

84-#510 - 12505
3

GEOPHYSICAL REPORT

ON THE

FRAN CLAIM GROUP

N75 92P/9

KAMLOOPS MINING DIVISION

LATITUDE 51° 33' N

LONGITUDE 120° 08' W

for

Mr. David J. Walker

801 - 3675 - W.7th. Ave.

Vancouver, B.C.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,505

January 13, 1984
Box 63
Westbridge, B.C.

Roy Kregosky
B.Sc. Geology

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BRITISH COLUMBIA

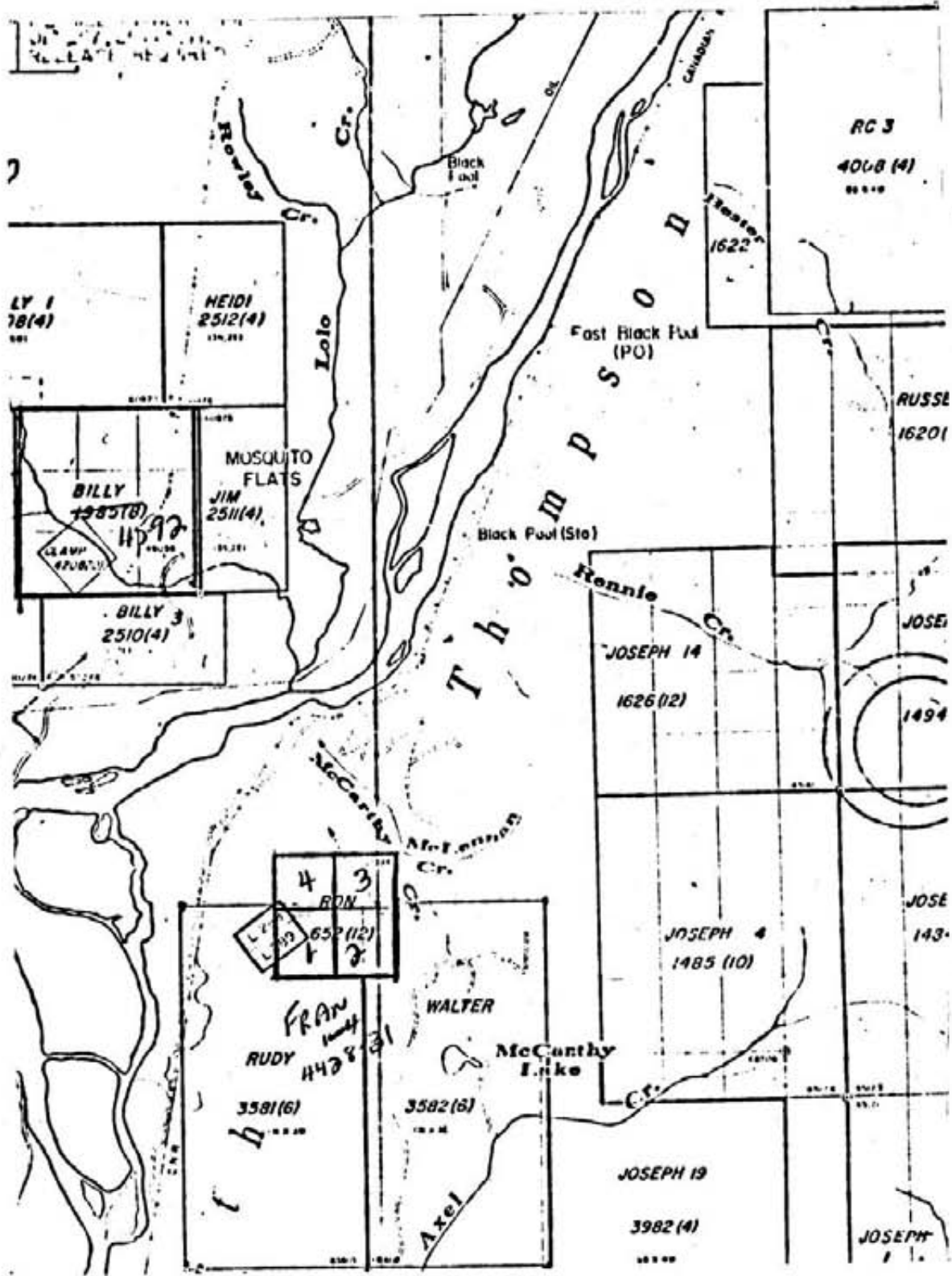
LOCATION MAP



MONASHEE
GEOLOGICAL
SERVICES

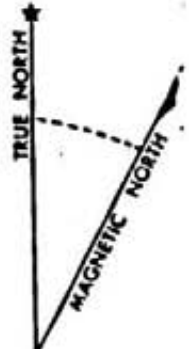
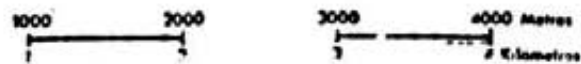
FRAN CLAIM GROUP
DAVID J. WALKER

DATA
NOV. 12/88
FIG. No.
1

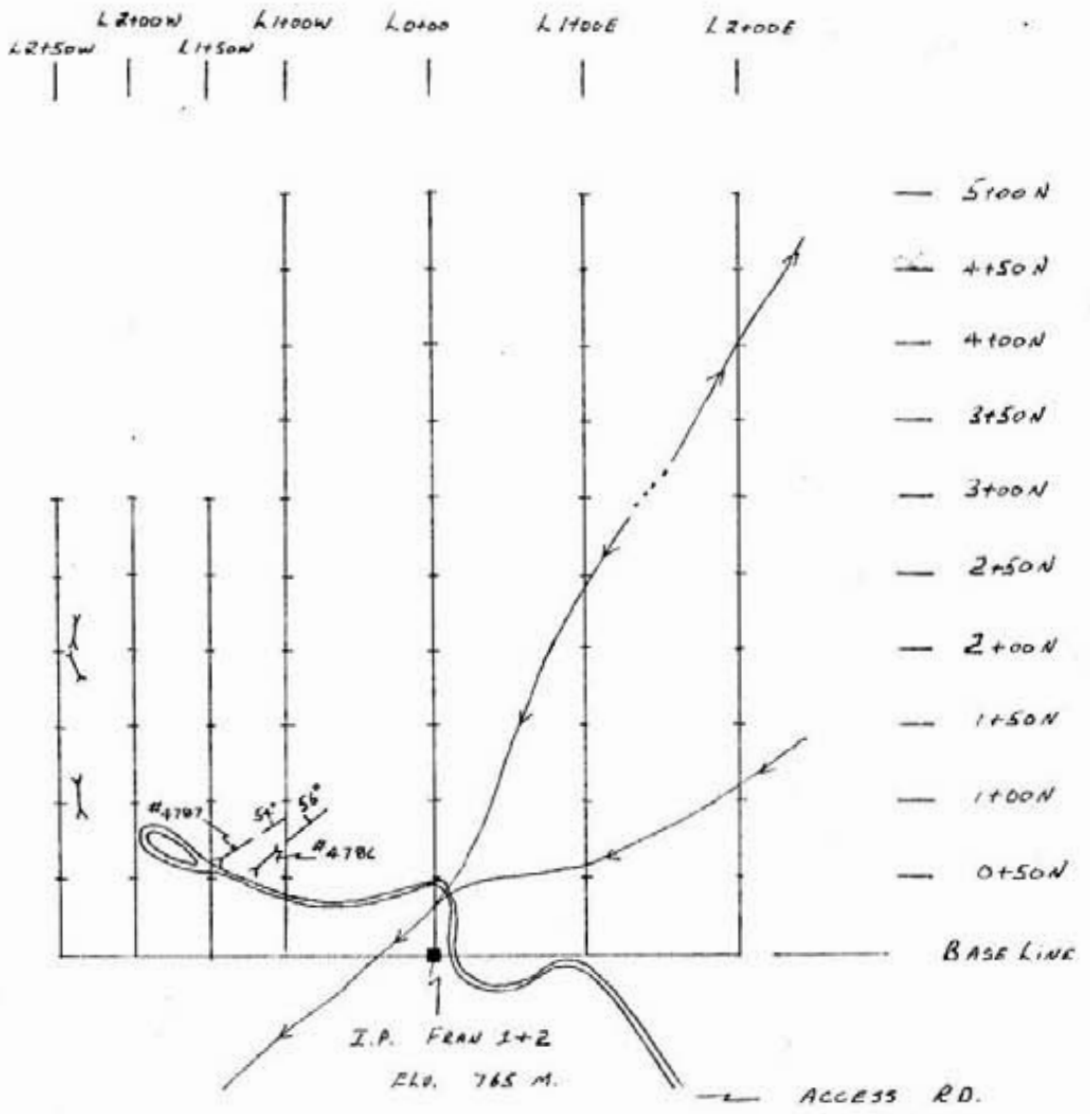


KAMLOOPS MINING DIVISION

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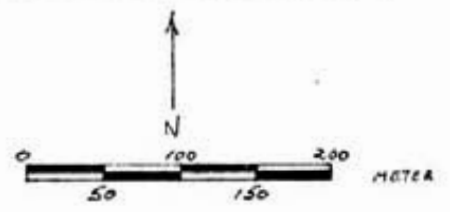


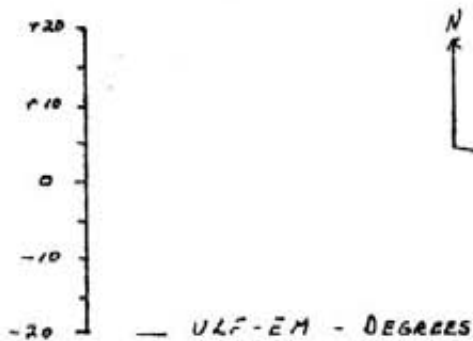
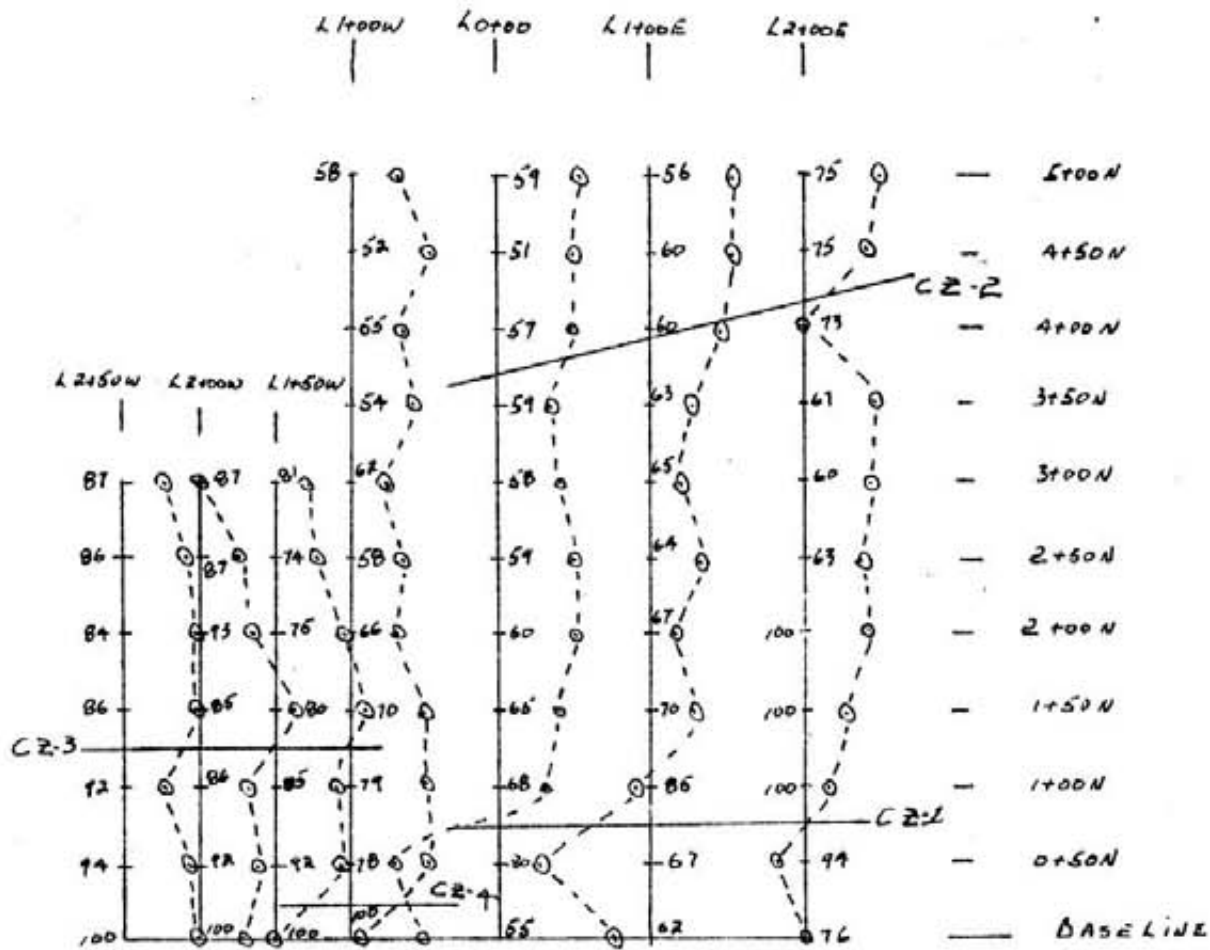
NTS.
92 P/9E



LOCATION OF SHOWINGS & ULF-EM SURVEY

- TRENCH
- ADIT
- DRAINAGE
- # 4786 - CHIA SAMPLES





N
LUTHER, MAINE (17.8 KHZ)

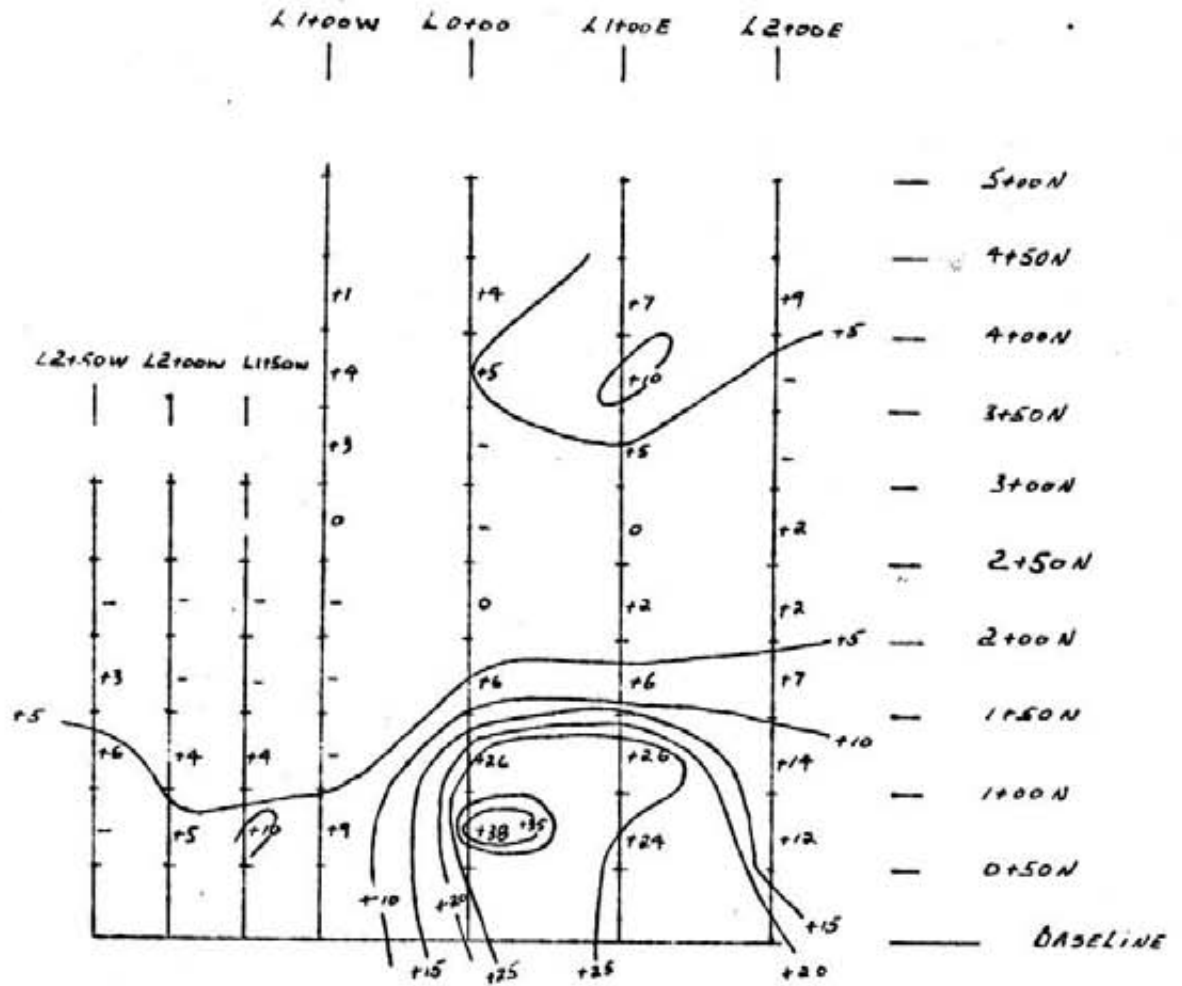
○ — DIP ANGLE

86 | — FIELD STRENGTH (%)

ULF-EM - DIP ANGLE + FIELD STRENGTH



CZ-1 — CONDUCTIVE ZONE



N
 ↓
 CUTLER, MAINE
 (17.8 KHZ)

VLF-EM - FILTERED DATA

+5- CONTOUR INTERVAL



ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

DATE RECEIVED NOV 23 1983

DATE REPORTS MAILED

Nov 25/83

ASSAY CERTIFICATE

SAMPLE TYPE : ROCK - CRUSHED AND PRULVERIZED TO -100 MESH.

ASSAYER *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

MONASHEE GEOLOGICAL

FILE # 83-2997

PAGE# 1

SAMPLE	PB %	ZN %	AG OZ/TON	AU OZ/TON
4786	11.80	5.48	9.62	.007
4787	6.21	6.50	3.29	.001

Monashee Geological Services

P.O. Box 63

Westbridge, B.C. V0H 2B0

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Page 7.

INTRODUCTION

The 'Fran' claim group is located approximately 112 kilometers north of Kamloops, B.C. (Plate 1) on the east side of the North Thompson River. Access is via Highway #5 to Clearwater, B.C. From here, one crosses the Thompson River and follows the Dunn Lake road south for an additional 17 kilometers. At this point a rough bulldozer road has been constructed west to the claim group.

The property occupies the north west flank of Queen Bess Ridge (Plate 2) which is part of the Caribou Mountains. Elevations range from 671 meters on the western edge of the property to 824 meters in the centre. Topography is steep in the western sectors with moderate to slight slopes in the central and eastern portions. The property has sufficient timber, being covered in moderately dense secondary growth coniferous forest, for mining purposes with water readily available from McCarthy Creek.

PROPERTY HISTORY

The claims are currently registered to Mr. David J. Walker of 801 - 3675 - W. 7th Ave., Vancouver, B.C. This property is staked on the easterly trending strike extensions of shear/vein structures that are exposed on two Crown Grants; prospector (L 288) and Ironclad (L 289) collectively known as the Queen Bess Mine. Research of old B.C.M.M. reports from 1918 onwards,

indicates that these claims operated intermittently from 1917 and 1927. Development work shows lead, zinc and silver mineralization in veins that strike to the northeast with dips to the northwest. The property was dormant until 1969 when Junex Mines Ltd. conducted a VLF EM-16 survey (Hings, 1969). This survey outlined a strong anomalous zone in the south east corner of L289 which trends east-west with dips to the south. In 1971 Junex Mines Ltd. conducted a follow up geological and geochemical survey (Elwell, 1971) over the area of the 1969 VLF-EM16 anomaly. This survey indicated zinc and lead anomalies that were open to the south and east of Crown Grant L289. Mr. Elwell considers these soil anomalies to be of minor importance and believes the 1969 EM anomaly to be the result of disseminated pyrite in alteration zones.

PROPERTY GEOLOGY

The property is underlain by triassic volcanic rocks of the Fenest formation consisting predominantly of andesitic lavas. A granitic intrusion is found 8 km. to the south east which probably influenced deformation and mineral deposition of the Fenest formation.

Mineralization of the property, exposed in a number of prospect pits (Plate 3), consists of galena, sphalerite and chalcopryite with accessory silver in a gangue of white quartz. The mineralized veins often occur as discreet, parallel and lenticular stringers (9 cm. wide) in shear/fault zones that range up to 50 centimeters in width. The wall rocks exhibit contact metamorphism and are altered, bleached and limonitic. The exposed structures strike in a northeasterly direction

with steep dips the the northwest. Two chip samples (Plate 3 and 6) were collected for analysis by Acme Analytical Laboratories of Vancouver, B.C.

GEOPHYSICAL SURVEY

During the period November 14-15, 1983, the author conducted a reconnaissance VLF-EM survey (Plate 4-5) over the south central portion of the 'Fran' claims. This survey was undertaken to test the vaildity of the VLF-EM 16 survey of Junex Mines Ltd. as well as to test for and examine the areas outlined by their 1971 geochemical survey. A total of 3 line kilometers were ran consisting of 50 meter stations on 100 meter north-south lines.

A Sabre (Model 27) VLF-EM receiver was used for the survey with Cutler, Baine (17.8 KHZ) as a source of the primary field. Measurements in the field consisted of the dip angle (in degrees) of the resultant electromagnetic field as well as the relative field strength (in per cent) of the field. Office procedure consisted of 'Fraser' filtering the raw data (dip angle) in order to obtain a contourable quantity. The geophysical data was interpreted by the author.

TECHNICAL DATA AND INTERPRETATION

The field results of last years reconnaissance survey are plotted on Plate 4. This map gives the profiled dip angle, in degrees, and the field strength, in per cent, of the individual stations. A number of conductive zones have been outlined. The most prominent of these is CZ-1 which indicates the greatest amount of inflections resulting from a conductive area. This zone has east-west trend and dips northerly and is still open to the south. This zone approximates the trend of the drainage

pattern in this area and could reflect the increased conductivity in these structures. The two zones CZ-2 and CZ-3 are poorly resolved having low responses and inflections though they tend to parallel the trend, but with shallower dips, of the main anomaly CZ-1. Another conductive zone (CZ-4) appears to have strong inflections between the stations but has been cut off due to the limits of the survey. This zone plus CZ-3 are located in an area of old workings with CZ-1 possibly being the faulted, off-set continuation of the mineralized structures observed in the diggings. The faulted off-set of the anomalous structures is supported by the minor conductive zone CZ-2.

The contoured filtered data (Plate 5) has resolved these conductive zones to better advantage and indicates the east-west trend as well as the degree to which the anomalies are open in all directions.

CONCLUSION

The reconnaissance VLF-EM survey indicates a moderately electromagnetic structure in the south-central portion of the 'Gran' claims. This structure, which is frequently off-set, trends in a east-west direction with northerly dips. These conductive zones are open in a southeasterly direction. Mr. Elwell in his 1971 report indicates a substantial lead-zinc soil anomaly in this same area which he concludes "... in no way indicates a heavy concentration of lead-zinc sulphides...". This author considers his geochemical grid to be too limited in size, extent and number of samples to support this conclusion. Therefore, taking into account the VLF-EM anomaly, the previous exploration program and the increased activity in the area caused by the Red Gold/Falconbridge discovery to the south, the 'Gran'

claim group is of renewed interest. It is recommended that additional claims be staked to the south of the 'Fran' claims with a program of soil sampling and geophysical surveying being conducted to trace the extent of the anomalies.

ITEMIZED COST STATEMENT

1. Geologist, 2 days @ \$200.00/day.....	\$	400.00
2. VLF-EM rental, 2 days @ \$40.00/day.....	\$	80.00
3. Food and accommodation - 2 days @ \$50.00/day.....	\$	100.00
4. Transportation - 880 km. @ \$.25/km.....	\$	220.00
5. Report preparation - 1 day @ \$200.00/day.....	\$	200.00
6. 2 Assays Pb & Zn plus preparation.....	\$	39.00
7. Chip Sample Shipment.....	\$	<u>6.50</u>
	TOTAL	\$1,045.50

AUTHOR'S QUALIFICATIONS

I declare, that I, Roy D. Krogosky am a practicing Geologist having graduated from the University of Calgary with a Bachelor of Science degree in Geology in 1971.

Roy Krogosky