### REPORT ON

### GEOPHYSICAL WORK ON AKIE CLAIM GROUP

AKIE RIVER AREA

OMINECA MINING DIVISION

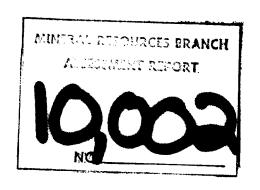
N.T.S. 94F

57°13 N 124°31W

August, 1981

G. R. Coudellier

Aquitaine Company of Canada Ltd.



#### INTRODUCTION

During the latter part of June 1981, an Aquitaine Company of Canada geophysical crew completed 1.9 km of horizontal coplanar loop electromagnetic surveying on the AKI claim group.

The AKI claim group is in the AKIE river area of the Omineca Mining Division, northern British Columbia. (NTS 94F)

The purpose of the geophysics was to see if any conductivity was associated with gossan zones within the Gunsteel shale belt. These gossans had been located by geological work the previous year.

#### **PERSONNEL**

Dave Boerner - graduate student - crew chief

Gary Deering - student
Michael Scrimes - student

#### **EQUIPMENT**

Apec Parametrics Maxin II electromagnetic system.

#### SURVEY PROCEDURE

Two lines were cut on the "A" zone gossan and one line on the "D" zone gossan. A topographical profile of each line was prepared. Stations were established at 25 m intervals horizontally. The lines were surveyed using the 888 HZ and 222 HZ frequencies at a coil seperation of 150 m. The topographic information was used to correct the in-phase data for coil coplanar at all times. The lower frequencies of the E.M. system were used in an attempt to reduce the response of the conductive host.

#### DISCUSSION OF THE DATA

The two lines on the "A" zone reveal that the whole area is underlayen by very conductive carbonceous shale. This conductivity appears to be interrupted by a thin non conductive unit near the centre of each line. This unit may be a thin

Carbonate or Barite bed within the shales. It is very difficult if not impossible to see the response of any lead-zinc-pyrite zone within this type of conductive package.

The one line on the "D" zone reveals two broad conductive zones within a shale package which is more resistive than the "A" area. There is an indication that the core of the broadest conductor has much better conductivity. If the anomalous zinc geochemistry can be associated to this core zone than it may be significant.

#### CONCLUSION

There is good conductivity associated with the gossans however, it is likely the "A" zone conductivity relates to carbonaceous shale. The differentiation of conductivity within the "D" zone is interesting geologically. Perhaps more geological work would shed some light on the importance of the "D" zone.

I. Hendricken

# GEOCHEMISTRY AKI Claim Group

During 1980, a zone of ferricrete and gossan (called "C" zone) was mapped but not sampled during the geological and geochemical survey Aquitaine Company of Canada carried out on the Aki Claim Group.

During the 1981 geophysical survey, thirteen rock and soil samples were collected and assayed for lead, zinc, copper and silver.

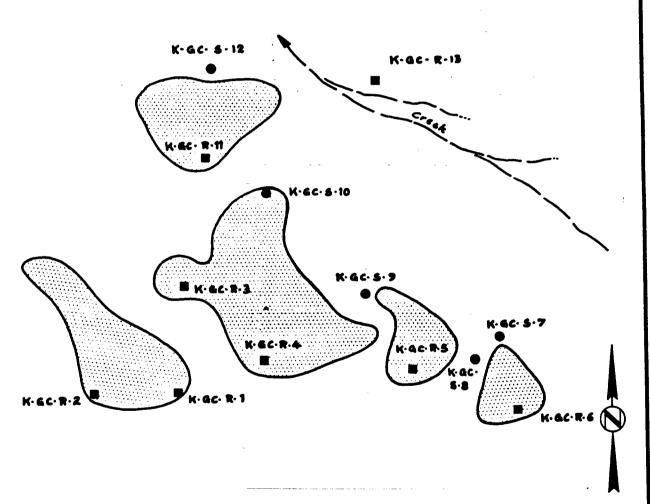
The sampled area covers about 100 X 50 meters. Rock samples mainly consist of gossan or ferricrete material. Soils are generally of red or black colour and derived from the ferricrete or gossan occurences.

Results show a "high background" in zinc (up to 2.45%) Copper is anomaleous in the south-eastern part of the sampled area (168 to 520 ppm). Silver values vary from 1.0 to 2.8 ppm, most of them being higher that 2.0 ppm. There is no anomaly in lead.

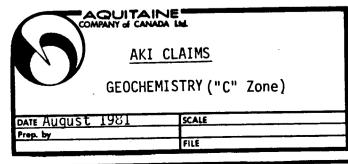
Zinc results are homogeneous with those obtained in 1980 on the "A", "C" and "D" zones. It is interesting to note traces of copper in the "C" zone. Samples were not assayed for copper in 1980.

Guy Coutellier Project Geologist

- Soil sample
- Rock sample
- Ferricrete or gossan occurence



<u>10</u> 20 30 40 m.



To: AQUITAINE COMPANY OF CANADA	LTD.
1700. 555 - 4th Avenue S.W.,	
Calgary, Alberta T2P 3J6	
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\_ATTN: \_\_Joyce Davis\_



File No	21985
Date	August 6, 1981
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ASSAY

# LORING LABORATORIES LTD.

Page # 1

	· · · · · · · · · · · · · · · · · · ·	rage # 1
SAMPLE No.	Z Pb	X Zn
"Soil & Rock"		
81R-K-GC- 1	<del>-</del>	1.85
2	<b>-</b> ,	1.50
3	-	•39
4	<b>-</b>	1.40
5	-	.41
6	-	.54
81S-K-GC- 7	- · · · · · · · · · · · · · · · · · · ·	•33
8	-	.46
9	<del>-</del>	.41
10	<b>-</b>	.74
81R-K-GC-11	•	1.45
81S-K-GC-12	-	.85
81R-K-GC-13	-	2.45
		· -
		T THAT THE ABOVE RESULTS ARE THOSE THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
Pulps Retained one month
unless specific arrangements
made in advance.

Jal Juan America

To:	AQUITAINE	COMPANY	OF.	CANADA	LTD.
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lgary, Alberta T2P 3J6

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Date August 6, 1981

Samples Rock & Soil

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## LORING LABORATORIES LTD.

Page # 2

SAMPLE N	0.	PPM	PPM	PPM	PPM	
	·	Cu	Pb	Zn	Ag	
81R-K-GC-	- 1	8	40	1000+*	2.0	
•	2 3	4	38	1000+*	2.0	
	3	16	32	1000+*	1.0	
	4	96	40	1000+*	2.0	
81R-K-GC-	5	520	50	1000+*	2.5	
	6	168	38	1000+*	2.5	
81S-K-GC-	7	50	40	1000+*	2.0	
	8	180	42	1000+*	2.5	
	9	180	42	1000+*	2.5	
	10	300	40	1000+*	2.8	
81R-K-GC-	11	8	38	1000+*	2.0	
81S-K-GC-	12	38	48	1000+*	1.8	
81R-K-GC-	13	6	44	1000+*	1.5	
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(*) = Assaye	đ			ABOVE RESULTS ARE THO N DESCRIBED SAMPLES		

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Jed Buan

## EXPENDITURES (for geophysical and geochemical survey)

Wages		\$ 830
Helicopter	. * - ē	3,280
Geophysical	equipment	120
Geochemical	assay	100
		\$4,330

