

ASSESSMENT REPORT
MAGNETOMETER SURVEY

GOLDEN ROD, GOLDEN ROD #2

NTS 92F/10W^E
Lat.: 49° 44' N
Long.: 124° 34' W

Owner: E. Johanson
General Delivery,
Vananda, B. C.

Operator: Rhyolite Resources Inc.
Box 31, R. R. #1,
Black Point Road,
Powell River, B. C.

R. Wares

December, 1983

Powell River, B. C.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

11,626



SUMMARY

A 2.85 km. magnetometer survey was conducted in the Golden Rod and Golden Rod #2 claims, near Priest Lake, Texada Island, in the Nanaimo Mining Division.

The objective of the survey was to define possible alteration patterns around and along two well developed fault linears. One of these linears, the Golden Rod fault zone, has thin pyritic replacement zones at the flanks of a microdiorite dyke, emplaced along the fault zone. Previous prospecting had delineated variable gold values.

The survey showed a broad pattern similar to the known geology. The geology consists of an eastern and western domain with coarse volcanic breccias and a central wedge of finer volcanoclastic debris.

The linears were marked by narrow lows. Several unexplained magnetic lows should be followed up by soil sampling and physical trenching. Likewise, portions of the linears should be examined further.



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1. General Information:

1:1 Location: -

The Golden Rod and Golden Rod #2 claims are located on Texada Island, in the Nanaimo Mining Division (NTS 92F/10E).

The claims are located 3 kms. south west of Vananda (Fig. 1).

1:2 Access: -

Access to the claim group is by a logging road that leads from the (former) Ideal Cement Haul Road. The survey area is traversed by a number of haul roads that give easy access. Four wheel drive transport is needed.

1:3 Topography: -

The survey area has been logged off. It is at elevations from 150 to 220 m.

The area has been logged and is covered by logging debris and isolated patches of young, natural, regeneration timber.

1:4 Claim Status: -

The Golden Rod claims (Fig. 2), are owned by Ed Johanson, of Vananda, B. C.

Golden Rod 662

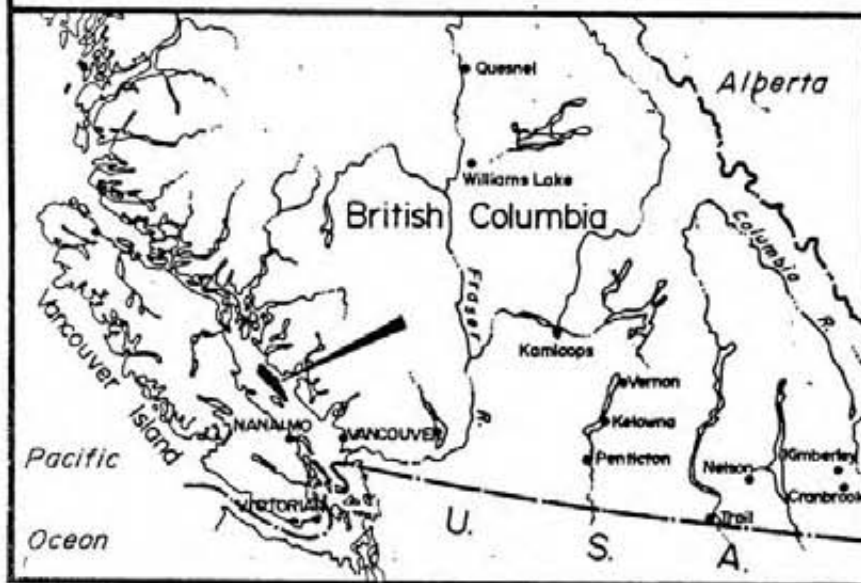
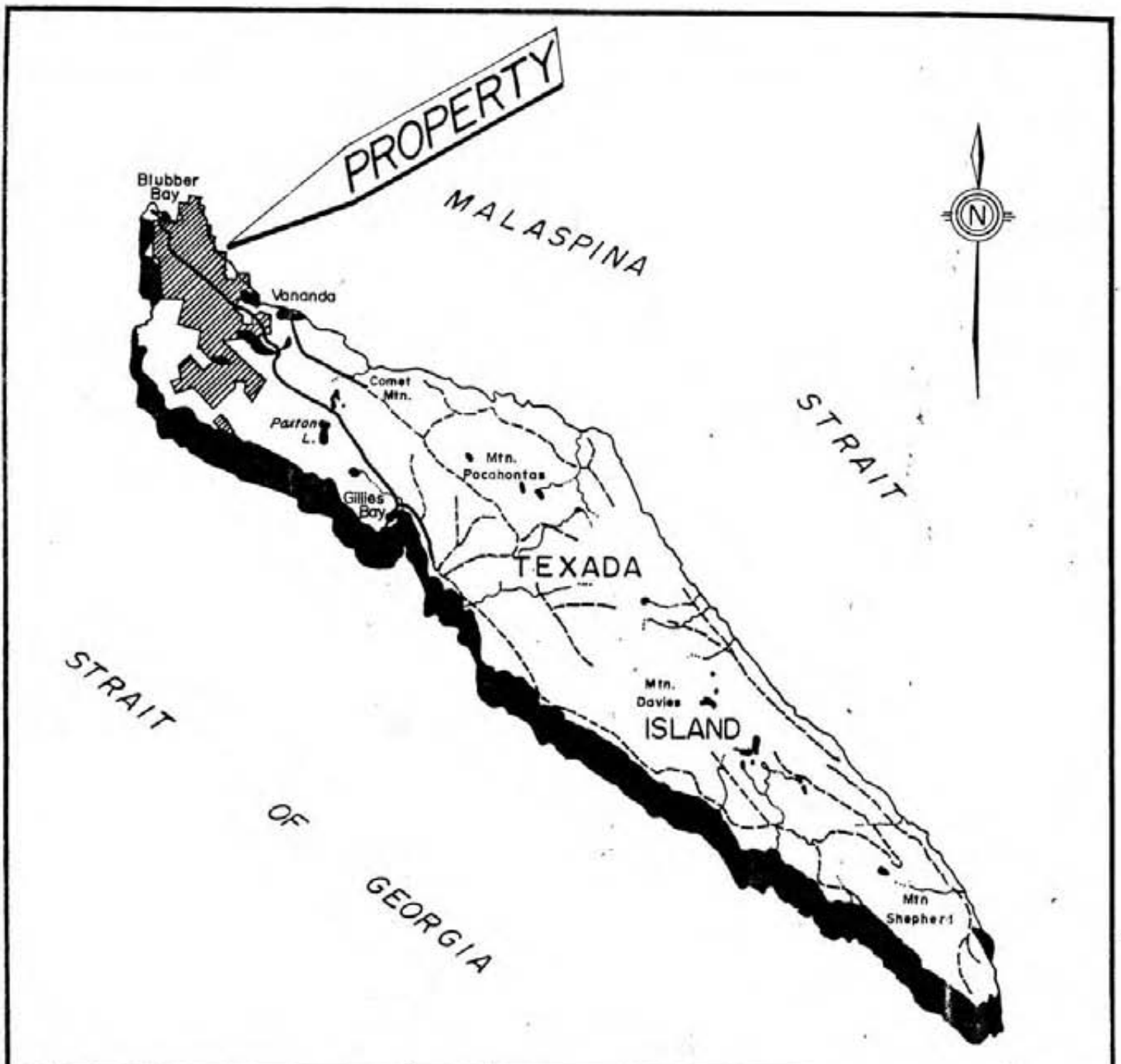
Golden Rod #2 661


1:5 Previous Work: -

Previous work in the area comprised physical excavation of a gold bearing pyritic replacement zone along a fault zone. The prospecting activity resulted in elucidation of the control of the pyritic zone.

Present work expanded in the previous data by extending previous lines. An Ancillary base line was established at 360S, 630 W and additional lines flagged and picketed. The base line was marked and picketed at 15 m. intervals, while the lines were flagged at 15 m. intervals.



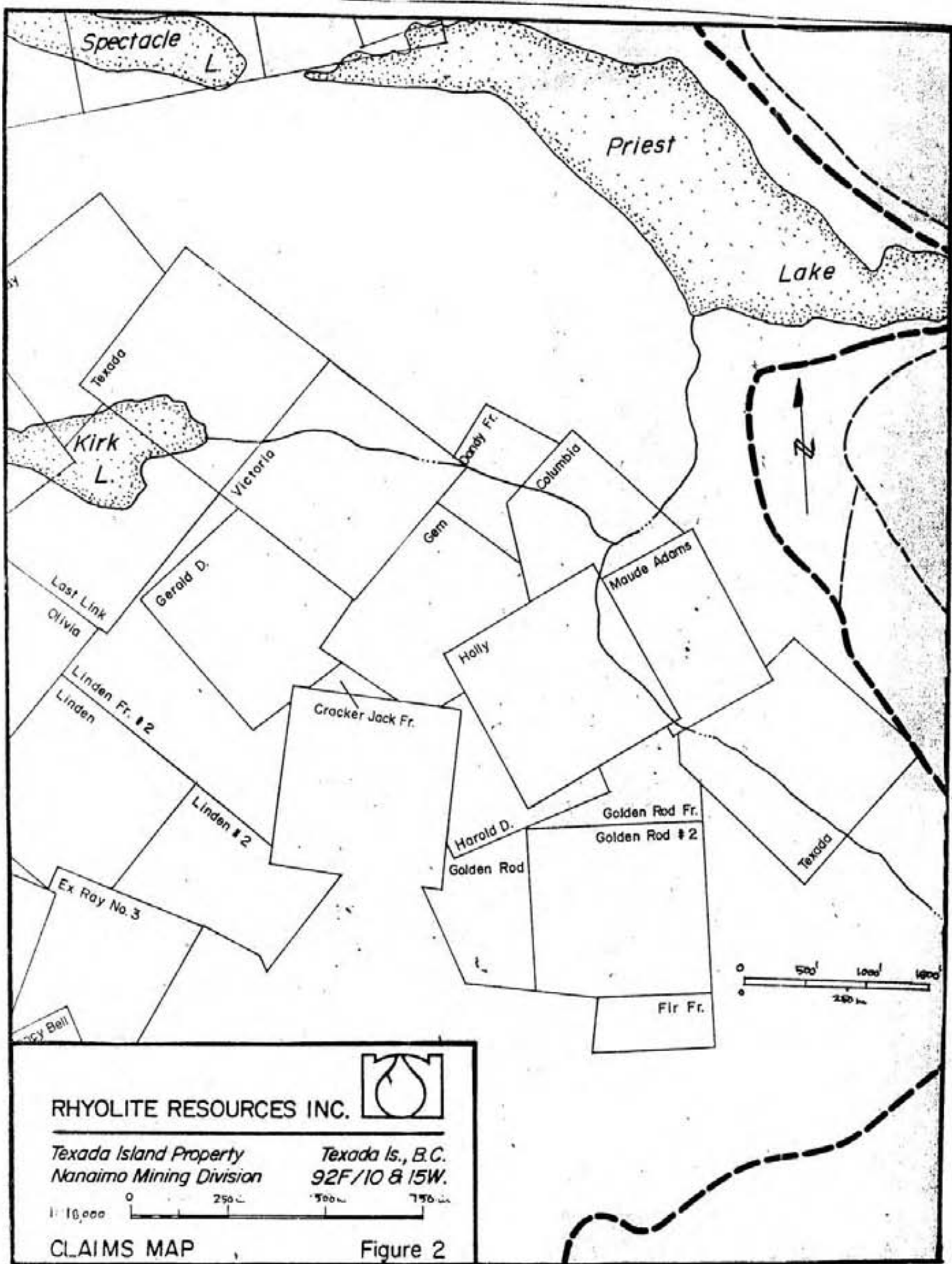



RHYOLITE RESOURCES INC.

Texada Island Property *Texada Is., B.C.*
Nanaimo Mining Division *92F/10815*



LOCATION MAP **figure 1**



RHYOLITE RESOURCES INC.



*Texada Island Property
Nanaimo Mining Division*

*Texada Is., B.C.
92F/10 & 15W.*

1:10,000



CLAIMS MAP

Figure 2

2. Geology and Mineralization:

2:1 Geology: -

The general geology of the survey area is that of a heterogeneous assemblage of volcanic breccias and volcanoclastic debris, cut by a number of strong fault linears. Small microdiorite dykes are emplaced along the fault linears.

These linears are evident in air photographs of the area.

Initial interest in the area developed from the discovery of gold bearing mineralization on the flanks of a diorite dyke at 320 S, 600 W. Local prospectors hand cobbled a small shipment of material with good (> 2 ozs. Au/ton) values.

Within the survey area, there are two major linears. One, termed the Golden Rod linear, trends from 300 S, 585 W, to 660 S, 850 W. Another linear, clearly evident in the field, runs from 360 S, 585 W, to 720 S, 690 W.

To the west of the Golden Rod linear, outcrops comprising matrix supported volcanic breccias are present. Bedding attitudes are indeterminable in the field.

2:2 Mineralization: -

The focus of attention on the property is the Golden Rod gold occurrence. This comprises a microdiorite dyke emplaced along the fault zone. The flanks of the dyke, up to 3 m. wide are marked by 0.1 to 0.4 m. pyritic replacement zones. Minor and variable pyrite is present within the dyke itself. Isolated specks of native gold have been observed on the walls of the shear zone.

Along the linears, scattered pyrite has been observed in minor amounts. The linears are largely covered with debris and their economic significance is undetermined.

Field observation shows some peripheral alteration along the linears. This is marked by pervasive chlorite-carbonate alteration in the flanking volcanic breccias.



3. Magnetometer Survey:

3:1 Procedure: -

Base stations were calibrated to the Golden Rod Survey from other base stations previously used on Texada Island. A local base station was calibrated and established at line 360 S, 500 W.

The local base station was occupied every 2 hours and diurnal variations established. The regional base station was checked four times daily to further check drift.

During the course of the survey, magnetic activity was of a low order and no problems were encountered.

3:2 Magnetic Survey: -

The magnetic data (Fig. 3) shows several magnetic domains.

A linear magnetic low runs from 300 S, 585 W, to 660 S, 860 W, which reflects the response along and adjacent to the Golden Rod fault. To the west of this magnetic linear, values range up to 2065 gammas with a degree of variability.

A second, discernible, magnetic linear runs from 360 S, 600 W, to 720 S, 690 W. This clearly mirrors the second fault zone in the area. Between these linears, there is a variable pattern of magnetic response with a range of 500 gammas.

East of this linear, a narrow magnetic high with a range of 1200 gammas parallels the linear and is replaced eastward by a moderately variable domain.

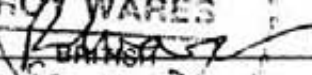
The magnetic data define the fault zones and their concomitant alteration pattern but failed to adequately define stratigraphy or significant features along the linears.

The magnetic low centred on 480 S, 530 W, has not been adequately explained and should be further explored.



4. Summary and Conclusions:

- 1) A 2.85 km. magnetometer survey was carried out with the objective of defining (some) controls of mineralization within the area.
- 2) The focus of interest in the area is the occurrence of gold mineralization in pyritic zones at the flanks of a microdiorite dyke. This dyke is emplaced along a fault zone.
- 3) The magnetic survey clearly defines the fault linears and their peripheral alteration zones. The magnetic survey did not define any detailed stratigraphy but broadly mirrored the general geology.
- 4) Further follow-up work by means of physical trenching is warranted to investigate the anomalies at 540 S, 800 W, 600 S, 860 W and 660 S, 915 W, along the Golden Rod zone. The eastern linear should be investigated at 480 S, 630 W and 600 S, 645 W. In addition, the broad magnetic low at 480 S, 530 W should be examined and soil sampled.
- 5) Further work will depend on the results of these investigations.

PROFESSIONAL
PROVINCE
OF
ROY WARES

R. Wares, P. Eng.
December 10, 1983



A:1 Statement of Costs:

Line Cutting -

Roy Samuelson, Sept. 20, 26, 27, 28 - 4 days at 100 per day ... \$ 300.00
Joe Christensen, Sept. 20, 26, 27, 28 - 4 days at 110 per day .. 330.00

Mag. Survey -

Ted Waymouth, Sept. 26, 27, 28, 29 - 4 days at 75 per day 300.00

Supervision -

R. Wares, Sept. 29 - 1 day at 150 150.00

Mag. Rental -

4 days at 25 per day 100.00

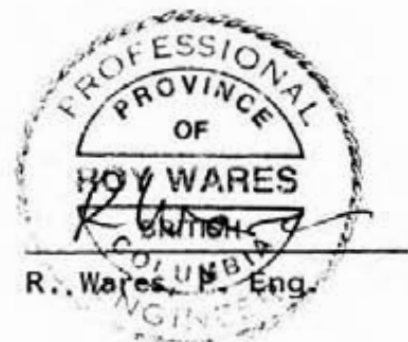
1180.00

400 of work to be applied to the: -

Linden (1018)
Linden 2 (1019)
Linden Fr (1017)
Linden Fr #2 R. Perry

200 to be applied to the: -

Fir Fraction (1299) R. A. Samuelson



A:2 Instrument Specifications:

A Scintrex MF-2 magnetometer was used for the survey.

A local base station was tied to regional base stations and occupied every two hours at least. Readings were taken at 15 m. intervals along the flagged lines.



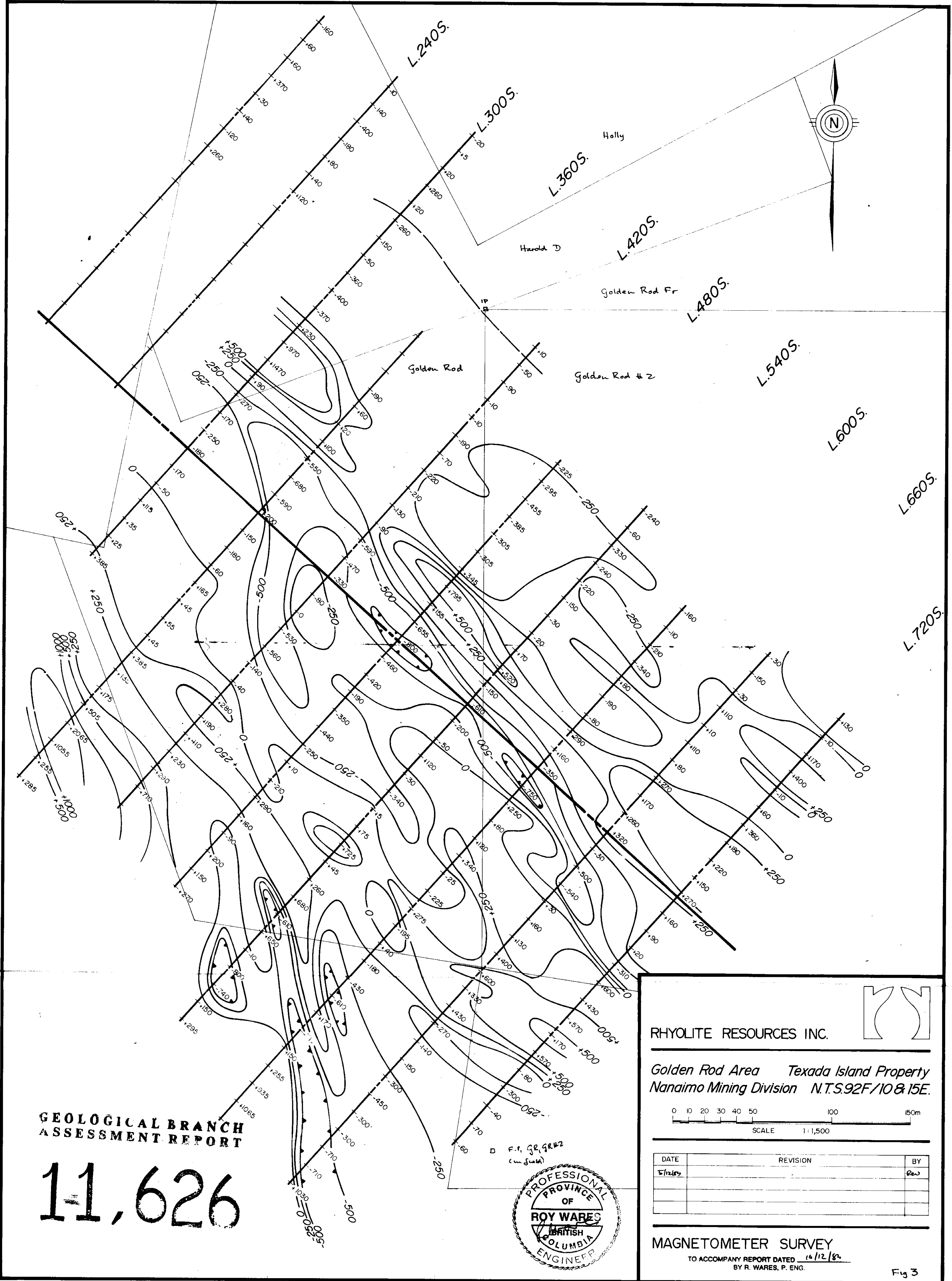
A:3 Statement of Qualifications:

I, Roy Wares, with a business address in the city of Vancouver, B. C. do hereby certify that: -

- 1) The work described herein was carried out under my direct personal supervision.
- 2) I am a registered member, in good standing, of the Association of Professional Engineers of B. C.
- 3) I have practiced various levels of my profession in Canada, the U.S.A., and the U. K., for the past nineteen years.
- 4) The magnetometer work was carried out by Ted Waymouth. Mr. Waymouth, has one year of relevant exploration experience, including running I.P. and magnetic surveys.

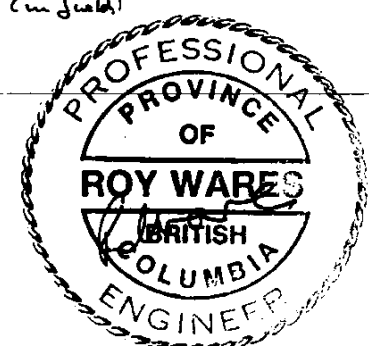
Dated at Powell River, B. C., in the Province of British Columbia, December 10th, 1983.

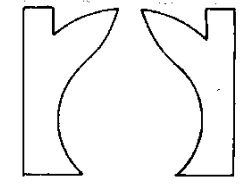




**GEOLOGICAL BRANCH
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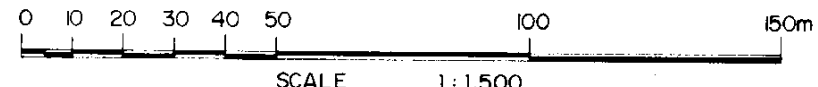
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RHYOLITE RESOURCES INC.

*Golden Rod Area Texada Island Property
Nanaimo Mining Division N.T.S.92F/10 & 15E.*



SCALE 1:1,500

DATE	REVISION	BY
5/12/82		RW

MAGNETOMETER SURVEY
TO ACCOMPANY REPORT DATED 16/12/82
BY R. WARES, P. ENG.

Fig 3