3	1
6S 7+00W	2	126	5	48	.3	14	9	246	2.96	2	5	ND	2	29	1	2	2	71	.35	.040	2	16	.42	80	.12	5	1.99	.05	.06	2	21
6S 6+50W	9	204	5	55	.4	33	14	436	4.42	4	5	ND	2	31	1	2	2	89	.42	.042	3	37	.54	114	.09	5	2.06	.04	.14	1	18
6S 6+00W	3	191	7	60	.3	17	11	241	3.23	2	5	ND	1	30	1	2	2	73	.40	.058	2	19	.57	172	.10	3	2.55	.04	.08	1	29
6S 5+50W	1	56	3	57	.6	7	6	314	2.11	2	5	ND	3	18	1	2	2	41	.27	.059	2	7	.26	109	.05	5	1.84	.05	.09	1	1
6S 5+00W	1	58	5	57	.4	15	8	272	3.04	3	5	ND	2	25	1	2	2	73	.34	.079	2	18	.42	94	.13	5	2.17	.05	.06	1	14
6S 4+50W	1	46	6	53	.3	13	8	186	3.02	2	5	ND	2	26	1	2	2	73	.34	.050	2	18	.44	108	.12	3	2.31	.04	.06	1	10
6S 4+00W	1	36	4	49	.2	9	9	214	3.03	2	5	ND	2	23	1	2	2	64	.33	.022	2	13	.48	147	.08	4	2.26	.04	.07	1	78
6S 3+50W	1	16	4	67	.1	8	7	694	2.66	2	5	ND	2	24	1	2	2	59	.30	.024	2	11	.43	127	.10	2	2.05	.04	.07	1	11
6S 3+00W	1	28	5	85	.4	7	6	402	2.62	2	5	ND	2	20	1	2	2	52	.34	.025	3	11	.36	137	.06	2	1.83	.04	.07	1	15
6S 2+50W	1	31	3	67	.3	8	6	371	2.64	3	5	ND	1	21	1	2	2	65	.35	.057	2	16	.43	103	.09	3	1.37	.04	.05	1	14
6S 2+00W	1	31	7	83	.3	9	6	486	2.55	2	5	ND	2	25	1	2	2	60	.46	.025	3	15	.42	130	.09	2	1.82	.05	.04	1	9
6S 1+50W	1	43	4	91	.6	9	6	520	2.41	2	5	ND	2	26	1	2	2	52	.53	.028	5	13	.35	141	.09	3	2.00	.05	.06	1	8
6S 1+00W	1	35	5	60	.4	9	5	302	2.27	2	5	ND	3	25	1	2	2	48	.45	.023	5	14	.32	261	.09	2	2.25	.05	.06	1	9
6S 0+50W	1	29	5	55	.2	10	6	461	2.41	2	5	ND	2	20	1	2	2	52	.29	.086	3	16	.28	116	.10	2	1.89	.04	.05	1	2
6S 0+00	1	30	3	51	.3	9	5	301	2.22	2	5	ND	2	23	1	2	2	52	.40	.085	3	14	.27	98	.10	4	1.65	.04	.05	1	5
STD C/AU-S	19	57	37	134	7.6	68	28	1054	4.22	40	19	7	40	51	18	17	19	58	.51	.089	38	61	.89	180	.08	32	1.93	.08	.16	12	52

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	HG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU# PPB
K 101	13	551	2	32	.9	22	23	528	5.80	11	5	ND	3	39	1	2	2	108	1.78	.121	3	36	1.35	48	.17	6	1.24	.08	.10	3	36
K 102	2	32	2	33	.2	8	12	866	4.19	2	5	ND	1	81	1	2	2	56	7.51	.073	3	1	2.23	137	.01	8	.76	.01	.15	1	1
K 103	84	840	11	37	.9	8	10	220	9.49	13	5	ND	3	51	1	2	2	68	.64	.145	7	17	.77	29	.17	3	1.40	.09	.09	5	16
K 104	9	1098	20	16	.3	10	17	140	4.61	2	5	ND	2	148	1	2	2	104	1.65	.092	3	17	1.59	42	.10	6	2.06	.12	.21	2	45
K 105	5	589	5	34	.4	19	16	498	4.69	5	5	ND	2	79	1	3	2	118	3.29	.125	5	48	1.60	65	.13	4	1.35	.05	.16	5	15
K 106	331	7084	7	71	3.1	12	11	463	3.65	7	5	ND	2	34	1	2	2	152	3.16	.096	6	16	1.68	39	.24	13	2.44	.10	.09	4	149
K 107	1	3823	6	89	2.6	24	18	654	5.28	12	5	ND	2	30	1	2	2	226	1.29	.094	3	43	2.64	132	.33	3	2.08	.08	.12	1	210
K 108	5	772	9	120	1.2	21	15	1321	6.77	18	5	ND	2	26	1	2	2	229	.92	.110	3	33	2.29	191	.31	4	2.39	.08	.12	2	46
K 109	3	104	6	56	.4	11	8	448	5.56	8	5	ND	1	86	1	2	2	110	1.37	.102	2	21	1.63	84	.16	2	3.37	.05	.15	2	164
STD C/AU-R	22	63	43	132	7.2	69	30	1070	4.15	41	21	8	40	52	19	15	22	59	.50	.080	40	60	.87	189	.06	37	1.89	.08	.14	14	510

APPENDIS C. ROCK SAMPLE DESCRIPTIONS.

<u>SAMPLE</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>
K0101	L7S 6+50W	50'Chip	End of road-trench, pyritic andesite and andesitic tuff.
K0102	L7S 6+50W	Select	2" quartz and carbonate vein.
K0103	L4S 8+00W	10'Chip	>10% pyrite in andesite and microdiorite
K0104	Main Camp	Select	NQ core, andesitic volc. with <5% veinlets.
K0105	Main Camp	Select	Split BQ core, andesitic volc.
K0106	L0 5+00W	Select	Copper stained volcanics.
K0107	L2S 1+50W	10'Chip	Malachite stained andesitic volc.
K0108	L2S 1+75W	10'Chip	Rusty andesite no visible mal.
K0109	L2S 1+25W	Select	Py coated fractures & minor veinlets in 8" rock sample.