

5393

103H/2W

REPORT ON SUPPORTING WORK FOR
REVERTED CROWN-GRANTED MINERAL CLAIMS

L221, L2097-L2099, L2103-L2105,
IN THE SURF INLET AREA, SKEENA MINING DIVISION,
B.C.

Situated 360 Miles north-west of Vancouver
B.C., and 105 miles east of Prince Rupert,
B.C. and 7 miles east of Surf Inlet. (103 h/2)

53° 11' N lat; 128° 50' W. Long.

Owner: W.G. Stevenson

Submitted by : C.H. Stanley, Geophysicist

Endorsed by: W.G. Stevenson, P.Eng.

Work conducted by: Agilis Engineering Ltd.
#107 - 325 Howe Street,
Vancouver, B.C.

Department of	
Mines and Petroleum Resources	
ASSESSMENT REPORT	
NO. 5393	MAP #

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION.....	1
CLAIMS AND TITLE.....	1
LOCATION AND ACCESS.....	2
PHYSIOGRAPHY.....	2
GEOLOGY.....	3
MINERALIZATION.....	3
SUPPORTING WORK.....	4

A P P E N D I X

REFERENCE

CERTIFICATE

#1 PROPERTY LOCATION MAP

#2 TOPOGRAPHIC & GEOLOGY MAP

REPORT ON SUPPORTING WORK FOR REVERTED
CROWN-GRANTED MINERAL CLAIMS L221, L2097-
L2099, L2103-L2105, SURF INLET AREA, SKEENA
MINING DIVISION, BRITISH COLUMBIA.

INTRODUCTION:

On March 15th 1974 Mr. A.H. Dawson, made application for seven reverted Crown-granted Mineral Claims at the head of Surf Inlet in the Skeena Mining Division. An exploration program will be carried out on these Mineral Claims, during 1975 and in preparation for this exploration, a topographic map was prepared from existing air photographs to provide control for geological mapping and geochemical and geophysical surveying. To assist in this exploration program the reports tabulated in the attached bibliography have been studied and the air photographs of this area have been interpreted, and this interpretation posted on to the topographic map.

CLAIM AND TITLE:

On May 9th 1975, the provincial mining recorder in Prince Rupert acknowledged that he had recorded 7 reverted crown-granted Mineral Claims to Mr. A.H. Dawson as agent for W.G. Stevenson #302 - 475 Howe Street, Vancouver, B.C. The details of these Mineral Claims is as follows. Map 113M Mining Receipt No. 84558E Recorded March 15th 1974.

CLAIM AND TITLE CON'T

<u>RECORD#</u>	<u>NAME OF CLAIM</u>	<u>LOT#</u>	<u>ACREAGE</u>
38560	Turner fr.	221	43.34
38561	Sea Gull	2097	49.90
38562	Little Tomy fr.	2098	42.37
38563	Brown Bear	2099	32.31
38564	Sunlight fr.	2103	25.92
38565	Sea Lion fr.	2104	48.04
38566	Sheet Anchor fr.	2105	44.88

LOCATION AND ACCESS:

The L 221, L2097-L2099, L2103-L2105 Mineral Claims are located seven miles east of the head of Surf Inlet, one-hundred and five miles south-east of Prince Rupert, and three-hundred and sixty miles north-west of Vancouver, B.C. More precisely the claims are located at 53°00' North Latitude and 128° 50' West Longitude.

Access to the property is by float plane to Bear Lake and then by foot trail two miles to the property. Northland Navigation has a Vancouver to Prince Rupert boat service, which stops at Butedale on Princess Royal Channel, ten miles north-east of the property.

PHYSIOGRAPHY:

The regional terrain is rough and mountainous. Mountains seldom exceed four-thousand feet but are steep, rugged and massive. An outstanding feature of the topography is the number of narrow, steep-sided and flat-bottomed rock

PHYSIOGRAPHY CON'T

valleys with long narrow lakes. The basins have been excavated to their present form by ice action. The L2097-L2099, L2103-L2105 Mineral Claims are on the south facing slope of a mountain that extends to a height of 3,000 feet. Claim number L221 is on the north facing slope of a mountain, that extends from 500 - 1,500 feet in elevation. The L2097-L2099, L2103-L2105 claims extend from sea level of 2,500 feet elevation. A southerly flowing creek crosses these claims.

GEOLOGY:

GSC Paper 70 - 41 drawn to scale of 1" = 4 miles provides the most detailed published mapping of this area. This map shows the rocks within the claim block as fairly coarse grained quartz diorite. Pegmatite and diabase dikes are associated with the granitic and schist rocks.

Description of the geology on the adjoining Surf Inlet and Pugsley Mining properties has been obtained, in part from the references marked in the appendix. These publications describe a shear zone trending through the Surf Inlet and Pugsley properties. This zone is composed of several shears that can be traced for a distance of 3 miles north-woutherly and over a vertical extent of 3,000 feet. This zone corresponds with an inclusion of a narrow septum of older chlorite schist and gneiss.

MINERALIZATION:

Mineralization within the Surf Inlet and Pugsley properties, is described as quartz vein filling with iron pyrite, chalcopyrite, arsenopyrite and minor amounts of free gold, ankerite, calcite and molybdenite.

MINERALIZATION CON'T

During the period 1917 - 1926 and 1935 - 1943 the Surf Inlet property produced 1,012,067 tons of ore with an average grade of 0.39 oz.gold/ton; 0.2 oz. silver/ton and 0.3% copper.

The reverted Mineral Claims (L2097-L2099, L2103-L2105) are adjacent to the workings of the old Surf Inlet Gold Mines Ltd., which is within the BLUFF, Crown-granted Mineral Claim Number L34.

The L221 Mineral Claim is adjacent to the claim covering the old Pugsley Mine of the Old Princess Royal Island Gold Mining Co. From a study of G.S.C. air photograph A 15389-27 I have concluded the old Surf Inlet Gold Mines and the Pugsley Mine are on the same shear zone.

SUPPORTING WORK:

Pacific Survey Corporation prepared a pencil manuscript reconnaissance topographic map on a scale of one inch equals four-hundred feet with a 50 foot contour interval. Control was established from the Geological Survey of Canada air photograph A 15839 26-27.

The G.S.C. map reference is 103 H/2. G.S.C. Paper 70-41 was used as a reference to plot the regional geology on the topographic map. G.S.C. Summary Report 1912 was used as a reference to plot the workings of the old Surf Inlet Gold Mines Ltd.

SUPPORTING WORK CON'T

An air photograph study was accomplished and lineaments plotted on the topographic map. The air photograph study, research, and map super-imposition was accomplished by C.H. Stanley, Geophysicist, Agillis Explorations Ltd. #107 - 325 Howe Street, Vancouver, B.C.

Respectfully submitted,

C.H. Stanley
C.H. Stanley

W.G. Stevenson
W.G. Stevenson, P.Eng.

To Accompany Report Dated March 11th 1975
Re: Reverted Mineral Claims, Skeena Mining
Division.

REFERENCE

- (1) Geological Survey of Canada; Summary Report 1912, Sessional Paper No. 26, Princess Royal Island, B.C. by R.G. McConnell.
- (2) Geological Survey of Canada; Summary Report 1921, Coast and Islands of British Columbia between Burke and Douglas Channels, by V. Dolmage.
- (3) British Minister of Mines Report 1902; Report by John Flewin, Mining Recorder, Skeena River Mining District, notes by Dr. Marshall.
- (4) British Columbia Minister of Mines Report 1912; Report by H. Carmichall, Provincial Assayer, Mineral Claims of Princess Royal Island, B.C.
- (5) British Columbia Minister of Mines Report 1917; Report of George A. Clothier, Resident Engineer, North-Western District (No.1)
- (6) British Columbia Minister of Mines Report 1912; Report of Joseph T. Mandy, North-Western District No 1.
- (7) Paper 70 - 41.
- (8) Air Photos: G.S.C. A 12839 - 26, 27, 28.

CERTIFICATION

I, Corby H. Stanley, of Vancouver, B.C. do hereby certify that:

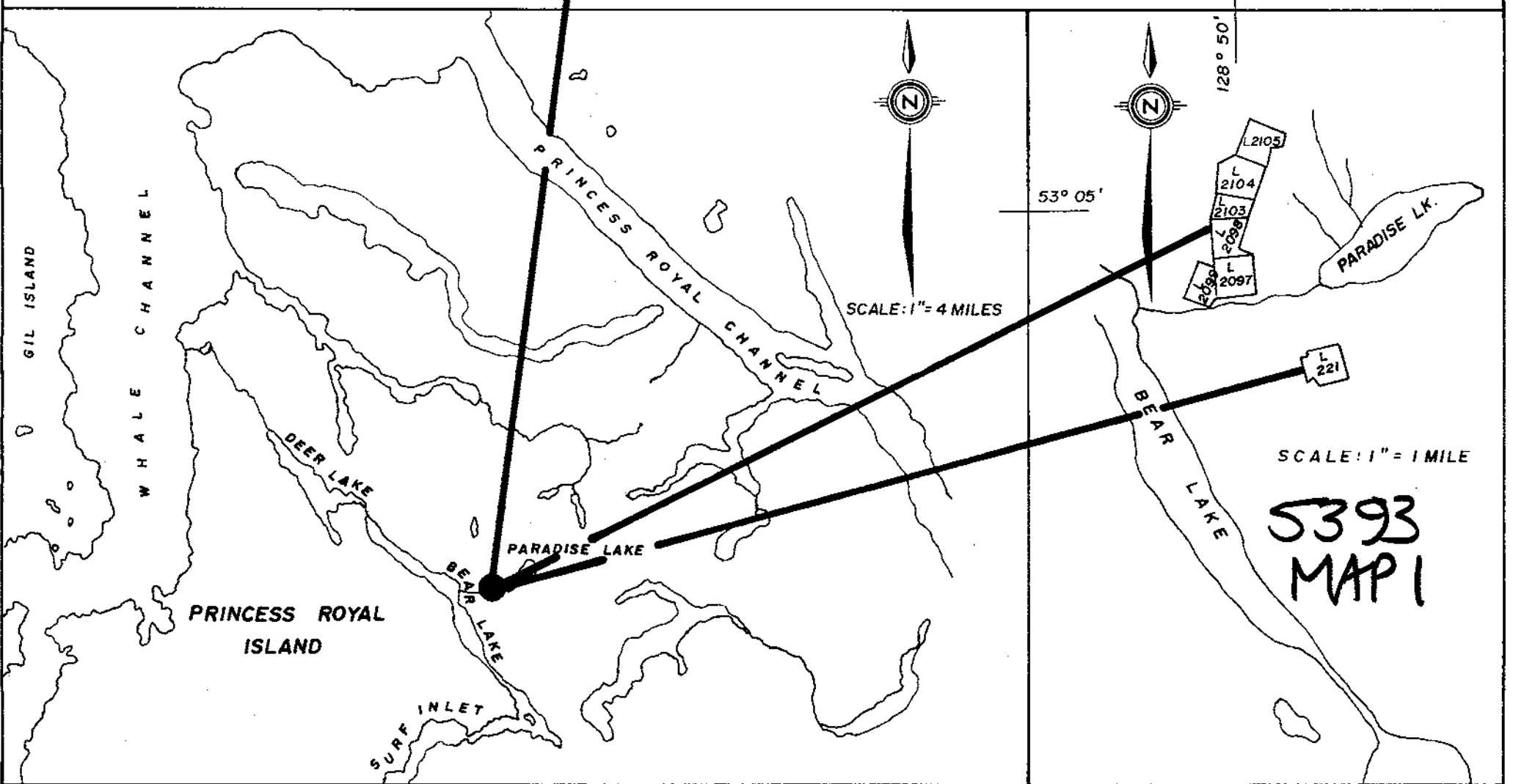
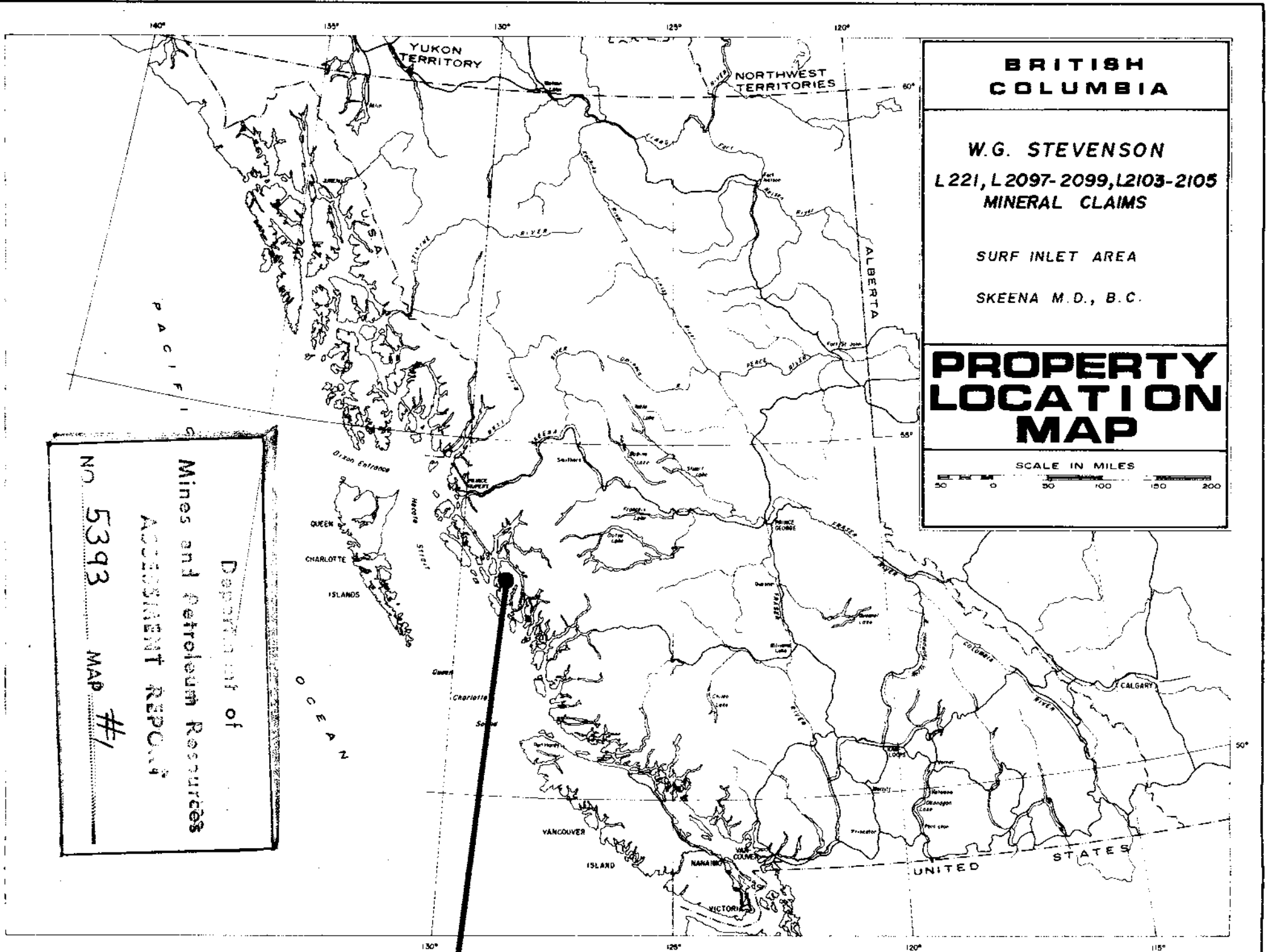
1. I am an exploration geophysicist, residing at 181 Stevens Drive, West Vancouver, B.C.
2. I am a graduate of the University of British Columbia (B.Sc. 1971).
3. I have practised mining exploration in B.C. and the Yukon for the last four years.
4. I am a member of Canadian Institute of Mining and Metallurgy, American Geophysical Union, and an Associate Member of the Society of Exploration Geophysicists.
5. The subject of this report and mapping was done by myself under the supervision of Mr. W. G. Stevenson.



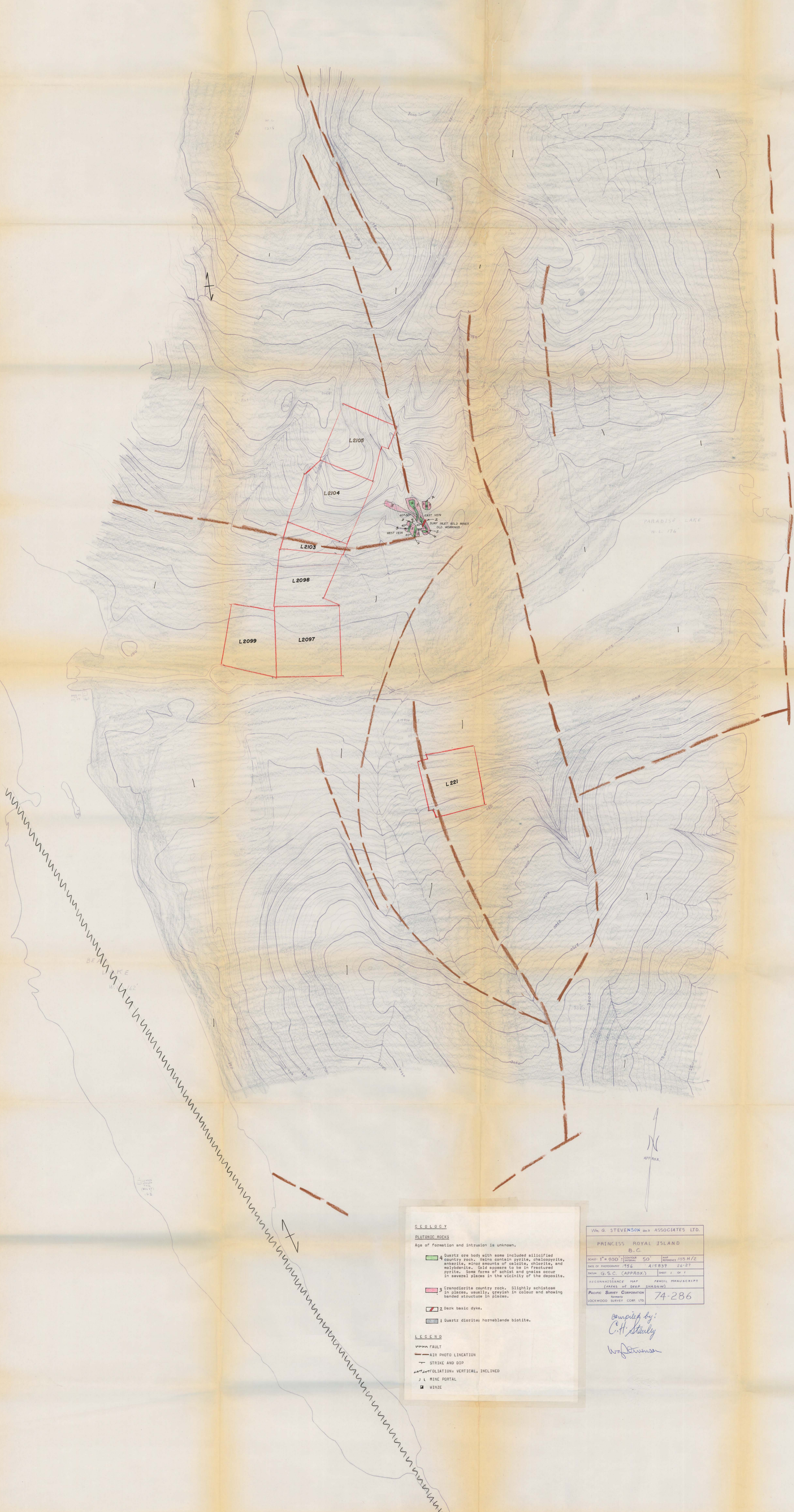
C. H. Stanley, B.Sc.

Vancouver, B. C.

March 11, 1975



W465
2303



GEOLOGY
PALAEONIC ROCKS
 Age of formation and intrusion is unknown.

4 Quartz ore body with some included silicified country rock. Veins contain pyrite, chalcopyrite, magnetite, minor amounts of calcite, hematite, and molybdenite. Gold appears to be in fractured pyrite. Some forms of schist and gneiss occur in several places in the vicinity of the deposits.

3 Gneissiferous country rock, slightly schistose in places, usually, greyish in colour and showing banded structure in places.

2 Dark basic dyke.

1 Quartz dioritic hornblende biotite.

LEGEND

~~~~~ FAULT  
 --- AIR PHOTO LINEATION  
 --- STRIKE AND DIP  
 ~~~~~ FOLIATION, VERTICAL, INCLINED  
 J L MINE PORTAL
 ■ WIND

| | | | |
|-----------------------------------|----------------------|--------------------|--|
| W. G. STEVENSON & ASSOCIATES LTD. | | | |
| PRINCESS ROYAL ISLAND | | | |
| B. C. | | | |
| SCALE 1" = 400' | CONTOUR INTERVAL 50' | PROJECTION UTM H/2 | |
| DATE OF PHOTOGRAPH 1956 | 415839 | 26-27 | |
| BASE G. S. C. (APPROX.) | | | |
| RECONNAISSANCE MAP | | FIELD MANUSCRIPT | |
| PACIFIC SURVEY CORPORATION | | 74-286 | |
| LOCKWOOD SURVEY CO. LTD. | | | |

Compiled by:
 C. H. Stealy
 W. G. Stevenson

5393
 MAP 2