84-#765 - 13083
4/95

GEOLOGICAL AND GEOPHYSICAL REPORT

RICH 1 MINERAL CLAIM

Latitude 57°00' North
Longitude 126°42' West

N.T.S. 94E/2

OMINECA MINING DIVISION

British Columbia

for

GOLDEN RULE RESOURCES LTD.

Calgary, Alberta

by

Gordon L. Wilson, B.Sc.

TAIGA CONSULTANTS LTD.
#100, 1300 - 8th Street S.W.
Calgary, Alberta T2R 1B2

February 1984

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,083

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## AUTHOR'S QUALIFICATIONS

I, Gordon L. Wilson, of 60 Ranchridge Road N.W. in the City of Calgary in the Province of Alberta, do hereby certify that:

1. I am a Project Geologist with the firm of Taiga Consultants Ltd. whose offices are located at Suite 100, 1300 - 8th St. S.W., Calgary, Alberta.

2. I am a graduate of the University of Calgary, B.Sc. Geology (1977).

3. I have worked in the field of mineral exploration since 1973.

4. I have personally worked on the Rich claims during the period from September 4 to 6, 1983.

5. I have not received nor do I expect to receive any interest, directly or indirectly, in the properties described herein nor in the securities of Golden Rule Resources Ltd., in respect of services rendered in the preparation of this report.

DATED at Calgary, Alberta, this 29th day of March, A.D. 1984.

Respectfully submitted,

Gordon L. Wilson

Gordon L. Wilson, B.Sc.

## CERTIFICATE

I, Ronald Kort Netolitzky, of 74 Wildwood Drive S.W. in the City of Calgary in the Province of Alberta, do hereby certify that:

1. I am a consulting geologist with the firm of Taiga Consultants Ltd., whose offices are located at Suite 100, 1300 - 8th Street S.W., Calgary, Alberta.

2. I am a graduate of the University of Alberta, B.Sc. Geology (1964), and of the University of Calgary, M.Sc. Geology (1967).

3. I have practised my profession continuously since 1967.

4. I am a member in good standing of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.

5. I have personally directed the exploration work carried out on the Rich claims and described herein, during September 1983.

6. Other than owning shares of and being a director and officer in Golden Rule Resources Ltd., I did not and do not expect to receive any interest, directly or indirectly, in the property described herein or in the securities of Golden Rule Resources Ltd. in respect of services rendered in the preparation of this report.

DATED at Calgary, Alberta, this 29th day of March, A.D. 1984.

PERMIT TO PRACTICE
TAIGA CONSULTANTS LTD.
Signature
Date
PERMIT NUMBER: P 2399
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

Respectfully submitted,

PROFESSIONAL GEOLOGIST ALBERTA
R. K. NETOLITZKY

Ronald Kort Netolitzky, M.Sc., P.Geol.

## SUMMARY

Reconnaissance stream sediment sampling on the Rich 1 claim has identified two zones producing anomalous Au-in-sediment values in the west-central area of the claim, and one highly anomalous Au-in-sediment location just west of the claim.

Geological mapping and prospecting have delineated a semi-continuous zone of secondary shearing cutting the above-mentioned areas. Silicification is generally moderate throughout and has passed into an irregular weak vein development phase on the feature's western extremity. Here, narrow quartz-carbonate stringers were noted.

# INTRODUCTION

## Location and Access

The Rich 1 mineral claim is located in N.T.S. 94E/2W, approximately 455 km northwest of Prince George, British Columbia (Figure 1), and 12.5 km east of the confluence of the Finlay and Firesteel Rivers. The approximate geographic coordinates of the claim are 57°09' North latitude and 126°42' West longitude (Figure 3). The claim is normally accessible only by helicopter. The claim is located in the Omineca Mining Division.

## Property and Ownership

The 16-unit Rich 1 claim was recorder under Number 2709 on April 8, 1980, in the name of Golden Rule Resources Ltd. of Calgary, Alberta.

## Physiography and Glaciation

The claim lies within the Cassiar Mountains physiographic subdivision of the Interior Plateau. The region is entirely glaciated and is characterized by wide U-shaped, drift-filled major valleys and deeply-cut V-shaped upland valleys. Mountain peaks average 1980 m ASL and rise fairly abruptly from the major valleys.

The Rich claim is located over the end of a northerly trending ridge spur which forms part of the range containing Giegerich Peak. The land is drained by several northerly flowing tributaries of an unnamed creek which flows directly into Finlay River. Elevations within the claim area range from 1585 m± to 1890 m± ASL.

## 1983 Exploration

Work carried out in 1983 consisted of helicopter-supported geological mapping, prospecting, and geochemical sampling.

In September 1983, semi-reconnaissance geological mapping, prospecting, and stream sediment sampling were carried out by a two-person crew based at the Saunders Creek camp. A total of 93 sediment samples and 14 rock samples were collected and submitted for analyses.

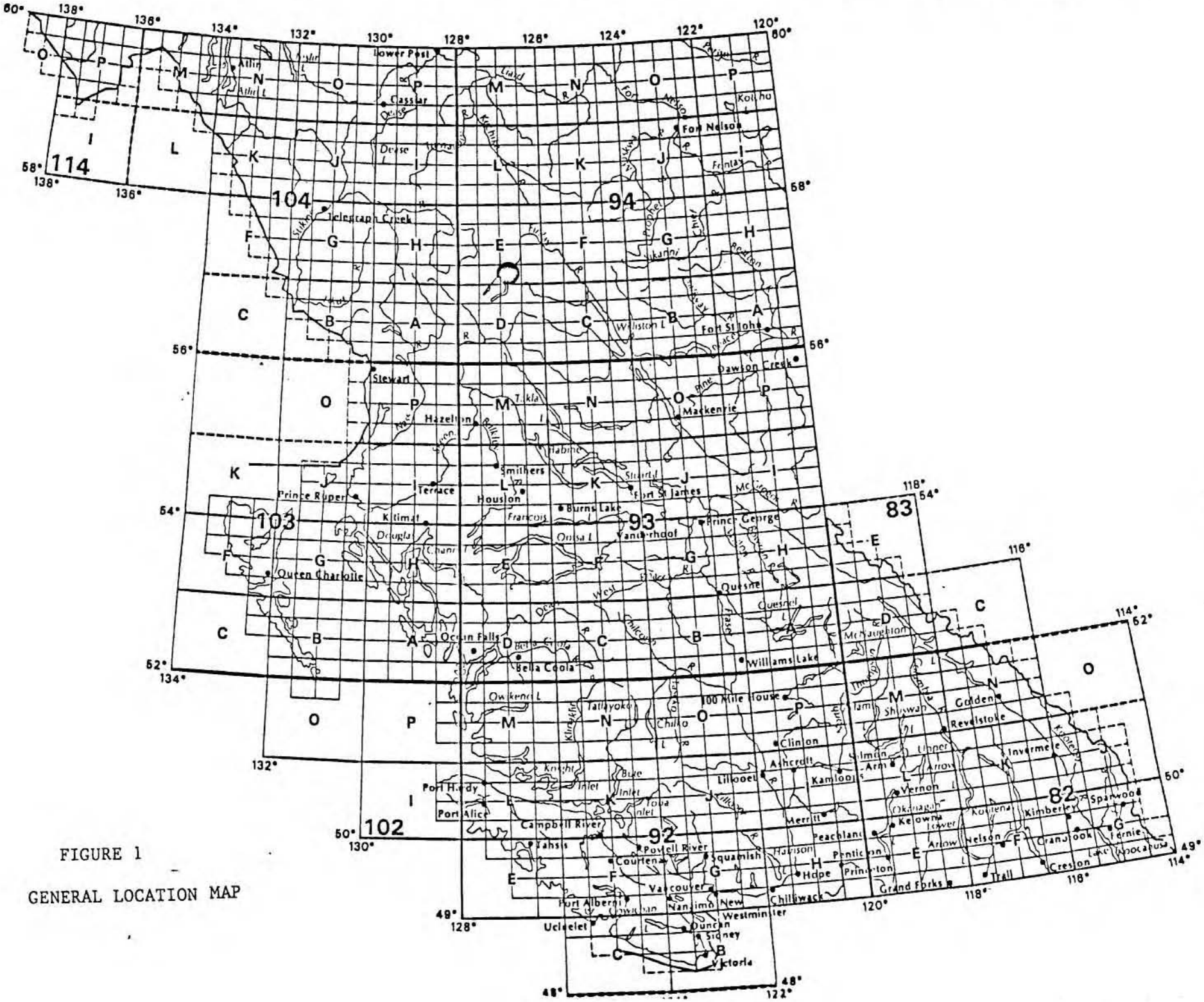
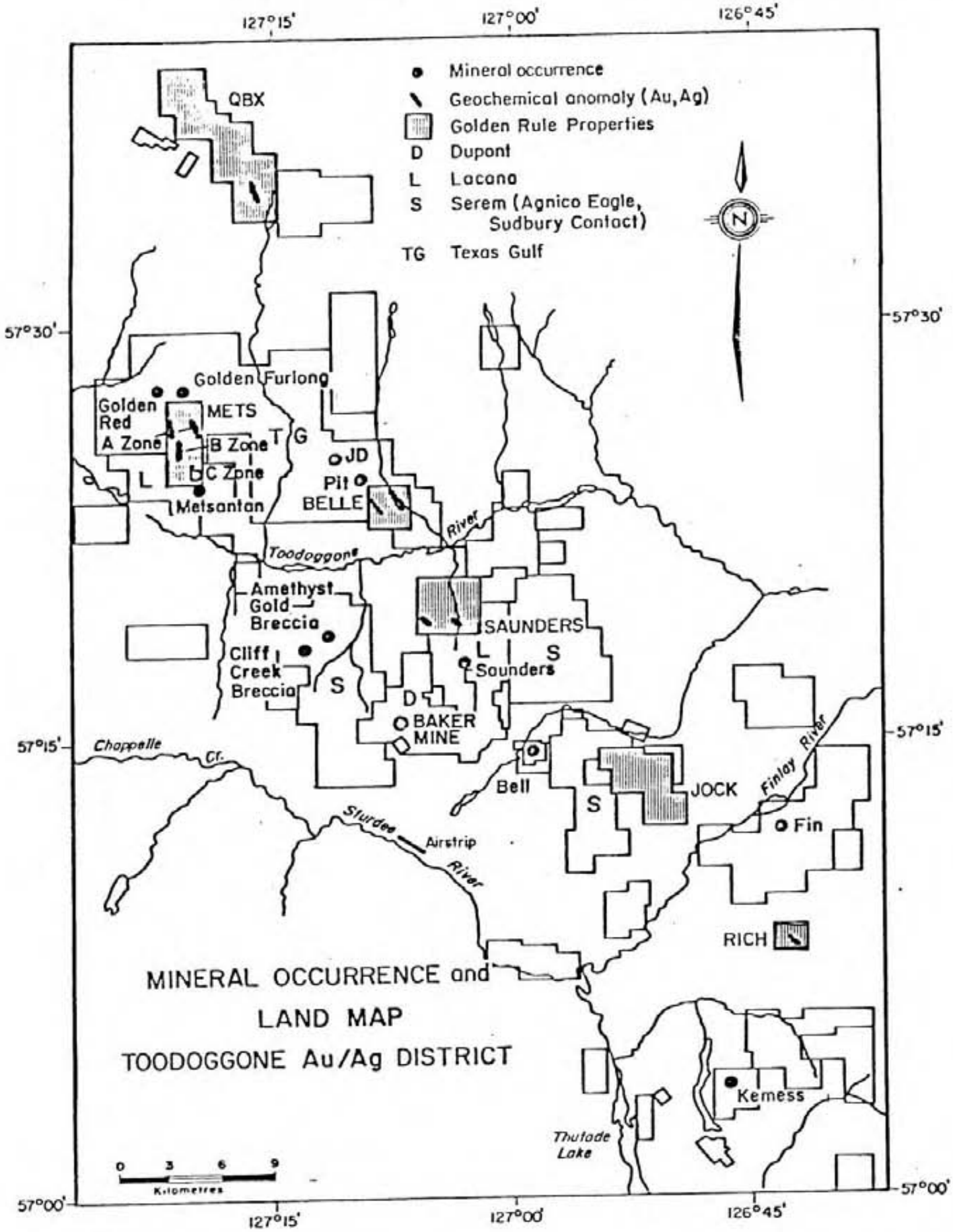
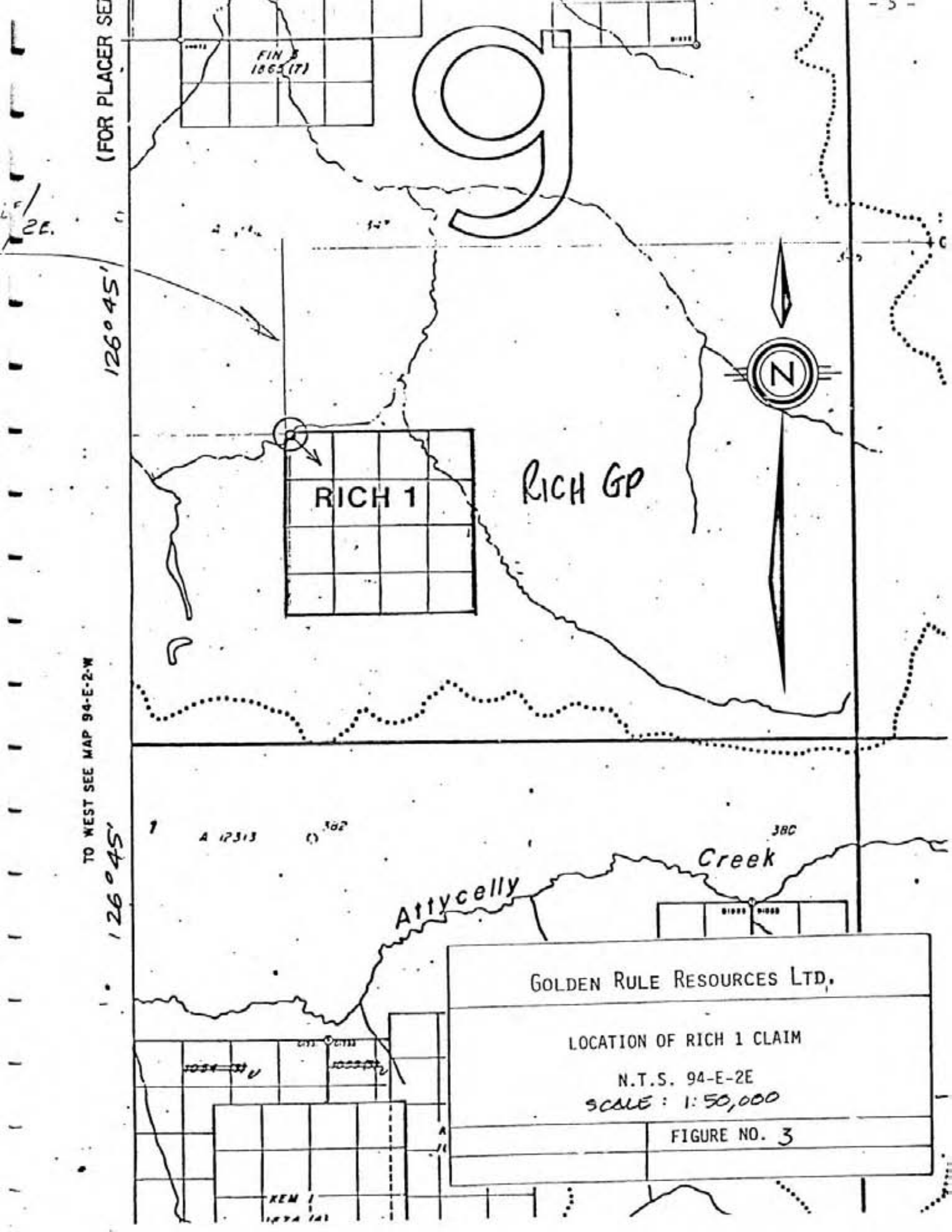



FIGURE 1

GENERAL LOCATION MAP




MINERAL OCCURRENCE and LAND MAP
TOODOGGONE Au/Ag DISTRICT

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LOCATION OF RICH 1 CLAIM

N.T.S. 94-E-2E

SCALE : 1:50,000

FIGURE NO. 3

## REGIONAL GEOLOGY

The claim is underlain by intermediate to acidic volcanic rocks of the Lower Jurassic Toodoggone Formation. The Toodoggone volcanics form a belt 5 - 20 km wide and 100+ km long which is currently the focus of intense precious metal exploration. The belt hosts the Baker deposit, currently being mined by DuPont of Canada Ltd., and another potentially economic deposit known as the Amethyst-Gold Breccia Zone, currently being explored by Serem Ltd.

Four principal subdivisions of the Toodoggone Formation are now recognized. The following descriptions of these subdivisions are excerpted from B.C. Ministry of Mines Paper 1981-1, p.128, by T. G. Schroeter.

Lower Volcanic Division. This is dominantly a pyroclastic assemblage including purple agglomerate and grey-to-purple dacitic tuffs.

Middle Volcanic Division. This is an acidic assemblage including rhyolites, dacites, 'orange' crystal to lithic tuffs, and quartz feldspar porphyries. It includes welded tuff. The 'orange' colour of the tuffs resulted from oxidation of the fine-grained matrix while the rock was still hot. A coeval period of explosive volcanism included the formation of 'laharic' units and intrusion of syenomonzonite bodies and dykes. This event was accompanied by explosive brecciation along zones of weakness, predominantly large-scale faults and attendant splays, followed by silicification and deposition of precious and base metals to varying degrees in the breccias. Rounded fragments of Omineca intrusive rocks are rare components in Toodoggone tuffs.

Upper Volcanic - Intrusive Division. This division consists of grey to green to maroon crystal tuffs and quartz-eye feldspar porphyries.

Upper Volcanic - Sedimentary Division. This division consists of lacustrine sedimentary rocks (sometimes varved), stream bed deposits, and possible local fanglomerate deposits and interbedded tuff beds.

## PROPERTY GEOLOGY

Semi-reconnaissance mapping was carried out on the property and is presented at a scale of 1:10,000 (Map 1). Areas previously mapped were re-examined initially, and then more remote areas were worked into.

All rocks noted on the property belong to or are variations of the Middle Volcanic Division of the Toodoggone Formation. The north-south trending ridge situated in the western half of the claim is underlain by a flat-lying quartz-feldspar porphyry flow with a distinct very fine-grained purple groundmass. This unit is mappable in outcrop for 300 metres to the east of the ridge, and forms a continuous belt extending from the centre of the claim to 400 metres south.

Underlying this unit is a grey feldspar-hornblende porphyry flow which occurs in outcrop in the southwestern and northwestern corners of the claim. This is a medium-grained, generally moderately chlorite- and epidote-altered porphyry which is cut by several narrow purple andesitic dykes and irregular masses. Associated with these dykes are zones of intense fracturing which contain quartz and carbonate infilling material.

Both these units are cut by a series of weak shear zones, generally trending 96-98$^{o}$ with vertical dips. These are usually associated with small-scale faulting on attendant splay faulting, are highly brecciated, and show moderate to intense silicification through the core and along fractures. Quartz-calcite seams to 2.5 cm wide cut the zones irregularly. Chlorite-epidote alteration of the country rock is generally moderate, with a significant increase in epidote through the zone.

The most notable structural feature on the property is a well developed zone of secondary shearing trending 96$^{o}$ cutting the central part of the claim. It is traceable for roughly 700 metres, and consists of a 25-metre wide zone of moderately crushed and brecciated material, silicified to varying degrees, and marked by carbonate stringers and seams to 3 cm. No mineralization was noted.

## GEOCHEMISTRY

### Sampling and Analytical Techniques

A total of 93 stream sediment samples and 14 rock samples were collected during the program. The sediment samples were air-dried; all samples were sent to TerraMin Research Labs Ltd. in Calgary, Alberta, for analysis of Au and Ag content. Au-in-rock analyses were carried out by a combined fire assay and atomic absorption technique. Au- and Ag-in-sediment analyses were performed by standard (wet) atomic absorption procedure.

### Results

Statistical analysis of data sets was impractical due to the small sample population. However, utilizing thresholds derived from sampling previously carried out on other Toodoggone properties, anomalous levels are considered:

| | Threshold | Anomalous |
|---|---|---|
| Au-in-rock | 30 ppb | 50 ppb |
| Ag-in-rock | 1400 ppb | 1800 ppb |
| Au-in-sediment | 40 ppb | 75 ppb |
| Ag-in-sediment | 1200 ppb | 2000 ppb |

No anomalous Au-in-rock values were obtained. One marginally anomalous Ag-in-rock value (1500 ppb) occurred at station GW-9. Anomalous Ag-in-sediment occurred only at GW-10 (13,300 ppb Ag). Anomalous and above-threshold Au-in-sediment values occurred at:

| | |
|---|---|
| GW-23 | 184 ppb Au |
| GW-21 | 1720 ppb Au |
| GW-11 | 280 ppb Au |
| MOS-28 | 34 ppb Au |
| MOS-29 | 744 ppb Au |
| MOS-30 | 32 ppb Au |
| MOS-32 | 122 ppb Au |
| MOS-34 | 32 ppb Au |

Prospecting and geological mapping in these areas failed to adequately identify the source of mineralization. However, it appears that a possible

source for GW-9, GW-23, GW-21, and GW-11 is in an area in the south-central part of the property. These samples were collected adjacent and downslope from a zone of strong northwesterly-trending fracturing and shearing which can be seen in rock exposures along the ridge. This fault-controlled feature carries quartz-carbonate seams, weakly mineralized with malachite, pyrite, and specularite. Sediment sample GW-10 is near the western extension of a major zone of secondary shearing which contains seams and veins of quartz-calcite material. No mineralization was noted.

Locations MOS-28, 29, and 30 were collected at 100 metre intervals along a stream draining the central part of the Rich claim. All three samples were collected from the upper reaches of the stream, in an area underlain by the feldspar porphyry member of the Toodoggone Formation. Approximately 200 metres north is a westerly trending zone of secondary shearing, hosting calcite and quartz-carbonate seams. No visible mineralization was noted in the two nearby exposures that were examined.

Locations MOS-32 and 34 were collected from two streams draining the west-central part of the claim, approximately 450 metres downslope from an exposure consisting of highly fractured and moderately epidotized and chloritized feldspar porphyry. Primary fracture sets trend S140°E and dip 65°S, and are very rusty. No visible sulphides were noted, and two chip samples taken over two-metre intervals across the zone failed to return values in Au or Ag.

Approximately 200 metres to the northeast from MOS-32 is the western extremity of the westerly trending shear zone discussed above. Several fractures noted in the nearest exposure carry very weak pyrite mineralization.

## CONCLUSIONS AND RECOMMENDATIONS

Reconnaissance stream sediment sampling carried out on the property has identified several anomalous and marginally anomalous Au-in-sediment values. Detailed evaluation of these anomalies and other existing anomalies has identified two possible source areas. Both areas are marked by strong fracture and shear systems, each containing a number of silicified, very weakly mineralized fractures.

A limited amount of follow-up sampling and mapping should be carried out to fully evaluate the zones of interest. Work required would involve detailed rock and soil (talus fines) geochemistry over the anomalies, and further geological and structural investigations along each fracture system.

## BIBLIOGRAPHY

Fox, M. (1982): Geological, Geochemical, and Geophysical Report, Rich 1 Mineral Claim, Omineca Mining Division (assessment report for Golden Rule Resources Ltd.)

Schroeter, T.G. (1981): "Toodoggone River 94E" in BCDM Paper 1981-1, pp.124-131

# A P P E N D I X  I

## Analytical Techniques

TERRAMIN RESEARCH LABS LTD.
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(403) 276-8668

GOLDEN RULE RESOURCES

## SAMPLE PREPARATION

Soil and sediment samples are dried and sieved to -80 mesh (approx. 200 micron).

Rock Samples:

The entire sample is crushed to approx. 1/8" maximum, and split divided to obtain a representative protion which is pulverized to -200 mesh (approx 90 micron).

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## ANALYTICAL METHOD FOR GOLD AND SILVER

Approximately 1 assay ton of prepared sample is fused with a litharge/flux charge to obtain a lead button. The lead button is cupelled to obtain a prill. The prill is dissolved in nitric/hydrochloric acids (aqua regia), and the resulting solution is analysed by atomic absorption spectroscopy.

# A P P E N D I X  I I

## Geochemical Analyses

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# ANALYTICAL REPORT

Job # 83-332 Date

Client Project GR-BC-7 Page 5

| Sample No. Rock | Au ppb | Ag ppb |
|---|---|---|
| GW-M-11 | 6 | 270 |
| 12 | 4 | 260 |
| 13 | 2 | 200 |
| GW-R-01 | -2 | 230 |
| 02 | -2 | 180 |
| 03 | 2 | 190 |
| 04 | 4 | 210 |
| 07 | 8 | 1210 |
| 07 (1) | 14 | 1230 |
| 07 (2) | 14 | 650 |
| 08 | 24 | 340 |
| 09 | 16 | 1500 |
| 10 | 72 | 490 |
| 11 | 4 | 200 |
| GW-S-01 | 6 | 270 |
| 02 | 6 | 320 |
| 03 | 6 | 950 |
| GW SERCC | 12 | 1200 |
| RMR1 | 2 | 190 |
| RMR2 | -2 | 260 |
| SR-MR-1 | 2 | 230 |
| SR-MR-2 | 8 | 190 |
| L 3+50 N 13+00 E | 6 | 250 |
| L 8+50 N 12+25 E | 8 | 750 |
| L 8+75 N 12+25 E | 72 | 2900 |

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# ANALYTICAL REPORT

Job # 83-332

Date

Client Project GR-BC-7



| Sample No. Soil | Au ppb | Ag ppb |
|---|---|---|
| GW-R-S-01 | 10 | 200 |
| 02 | I.S. | |
| 03 | 10 | 350 |
| 04 | 8 | 190 |
| 05 | 16 | 550 |
| 06 | 8 | 360 |
| 07 | 30 | 1400 |
| 08 | 56 | 1750 |
| 09 | 72 | 780 |
| 10 | 58 | 13300 |
| 11 | 280 | 450 |
| 12 | 16 | 680 |
| 13 | 10 | 200 |
| 14 (1) ? | 24 | 240 |
| ~~14 (2) ?~~ | -25 | 380 |
| 15 | 12 | 360 |
| 16 | -16 | 300 |
| 17 | 76 | 200 |
| 18 | 26 | 200 |
| 20 | 26 | 140 |
| 21 | 1820 | 610 |
| 22 | 76 | 570 |
| 23 | 184 | 440 |
| 24 | 22 | 560 |
| RGB-J 4+00 E 0+12.5 S | 8 | 230 |

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# ANALYTICAL REPORT

Job # 83-332

Date

Client Project GR-BC-7



| Sample No. Soil | | | Au ppb | Ag ppb |
|---|---|---|---|---|
| RGB-J | 32-25 E | 0+12.5 N | 16 | 880 |
| | 39+25 E | 0+12.5 N | 14 | 680 |
| | | 0+00 | 8 | 390 |
| | | 0+12.5 S | 8 | 540 |
| | 43+25 E | 0+12.5 N | 24 | 1110 |
| | | 0+00 | 28 | 1440 |
| | | 12.5 S | 12 | 1910 |
| | 44+00 E | 0+12.5 N | 8 | 720 |
| | | 0+00 | 12 | 700 |
| | | 12.5 S | -2 | 590 |
| | 44+25 E | 0+12.5 N | 8 | 870 |
| | | 0+00 | -8 | 760 |
| | | 0+12.5 S | 24 | 520 |
| RM | 0+25 W | 0+25 N | 4 | 200 |
| | | 0+00 | 8 | 160 |
| | | 0+25 S | 2 | 170 |
| | 0+00 | 0+25 N | 8 | 220 |
| | | 0+25 S | 4 | 180 |
| | 0+25 E | 0+25 N | 12 | 200 |
| | | 0+00 | 20 | 200 |
| | | 0+25 S | 16 | 130 |
| | S+0 | | 12 | 240 |
| | S+1 | | 8 | 260 |
| | S+2 | ( TN 19) | 2 | 160 |
| | S+3 | | 4 | 240 |

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# ANALYTICAL REPORT

Job # 83-332

Date

Client Project GR-BC-7

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| Soil | Sample No. | Au ppb | Ag ppb |
|---|---|---|---|
| RM | S+4 | 8 | 270 |
| | S+5 | 4 | 440 |
| | S+5+35 | 8 | 2100 |
| | S+6 | 8 | 280 |
| | S+7 | 6 | 300 |
| | S+7 | 16 | 640 |
| | S+8 | 8 | 1360 |
| | 58 7 | 8 | 290 |
| | S+9 | 12 | 440 |
| | S+10 | 24 | 290 |
| | S+11 | -10 | 680 |
| | S+12 | -14 | 400 |
| | S+13 | 8 | 200 |
| | S+14 | -8 | 160 |
| | S+15 | -8 | 160 |
| | S+16 | -8 | 200 |
| | S+17 | -8 | 360 |
| | S+18 | -8 | 440 |
| | S+19 | 104 | 320 |
| | S+20 | -10 | 300 |
| | S+21 | -10 | 210 |
| | S+22 | -20 | 300 |
| | S+23 | 24 | 650 |
| | S+24 | 8 | 200 |
| | S+25 | 8 | 180 |

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# ANALYTICAL REPORT

Job # 83-332 Date

Client Project GR-BC-7 Page 12

| Soil | Sample No. | Au ppb | Ag ppb |
|---|---|---|---|
| RM | S+26 | 4 | 160 |
| | S+27 | -2 | 120 |
| | S+28 | 34 | 440 |
| | S+29 | 744 | 920 |
| | S+30 | 32 | 970 |
| | S+31 | 16 | 270 |
| | S+32 | 122 | 370 |
| | S+33 | 8 | 240 |
| | S+34 | 32 | 120 |
| | S+35 | 8 | 160 |
| | RMS 36 | 30 | 390 |
| | 37 | 8 | 380 |
| | 38 | 14 | 760 |
| | 39 | 18 | 1600 |
| | 40 | 32 | 1640 |
| | 41 | 8 | 640 |
| | 42 | 12 | 1060 |
| | 43 | 14 | 850 |
| | 43 a | 28 | 1140 |
| | 44 | 20 | 170 |
| | 45 | 16 | 720 |
| | 557 ? | 32 | 600 |
| | S-M-St-1 | 4 | 40 |
| | 2 | 4 | 80 |
| | 3 | 4 | 60 |

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Job # 83-332

Date

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| Sample No. Soil | Au ppb | Ag ppb |
|---|---|---|
| S-M-S-4 | 8 | 280 |
| SRM 5 | 8 | 80 |
| SRM St 6 | 2 | 50 |

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Rich

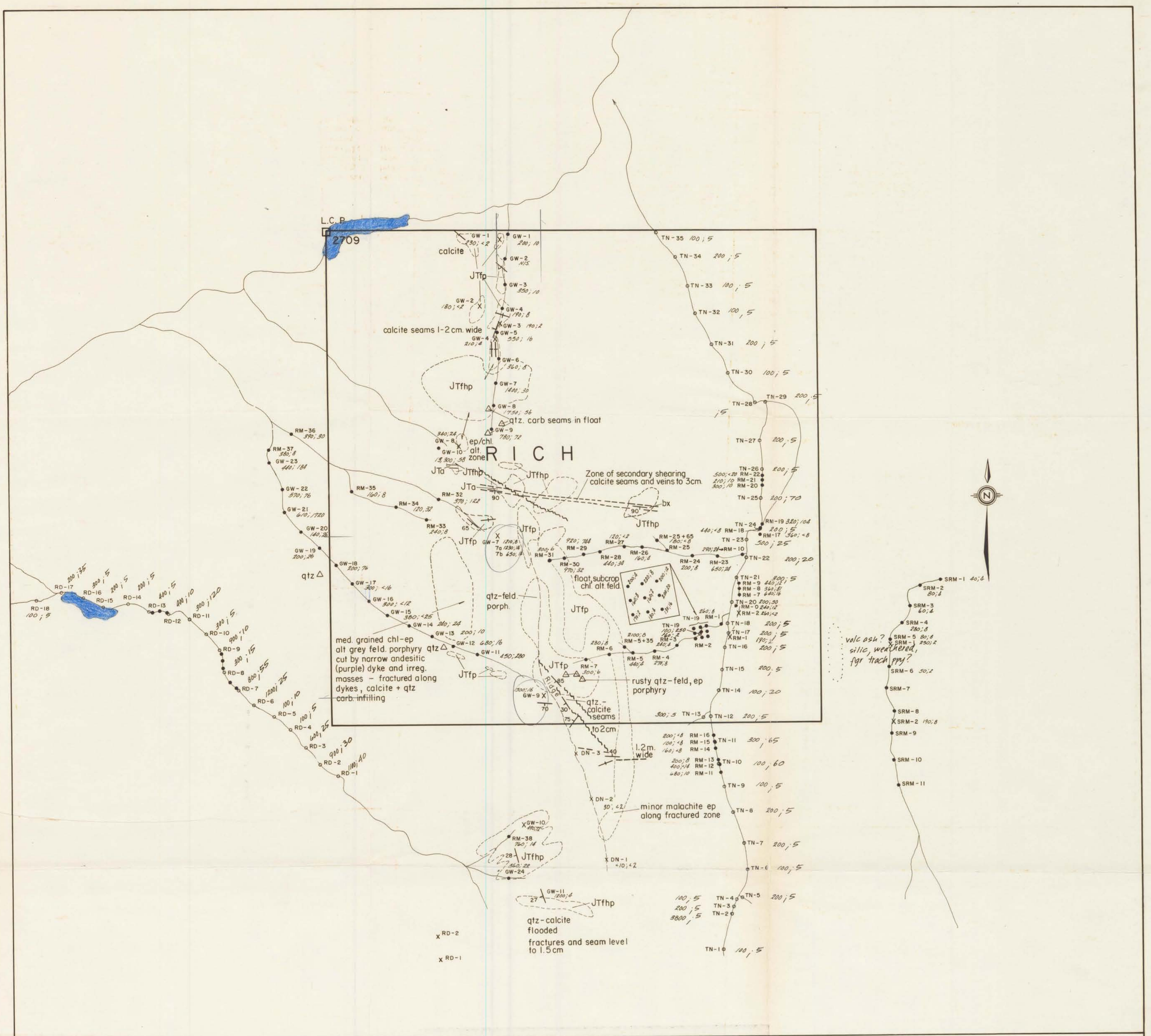
## SUMMARY OF EXPENDITURES

| | | | | |
|---|---|---|---|---|
| PERSONNEL | | | | |
| G. Wilson | Sep. 4-6 | 3 days @ $250 | 750.00 | |
| M. O'Donnell | Sep. 4-6 | 3 days @ $130 | 390.00 | |
| | | 6 man days | | 1,140.00 |
| CAMP AND ACCOMMODATION | | 6 man days @ $34.00 | | 204.00 |
| TRAVEL EXPENSES | | 6 man days @ $13.71 | | 82.26 |
| FUEL | | 6 man days @ $ 1.96 | | 11.76 |
| EXPEDITING | | 6 man days @ $ 3.87 | | 23.22 |
| COURIER AND FREIGHT | | 6 man days @ $ 5.91 | | 35.46 |
| DISPOSABLE SUPPLIES | | 6 man days @ $ 5.25 | | 31.50 |
| MISCELLANEOUS | | 6 man days @ $ 2.98 | | 17.88 |
| HANDLING CHARGES | | 6 man days @ $ 4.52 | | 27.12 |
| TRANSPORTATION | | 6 man days @ $14.34 | | 86.04 |
| EQUIPMENT RENTALS | | 6 man days @ $11.58 | | 69.48 |
| FIXED-WING SUPPORT | | 6 man days @ $23.20 | | 139.20 |
| HELICOPTER | | | | |
| Sep. 4 | 0.90 hour | | 511.20 | |
| Sep. 5 | 0.75 hour | | 426.00 | |
| Sep. 6 | 0.90 hour | | 511.20 | |
| | 2.55 hours | | | 1,448.40 |
| GEOCHEMICAL ANALYSES | | | | |
| 93 soil samples @ $8.60/each | | | 799.80 | |
| 14 rock samples @ $8.57/each | | | 119.98 | 919.78 |
| POST-FIELD | data plotting | | 500.00 | |
| | drafting | | 217.00 | |
| | secretarial | | 42.00 | |
| | reproductions | | 59.00 | 818.00 |
| | | | | $ 5,054.10 |

## SCHEDULE A - PRO RATA COSTS

Exlusive of Personnel charges, Camp & Accommodation, Helicopter Support, and Post-Field Expenses (which are direct costs), all other costs are applied on a pro rata basis to the various claim blocks using a per-man-day formula (the entire project required 297 man days).

| | Project Gross | Per Man Day |
|---|---|---|
| TRAVEL EXPENSES | 4,073.06 | 13.71 |
| FUEL | 581.15 | 1.96 |
| EXPEDITING | 1,150.00 | 3.87 |
| COURIER AND FREIGHT | 1,754.90 | 5.91 |
| DISPOSABLE SUPPLIES | 1,557.91 | 5.25 |
| MISCELLANEOUS: telephone, photocopying, maps, contract drafting (land update) | 887.00 | 2.98 |
| HANDLING CHARGES on third-party expenses | 1,344.56 | 4.52 |
| TRANSPORTATION<br>4x4 truck and 3/4-ton van | 4,260.00 | 14.34 |
| EQUIPMENT RENTALS<br>two SBX-11 transceiver radios<br>one Geonics VLF-EM-16<br>one proton magnetometer / base station | 3,440.00 | 11.58 |
| FIXED-WING SUPPORT | 6,892.48 | 23.20 |
| | $ 25,941.06 | $ 87.33 |




LEGEND

Toodoggone Formation

JTfp Lower Jurassic volcanic rocks, undifferentiated; includes green-purple porphyritic trachyandesitic and andesitic flow rocks and crystal tuffs

JTfhp Hornblende porphyry

1982 Program

o Silt sample site Ag (ppb); Au (ppb)

x Rock sample site Ag (ppb); Au (ppb)

1983 Program

• Silt sample site Ag (ppb); Au (ppb)

x Rock sample site Ag (ppb); Au (ppb)

△ float rock

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CHAPPELLE PROJECT

| | |
|---|---|
| MAP I - GEOLOGY AND PROSPECTING MAP | RICH CLAIM |
| PROJECT GR-BC-7 | MARCH, 1982 |
| SCALE 1: 10,000 | 0 100 200 300 400 500 METRES |

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