

87-419-16145  
6/88

ASSESSMENT REPORT

GEOLOGICAL/GEOCHEMICAL WORK

ON

ESTHER MINERAL CLAIM

RECORD NO. 1470 (7)

LOCATED AT KENNEDY RIVER, VANCOUVER ISLAND, B.C.

LATITUDE: ~~49° 14'~~ 49° 10'

LONGITUDE: 125° ~~23' W~~ 25' 18" W

FILMED

CLAIM SHEET NTS 92F/3 ~~14~~ W

ALBERNI MINING DIVISION, SOUTHWESTERN BRITISH COLUMBIA

ON BEHALF OF

*Owner/Operator:* J.S. LAMPMAN

WEST VANCOUVER, B.C.

REPORT BY:

DR. W.D. GROVES, P.Eng.  
200-675 WEST HASTINGS STREET  
VANCOUVER, BRITISH COLUMBIA

REPORT DATE: 20 JUNE 1987

16,145

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

## TABLE OF CONTENTS

	PAGE
ABSTRACT.....	1
INTRODUCTION.....	2
A.    Location, Access, Physiography.....	2
B.    Claim Information.....	2
C.    References.....	2
D.    Summary of Work Done.....	3
TECHNICAL DATA AND INTERPRETATION.....	3
A.    Geology.....	3
1.    Regional Geology.....	3
2.    Property Geology.....	4
B.    GEOCHEMISTRY.....	5
1.    Field Procedure & Laboratory Analysis.....	5
2.    Stream Sediment Sampling Results.....	5
CONCLUSIONS.....	6

## APPENDICES

APPENDIX I	Work Cost Statement
APPENDIX II	Certificate, W.D. Groves, P.Eng. Certificate, Norman Pearson, Prospector
APPENDIX III	Assay Certificate

## ILLUSTRATIONS

Figure 1	Area Map, Scale 1:300,000 Showing Esther Claim
Figure 2	Claim Map 92F/3W Scale, 1:50,000 Shows Esther Claim 2S x 4W 8U, NE LCP #13309 Rec. No. 1470(7)'
Figure 3	Regional Geology, After Muller (1962) Scale 4 in. = 1 mile (1:253,440) Shows Esther Claim, Major Rock Units
Figure 4	Topog Map, Esther Claim Scale 1:5,000, with Stream Sediment Geochem Sample Points: Au (ppb), Ag (ppm)
Figure 5	Above, with Stream Sediment Geochem: Cu, Pb, Zn, As (ppm)

## **ABSTRACT**

The Esther mineral claim is south, adjacent to the Bear Group of Crown Grants, currently under option to Kerr-Addison Gold Mines Ltd. Physiography of the Esther claims suggests Esther Creek, which drains S70W across the middle of the claims, is another fault-guided structure in the Vancouver Group Mesozoic volcanics.

A new logging road crossing the Kennedy River on an all-weather metal-girder bridge a few km south of the claim, provides all-weather access to the claim's SW corner, as well as new rock-cut exposures in the Vancouver Group and a small intrusive stock.

The purpose of this study is to take stream sediment samples in Esther Creek to see if any gold anomalies could be detected. At one point I-9 showed 610 ppm, which was definitely anomalous over a background of less than 5 ppb Au in the other nine samples. A small follow-up program on this area of the stream is suggested.

## **INTRODUCTION**

### **A. Location, Access, Physiography**

The Esther claim is located on the west side of the Kennedy River approximately 6 1/2 kilometers upstream from the head of Kennedy Lake. It is roughly bounded by the Kennedy River on the east and Crown Grants known as the Bear claims to the north and Crown Grants L1436 and 1439 and Luckey River claim to the south, with the Mojo claim west.

Topography consists of SW-opening till-covered basin in Lower Esther Creek and on upper fault-slot creek course, with various small tributaries, some from Bear Ridge which form the north side of the creek bowl. Valley moraine re-worked by the Kennedy River fills the flats overlain by backswamp clay. Bedrock is Karmutsen greenstones, with fault gulleys marking fault structures. Area has recently been logged and is slash.

### **B. Claim Information**

Esther Claim Record No. 1470 (7), Anniversary Date, July 29/82, 8 units, on Claim Sheet NTS 92F/3W, Alberni M.D., southwestern, B.C., 2Sx4W form NE LCP #13309. Located on the east bank of Kennedy River, claim was staked by prospector, Ken Gourley, and was subsequently bought 100% interest by Mr. Secord Lampman of Vancouver, B.C. Claim is currently in good standing, in its fourth year (requires \$200 x 8 = \$ 1,600).

### **C. References**

1. Geology and Mineral Deposits of Alberni Map Area, British Columbia (92F). Geological Survey of Canada, Paper 68-50. J.E. Muller and D.J.T. Carson, 1969.

2. Gold Bearing Deposits on the West Coast of Vancouver Island between Esperanza Inlet and Alberni Canal. Geological Survey of Canada, Memoir 204 by M.F. Bancroft, No. 2432, 1937.
  3. Eastwood, G.E.P. Bulletin No. 55, Geology of the Kennedy Lake Area, Vancouver Island, British Columbia, B.C. Department of Mines and Petroleum Resources, 1968.
  4. Noranda Mines: Assessment Work Report, Airborne Geophysical Survey, Brynnor Mine Area.
  5. Old B.C. Ministry of Mines Annual Reports.
- D. **Summary of Work Done**

Prospecting plus stream sediment geochem sampling. Ten samples assayed by Chemex Labs Ltd. for Au (ppb), Ag (ppm), Zn (ppm), Zn, As (ppm).

## **TECHNICAL DATA AND INTERPRETATION**

### **A. Geology**

#### **1. Regional Geology**

Regional geology of the area consists of a Mesozoic submarine volcanoclastic unit (the Vancouver Group) now regionally folded on NW by W axes, cut by NNE and NW by W/steep faults, and intruded by 3 sets of intrusions: older intrusives, roughly Coast Range age, Late Mesozoic granodiorite and Tertiary age stocks of leucodiorite. The Vancouver Group rocks represent an accretion onto the western edge of the continent of a long submarine platform originally formed by seabottom rifting vulcanism. It consists of up to 10,000 feet of submarine

metabasalts chloritized by reaction with percolating seawater under ocean-bottom pressures. This is the Karmutsen series of metabasalts and pillow lavas.

The overall trend of the old seabottom rift line in its present docked orientation is thought to be about N70<sup>0</sup>W, but cross-arc rifting and/or tear faulting, and cross arc and spreading line fault repropagation may complicate this block geometry and various post docking block movements. Offridge and center line depression limestone lenses and argillite associated with this platform are known as the Quatsino Limestone and Parson's Bay, respectively. These limestones had to be deposited within about 5,000 feet of sea level at time of deposition.

The Vancouver Group Late Paleozoic probably "piggybacked" on the back of an older seabottom spreading center sequence, the Sicker Group. The main rift axis of the Sicker is parallel, but on the east side of Vancouver Island a NNW axis roughly passing through Nimpkish Lake, Buttle Lake and Mt. Sicker, all marked by seabottom "black smoker" type massive polymetallic sulfide deposits in the Myra Formation of the Lower Sicker. Sicker rocks are generally grayer, more siliceous and more "ashy" with a modal composition more towards rhyodacite than basalt. Intruded Sicker Group rocks are present in hosts and "windows" in the general Kennedy Lake-Tofino area.

## **2. Property Geology**

The Esther claim is underlain by units of the Vancouver Group Mesozoic volcanics locally, mostly the Karmutsen massive meta-andesite flows and Bonanza Group felsic pyroclastic flows and breccias. The claim covers the drainage of Esther Creek which crosses the middle of the western half of the chain in a S70

direction, following a N70W/steep fault cutting the volcanics. This fault is south of and sub-parallel to the N70<sup>0</sup>W Bear Fault which hosts a significant gold-quartz-sulfide fault vein deposit being developed by Kerr Addison Gold Mines Ltd. Because of heavy bush and drift cover, and the mess left by recent logging, it was decided to make a preliminary examination of possible mineralization in the Esther Creek Fault by taking stream sediment geochem samples, and analyzing these for gold (ppb), Ag, and base metals. (The base metal suite accompanying the Bear Fault deposit is iron, Zn, Cu, Pb and minor Te, As, Sb.)

Tertiary era volcanics form arcing dykes, small intrusions, etc., in the area, and are extremely difficult to distinguish from the older Mesozoic Vancouver Group. The property has not yet been mapped in detail, so that such features are not yet known.

## **B. Geochemistry**

### **1. Field Procedure & Laboratory Analysis**

Mr. Pearson and Mr. Lampman traversed the Esther Creek collecting soil stream sediment and rock samples. These samples were placed in soil sample bags and marked, showing location of sample on map and identifying number, i.e., A1 - B2, etc. These samples were then left to dry, then turned over to Chemex Labs Ltd. for appropriate testings.

### **2. Stream Sediment Sampling Results**

One stream sediment point, I-9, yielded a substantial (610 ppb) Au anomaly significantly above background of the other 9 samples. No anomalous behavior in Ag or base metal values was

values was noted.

## CONCLUSIONS

1. At least one stream sediment sample (I-9) contained what must be particulate gold, unaccompanied by a base metal signature.

Copper (ppm) was relatively elevated, but uniform in the 80-100 ppm range; Pb is insignificant at 1 ppm ; Zn is in its normal range 75-85 ppm range; Silver is non-anomalous at .1 ppm uniform; As is low and non-anomalous in the 1-6 ppm range; One gold value was anomalous (I-9).

2. A small follow-up close-sampling and bark geology effort is warranted about I-9.

*Respectfully submitted  
William J. Groves.  
P.D. Play.*



**APPENIX I**

**WORK COST STATEMENT**

## APPENIX I

### WORK COST STATEMENT

1.	Geology and Project Supervision:		
	Norman Pearson (prospector)		\$ 150/day
	S. Lampman		\$ 100/day
	Dr. W.D. Groves		\$ 350/day
		<u>NP</u>	<u>SL</u>
	March	1/2	1/2
	March	<u>1</u>	<u>1</u>
		\$225	\$150
	Dr. W.D. Groves Supervision, 1 day - \$ 350		
	Sub total:		\$ 375
			<u>350</u>
			\$ 725.00
2.	Transportation		
	Two men - ferry trip		225.00
	Gas, mileage- \$0.40/mile		
	200 miles round rip		
	Accommodation- 2 men		<u>150.00</u>
	Inight, Port Alberni and food		\$ 1,100.00
3.	Report Preparation		
	Dr. W.D. Groves, 1/2 day	175.00	
	S. Lampman, 1 day	100.00	
	N. Pearson, 1/2 day	<u>75.00</u>	350.00
	Sample Location Map - Drafting	60.00	
	Text: rough draft & word printer	130.00	
	Xerox copies- map, report	<u>20.00</u>	210.00
	Chemex Labs Ltd.		
	6 soil and sediment -80 mesh		163.60
	4, 35 sieve and ring		<u>163.60</u>
	Total Work Cost:		\$ 1,823.60
			=====
	(4th year 1 yr 80 x 200 = 1,600)		

**APPENDIX II**  
**CERTIFICATES**

## CERTIFICATE

I, William D. Groves, do hereby certify that:

1. I, William D. Groves, am a Consulting Engineer (geological) with an office at 200-675 West Hastings Street, Vancouver, British Columbia, V6B 4Z1.
2. I am a graduate of the University of British Columbia (B.A.Sc. in Geological Engineering, 1960). I am a graduate of the University of Alberta, B.Sc., in Chemical Engineering in 1962, and of the University of British Columbia with a Ph.D. in Chemical Engineering in 1971.
3. I am a registered Professional Engineer in the Province of British Columbia.
4. I have practised my profession since 1960.
5. I have visited the Esther property to supervise geochemical sampling and geological work, and supervised the work of prospector Norm Pearson in March 1986.
6. I have not received directly or indirectly, nor do I expect to receive any interest, direct or indirect, in the Esther property.

Respectfully submitted,

*William D. Groves*  
*Ph.D. P-Eng.*  
William D. Groves, Ph.D., P.Eng.

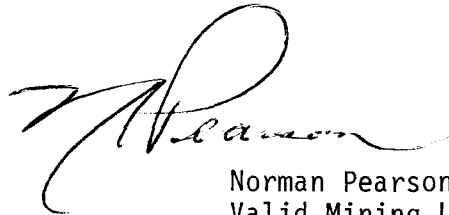
## CERTIFICATE

I, Norman Pearson, have been employed as a prospector in the Yukon, British Columbia and the Western United States since 1975.

Work programs were completed for Crescent Mines Ltd., Clear Mines Ltd., Extotal Resources Ltd., and Jasmine Resources Ltd., to name a few.

A work program consisting of creek and soil sampling on the Esther claim, Kennedy River, was carried out for Secord Lampman on Vancouver Island, Kennedy Lake Mining Division, in March 1986.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'N. Pearson', with a large, stylized initial 'N'.

Norman Pearson  
Valid Mining License  
#Pearna 212842

**APPENDIX III**

**ASSAY CERTIFICATE**



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 Brooksbank Ave.  
North Vancouver, B.C.  
Canada V7J 2C1  
Phone: (604) 984-0221  
Telex: 043-52597

CERTIFICATE OF ANALYSIS

TO : LAMPAN, J.S.

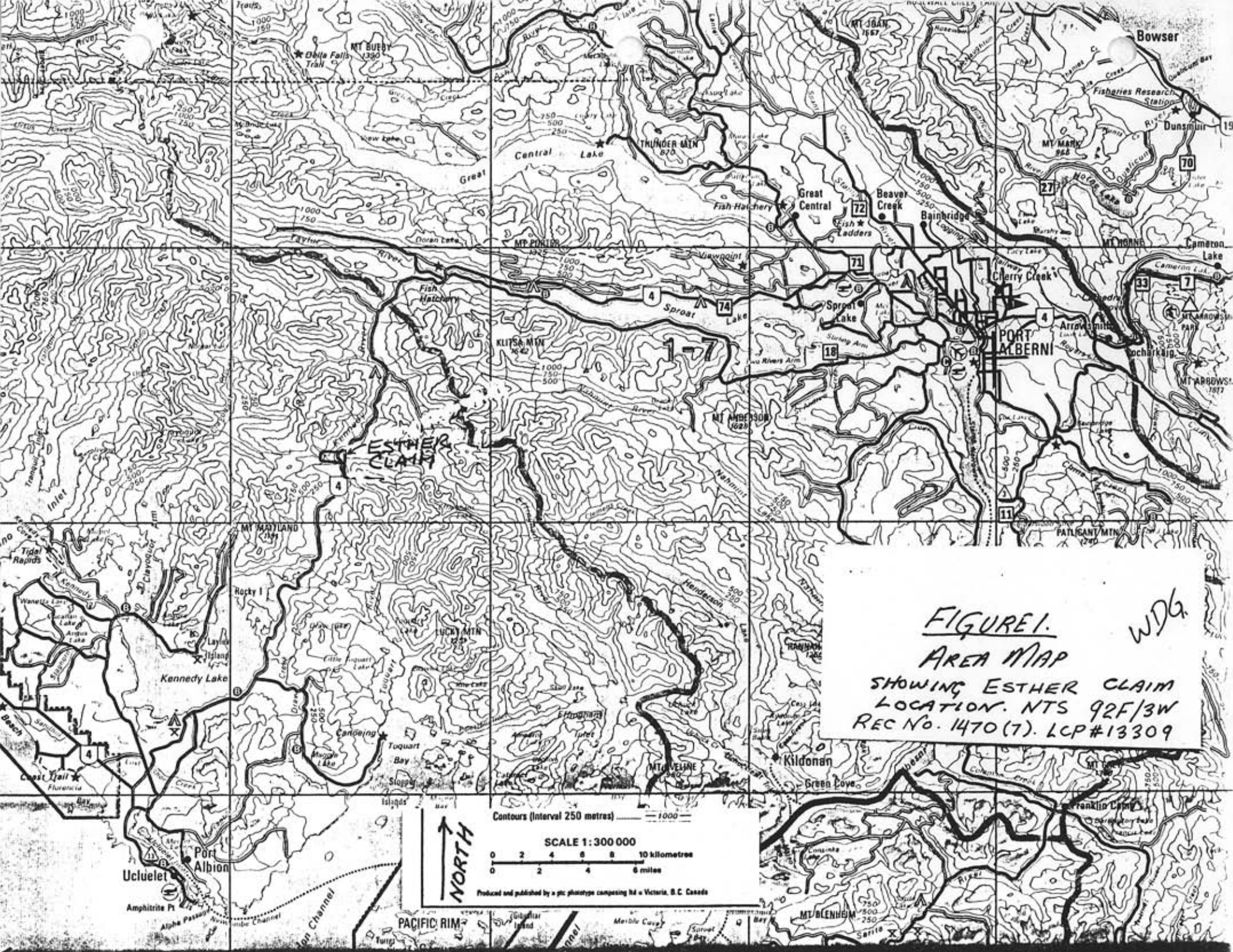
2006 - 1552 ESQUIMALT AVE.  
WEST VANCOUVER, BC  
V7V 1R3

\*\* CERT. # : A8621365-001-A  
INVOICE # : I8621365  
DATE : 4-DEC-86  
P.O. # : NONE  
ELDEN 20752

Sample description	Prep code	Cu ppm	Po ppm	Zn ppm	Ag ppm Aqua R	AS ppm	Au ppb FA+AA
A1	201	84	1	80	0.1	1	<5
B2	201	89	1	84	0.1	3	<5
C3	201	91	1	87	0.1	2	<5
D4	201	99	1	79	0.1	5	<5
E5	201	89	1	76	0.1	4	<5
F6	203	66	1	88	0.1	4	<5
G7	203	73	1	77	0.1	4	<5
H8	203	86	1	87	0.1	2	<5
I9	201	95	1	35	0.1	6	610
J10	203	86	1	81	0.1	3	<5

*W.P.G.*

Certified by *Hart Bichler*



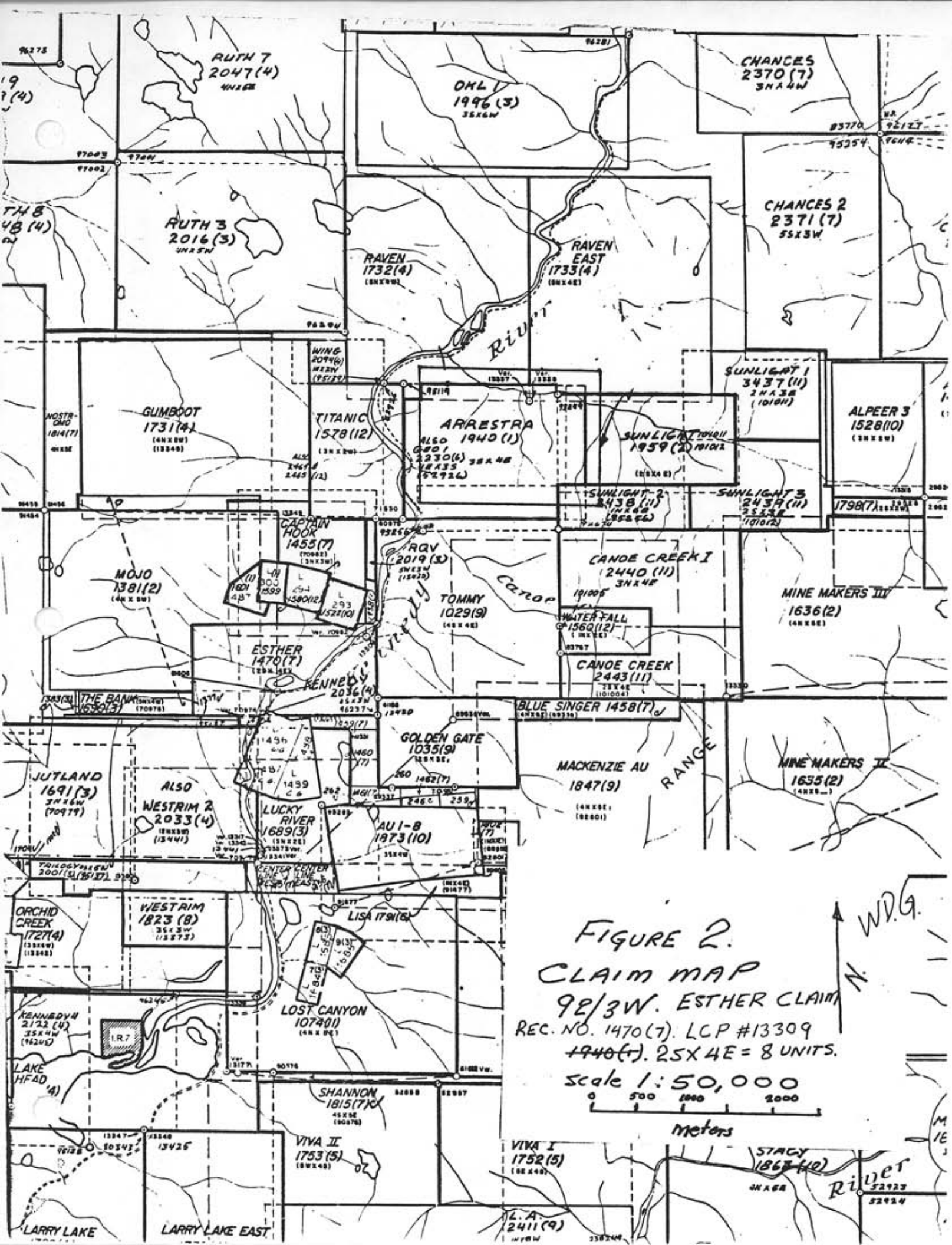
**FIGURE 1.** *wda*  
**AREA MAP**  
 SHOWING ESTHER CLAIM  
 LOCATION. NTS 92F/3W  
 REC No. 1470(7). LCP#13309

Contours (Interval 250 metres) — 1000 —  
 SCALE 1: 300 000  
 0 2 4 6 8 10 kilometre  
 0 2 4 6 miles  
 Produced and published by a p.c. phototype composing 34 - Victoria, B.C. Canada



PACIFIC RIM  
 Coastal  
 Meride Cove  
 Strait





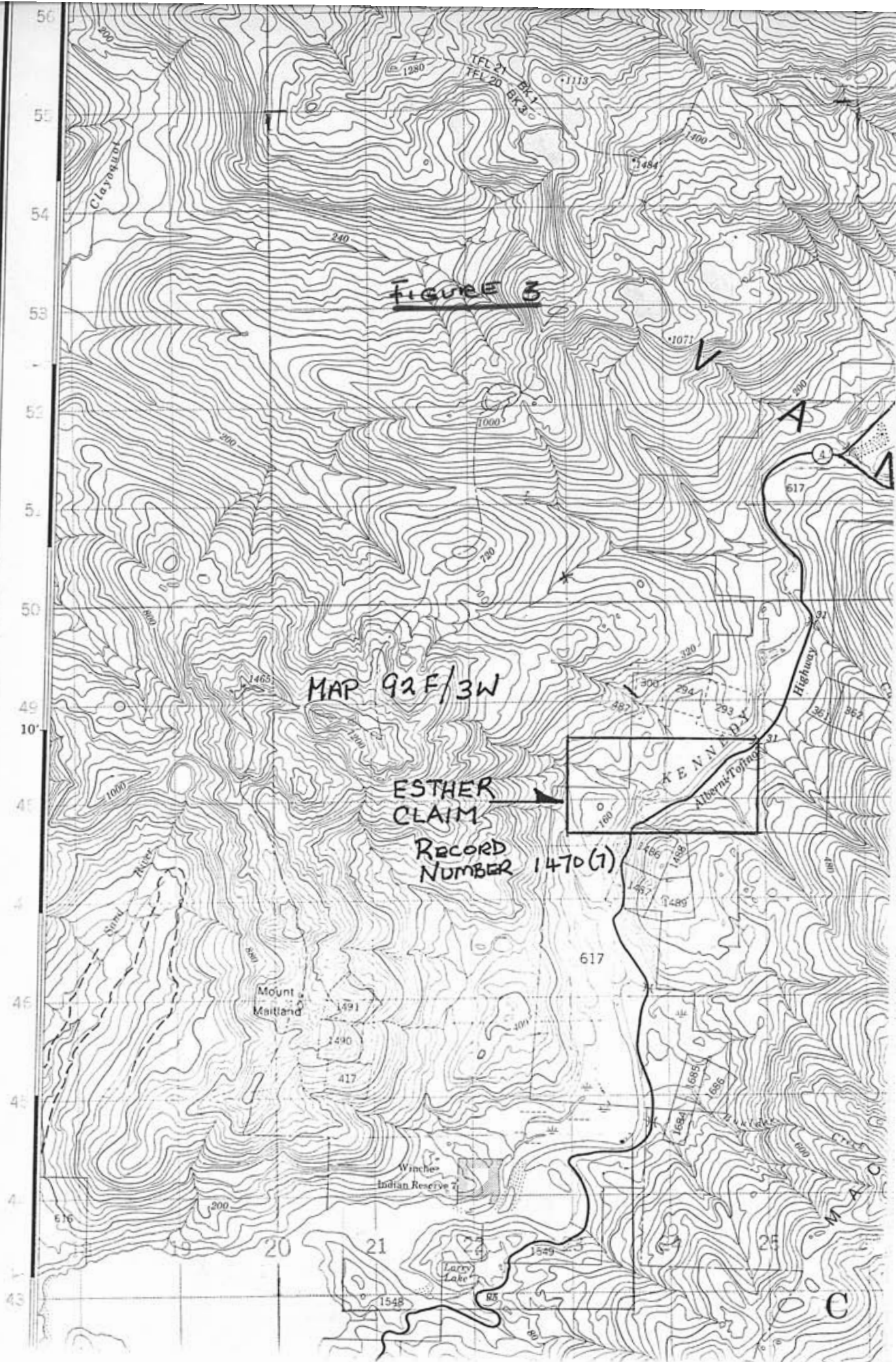
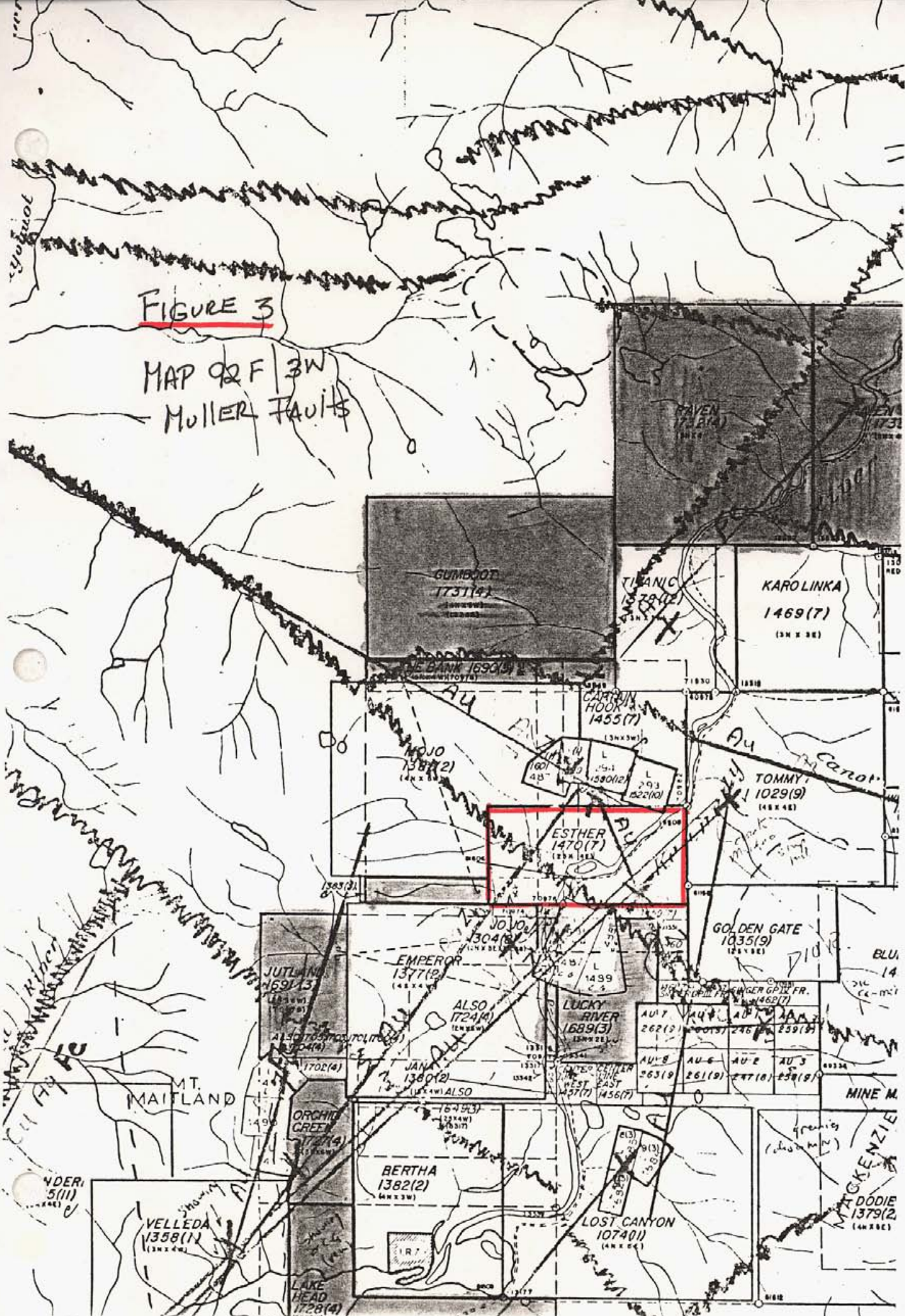


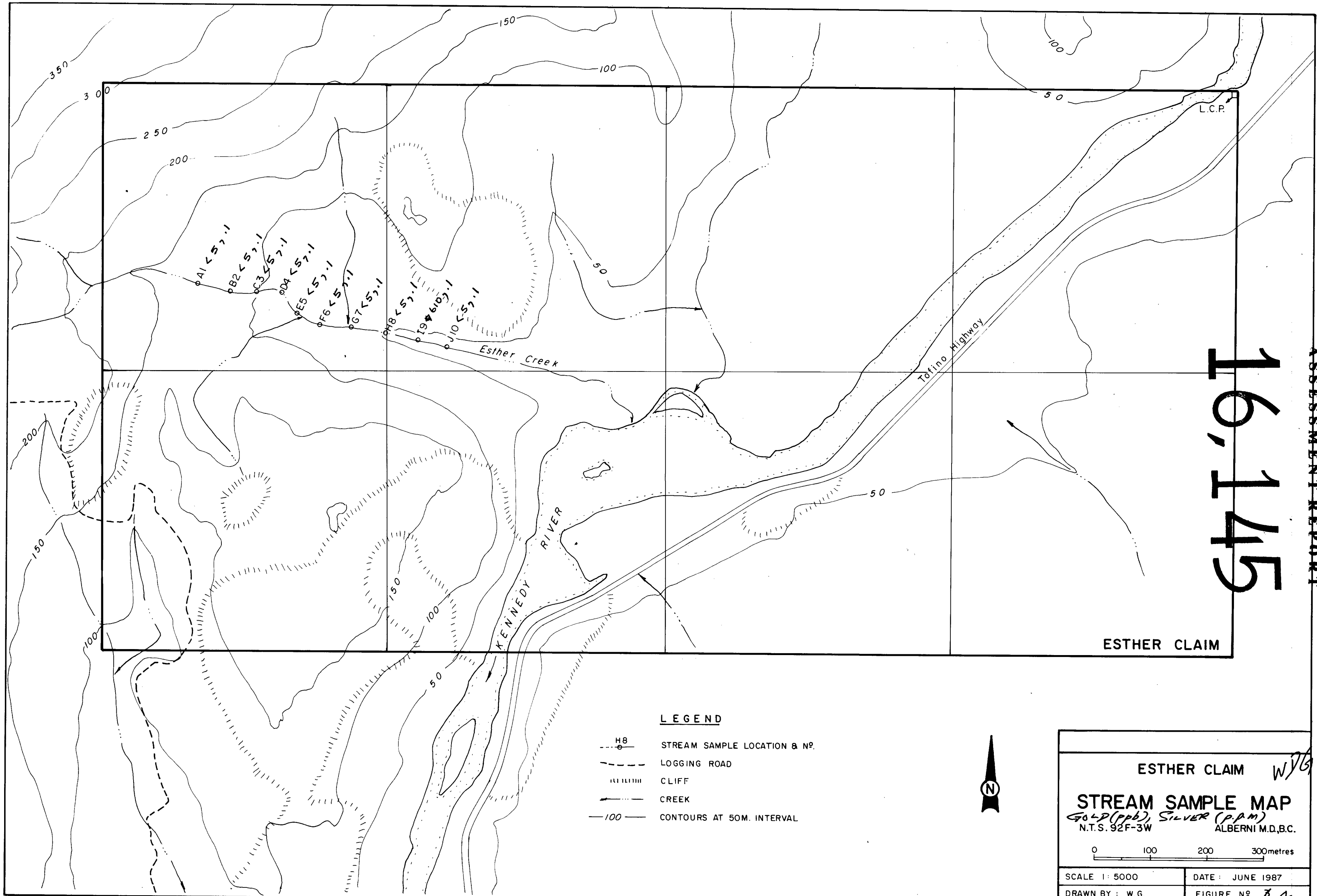


FIGURE 3

MAP OF 3W  
MULLER FAULTS



# 16,145



ESTHER CLAIM

**LEGEND**

- STREAM SAMPLE LOCATION & N<sup>o</sup>.
- LOGGING ROAD
- CLIFF
- CREEK
- CONTOURS AT 50M. INTERVAL

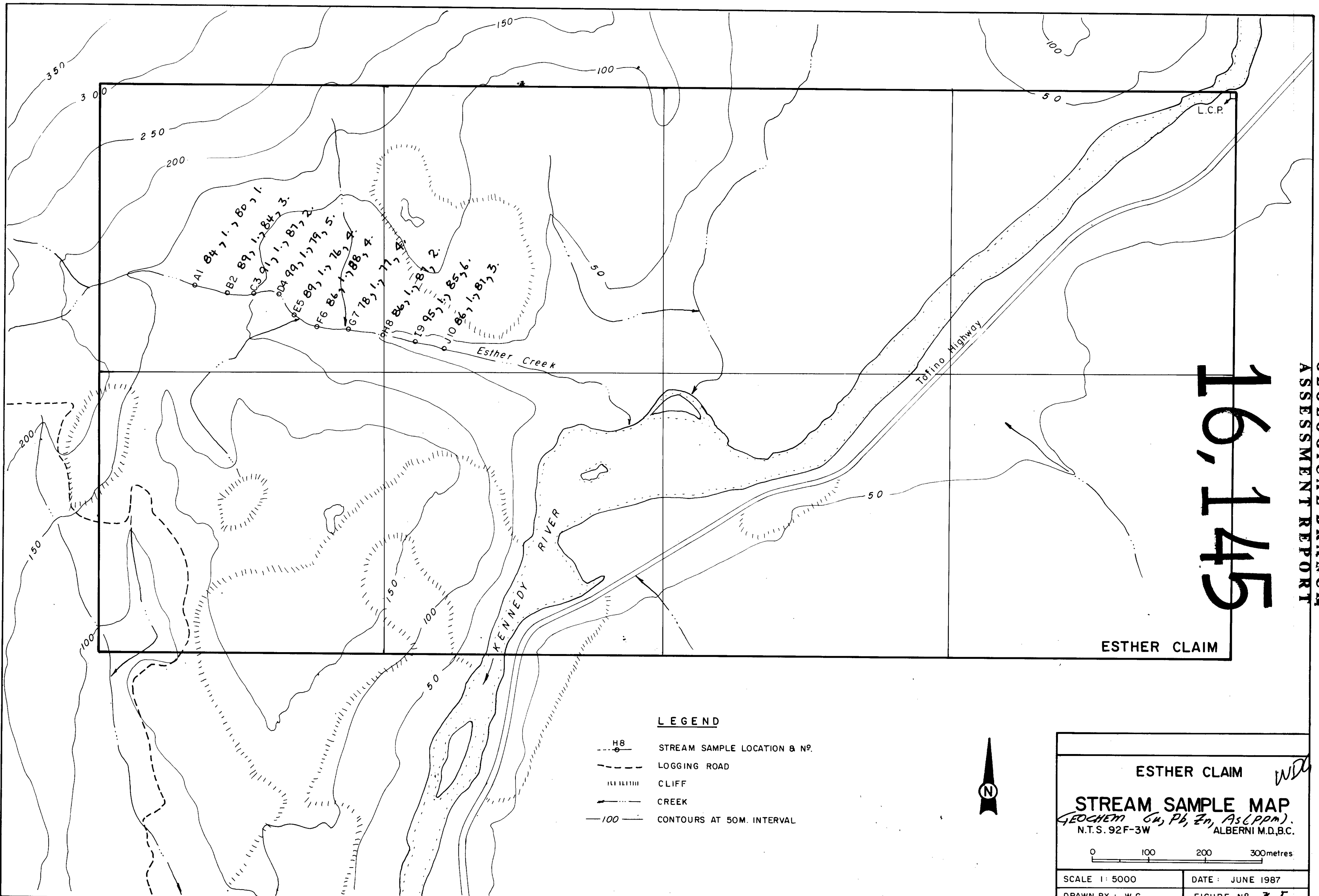


ESTHER CLAIM <span style="float: right;">WJG</span>	
<b>STREAM SAMPLE MAP</b>	
<i>GOLD (P.P.B.), SILVER (P.P.M)</i>	
N.T.S. 92F-3W ALBERNI M.D.B.C.	
SCALE 1: 5000	DATE: JUNE 1987
DRAWN BY: W.G.	FIGURE N <sup>o</sup> . 4



# 16,145

ESTHER CLAIM



**LEGEND**

- H8— STREAM SAMPLE LOCATION & NO.
- - - LOGGING ROAD
- ||||| CLIFF
- CREEK
- 100- CONTOURS AT 50M. INTERVAL



ESTHER CLAIM <span style="float: right;">W.G.</span>	
<b>STREAM SAMPLE MAP</b>	
GEOCHEM Cu, Pb, Zn, As (PPM).	
N.T.S. 92F-3W ALBERNI M.D., B.C.	
SCALE 1: 5000	DATE: JUNE 1987
DRAWN BY: W.G.	FIGURE NO. 5