

06-435-15007

GEOPHYSICAL ASSESSMENT REPORT

on the

COKE 1-8 CLAIMS

located in

SIMILKAMEEN MINING DIVISION

92H/10E

49°44'N latitude & 120°32' W longitude

owned & operated by:

Peter Peto
125 Bassett St.
Penticton, B.C. V2A 5W1

written by

P. Peto, Ph.D.

23 June 1986

FILMED

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**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,007

INTRODUCTION

The COKE 1 to 8, 2 post mineral claims are situated within the Aspen Grove Copper belt, north of Missezula Mountain, some 32 km north of Princeton, B.C. The claims were recorded on 25 June 1984 under numbers 2176 to 2183 inclusive. They are accessed via highway 5 and by a series of interconnecting logging roads (fig. 1). Some clearing of the fallen trees was required to reach the claims. The property was formerly known as the Rum claims which were intermittantly explored for their porphyry copper potential by a number of companies (see assessment reports 3565, 6036, 8532 and 9407). Preliminary geochemical sampling by the writer in 1985 indicated the anomalous concentrations of gold are associated with copper mineralization within the micro-dioritic porphyry sill (?). The present VLF-EM16 survey was undertaken in order to see whether the Missezula Mountain fault(s) could be traced using VLF electromagnetic methods. The fault is known to be mineralized and hydrothermally altered and may have acted as a locus for mesothermal precious metal mineralization in volcanoclastics adjacent to the subvolcanic microdiorite.

TECHNICAL DATA

A total of 5 line km of gridline at 25 meter spacings were surveyed on 21 June 1986. A Saber model 27 VLF, tuned to Seattle (18.6 KHz) was used to measure field intensity and vertical component tilt angle over the survey area. Raw data are plotted in figure 2.

INTERPRETATION

Fraser-filtered tilt angles are plotted on Figure 3 and the 10 degree value is used to outline the major conductive trends. The survey appears to indicate the presence of rather weak, discontinuous, north trending conductors which broadly conform to ridge and drainage patterns over the survey area. These are believed to reflect weakly conductive fault traces which comprise the Missezulê Mountain fault system. Intersecting conductors may represent favourable exploration targets. Additional VLF-EM surveying appears to be warranted to extend the survey

area and to delineate conductive cross structures to the main fault zone.

ITEMIZED COST STATEMENT

WAGES: One day field survey @ \$300/day.....	\$300.00
" " report preparation @ \$200/day.....	200.00
TRANSPORTATION: 230 miles on 4x4 vehicle @ 20¢/mile.....	46.00
VLF-rental: one day @ \$25/day.....	25.00
Expendibles, stationary, photocopying etc.....	20.00
Food & accommodation, one day @ \$50/day.....	50.00
	<hr/>
TOTAL COST	\$641.00

QUALIFICATIONS

The author is a member of the geological association of Canada and has been a professional exploration geologist since 1967.

Respectfully submitted,

Peter Peto

Peter Peto, Ph.D.



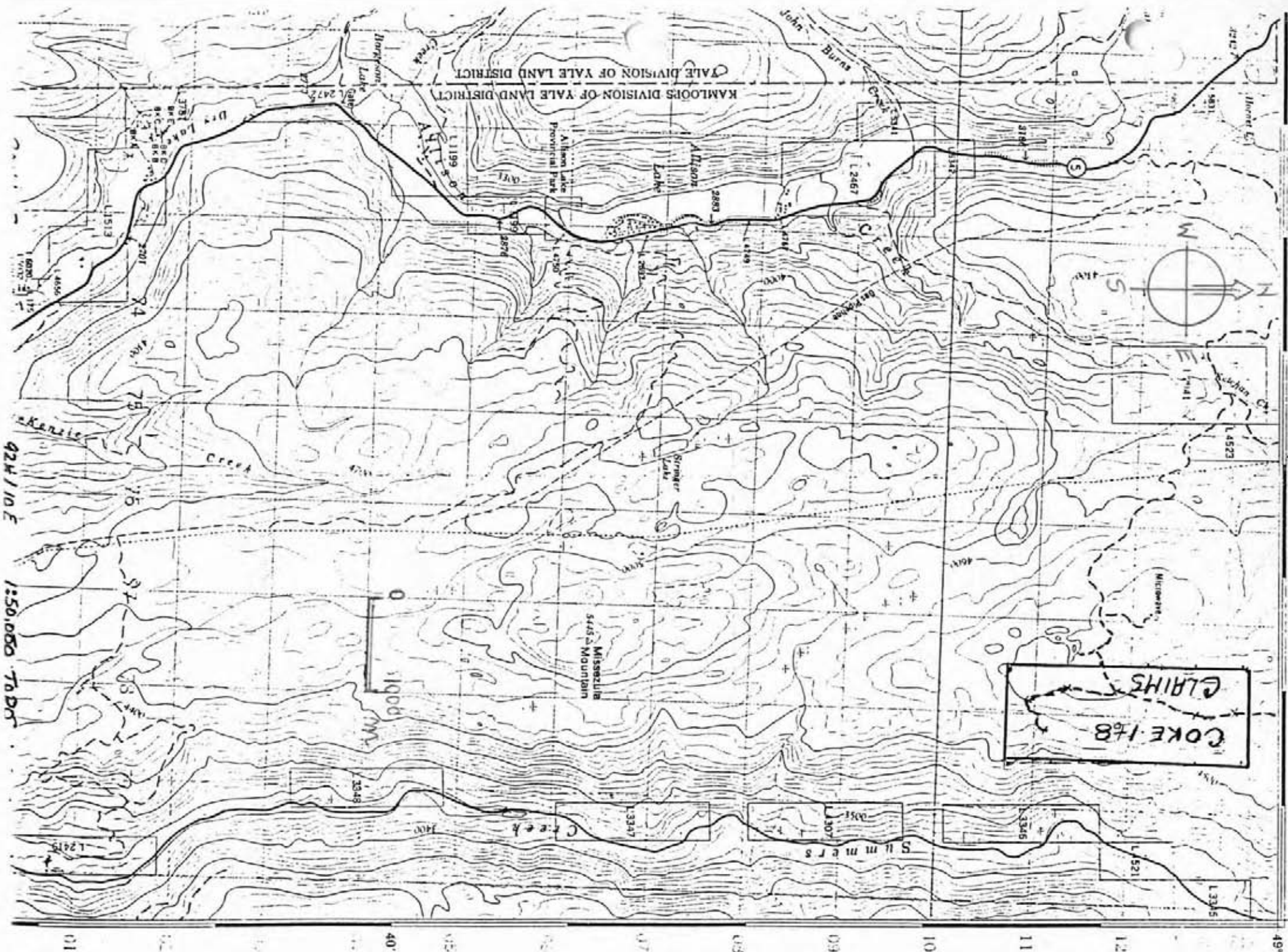
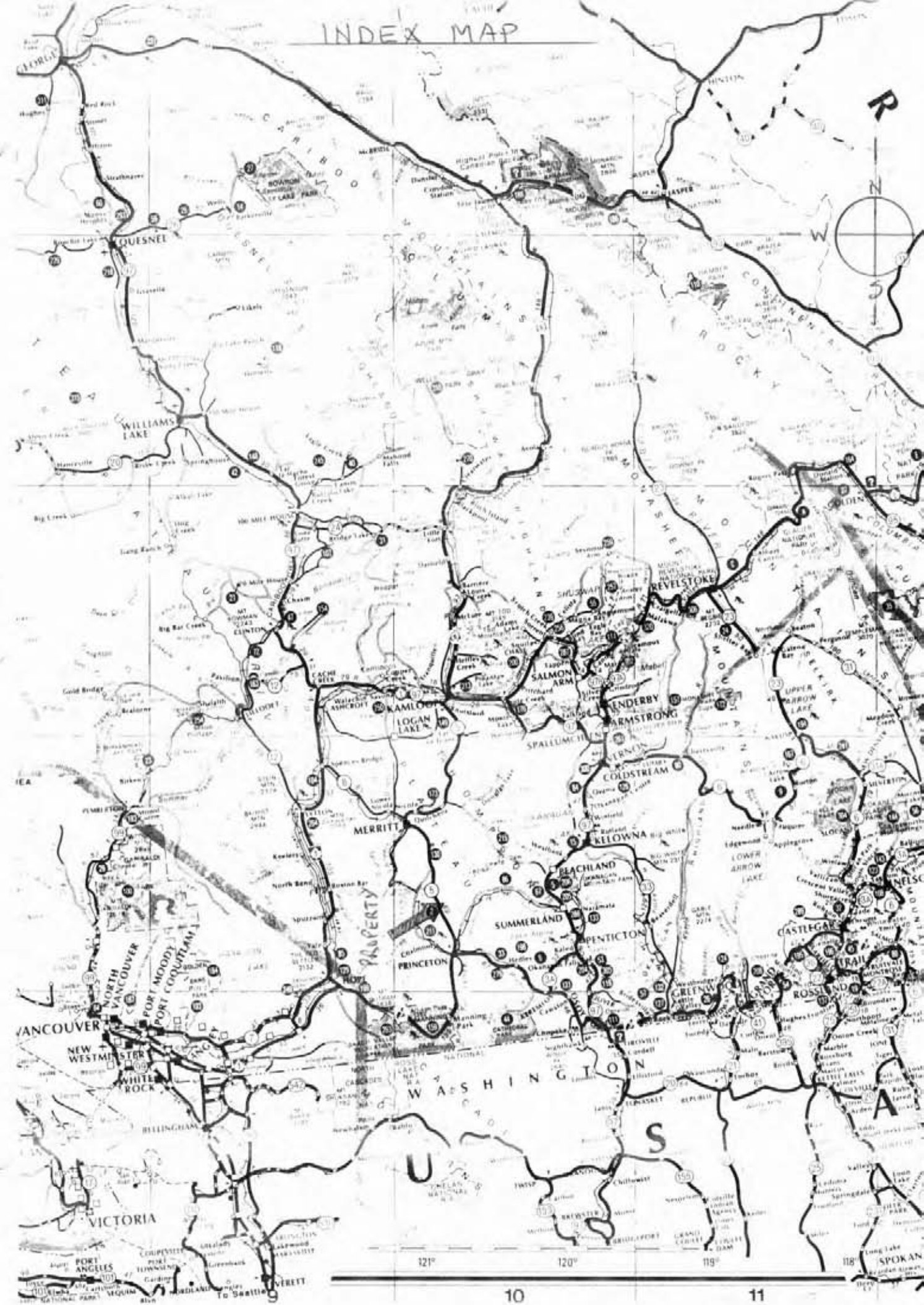


FIGURE 1

INDEX MAP



121°

120°

119°

118°

10

11

L50S'

HORIZONTAL TILT ANGLE (degrees)

FIELD STRENGTH (VERNIER=10)

24 9 14 16 22 16 17 10 20 15 20 15 50 45 22 42 32 24 6

85 77 82 85 87 85 90 96 83 85 100 100+ 100+ 100+ 99 92 87 82 82

L50S'

FIGURE 2

L55S'

16 18 28 40 35 16 0 12 12 14 16 8 11 4 15 15 0
90 85 85 87 95 100+ 99 92 87 85 90 85 82 84 80 90 87

18 18 20 8 8 15 22 17 18 14 3 0 7 30 31 11 17
87 87 92 92 87 82 87 97 100+ 100+ 95 97 93 98 93 87 87

L55S'

L60S'

18 15 24 20 21 30 12 12 28 17 2 5 0 13 5 21
82 80 83 85 82 90 98 87 92 92 87 86 15 74 82 82

13 26 0 27 22 24 18 21 20 6 15 6 6 9 10 6 15
92 92 85 86 87 87 92 100 100+ 97 97 97 97 88 90 90

L60S'

L65S'

0 1 2 1 5 5 5 2 1 1 1 1 -2 -2 2 2 22 20 28 32 12 18 13 15 15 5 -5 -10 1 20 10 18 1
80 75 75 22 82 85 87 9 87 82 87 92 87 87 83 83 85 90 32 100+ 79 90 99 96 100 100 100 100 97 87 87 87 87

22 20 28 32 12 18 13 15 15 5 -5 -10 1 20 10 18 1
85 90 32 100+ 79 90 99 96 100 100 100 100 97 87 87 87 87

L65S'

L70S'

10 -4 -8 0 2 1 5 6 2 0 -5 0 -3 -4 -3 +6
96 92 87 82 84 83 85 88 95 92 85 90 85 82 80 78

7 4 9 7 0 -1 -4 -1 -1 -5 -2 1 -1 -4 -7 -2 -8 -5
80 86 91 96 92 91 91 87 80 80 89 80 85 87 77 77

L70S'

L75S'

4 3 5 2 0 2 6 10 8 4 4 -2 3 1 3 0
82 87 90 79 79 77 75 75 85 82 85 92 80 74 80 80

4 5 0 5 4 -5 -10 -13 -8 -7 -7 -4 -6 -8 -10 -8 -8 -16
84 85 83 82 90 92 84 82 77 76 76 73 80 80 85 79 80 80

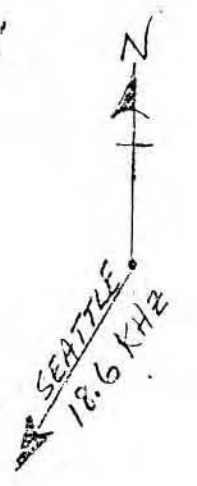
L75S'

L80S'

2 3 3 6 4 0 3 5 6 10 6 0 11 -7 -8 -7
80 90 79 79 94 82 82 87 85 95 100+ 90 100 95 92 93

-2 2 0
90 87 82

L80S'



COKE #1

COKE #3

COKE #6

COKE #5

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COKE 1-8 CLAIMS	
VLF-EM 16 SURVEY	
RAW DATA	
SABER MODEL 27	P. PETO
SCALE: 1:2500	23 JUNE 1986

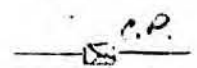
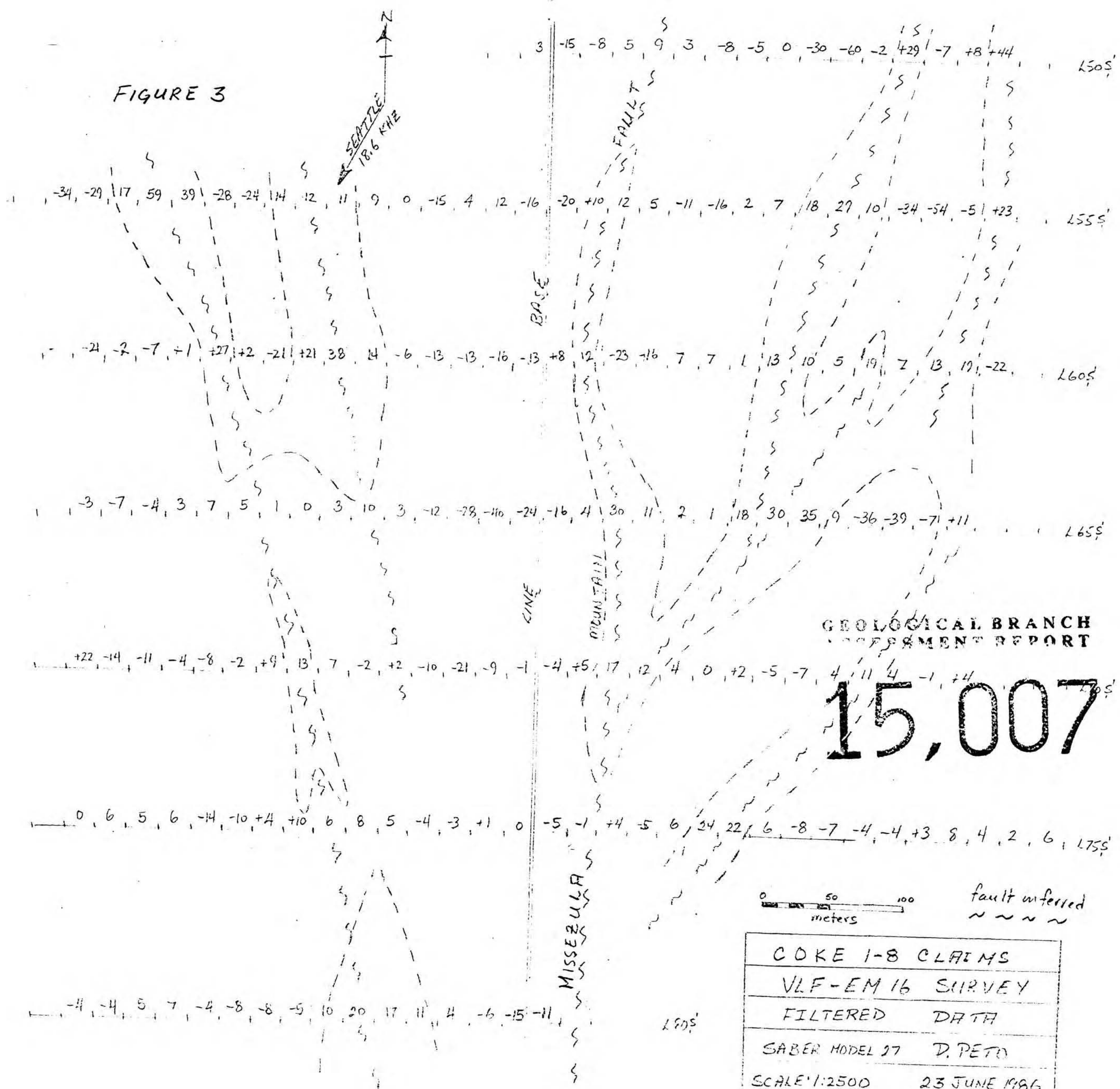


FIGURE 3



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DEPARTMENT REPORT

COKE 1-8 CLAIMS	
VLF-EM 16 SURVEY	
FILTERED DATA	
SABER MODEL 27	D. PETO
SCALE 1:2500	23 JUNE 1986