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ACTION:	
FILE NO:	

SELF POTENTIAL SURVEYS
OVER THE SNOWCAT CLAIM GROUP,
INVEREMERE AREA

GOLDEN MINING DIVISION
BRITISH COLUMBIA

50° 30' NORTH, 116° 30' WEST
NTS 82K-8, 82K-9

FOR

FILMED

W. POCHYLKO
STETTLER, ALBERTA

BY

T. R. B. DUNDAS, P Geoph.,
T. R. B. DUNDAS & ASSOCIATES LIMITED
CALGARY, ALBERTA

December 1987

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,811

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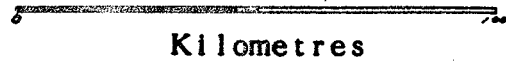
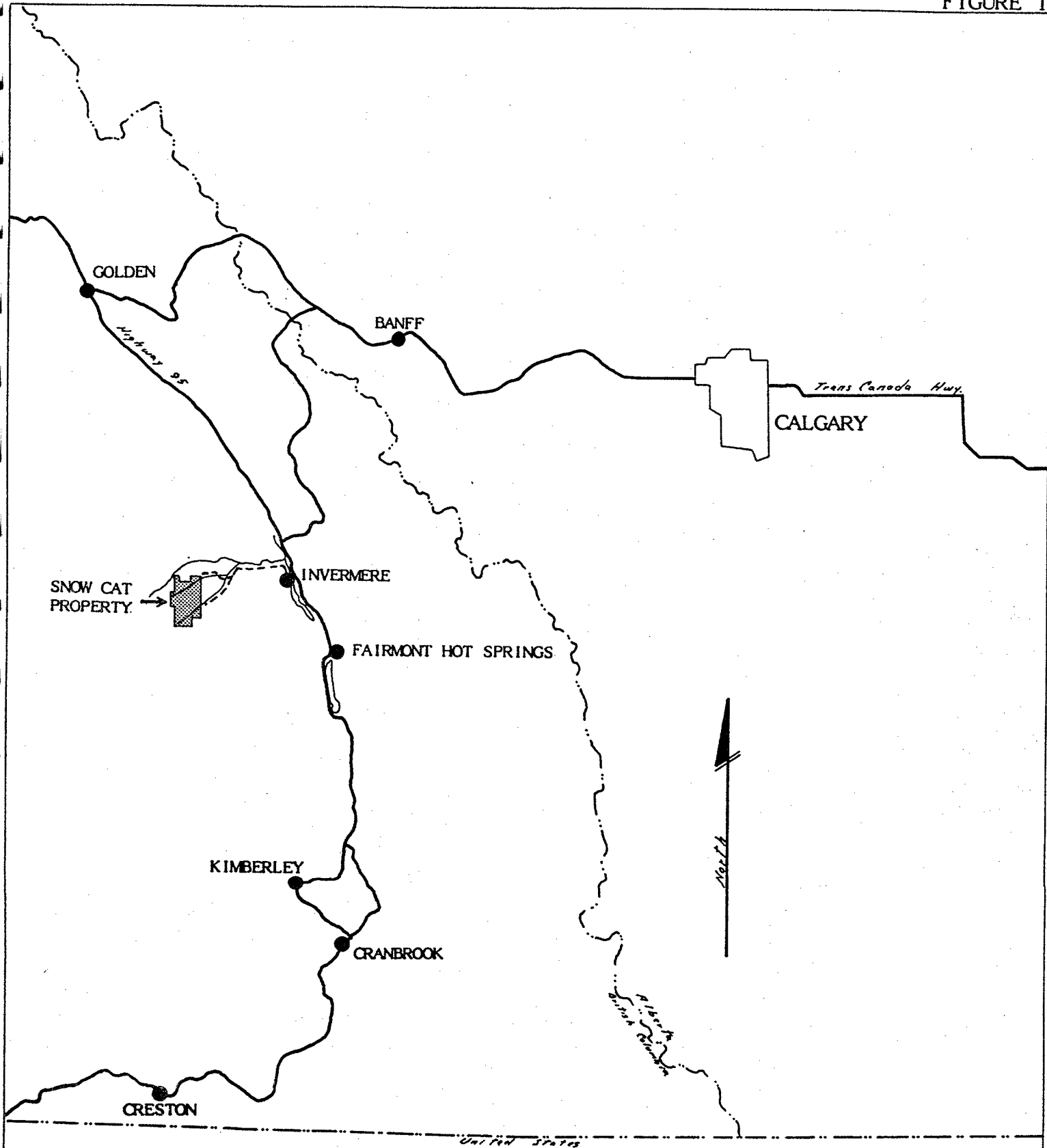
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INTRODUCTION

The Snowcat claim group consists of a total of 72 units covering Snow Cat claims 1 to 7 inclusive and are located in the Bruce Creek and Law Creek areas and approximately 30 kilometers west of Invermere, B.C., (Fig 1).

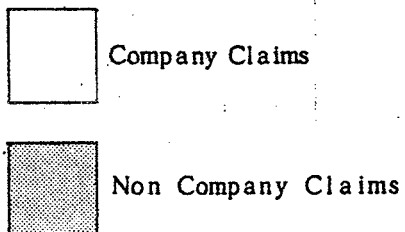
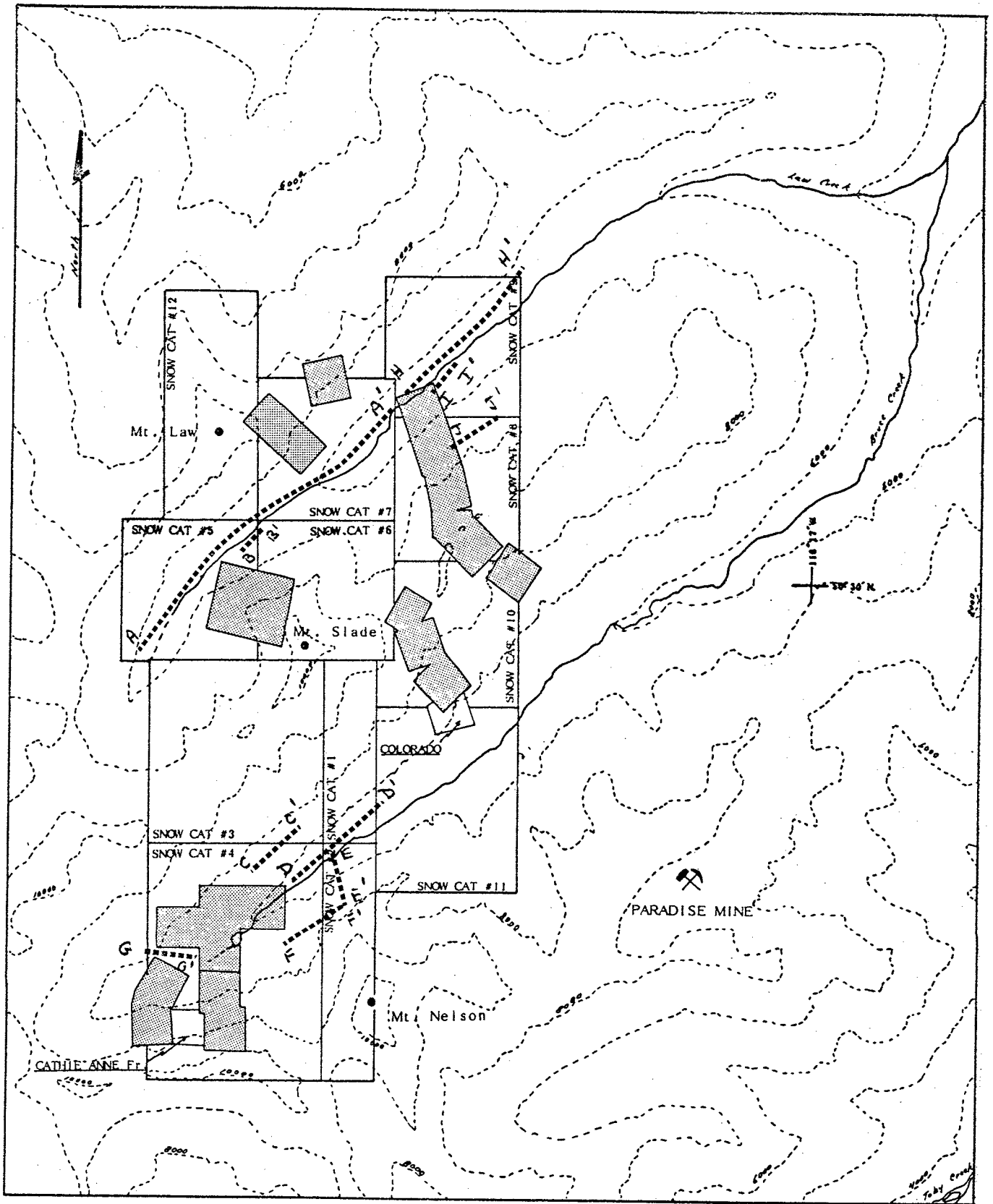
T. R. B. Dundas & Associates Limited was contracted by W. Pochyko to carry out geophysical surveys to try and locate lead-silver-zinc veins which are known to occur in the area indicated from the number of old workings which have been reported since the 1890's and that are so characteristic of the south-central part of British Columbia. W. Pochyko is the registered owner of the Cathy-Anne Fraction, (Tag 426463), which covers the area of the White Cat workings and the strike extent to the west. The White Cat had reported limited production of lead-silver high grade ore until 1928 and the property is described in the Minister of Mines, Annual Reports until 1929. The Cathy-Anne Fraction is now totally enclosed within the Snowcat claim group, as are a number of other claims, and this report covers the results of the geophysical surveys which were conducted in order to try and located similar types of deposits within the larger area.

The geophysical work was initially planned to be a test of the various methods to locate the vein type deposits which could then be used to plan surveys over the total claim area. The self-potential survey has been used in similar areas with success and this was the first method tested. The results were encouraging on the first day and due to the limited time, this method was the only geophysical technique used.



Kilometres

INDEX MAP
FIGURE No. 1



----- S.P. SURVEY LINE

Kilometres

PROPERTY MAP		
PROJECT:	SNOW CAT CLAIMS	
SCALE:	NTS: 82K	FIGURE: 2

PROPERTY

The property consists of a total of 72 units within 7 claims as listed below. The claims are located in the Golden Mining Division, 50° 30' Lat., 116° 20' W Long., and a number of claims owned by other persons are either completely or partially enclosed within the external limits of the 72 units. The relative locations are shown in Figure 2 but the accuracy of the location of other claims relative to the Snowcat group, particularly the Crown Grants, have been changed considerably from published maps. Some evidence of the Crown Grant surveys was observed in the field and combined with the original survey notes and sketches, the locations provided are felt to be accurate but will require more evidence on the ground to confirm the final locations.

Claim Name	Record No.	Tag No.	Expiry Date
Snow Cat 1	1652	05127	October 3, 1988
Snow Cat 2	1653	05128	"
Snow Cat 3	1654	05126	"
Snow Cat 4	1655	44965	"
Snow Cat 5	1656	05134	"
Snow Cat 6	1657	05129	"
Snow Cat 7	1658	05130	"

All of the above claims are registered to Gary A. Nolin, Calgary.

PHYSIOGRAPHY

The property is located approximately 30 kilometers west of Invermere, British Columbia and is in an area of very steep topography covering an area from Mt. Nelson in the south to Mt. Law to the north. The elevations range from a low of 6,300 - 6,500 feet in Bruce and Law creeks to over 10,800 feet at the peaks.

ACCESS

The claims can be reached by good logging roads from Wilmer to the junction of Bruce and Law Creeks from which there is a good four wheel drive road along Law Creek in contrast to the road along Bruce Creek which was in extremely poor condition and accessed during the survey by trail bikes.

PREVIOUS WORK

A number of old workings have been reported within the claim

area and have been described in the Minister of Mines Reports over the years since 1898. The present claims were staked to cover possible locations and any strike extent of workings on Crown Grant claims. The names of prospects and Crown Grants as provided in the literature and current status are as follows:

<u>Name</u>	<u>Type</u>	<u>Status</u>
White Cat	old producer	Fraction owned by W. Pochyiko. Crown Grants adjacent
Relief	prospect	location uncertain
Silver Thread	"	new location established
Iron King	"	partially covered by 2 external claims (Law 1,2)
Mable R	Crown Grant	new location but not yet confirmed

All mineralisation in the area is mainly lead-silver-zinc with some prospects reporting copper and some minor gold values. Widths are reported from a few inches to approximately 5 feet for the lead veins, assaying up to 68% lead, 70 ounces silver and 0.375 ounces gold.

No further work has been reported over the claims since 1930 except for minimal physical work on some claims which are at present held other persons and are located within the 72 claim group.

GEOPHYSICAL SURVEYS

The only method carried out was that of self-potential which was conducted using a Fluke voltmeter with high input impedance and standard copper sulphate electrodes for ground contact. An initial test was carried out along the road by Bruce Creek which showed the ability of the method to define narrow veins near the surface.

A number of lines were flagged and surveyed along the slopes where it was believed that there was a possible extension of old prospects and where the terrain would permit. The very steep slopes and scree material restricted the locations that could be surveyed.

SURVEY METHOD

A 200 meter spool of wire was used with a station interval of approximately 25 meters with the reference electrode being moved up when the end of the spool was reached. On some of the very steep slopes where climbing was difficult, a 25 meter wire was used with both electrodes being moved after each reading. The line directions are only reconnaissance and as such follow the most accessible route and so that the locations are approximate but sufficient to show anomalous areas. The only continuous line that could be surveyed was along the roads.

RESULTS

The results are presented as profiles at an arbitrary base level, Figure 3, with the location of the lines shown on Figure 2.

INTERPRETATION

The results show local as well as regional anomalies on the profile A-A'. This is the survey along the road at Law Creek and a 'regional' base level has been interpreted along the profile showing two distinct broad negative anomalies indicative of major regional structure at each location. Close to the peak of the regional anomalies are distinct local anomalies up to -150 millivolts which are caused by sources very close to the surface.

(a) Anomaly 1 indicated on the profile is caused by a narrow source and the short line B-B' established that the strike is 170 degrees. This would continue through the Rambler claims on Mt. Slade and possibly through the Relief prospect which has yet to be located.

(b) Anomaly 2 indicated on the profile is probably caused by a number of closely spaced sources and the location is on strike with a major valley, strike 160 degrees, which has been mapped as a major regional fault. Research has since shown that this is on strike and just north of the Silver Thread prospect.

The rest of the profiles do not show any results as significant as those described above.

CONCLUSIONS

The self-potential has shown that it can define the type of mineralisation described for the area and has identified two areas with an established strike direction which can now be followed with detail surveys in order to map the source.

STATEMENT OF COSTS

Mobilisation and Demobilisation

\$700.00

T.DUNDAS	Geophysicist	8 days @ \$400.00	\$3,200.00
W.POCHYLKO	Assistant	6 days @ \$250.00	\$1,500.00
T.POCHYLKO	Assistant	3 days @ \$150.00	\$ 450.00
	2 vehicies	6 days @ \$50.00ea	\$ 600.00
	S.P rental	6 days @ \$10.00	\$ 60.00
2	Trail bike rentals	3 days @ \$30.00ea	\$ 180.00
	Honda ATC rental	3 days @ \$50.00	\$ 150.00
	food and expenses		\$ 805.00
	camp equipment	6 days @ 25.00	\$ 150.00
	report		\$ 200.00

TOTAL \$7,995.00

CERTIFICATE

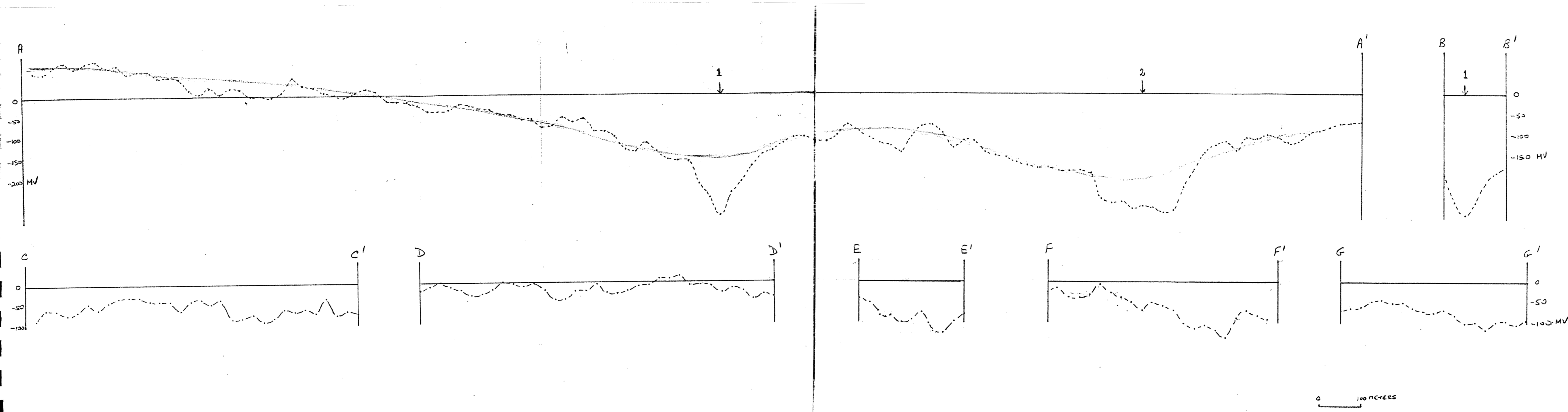
I Trevor R.B. Dundas do hereby certify that:

1. I am a practicing consultant geophysicist and President of T.R.B. Dundas & Associates Limited, 400 - 255 - 17th Avenue S.W., Calgary
2. I have graduated with a B.Sc. degree in Geology from Queen's University, Belfast in 1965 and an M. Sc. degree in Geophysics from Imperial College, London University in 1967.
3. I am a member of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.
4. I have been actively consulting as a geophysicist since 1968

Dated this 15 day of Dec 1987



Trevor R.B. Dundas



GEOLOGICAL BRANCH
ASSESSMENT REPORT

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S. P. PROFILES	
TO ACCOMPANY REPORT BY:	
SCALE	DATE
JOB NO.	FIGURE NO. 3
C.I.	DRAWN BY: