PORCHER ISLAND

SUB-RECOF	RDER
OCT 5 19) 88
M.R. #\$ VANCOUVER,	B.C.

INDUCED POLARIZATION SURVEY

CLAIMS:	Jolt	6253 (07)	
	Profr	6252 (07)	
MINING DIVISION:	Skeena	100 Mg. 10 25	80.
NTS:	103J/2E		and the control of the second of the

LATITUDE: 54° 01' 30" N

LONGITUDE: 130° 35' 30" W

OWNER: Cathedral Gold Corporation

<u>OPERATOR</u>: Cathedral Gold Corporation

<u>AUTHOR</u>: Alan B. Taylor

DATE:

GEOLOGICAL BRANCH ASSESSMENT REPORT September 30, 1988

FILE I.E.

17,061

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SUMMARY

An induced polarization survey was carried out over the Jolt and ProFr claims to explore for possible anomalies related to gold mineralization in quartz-pyrite veins found at the nearby Surf Point mine.

The dipole electrode array was used on the survey of approximately 6 km over the pertinent claims with an "a" spacing of 25 meters and in separations of 1 to 5.

The results of the survey show weak anomalies probably related to variable pyrhotite bearing basement rocks which are not auriferous. No further IP work is recommended.

1.0 LOCATION AND ACCESS

The Porcher Island claims are located 40 km southwest of the town of Prince Rupert on the north coast of British Columbia. The property is situated on the northwest corner of Porcher Island, at Edye Pass, and is bordered on two sides by tidewater. There are presently no roads on the property and access is by boat, float plane or helicopter based out of Prince Rupert.

Vegetation is typical of coastal-type settings ranging from wind-blown stunted scrub vegetation in areas of muskeg to tall stands of spruce and cedar on steeper, better drained slopes. Topographically, the property contains rolling hills with moderate slopes and a highest elevation of 1,600 feet on Bell Mountain. Two linear-type bedrock structures trending northeast-southwest are apparent as steep gullies or trenches found in the northwestern part of the property.

2.0 PROPERTY DEFINITION

The property consists of the following claims owned 100% by Cathedral Gold Corporation.

Crown Grants	Lot No.	<u>Units</u>
Western Hope	L6516	1
Pirate	L6953	1
Reward	L6955	1
Jeanie	L7191	1
Nabob	L7192	1
Trixie	L6515	1
Eagle	L6513	1
IXL	L6517	1
IXLfr	L6518	ī
HEDfr	L7188	ī
Starlight	L7189	1
HSD	L7312	1
Klim	L6519	1

<u>Claims</u>	Record No.	<u>Units</u>	Record Date
Tippy	38573	1	May 01, 1974
Toby 1	38574	1	May 01, 1974
Toby 2	38575	1	May 01, 1974
Kerry	38576	1	May 01, 1974
Edye Pass	210	4	Mar 19, 1974
BR 1	829	12	Nov 14, 1978
BR 2	830	3	Nov 14, 1978
Jo1t	6253	6	Jul 07, 1987
Profr	6252	1	Jul 07, 1987

3.0 SUMMARY OF WORK COMPLETED

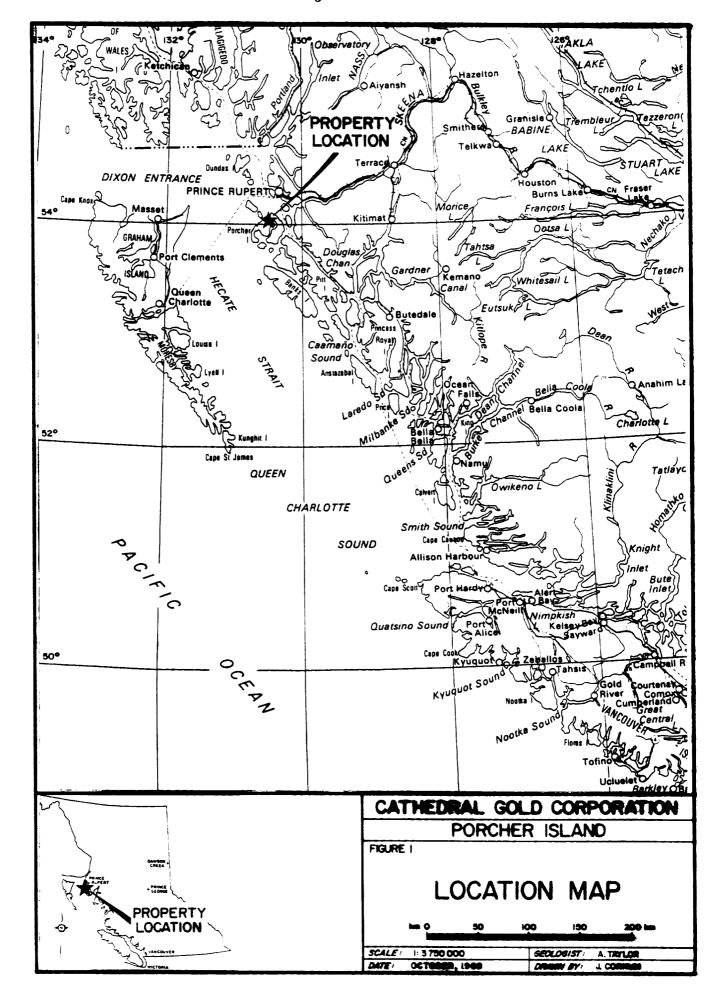
The "mine grid" was established from known survey points at the former Surf Point mine along an east-west baseline at 19250N, (see Figure 3). Grid lines at 50m intervals were established by compass and hip chain, stations flagged every 25 m, and all were cut. On the Jolt and Profr claims this entailed approximately 6 km of lines 3900E to 4200E. A pole-dipole IP survey was carried out on these lines May 6 through May 9, 1988 (for techniques see Appendix 1); for pseudosections see back pocket).

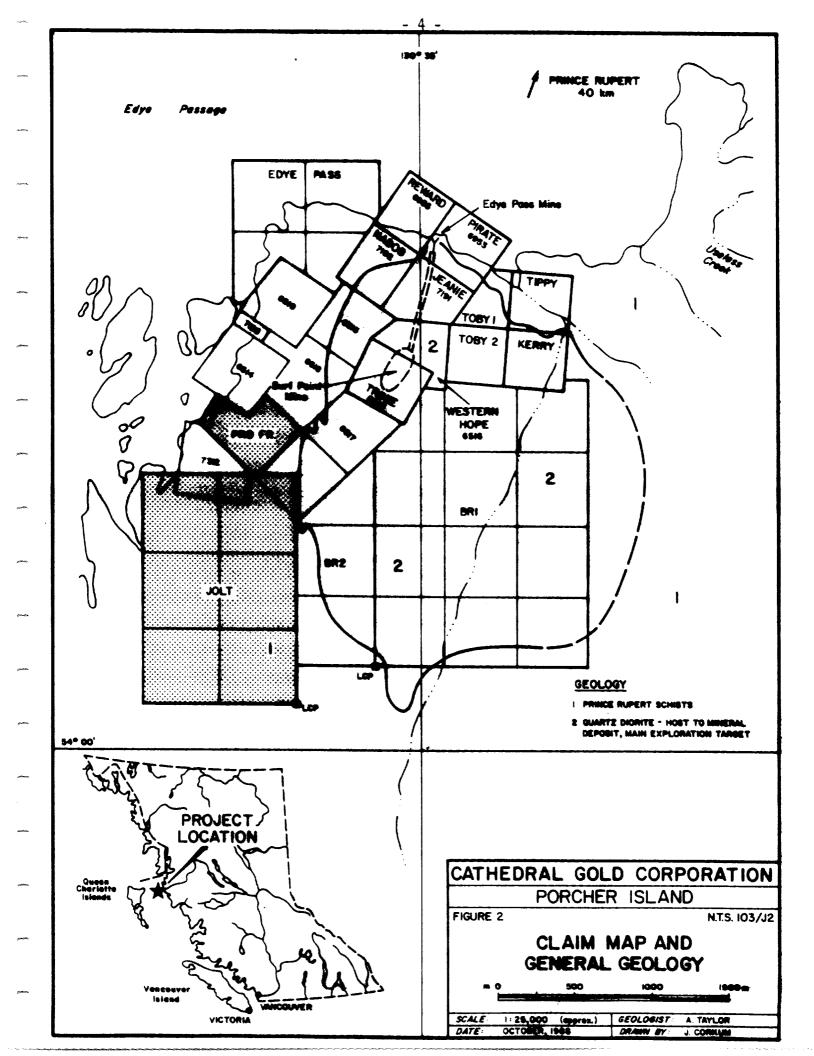
4.0 RESULTS

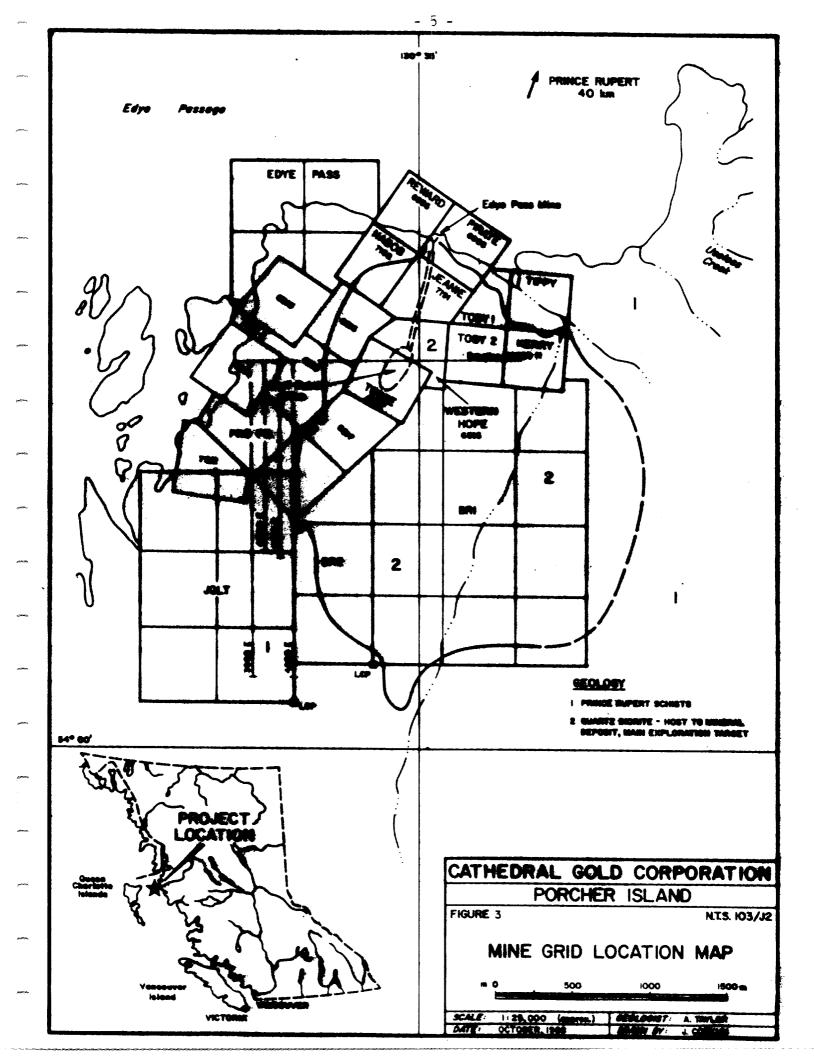
Results of the IP survey as shown in the pseudosections (in back pocket) show that occasional broad to steep chargeability anomalies occur and are suspected of representing changing lithologies in the basement schists. Pyrhotite is found to be up to 5% in some amphibolite units nearby and these do not carry anomalous precious metals. Minor resistivity lows probably represent faults or shears within the basement.

5.0 <u>RECOMMENDATIONS</u>

(1) Geochemical sampling over the IP anomalies may show areas of further interest and limited work is required on the grid lines.







6.0 COST STATEMENT

PERSONNEL: supervision, assistants, room & board	•	1,000.00
TRANSPORTATION: Helicopter	9	\$ 1,000.00
LABOUR: 6 km linecutting @ \$200/km	;	\$ 1,200.00
GEOPHYSICAL: 6 km IP @ \$1,100/km	:	\$ 6,600.00
MISCELLANEOUS: Report Writing & Drafting \$500.00 Supplies (Flagging, chainsaws, camp) \$500.00	:	\$ 1,000.00
TOTAL	:	\$ 10,800.00

7.0 BIBLIOGRAPHY

- Bergmann, H.J. 1980: Report on Porcher Island Gold Property of Banwan Gold Mines Ltd., Porcher Island, B.C.
- Corvalan, R. 1986: Geochemical Assessment Report on BR1 and BR2 Claims; for Imperial Metals Corporation
- Hutchison, W.W. 1982: Geology of Prince Rupert-Skeena Map Area, British Columbia; GSC Mem. 394
- Lawrence, R.W. 1984: Gold and Silver Recovery from Ore Supplied by Imperial Metals Corporation (AR 14602)
- Roddick, J.A. 1970: Douglas Channel-Hecate Strait Map-area (103H and part of 103G); GSC Paper 70-41, Map 23-1970
- Smith, A. 1948: Surf Point and Edye Pass Mines, in Structural Geology of Canadian Ore Deposits, C.I.M. pp.94-99
- Taylor, A.B. 1988: Geochemical Surveys on the Porcher Island Claims for Cathedral Gold Corporation Assessment Report.

8.0 CERTIFICATE OF QUALIFICATION

I, ALAN B. TAYLOR, geologist, residing at 15-8720 Maplegrove Crescent in the Municipality of Burnaby, Province of British Columbia, hereby certify that:

- I graduated from Brock University in 1979 with an Honours Bachelor of Science in Geology.
- 2) I graduated from the University of Western Ontario in 1984 with a Master of Science in Geology.
- I have worked for various mining companies and government geological surveys since 1977.
- 4) I am presently a permanent staff geologist with Imperial Metals Corporation of 800-601 West Hastings Street, in the City of Vancouver, Province of British Columbia.
- 5) The work described in this report on the Porcher Island Claims was undertaken under my direct supervision.

DATED at the City of Vancouver this 5 day of 1988.

Alan B. Taylor, Geologist

APPENDIX

INDUCED POLARIZATION SURVEY
INSTRUMENTATION

APPENDIX I

PORCHER ISLAND INDUCED POLARIZATION SURVEY - INSTRUMENTATION

Introduction

Induced polarization and resistivity surveys were conducted over portions of the Porcher Island Property, Prince Rupert Area, B.C., within the periods November 6, 7, 1987 and January 8 to 15, 1988. The work was conducted by Scott Geophysics Ltd. on behalf of Cathedral Gold Corporation.

The pole dipole electrode array was used on the survey, with an "a" spacing of 25 meters and "n" separations of 1 to 5. The current electrode was to the south of the receiving electrodes on all survey lines.

Instrumentation and Procedures

A Scintrex IPR11 time domain microprocessor based induced polarization receiver and a Scintrex 2.5kw IPC7 transmitter were used for the survey. Readings were taken using a 2 second alternating square wave. The chargeability for the eighth slice (690 to 1050 milliseconds after shutoff; midpoint at 870 milliseconds) is the value that has been plotted on the accompanying plans and pseudosections.

The survey data was archived, processed, and plotted using a Sharp PC7000 microcomputer running Scintrex Soft II and proprietary software. All chargeability values were analyzed for their spectral characteristics using a curve matching procedure (Soft II).

Alan Scott, Geophysicist Scott Geophysics Ltd. 4013 West 14th Avenue Vancouver, B.C. V6R 2X3

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DATE: OCTOBER, 1988

DRAWN BY