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REPORT ON  
GEOLOGICAL, GEOCHEMICAL &  
GEOPHYSICAL SURVEY  
ON THE  
ADAM CLAIMS PROPERTY

FILMED

Nanaimo Mining Division  
British Columbia  
NTS 92L/8E  
Latitude 59 22' North  
Longitude 126 10' West

FOR  
Germa Minerals Inc.  
#162 - 11080 Williams Road  
Richmond, B.C. V7A 1X8

AUTHOR  
L. John Peters, B.Sc. Geologist

DATE  
October 31, 1988

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**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

18,255

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## 1.0 SUMMARY AND CONCLUSIONS

At the request of Germa Minerals Inc. a mineral exploration program was conducted over the Adam Group of claims by Cossack Gold Mining Corp. The program was undertaken with the intent of delineating copper anomalies reported by Sayward Exploration Co. (1972).

The survey program, completed September 5, 1988, is the result of a compilation of historical research material and geological, geochemical and geophysical surveys of the property.

The Adam Group, composed of the Adam's Gold and Eve's Gold claims, is located on the banks of the Adam River, approximately 20 km west of the town of Kelsey Bay. Access to the property is via highway #19 north from Nanaimo.

The property is predominately underlain by an assemblage of volcanic rocks of Upper Triassic and earlier age known as the Karmutsen Group which are intruded by granodiorites of the Middle Jurassic Island Intrusives. Hydrothermal mineralization consists of disseminated pyrite and chalcopryrite and with galena, bornite, and sphalerite, which is associated with a series of shear zones within the basalts.

Copper mineralization was first discovered on the property in the late 1960's during the development of logging roads. Soil and stream geochemical, recorded the presence of chalcopryite-bornite-malachite-azurite mineralization. A magnetometer survey was of only limited use in defining the mineralization. Six diamond drill holes totalling 1748 feet intersected disseminated pyrite and chalcopryite.

Geochemical analysis of soil samples collected during the course of this years survey program resulted in a good correlation between gold, copper, zinc, and lead concentrations and VLF-EM conductors throughout the survey grid. Geochemical analyses resulted in a high of 852 ppb Au in soils and 2280 ppm Cu in hand specimen. Three linear west-northwesterly trending anomalous zones were detected through and extending out of the survey grid area. Mineralization appears to be concentrated within a network of crossing faults.

Results to date suggest that further work is warranted. The limestone and intrusive contact represents a further target, with the possibility of skarn mineralization development.

It is estimated that the next phase exploration program will require \$55,000.

## 2.0 RECOMMENDATIONS

In order to evaluate the economic potential of the Adam Property the following exploration program is recommended :

1. Approximately 5 km of grid line should be cut over the contact of the limestone with the intrusives. Detailed scale geological, geochemical, and VLF-EM surveys should be conducted over the contact zone.
2. An additional 5 km of grid line should be cut over the extensions of the anomalous structures outlined in this report. Detailed scale geological, geochemical, and VLF-EM surveys should be conducted over the anomalous extensions detected east and north of the survey grid area.
3. A ground magnetometer survey should be conducted over the grid area to outline areas of anomalous interest.
4. An I.P. and Resistivity survey should be conducted over the grid area of the Adam Group over the anomalous zones to further define and outline regions of anomalous interest.
5. Trenching to uncover near surface anomalies should follow the geophysical surveys.

Upon favorable results of Phase II, Phase III will consist primarily of diamond drilling. A limited program of up to 1000 meters is estimated to cost approximately \$90,000.

## 2.1 Cost Estimate - Phase II

The estimated cost of the recommended phase II exploration program on the Adam Group of claims is as follows:

<b>Extended Surveys</b>	
Grid Emplacement - 10 km @ \$650/km .....	6,500
VLF-EM Survey - 10 km @ \$250/km .....	2,500
<b>Sample Collection and Analysis</b>	
Soil samples - 300 @ \$20/sample .....	6,000
Rock samples - 100 @ \$25/sample .....	2,500
Ground Magnetic Survey - 20 km @ \$250/km .....	5,000
I.P. and Resistivity Survey - 12 days @ \$600/day ..	7,200
Trenching - .....	5,000
Mob/Demob .....	1,000
<b>Food and Accommodation</b>	
4 men for 21 days @ \$100/man-day .....	8,400
<b>Transportation</b>	
2 vehicles for 21 days @ \$60/day/truck .....	2,520
Engineering and Geological Mapping & Sampling .....	5,000
Report Preparation .....	3,000
Contingencies - Approximately 10% .....	5,380
<b>TOTAL .....</b>	<b>\$55,000</b>

### 3.0 INTRODUCTION

Pursuant to a request by Germa Minerals Inc. a work program consisting of geological, geochemical, and ground VLF-EM surveys was carried out on the Adam Group claims by Cossack Gold Mining Corp.

Field work was carried out between September 1 and September 5, 1988. The purpose of the project was to undertake follow up work in areas of copper mineralization mapped by Sayward Exploration Co. in 1972.

#### 3.1 Property Location and Status

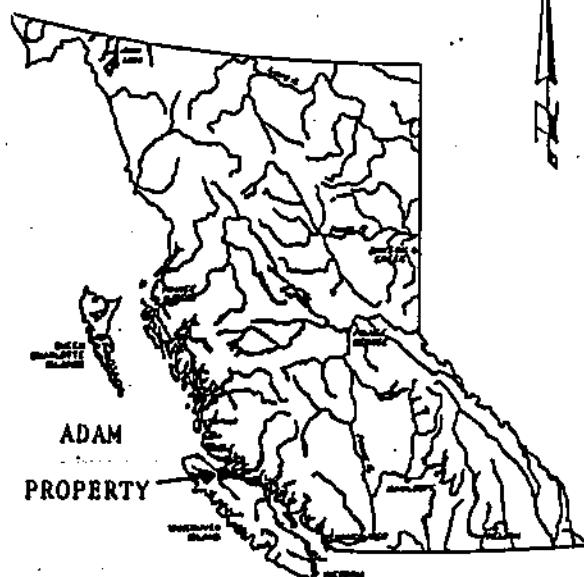
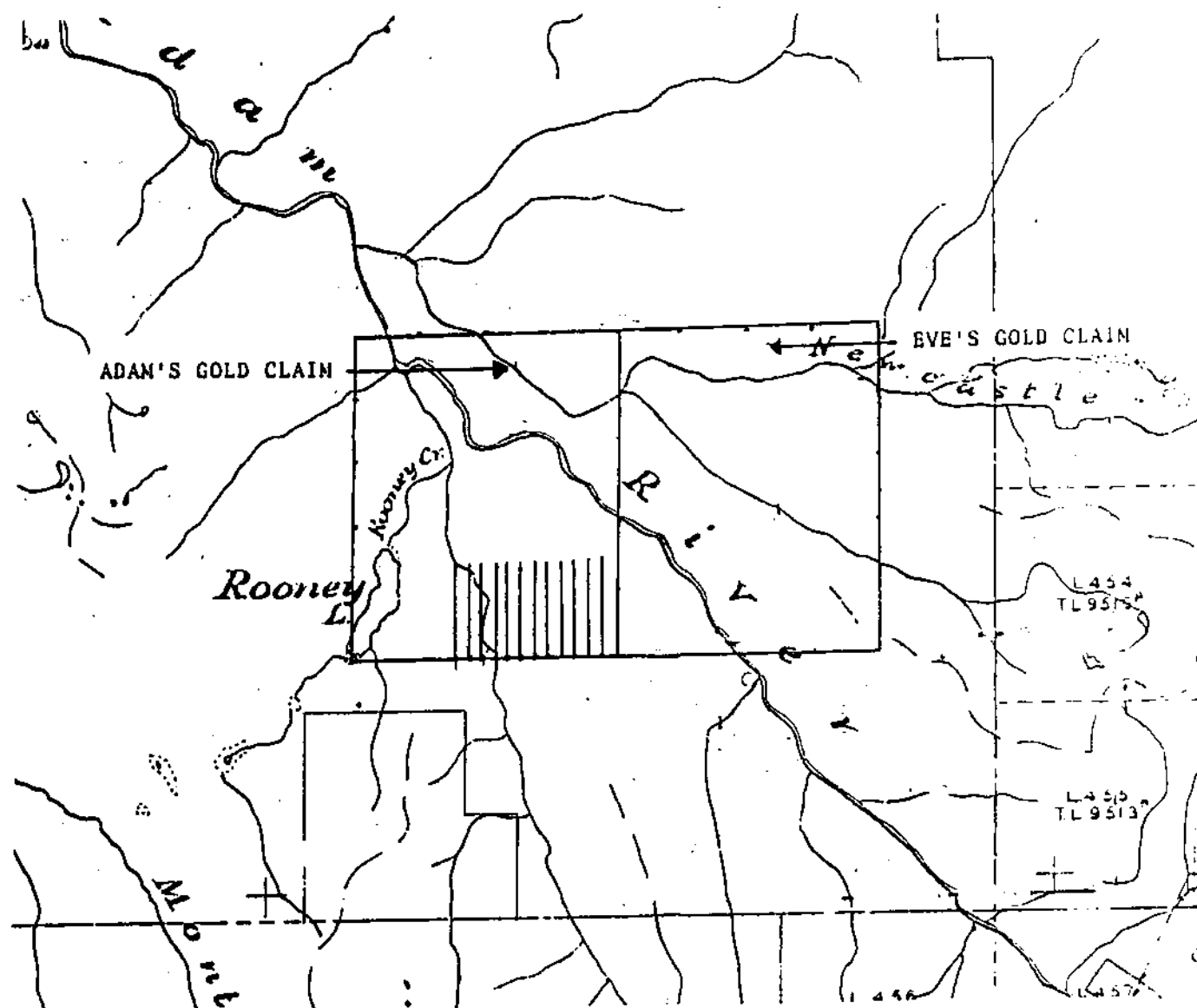
The Adam Group consists of the Adam's Gold, and Eve's Gold claims, presently owned by Germa Minerals Inc. The claims are shown on the Ministry of Energy Mines and Resources Mineral Titles Map 92L/8E, Nanaimo Mining Division, B.C (Fig. 1)


Property record information is as follows:

<u>Claim Name</u>	<u>No. of Units</u>	<u>Record No.</u>	<u>Expiry Date</u>
Adam's Gold	20	2810	Nov. 3, 1991*
Eve's Gold	20	2809	Nov. 3, 1991*

\* Subject to Ministry of Energy, Mines and Resources approval.





<b>ADAM PROJECT</b>	
<b>For: GERMA MINERALS INC.</b>	
<b>By: COSSACK GOLD MINING CORP.</b>	
<b>LOCATION AND CLAIM MAP</b>	
<b>Scale</b> 	
<b>1:500000 500 1000 2000 300m</b>	
<b>NTS: 92L/8E</b>	<b>Date: SEPT 1988</b>
<b>Drawn By: EHS</b>	<b>Figure No: 1</b>

Geographic co-ordinates of the property are 59 22' N latitude and 126 10' W longitude.

The Adam Group is located on the banks of the Adam River, 20 kilometers from the town of Kelsey Bay. Access is from Highway 19 north from Nanaimo. Access throughout the property is from good quality logging roads.

The property covers an area of rugged terrain with elevations ranging from 900 ft at the Adams River to 2000 ft. Much of the area has been logged off in the last 15 years and in some areas a heavy secondary growth of cedar, hemlock, balsam, and Douglas Fir hamper access. Rooney Creek drains the area of interest on the property, flowing from Rooney Lake on the western edge of the property, to the Adam River.

### 3.2 Property History

Copper mineralization was first discovered in the property area during the construction of logging roads in the late 1960's.

In 1969 Newconex Canada Ltd. undertook a soil and stream sampling survey results of which have shown copper anomalies near the east fork of Rooney Creek.

In 1970 Armeta Copper Mines Ltd. completed both geophysical and geochemical surveys of the area recording the presence of chalcopyrite-bornite-malachite-azurite mineralization.

In 1972 Sayward Exploration Ltd. geologically mapped the area on a scale of 1":400'. Rock samples chipped from outcrops (exact location unknown) assayed 0.12 % copper in four separate locations with widths varying from 20 to 50 feet. Six diamond drill holes totalling 1748 feet intersected disseminated chalcopyrite and pyrite. Locations of the drill holes are unknown, the highest assay reported is from Hole #2 which assayed 0.41% from 56.0' to 61.0'.

## 4.0 GEOLOGY

### 4.1 Regional Geology

The area is underlain by an assemblage of volcanic rocks of Upper Triassic or earlier age known as the Karmutsen Group. Dark grey to nearly white, impure recrystallized limestone underlies the Karmutsen Group volcanics. The limestone are either at the base of the Karmutsen Group or the top of the Questsinc Formation.

Island intrusives, probably of Middle Jurassic age, intrude the volcanics and limestones. They form part of the Coast intrusions which form most of the Coast Range area of British Columbia. The intrusives appear to form a long, narrow, northwesterly trending belt in contact with the volcanics and limestones. This contact coincides approximately with the course of the Adam River (Fig. 2).

### 4.2 Local Geology and Mineralization

Within the Adam Property area the lithological sequence is from east to west: intrusives, limestone, volcanics. The intrusives in the area consist of medium to coarse grained granodiorites extending northeasterly and northwesterly along the east side of the Adam River. Rock types include diorite, gabbro, and

migmatite which have been intruded by highly siliceous granite and pegmatite.

Along the Adam River, the limestone has undergone contact metamorphism allowing the development of a mineralized skarn.

In the west the property is underlain by dense fine grained basalts, diorite, gabbro, and amygdaloidal basalt, in which sulphide mineralization has been developed. The basalts are highly deformed with numerous shear zones developed. These fracture zones appear to have allowed the development of hydrothermal sulphide mineralization.

Sulphide mineralization was mapped in several pits along a logging road (Fig. 3). Mineralization is associated with secondary fractures peripheral to a shear zone within the basalt. Sulphides include pyrite, galena, bornite, and chalcopryrite. The main shear has extensive development of secondary minerals including calcite, epidote, and magnesite. Weathering of the fractured mineralized zones has resulted in the development of calcite and epidote. Disseminated mineralization, composed mainly of chalcopryrite and pyrite, occur within the basalts.

## 5.0 SURVEY PROCEDURES

### 5.1 Grid Establishment

A detailed grid was established over the southeastern portion of the Adam's Gold Claim in an area of previously mapped mineralization. A total of 9 line-kilometres of grid was established with lines at 100 metre intervals and stations flagged at 50 metre intervals.

### 5.2 Geochemical Survey

A total of 187 soil samples were taken along the grid lines. A total of 19 rock samples were collected from pits and road outcrops (Appendix B).

Soil samples were taken from the enriched "B" soil horizon at depths of 8 to 25 cm using a cast iron mattock. The survey area was moderate, outcropping in areas, providing moderate to good soil development. Samples of no less weight than 200 grams were placed in Kraft paper bags and air dried. Mineralized rock samples were chipped and collected where ever found.

Samples were shipped to Chemex Laboratories Ltd. in North Vancouver, B.C. for analysis. Rock samples were ground and soil

samples were sieved to -80 mesh. A portion of the samples were then digested and analyzed by Atomic Absorption Spectroscopy (AA) for 32 elements for rock samples and for an ~~eleven~~<sup>8</sup> element suite for the soil samples. Both rock and soil samples were analyzed for gold by Fire Assay and Neutron Activation Analysis (FA+NAA).

### 5.3 VLF-EM Survey

The VLF-EM survey was conducted using a Sabre model 27 receiver. The unit acts solely as a receiver utilizing an electromagnetic field transmitted from military radio stations in the 15-25 KHz range. The signals are propagated with the magnetic component of the field being horizontal in undisturbed areas.

Conductivity contrasts in the earth create secondary fields, producing a vertical component and changes in the field strength or amplitude. These conductive areas may be located, and to a degree, evaluated by measuring the various parameters of this electromagnetic field.

The VLF-EM receiver was used to measure the tilt or dip angle of the resultant field as well as the field strength of the horizontal and vertical component of the field.

## 6.0 GEOCHEMISTRY SURVEY

### 6.1 Introduction

A total of 186 soil samples were analyzed for gold and a ~~six~~ 7 element suite. Statistical analyses was performed on the assayed results for gold, copper, lead, and zinc using the CSTAT utility of the GEOTRIEVE database provided by Chemex Laboratories Ltd for on-line customers. Histograms and derived statistics for copper, gold, lead and zinc are presented in Appendix A and the laboratory results are presented in Appendix C.

### 6.2 Results and Interpretation

Soil results for gold, copper, lead, and zinc are plotted upon grid maps using symbols and contours (Figs. 4 to 7). Contours and symbol sizes are based upon statistics for log transformed soil results and are chosen at the mean and multiples of the standard deviation. Soils which contain in excess of two standard deviations above the mean are considered above anomalous threshold and those in excess of one standard deviation are considered sub-anomalous.

The anomalous results above the standard deviation level as well



as the Fraser filtered VLF-EM survey are presented on a compilation map (Fig. 8).

## 6.21 Gold Geochemistry

ELEMENT	:	Au ppb
NUMBER OF OBSERVATIONS	:	186
MINIMUM	:	1.00
MAXIMUM	:	856.00
MEAN	:	6.70
MEAN + STANDARD DEVIATION:		14.55
THRESHOLD	:	31.62

The derived threshold of 31.62 ppb is significantly higher than the 2 to 5 ppb background commonly found in unmineralized soils and is considered to be reliable.

The histogram for gold shows an exponential curve, possibly indicating that the background population is truncated by the analytical detection level.

Samples which contain anomalous concentrations of gold are as follows:

Gold Anomalies (Au > 31ppb)	Au	Cu	Pb	Zn
L 800E ST100N	123	42	1	52
L1500E ST150N	50	108	2	42
L1500E ST750N	852	30	9	22
L1600E ST550N	62	105	6	46
L1800E ST750N	39	102	8	70
L1900E ST 50N	38	107	1	42

The distribution of gold in soils from the grid area exhibits a roughly linear northwest-southeast trend of above the mean of 6.7 ppb values. One major trend, extending from L1000E St700N off the grid to L1900E St350N and St650N, structurally breaks at L1400E St550N into two segments. The break can be attributed to a fault.

Another zone of mineralization, approximately 125m wide, can be found from L800E St300N structurally bending to the south to L1200E St00N. Other smaller bands of anomalous soil results were found from L800E St500N to L1200E St450N and L1500E St00N to L1900E St100N.

Anomalous gold geochemistry contours (Fig. 4) are coincident with the VLF-EM contours (Fig. 8). The anomalous zones A and B (Fig. 8) are long and linear, suggesting that gold was introduced into the underlying rocks during faulting.

## 6.22 Copper Geochemistry

-----	
ELEMENT	: Cu ppm
NUMBER OF OBSERVATIONS	: 187
MINIMUM	: 4.00
MAXIMUM	: 340.00
MEAN	: 69.02
MEAN + STANDARD DEVIATION:	155.96
THRESHOLD	: 352.37
-----	

The histogram for copper shows an approximately log normal distribution. The curve is skewed towards the right i.e. higher copper values. This means that the derived threshold of 352 ppm is very high and a better value to consider anomalous would be the sub-anomalous threshold of 155 ppm. This value is still significantly higher than the 15 ppm background commonly found in unmineralized soils and is considered to be reliable.

Samples which contain anomalous concentrations of copper are as follows:

Copper Anomalies (Cu > 155ppm)	Au	Cu	Pb	Zn
L1000E ST500N	24	223	1	60
L1000E ST600N	4	178	1	52
L1000E ST650N	6	163	1	52
L1100E ST 50N	7	340	1	48
L1100E ST100N	8	276	3	50
L1100E ST200N	7	316	1	42
L1300E ST300N	19	210	1	50
L1400E ST250N	4	160	1	42
L1600E ST100N	6	178	1	46
L1800E ST350N	7	340	1	44
L1800E ST400N	7	320	1	44

Copper has intermediate mobility in soils. It is a good indicator for copper rich ore deposits. Anomalous copper distribution appears weak and widespread with concentration mainly in the northwest and east-central region of the grid area. The pattern produced by the contour lines correlates well with that of gold but with a wider spatial distribution due to its higher mobility in soils. Linear east-west structural breaks separating copper

distribution are fault related as can be inferred by the gold geochemistry.

### 6.23 Lead Geochemistry

-----	
ELEMENT	: Pb ppm
NUMBER OF OBSERVATIONS	: 187
MINIMUM	: 1.00
MAXIMUM	: 29.00
MEAN	: 2.39
MEAN + STANDARD DEVIATION:	6.37
THRESHOLD	: 16.98
-----	

Due to the large number (45.5 %) of samples with low lead results the histogram for lead does not show a regular distribution.

The derived threshold of 17 ppm is equivalent to the background commonly found in unmineralized soils and so considered to be low in the soil survey. Lead geochemistry is considered a well established and successful indicator of lead and associated lead related mineralization because of its' relative immobility under normal conditions and so was plotted and contoured (fig 6).

Samples which contain anomalous concentrations of lead are as follows:

Lead Anomalies (Pb > 16ppm)	Au	Cu	Pb	Zn
L1000E ST 50N	2	7	17	24
L1000E ST100N	2	8	26	64
L1000E ST200N	4	33	29	40
L1000E ST550N	2	70	23	140
L1300E ST150N	1	19	22	32
L1300E ST750N	6	5	20	42
L1400E ST000N	2	28	17	36
L1400E ST400N	3	6	20	42
L1400E ST550N	2	7	28	30
L1400E ST750N	2	7	26	30
L1600E ST150N	12	118	26	42
L1600E ST450N	<4	49	18	70

The distribution pattern of lead in soils from the grid area indicates the general east-west trend for lead enrichment as observed in soils analyzed for gold. Similar structural breaks from faulting are in evidence but with lead in smaller mineralized pockets.

#### 6.24 Zinc Geochemistry

ELEMENT	:	Zn ppm
NUMBER OF OBSERVATIONS	:	187
MINIMUM	:	14.00
MAXIMUM	:	140.00
MEAN	:	42.76
MEAN + STANDARD DEVIATION:		61.80
THRESHOLD	:	89.33

The histogram for zinc results show a single peak indicating a single population.

Detection results attained a maximum of 20 ppb gold and 2280 ppm copper. Lead reached a maximum of 98 ppm with a high zinc of 82 ppm. Massive and disseminated sulphides are found in large quantities in the basalts with mineralization consisting mostly of pyrite with chalcopyrite and smaller quantities of galena and sphalerite.

## 7.0 GROUND VLF-EM SURVEY

### 7.1 Introduction

A VLF-EM survey was conducted using the Seattle, Wa. station of 24.8 KHz. Readings for field strength and dip angle were taken at 25 m intervals along grid lines spaced 100 m apart. Readings for dip angle along the grid were filtered using a method proposed by Fraser (1969), plotted and contoured (Fig. 8).

### 7.2 Results and Interpretation

The VLF-EM survey produced readings of field strength consistent throughout the survey grid area due to the similarity of topography and lithology as well as the widespread mineralization noted throughout the property. Mineralization, consisting mainly of pyrite, resulted in well defined readings of dip angle.

The filtered dip angle readings were plotted and contoured (fig 8). Three parallel linear zones of anomalous interest were detected, reaching contour intervals exceeding 20, and continuing off the grid area. The east-west trending nature of mineralization in the thin bands and subsequent separation is indicative of a series of faults trending through the property.

Zone A appears as a linear band approximately 50m in width extending from L1100E St700N to L900E St550N in a general southeast-northwest direction. Anomalous high contour intervals appear linear and interspersed within the zone. Contoured geochemistry maps (Figs 4 to 7) correlate well with the VLF-EM map. Gold geochemistry contours produced linear bands trending roughly northwest-southeast in a similar pattern with a maximum of 852 ppb at L1500E St700N.

Zone B, roughly parallel to Zone A, also appears as a thin linear band approximately 75m wide trending in an east-west direction from L800E St500N to L1800E St450N. Contour intervals exceeding 25 correspond to anomalous gold soil geochemistry contours with high anomalous samples reaching 31 ppb. Anomalous copper soil geochemistry samples reached 340 ppm, also in the vicinity of anomalous VLF-EM contours at L1600E St450N. Anomalous lead and zinc soil samples were also detected throughout Zone B.

Zone C, found in the south of the grid area between lines 800E and 1700E and stations 00N and 300N, appears as a linear, undulating band, breaking into two roughly parallel branches due to apparent faulting. Soil geochemistry coincides well with a good gold geochemical signature, values of up to 123 ppb Au detected.



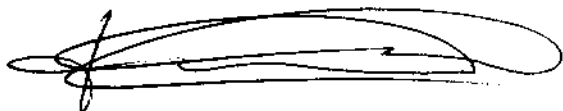
## 8.0 CERTIFICATES OF QUALIFICATION

### 8.1 Certificate - L.J. Peters

I, L. John Peters, of the city of Burnaby in the Province of British Columbia, do hereby certify that:

1. I am a Consulting Geologist with the firm of Cossack Gold Mining Corp. located at 536, Seymour Street, Vancouver, British Columbia, V6B 3J5.
2. I graduated in 1983 from University of Western Ontario at London, Ontario with a Bachelor of Science in Geology.
3. I have been involved in numerous mineral exploration programs in British Columbia and Ontario since 1983.
4. This report is based on field work carried out by the authors in the month of September 1988 and a Cossack Gold Mining Corp. crew.
5. I hold no direct or indirect interest in the property or securities of Germa Minerals Inc. or in any associated companies, nor do I expect to receive any.
6. This report may be utilized by Germa Minerals Inc. for inclusion in a Prospectus or Statement of Material Facts.

Dated at Vancouver, Province of British Columbia, this 31st day of October, 1988.



L. John Peters, B.Sc.  
Consulting Geologist

## 9.0 REFERENCES

- Fraser, D.C. (1969)  
Contouring VLF-EM Data; Geophysics, Volume 34, No. 6.
- Richardson, P.W. (1969)  
Rock Sampling and Geochemical Survey of Rooney Group, Adam River Area, Nanaimo Mining Division 50 126' SE. Report for Newconex Canadian Exploration Ltd.
- Rose, A.W.; Hawkes, H.E.; Webb, J.S. (1979)  
Geochemistry in Mineral Exploration; Academic Press, 657p.
- Sheppard, E.P. (1972)  
Geological Report on the Billy Claims Group, Sayward Area, Nanaimo M.D., Vancouver Island, B.C. of Sayward Explorations Ltd. (N.P.L.).

**ADAM PROJECT  
SUMMARY OF EXPENDITURES**

**Personnel - Field Time**

I. Borovic	Consulting Geologist	
	3 days @ \$500/diem .....	\$ 1500.00
J. Peters	Supervising Geologist	
	2 days @ \$450/diem .....	900.00
E. Sowerbutts	Geologist	
	9 days @ \$400/diem .....	3600.00
S. Nisyif	Geologist	
	7 days @ \$375/diem .....	2625.00
R. Smallwood	Geological Assistant	
	7 days @ \$350/diem .....	2450.00
		-----
<b>Total Wages</b>		<b>\$11075.00</b>

**Equipment Rental**

1 Truck Rental 7 days @ \$65/diem .....	\$ 455.00
1 Truck Rental 2 days @ \$65/diem .....	130.00
VLF-EM 7 days @ \$32/diem .....	224.00
Field Equipment Rental 7 days @ \$37.50/diem.....	262.50
Camp Gear Rental 7 days @ \$50/diem .....	350.00
-----	
<b>Total Equipment</b>	<b>\$ 1421.50</b>

**Consumables**

Food 28 mandays @ \$18/diem .....	\$ 504.00
Fuel & Ferries .....	575.70
Supplies .....	105.10
Motel Accomadation .....	128.00
-----	
<b>Total Consumables</b>	<b>\$ 1312.80</b>

**Office**

Drafting & Maps .....	600.00
Secretarial Support .....	1000.00
Report Writing .....	3000.00
-----	
<b>Total Office</b>	<b>\$ 4600.00</b>

<b>TOTAL COST .....</b>	<b>\$ 18409.30</b>
<b>TOTAL PAID TO DATE .....</b>	<b>18000.00</b>
<b>BALANCE OWING .....</b>	<b>409.30</b>

**November 7, 1988**

Var : LOG AU

[\*] = 0.7% of Total

20.0

40.0

	#OCCU.	PERC
0.00+	0	0.0
0.10+	3	1.6
0.20+	0	0.0
0.30+	0	0.0
0.40+	8	4.3
0.50+	10	5.4
0.60+	0	0.0
0.70+	58	31.2
0.80+	24	12.9
0.90+	22	11.8
1.00+	19	10.2
1.10+	19	10.2
1.20+	5	2.7
1.30+	5	2.7
1.40+	3	1.6
1.50+	4	2.2
1.60+	2	1.1
1.70+	1	0.5
1.80+	1	0.5
1.90+	0	0.0
2.00+	0	0.0
2.10+	1	0.5
2.20+	0	0.0
2.30+	0	0.0
	1	0.5
	#OCCU.	PERC

20.0

40.0

VARIABLE : LOG AU

DETECTION LIMIT : 0.0000

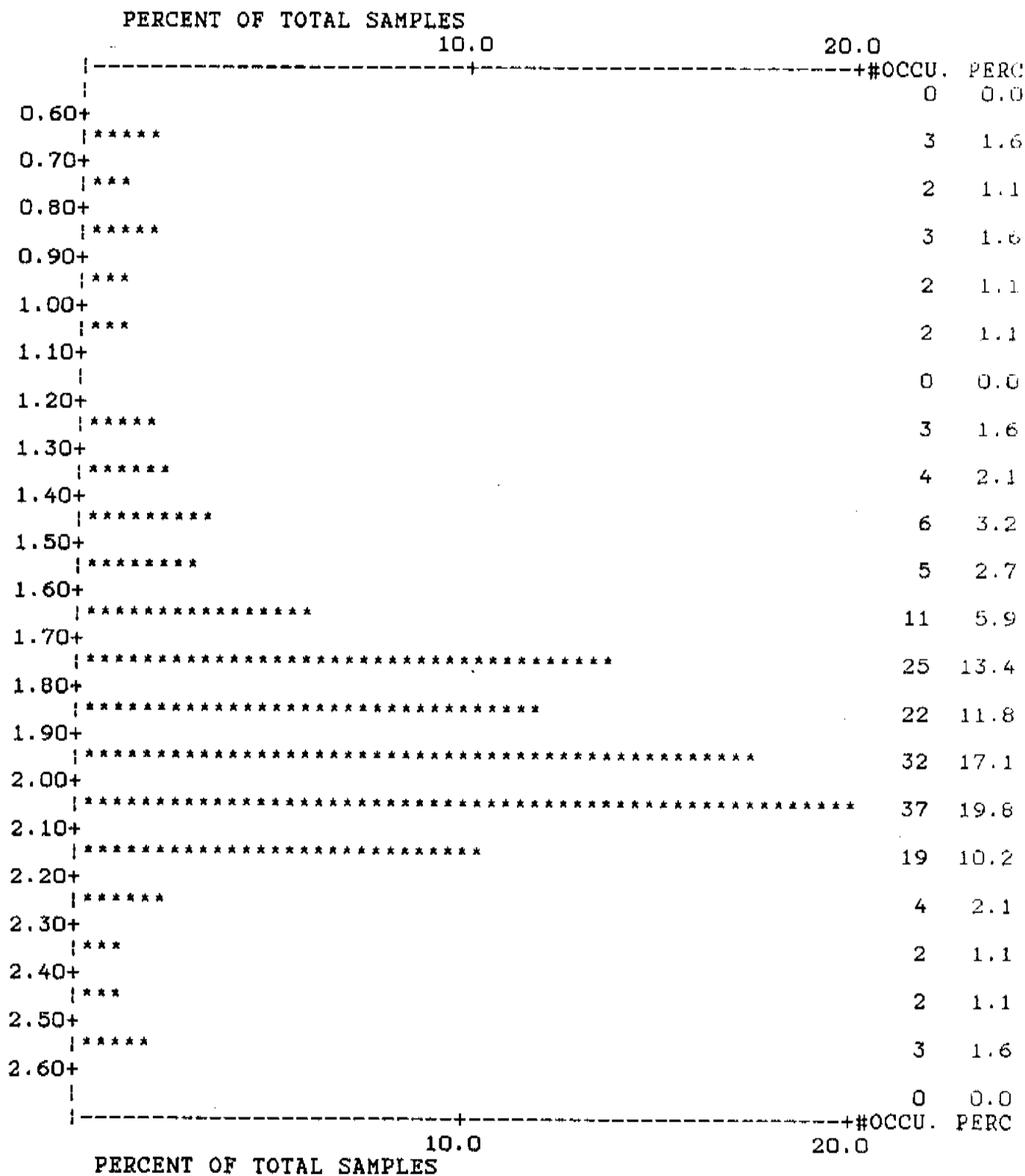
NUMBER OF OBSERVATIONS	:	186
MINIMUM	:	0.000
MAXIMUM	:	2.930

MEAN	:	0.826
STANDARD ERROR OF MEAN	:	0.025
STANDARD DEVIATION	:	0.337
COEFFICIENT OF VARIATION	:	40.864

SKEWNESS	:	1.731
KURTOSIS	:	8.461

Var : LOG CU

[\*]= 0.4% of Total



VARIABLE : LOG CU

DETECTION LIMIT : 0.0000

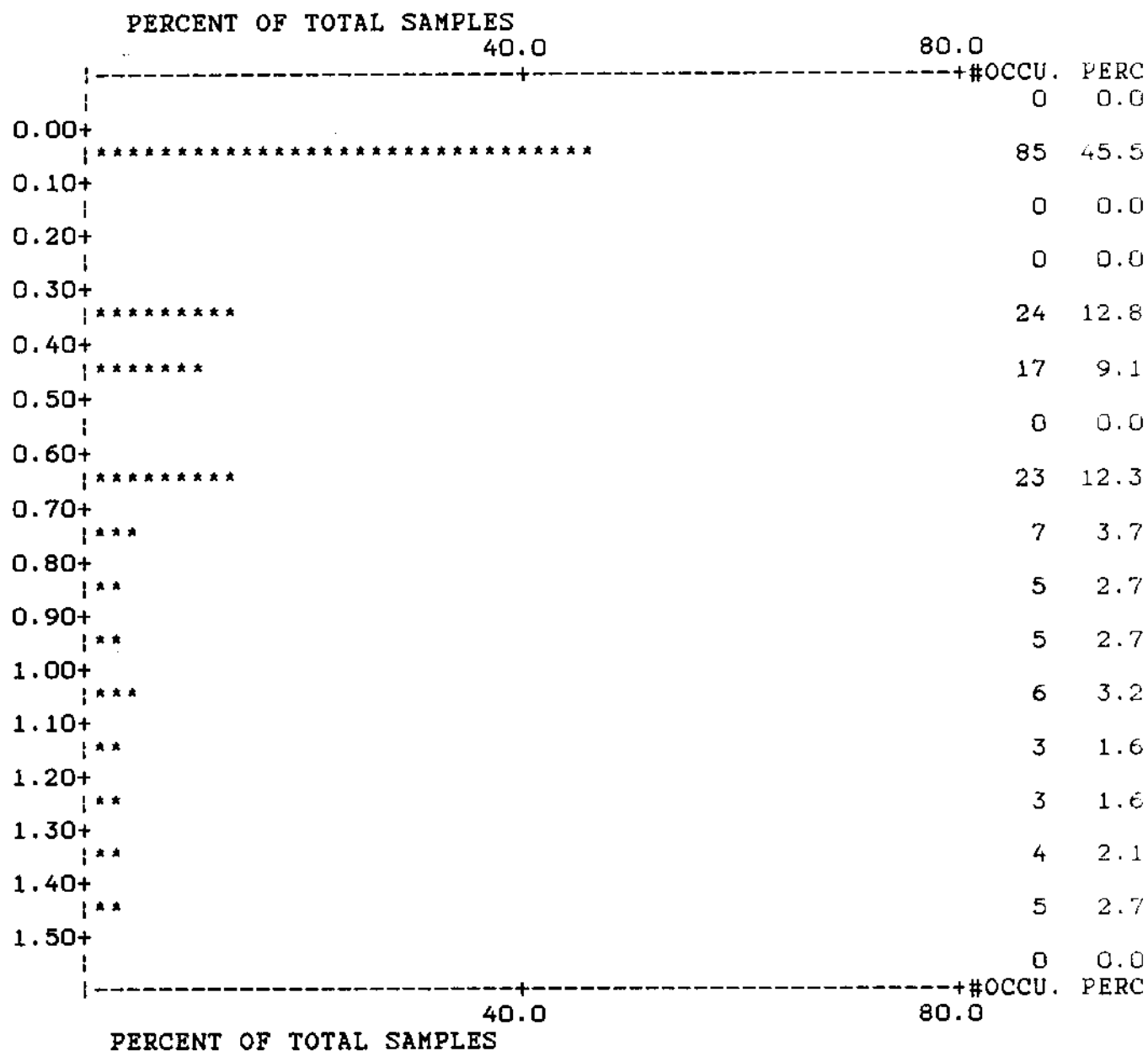
NUMBER OF OBSERVATIONS	:	187
MINIMUM	:	0.602
MAXIMUM	:	2.531

MEAN	:	1.839
STANDARD ERROR OF MEAN	:	0.026
STANDARD DEVIATION	:	0.354
COEFFICIENT OF VARIATION	:	19.238

SKEWNESS	:	-1.383
KURTOSIS	:	2.310

Var : LOG PB

[\*]= 1.5% of Total





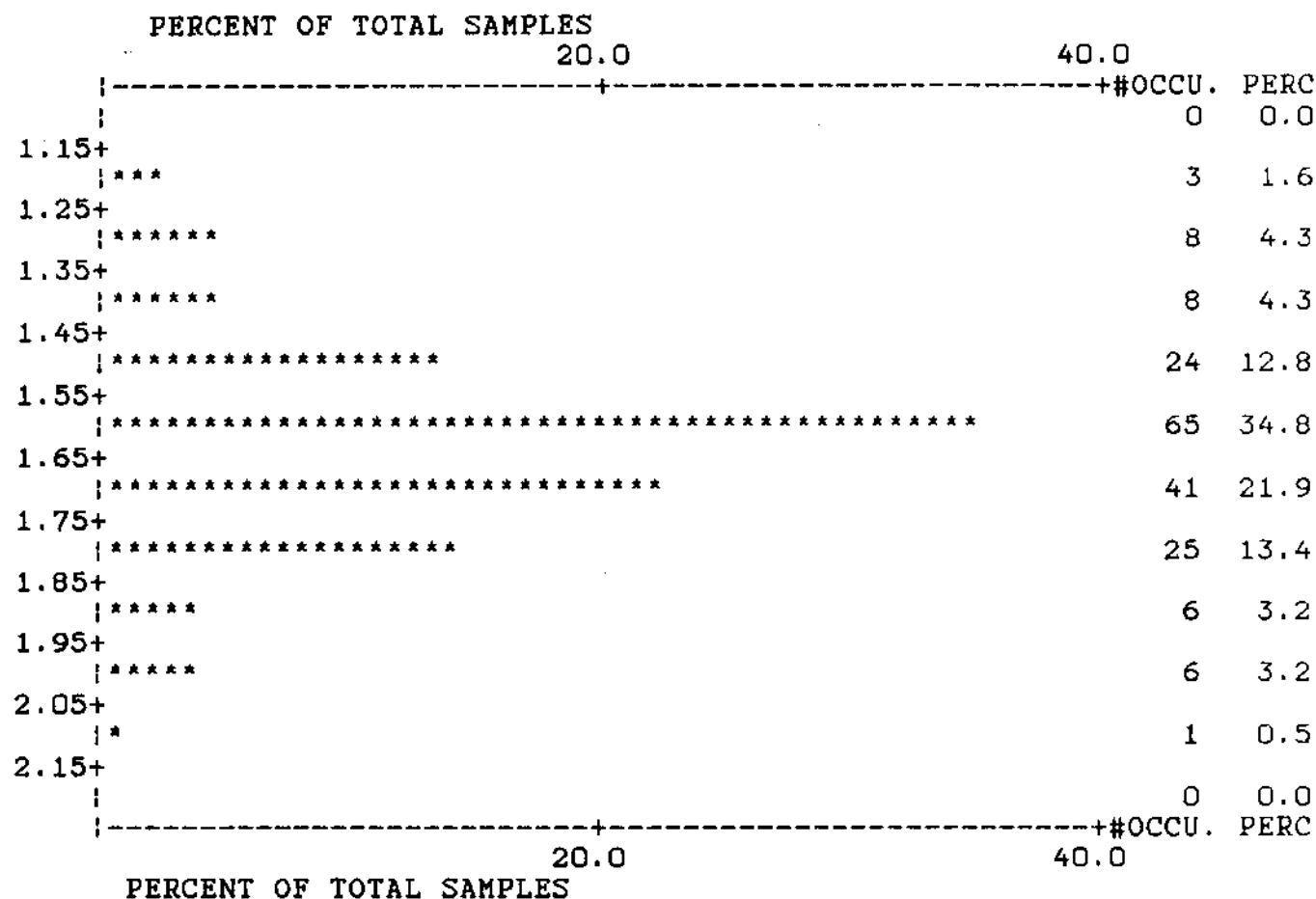
VARIABLE : LOG PB

DETECTION LIMIT : 0.0000

NUMBER OF OBSERVATIONS	:	187
MINIMUM	:	0.000
MAXIMUM	:	1.462
MEAN	:	0.378
STANDARD ERROR OF MEAN	:	0.031
STANDARD DEVIATION	:	0.426
COEFFICIENT OF VARIATION	:	112.898
SKEWNESS	:	0.834
KURTOSIS	:	-0.400

Var : LOG ZN

[\*]= 0.7% of Total



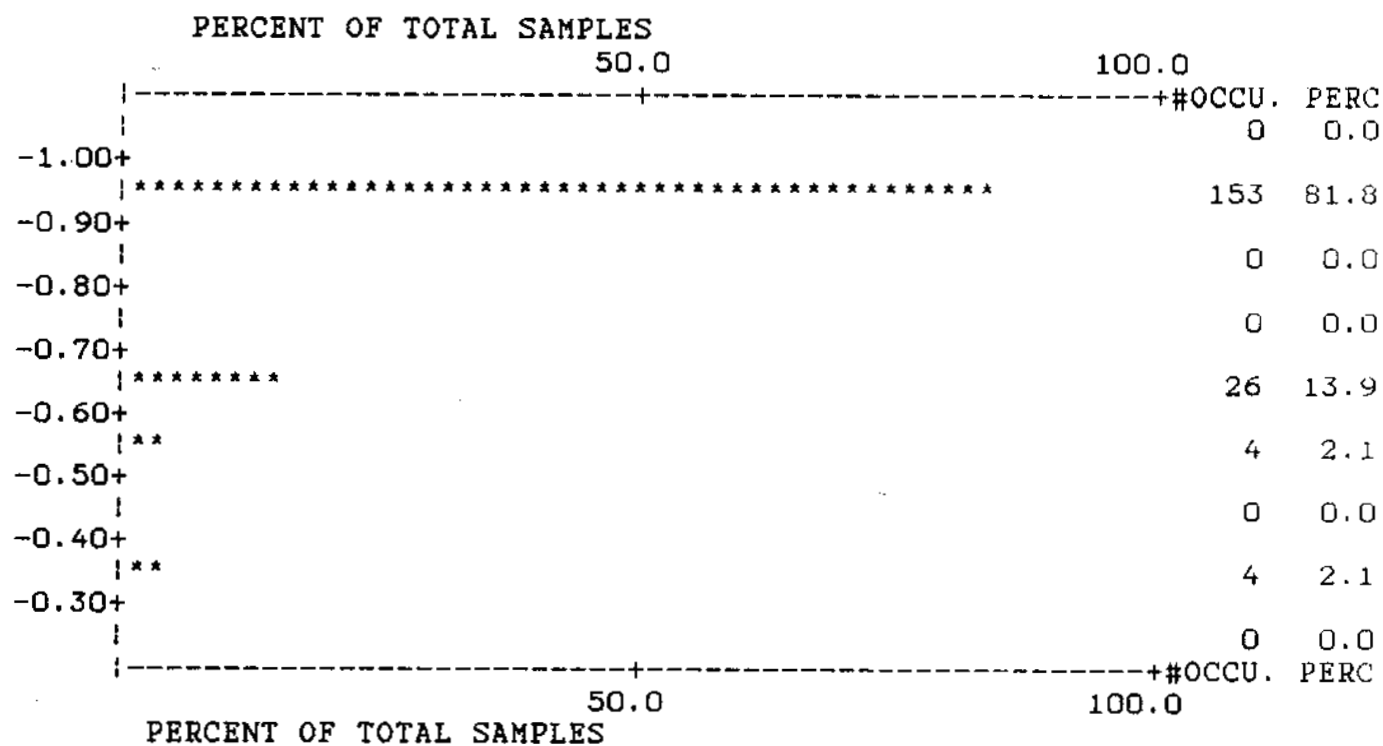
VARIABLE : LOG ZN

DETECTION LIMIT : 0.0000

NUMBER OF OBSERVATIONS	:	187
MINIMUM	:	1.146
MAXIMUM	:	2.146
MEAN	:	1.631
STANDARD ERROR OF MEAN	:	0.012
STANDARD DEVIATION	:	0.160
COEFFICIENT OF VARIATION	:	9.802
SKEWNESS	:	-0.121
KURTOSIS	:	0.911

Var : LOG AG

[\*]= 1.9% of Total



VARIABLE : LOG AG

DETECTION LIMIT : 0.0000

NUMBER OF OBSERVATIONS	:	187
MINIMUM	:	-1.000
MAXIMUM	:	-0.301
MEAN	:	-0.934
STANDARD ERROR OF MEAN	:	0.011
STANDARD DEVIATION	:	0.149
COEFFICIENT OF VARIATION	:	-16.001
SKEWNESS	:	2.222
KURTOSIS	:	4.318

Included in the summary are:

1. Number of observations : number of analyses for elements.
2. Minimum : minimum recorded value for the parameter.
3. Maximum : maximum recorded value for the parameter.
4. Mean : the arithmetic mean is a measure of central tendency equal to the sum of the values of all observations divided by the number of observations.
5. Standard error of mean : the standard error of the mean is the standard deviation of the sample mean.
6. Standard deviation : the standard deviation is the average of the departure from the mean of the distribution.
7. Threshold : the threshold is the sum of the mean and twice the standard deviation.
8. Coefficient of variation : the coefficient of variation is the ratio of standard deviation to the mean.
9. Skewness : skewness provides information on the symmetry of the frequency curve. A positive value indicates a trailing off of the curve to the right of the mean and a negative value trailing off to the left.
10. Kurtosis measures the peakedness of the curve.

**APPENDIX B**  
**ROCK SAMPLE DESCRIPTIONS**

SAMPLE	PIT	DESCRIPTION
No.	No.	
RS 001	1	Fault gouge, finegrained galena, sphalerite with chlorite
RS 002	1	Greenschist, altered basalt, chlorite, actinolite, magnesite (?), garnet (?) with trace chlorite.
RS 003	1	Altered basalt, limonite, hematite, magnesite (?), chlorite, with trace pyrite.
RS 004	1	Strongly stained basalt, hematite, limonite, with pyrite, chalcopryrite.
RS 005	1	Very altered, limonite stained basalt, chlorite, with pyrite, chalcopryrite, minor galena.
RS 006	1	Extremely altered limonitic basalt, greenschist, banded hematite, chlorite, actinolite, with chalcopryrite, pyrrhotite, minor arsenopryrite, galena, sphalerite.
RS 007	2	Altered basalt with poorly developed bands of chlorite/actinolite and limonite and hematite staining. Finegrained galena/sphalerite with minor pyrrhotite, chalcopryrite (?) and arsenopryrite (?).
RS 008	2	Altered basalt, limonite, hematite, chlorite with pyrite and chalcopryrite.
RS 009	2	Poorly banded, extensively altered basalt, chlorite, actinolite, hematite and minor limonite with pyrite, minor pyrrhotite, arsenopryrite (?), galena/sphalerite (?)
RS 010	2	Fault gouge, chlorite, with fine grained galena/sphalerite.
RS 011	2	Extensively altered limonite, hematite, chlorite with very fine grained galena/sphalerite and minor pyrite and pyrrhotite.
RS 012	2	Extremely altered basalt chlorite, actinolite, limonite, hematite, with fine grained galena/sphalerite and minor pyrrhotite.
RS 013	3	Altered basalt limonite, hematite, magnesite (?), chlorite with trace pyrite.

RS 014	Rd	Basalt, strongly altered hematite, limonite stained
RS 015	Rd	Basalt, massive with hematite, limonite staining, rare nodules of disseminated pyrite to 3 mm
RS 016	1	Altered basalt chlorite, hematite, and limonite with trace mineralization
RS 017	2	Bleached basalt, magnesite (?), hematite, limonite
RS 018	2	Very heavily stained basalt, limonite, hematite, with chalcopryrite, pyrite, fine grained galena/sphalerite.
RS 019	1	Basalt, limonite, hematite with fissure fillings of fine grained pyrite, galena/sphalerite.

NOTE : Sample locations are shown on Fig. 3, assays are listed in Appendix C.

**APPENDIX C**  
**ASSAY CERTIFICATES**





# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,  
BRITISH COLUMBIA, CANADA V7J-1C1

PHONE (604) 244-0221

To: GERMA MINERALS

162 - 11080 WILLIAMS RD.  
RICHMOND, BC  
V7A 1X8

Project: ADAM GOLD

Comments: ATTN: DAVE SOOD CC: GOLDEN TRIANGLE

\*\*Page No. 1-A

Tot. Pages: 1

Date: 16-SEP-88

Invoice #: I-8822967

P.O. #: NONE

## CERTIFICATE OF ANALYSIS A8822967

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	
RS-001	205 238	17	1.98	< 0.2	< 5	< 10	< 0.5	< 2	2.67	< 0.5	23	45	144	2.71	< 10	< 1	0.01	< 10	1.69	
RS-002	205 238	13	5.33	< 0.2	< 5	< 10	< 0.5	< 2	5.13	< 0.5	17	86	230	2.98	< 10	< 1	0.15	< 10	0.80	
RS-003	205 238	5	2.83	< 0.2	< 5	20	< 0.5	< 2	1.76	< 0.5	22	111	198	4.16	< 10	< 1	0.02	10	1.25	
RS-004	205 238	4	2.06	< 0.2	< 5	20	< 0.5	< 2	1.31	< 0.5	16	70	161	3.54	< 10	< 1	0.03	10	0.81	
RS-005	205 238	3	1.17	< 0.2	< 5	< 10	1.5	< 2	0.73	< 0.5	15	89	124	5.09	< 10	< 1	0.01	< 10	0.51	
RS-006	205 238	10	0.89	< 0.2	< 5	< 10	3.5	< 2	0.46	< 0.5	77	58	41	> 15.00	< 10	< 1	< 0.01	< 10	0.42	
RS-007	205 238	5	1.36	< 0.2	< 5	< 10	1.0	< 2	1.21	< 0.5	70	55	124	5.56	< 10	< 1	< 0.01	< 10	0.71	
RS-008	205 238	2	1.10	< 0.2	< 5	< 10	1.0	< 2	1.11	< 0.5	42	69	54	3.78	< 10	< 1	< 0.01	< 10	0.62	
RS-009	205 238	2	2.39	< 0.2	< 5	< 10	2.0	< 2	1.37	< 0.5	97	100	113	7.75	< 10	< 1	< 0.01	10	1.59	
RS-010	205 238	20	0.70	< 0.2	< 5	< 10	< 0.5	< 2	0.30	< 0.5	155	121	248	> 15.00	< 10	< 1	< 0.01	< 10	0.08	
RS-011	205 238	2	1.35	< 0.2	< 5	< 10	1.0	< 2	1.30	< 0.5	68	66	385	5.86	10	< 1	< 0.01	< 10	0.61	
RS-012	205 238	5	1.48	0.4	< 5	< 10	1.0	< 2	1.50	0.5	296	81	2280	7.88	< 10	< 1	< 0.01	< 10	0.61	
RS-013	205 238	3	2.94	< 0.2	< 5	< 10	1.0	< 2	2.18	< 0.5	29	78	91	5.24	< 10	< 1	0.02	10	2.01	
RS-014	205 238	8	1.92	< 0.2	10	10	1.5	< 2	1.29	< 0.5	46	55	758	6.56	< 10	< 1	0.03	10	1.16	
RS-015	205 238	2	1.20	< 0.2	< 5	10	< 0.5	< 2	1.28	< 0.5	16	18	37	5.67	< 10	< 1	0.04	10	0.84	
RS-016	205 238	5	1.17	< 0.2	5	40	< 0.5	< 2	1.94	< 0.5	15	80	235	3.87	< 10	< 1	0.03	10	1.04	
RS-017	205 238	4	5.80	< 0.2	< 5	100	< 0.5	< 2	2.45	0.5	19	12	465	4.23	< 10	< 1	0.14	10	1.36	
RS-018	205 238	3	4.60	< 0.2	< 5	< 10	< 0.5	< 2	1.98	< 0.5	51	156	202	6.63	< 10	< 1	0.06	10	2.28	
RS-019	205 238	2	2.04	< 0.2	< 5	< 10	< 0.5	< 2	1.44	< 0.5	14	65	34	4.33	< 10	< 1	0.01	10	0.83	

CERTIFICATION



# Chemex Labs Ltd.

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212 BROOKSBANK AVE. NORTH VANCOUVER,  
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To: GERMA MINERALS

162 - 11080 WILLIAMS RD.  
RICHMOND, BC  
V7A 1X1

Project: ADAM GOLD

Comments: ATTN: DAVE SOOD CC: GOLDEN TRIANGLE

\*\*Page No. 1-B  
Tot. Pages: 1  
Date: 16-SEP-88  
Invoice #: I-8822967  
P.O. # NONE

## CERTIFICATE OF ANALYSIS A8822967

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
RS-001	205 238	< 1	0.01	50	270	< 2	< 5	4	74	0.22	< 10	< 10	85	5	82
RS-002	205 238	< 1	0.08	28	550	< 2	< 5	11	80	0.77	< 10	< 10	131	5	36
RS-003	205 238	1	0.24	41	540	< 2	< 5	4	138	0.52	< 10	< 10	116	5	46
RS-004	205 238	1	0.17	27	580	< 2	< 5	5	103	0.54	< 10	< 10	93	5	31
RS-005	205 238	< 1	0.09	15	280	< 2	< 5	2	39	0.22	10	< 10	59	< 5	25
RS-006	205 238	2	0.01	14	< 10	42	5	2	33	0.27	30	< 10	60	< 5	31
RS-007	205 238	1	0.03	30	330	8	5	3	54	0.57	< 10	< 10	79	< 5	34
RS-008	205 238	< 1	0.03	17	450	6	5	4	38	0.69	< 10	< 10	83	< 5	28
RS-009	205 238	1	0.02	47	270	< 2	5	4	44	0.68	10	< 10	112	< 5	84
RS-010	205 238	4	0.01	6	< 10	< 2	10	2	21	0.05	50	10	121	40	33
RS-011	205 238	2	0.01	21	220	98	5	4	66	0.61	10	< 10	121	< 5	36
RS-012	205 238	1	0.01	42	190	< 2	5	3	57	0.58	10	< 10	72	< 5	40
RS-013	205 238	< 1	0.11	50	480	< 2	5	10	90	0.54	< 10	< 10	158	< 5	73
RS-014	205 238	1	0.08	36	570	< 2	5	15	17	0.80	10	< 10	182	< 5	55
RS-015	205 238	1	0.09	24	560	< 2	< 5	5	29	0.69	< 10	< 10	201	< 5	39
RS-016	205 238	1	0.30	11	470	< 2	< 5	6	160	0.54	< 10	< 10	112	< 5	42
RS-017	205 238	< 1	0.54	9	490	< 2	< 5	15	388	0.25	< 10	< 10	171	< 5	91
RS-018	205 238	< 1	0.04	59	460	4	< 5	6	48	0.63	< 10	< 10	112	< 5	82
RS-019	205 238	< 1	0.03	25	370	< 2	< 5	5	61	0.74	< 10	< 10	99	< 5	31

CERTIFICATE





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212 BROOKSBANK AVE. NORTH VANCOUVER,  
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162 - 11080 WILLIAMS RD.

RICHMOND, BC

V7A 1X8

Project: ADAM GOLD

Comments: ATTN: DAVE SOOD CC: GOLDEN TRIANGLE

No.   
Tot. Pages 5  
Date: 20-SEP-88  
Invoice #: 1-8822968  
P.O. #: NONE

## CERTIFICATE OF ANALYSIS A8822968

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Sb ppm
L1000E 500N	201	---	24	223	2	1	60	0.1	3
L1000E 550N	217	---	2	70	1	23	140	0.2	3
L1000E 600N	201	---	4	178	1	1	52	0.1	2
L1000E 650N	201	---	6	163	1	1	52	0.1	3
L1000E 700N	201	---	7	155	2	1	40	0.1	3
L1000E 750N	201	---	8	110	1	1	52	0.1	3
L1100E BL 0	201	---	4	110	1	1	48	0.1	3
L1100E 050N	201	---	7	340	1	1	48	0.1	2
L1100E 100N	201	---	8	276	2	3	50	0.1	2
L1100E 200N	201	---	7	316	1	1	42	0.1	2
L1100E 250N	201	---	26	22	1	3	24	0.1	3
L1100E 300N	201	---	10	21	1	4	22	0.1	3
L1100E 350N	201	---	20	148	1	1	44	0.1	3
L1100E 400N	201	---	3	129	2	7	64	0.1	3
L1100E 450N	201	---	5	46	1	3	26	0.1	3
L1100E 500N	201	---	7	105	1	4	42	0.1	3
L1100E 550N	201	---	6	60	2	2	42	0.1	3
L1100E 600N	201	---	28	51	1	6	36	0.1	3
L1100E 650N	201	---	7	62	1	2	36	0.1	3
L1100E 700N	201	---	7	69	2	1	34	0.1	3
L1100E 750N	201	---	12	28	1	2	38	0.1	3
L1200E 600N	201	---	7	118	1	14	14	0.1	3
L1200E 050N	201	---	12	32	1	8	20	0.1	3
L1200E 100N	201	---	3	65	1	1	44	0.1	3
L1200E 150N	201	---	13	61	1	1	46	0.1	3
L1200E 200N	201	---	6	84	2	4	90	0.1	3
L1200E 250N	201	---	not / s	74	1	9	90	0.1	3
L1200E 300N	201	---	4	93	1	2	74	0.1	3
L1200E 350N	201	---	5	140	2	2	66	0.1	3
L1200E 400N	201	---	4	105	1	1	52	0.1	3
L1200E 450N	201	---	8	87	1	1	42	0.1	3
L1200E 500N	201	---	4	120	2	1	58	0.1	3
L1200E 550N	201	---	5	123	2	1	52	0.1	3
L1200E 600N	201	---	6	86	2	1	46	0.1	3
L1200E 650N	201	---	4	75	1	1	44	0.1	3
L1200E 700N	201	---	16	96	2	3	36	0.1	3
L1200E 750N	201	---	6	115	1	2	40	0.1	3
L1300E 000N	201	---	5	114	1	7	50	0.1	3
L1300E 050N	201	---	6	107	1	1	36	0.1	3
L1300E 100N	201	---	4	95	1	5	28	0.1	3

CESTINATION



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Project: ADAM GOLD

Comments: ATTN: DAVE SMOO CC: GOLDEN TRIANGLE

\*\*Page No. 3

Tot. Pages 5

Date: 20-SEP-88

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P.O. #: NONE

## CERTIFICATE OF ANALYSIS A8822968

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Sb ppm
L1300E 150N	217 ---	1	19		1	22	32	0.1	3
L1300E 200N	201 ---	11	92		1	2	44	0.1	3
L1300E 250N	201 ---	5	130		1	3	56	0.1	3
L1300E 300N	201 ---	19	210		1	1	50	0.1	3
L1300E 350N	201 ---	5	107		2	3	52	0.1	3
L1300E 400N	201 ---	5	62		2	5	50	0.2	3
L1300E 450N	217 ---	5	127		1	1	50	0.1	3
L1300E 500N	201 ---	4	57		1	5	40	0.1	3
L1300E 550N	201 ---	7	49		1	6	42	0.1	3
L1300E 600N	201 ---	4	93		1	5	48	0.3	3
L1300E 650N	201 ---	12	16		1	6	20	0.1	3
L1300E 700N	201 ---	4	80		1	1	38	0.1	3
L1300E 750N	217 ---	6	5		1	20	38	0.1	3
L1400E BL 0	217 ---	2	28		1	17	36	0.1	3
L1400E 050N	201 ---	12	40		1	3	20	0.1	2
L1400E 100N	201 ---	6	118		1	1	70	0.1	2
L1400E 150N	201 ---	4	55		1	13	34	0.1	3
L1400E 200N	201 ---	1	5		1	7	34	0.1	3
L1400E 250N	201 ---	4	160		1	1	42	0.1	2
L1400E 300N	201 ---	18	122		1	2	46	0.1	2
L1400E 350N	201 ---	2				5	60	0.1	2
L1400E 400N	217 ---	3				20	42	0.1	3
L1400E 450N	201 ---	7	43			1	36	0.1	3
L1400E 500N	201 ---	9	143			1	54	0.1	3
L1400E 550N	201 ---	2	7		1	28	30	0.1	3
L1400E 600N	201 ---	9	12		1	6	14	0.1	2
L1400E 650N	201 ---	11	11			10	16	0.1	3
L1400E 700N	217 ---	9	77		1	2	38	0.1	3
L1400E 750N	201 ---	2	7		1	26	30	0.1	3
L1500E 000N	201 ---	19	72		1	1	26	0.1	3
L1500E 050N	201 ---	6	117		1	2	74	0.3	3
L1500E 100N	201 ---	7	37			11	30	0.1	3
L1500E 150N	201 ---	50	108		1	2	42	0.1	3
L1500E 200N	201 ---	9	29		1	9	22	0.2	3
L1500E 250N	201 ---	7	114		1	1	44	0.1	3
L1500E 300N	201 ---	6	142		1	1	44	0.3	3
L1500E 350N	201 ---	11	55			4	38	0.1	3
L1500E 400N	201 ---	31	105			1	26	0.1	3
L1500E 450N	201 ---	5	42		1	3	28	0.2	3
L1500E 500N	201 ---	5	126		1	2	42	0.1	3

CERTIFICATION

*Handwritten signature*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 BROOKSBANK AVE. NORTH VANCOUVER,  
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RICHMOND, BC  
V7A 1X8

Project: ADAM GOLD

Comments: ATTN: DAVE SOOD CC: GOLDEN TRIANGLE

Page No 5  
Tot. Pages 5  
Date 20-SEP-88  
Invoice # 1-8822968  
P.O. # NONE

## CERTIFICATE OF ANALYSIS A8822968

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Sb ppm
L1800E 250N	201 --	4	67	2	1	40	0.1	3	0.1
L1800E 300N	201 --	11	60	2	1	28	0.1	3	0.1
L1800E 350N	201 --	7	340	2	1	44	0.1	3	0.1
L1800E 400N	201 --	7	320	2	1	44	0.1	3	0.1
L1800E 450N	201 --	6	130	2	1	40	0.1	3	0.1
L1800E 500N	201 --	4	142	2	1	44	0.1	3	0.1
L1800E 550N	201 --	15	133	2	1	48	0.1	3	0.1
L1800E 600N	203 --	11	78	1	5	58	0.2	3	0.1
L1800E 650N	201 --	7	136	1	5	60	0.2	7	0.1
L1800E 700N	201 --	5	116	1	3	56	0.2	4	0.1
L1800E 750N	201 --	39	102	1	8	70	0.2	5	0.1
L1900E 000N	201 --	5	89	1	1	48	0.2	3	0.1
L1900E 050N	201 --	38	107	1	1	42	0.1	3	0.1
L1900E 100N	201 --	8	102	1	3	54	0.1	3	0.1
L1900E 150N	201 --	6	110	1	1	58	0.1	3	0.1
L1900E 200N	201 --	6	92	1	1	30	0.1	3	0.1
L1900E 250N	201 --	5	103	1	4	50	0.2	3	0.1
L1900E 300N	201 --	9	78	1	5	36	0.1	3	0.1
L1900E 350N	201 --	26	130	1	11	36	0.2	3	0.1
L1900E 400N	201 --	5	100	1	7	46	0.3	3	0.1
L1900E 450N	201 --	4	56	1	2	24	0.1	3	0.1
L1900E 500N	201 --	7	56	1	5	46	0.1	3	0.1
L1900E 550N	201 --	5	77	1	1	44	0.1	3	0.1
L1900E 600N	201 --	10	57	1	3	28	0.1	3	0.1
L1900E 650N	201 --	7	53	1	5	44	0.1	3	0.1
L1900E 700N	201 --	4	71	1	1	38	0.2	3	0.1
L1900E 750N	201 --	3	83	1	3	52	0.1	3	0.1

CERTIFICATION



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER  
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 944-0221

15 GERMA MINERALS

162 - 11080 WILLIAMS RD.

RICHMOND, BC

V7A 1X8

Project: ADAM GOLD

Comments: ATTN: DAVE SOOD CC: GOLDEN TRIANGLE

\*\*Page No. 4

Tot. Pages: 5

Date: 20-SEP-88

Invoice #: 1-8822968

P.O. #: NONE

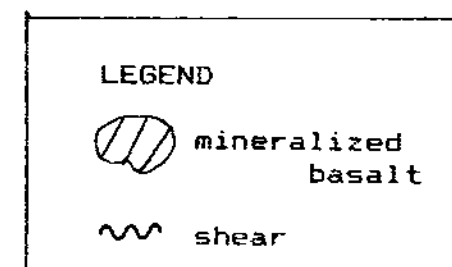
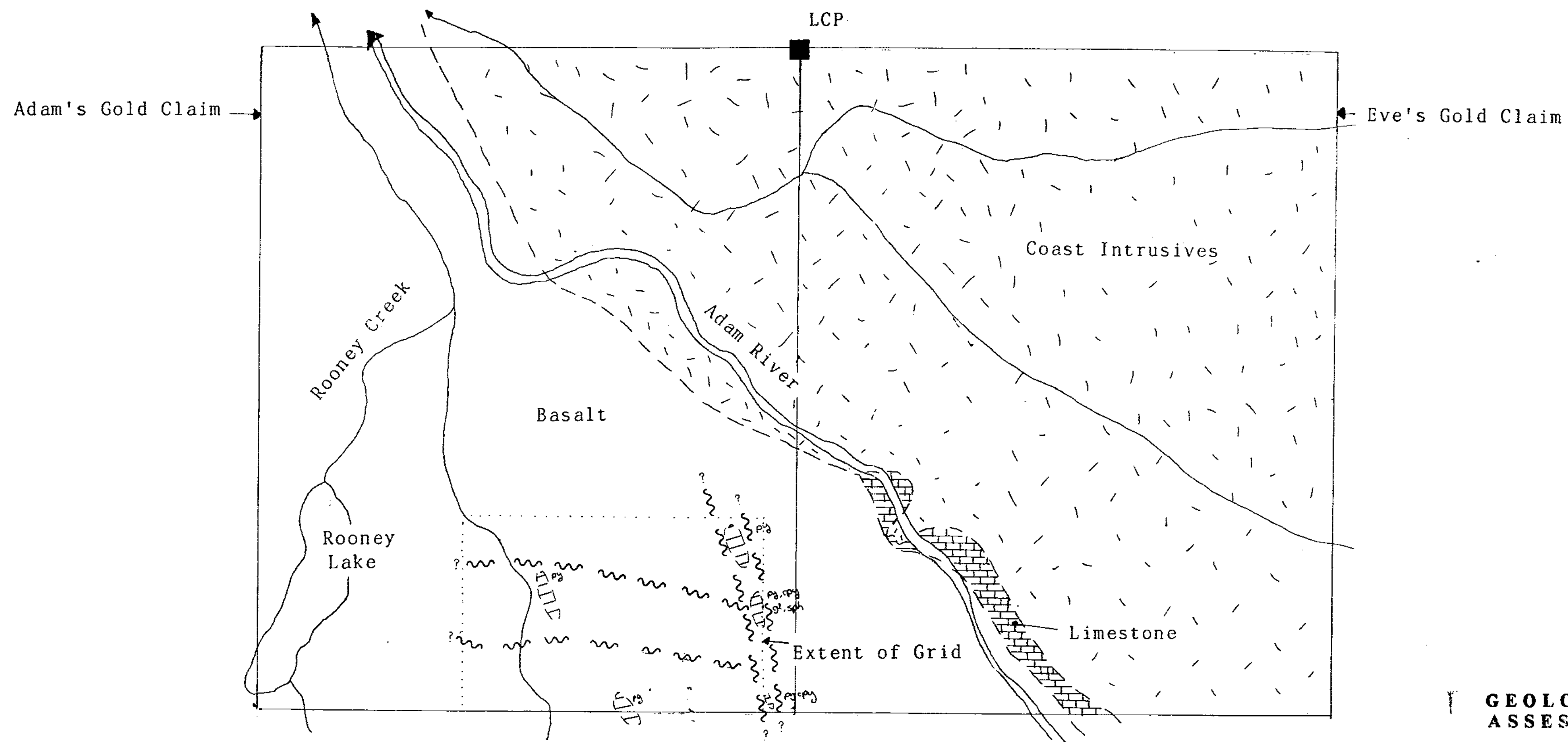
## CERTIFICATE OF ANALYSIS A8822968

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb	Cu ppm	Mb ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Sb ppm		
L1500E 550N	201 ---	6	60	1	15	48	0.2	3	0.1		
L1500E 600N	201 ---	5	123	1	3	48	0.1	3	0.1		
L1500E 650N	201 ---	7	68	1	2	36	0.2	3	0.1		
L1500E 700N	201 ---	7	115	1	1	58	0.1	3	0.1		
L1500E 750N	201 ---	852	30	1	9	22	0.2	3	0.1		
L1600E 000N	201 ---	8	80	1	1	40	0.1	3	0.1		
L1600E 050N	201 ---	8	108	2	5	72	0.5	3	0.1		
L1600E 100N	201 ---	6	178	2	1	46	0.4	3	0.1		
L1600E 150N	201 ---	12	118	1	26	42	0.5	3	0.1		
L1600E 200N	201 ---	5	140	2	11	24	0.1	3	0.1		
L1600E 250N	201 ---	8	32	2	4	32	0.1	3	0.1		
L1600E 300N	201 ---	17	46	1	3	32	0.1	3	0.1		
L1600E 350N	201 ---	8	79	1	2	52	0.1	3	0.1		
L1600E 400N	201 ---	24	102	1	3	44	0.2	3	0.1		
L1600E 450N	201 ---	< 4	59	1	18	70	0.1	3	not / ss		
L1600E 500N	201 ---	5	118	1	1	52	0.1	2	0.1		
L1600E 550N	201 ---	62	105	1	6	46	0.1	3	0.1		
L1600E 600N	201 ---	6	138	3	1	56	0.2	3	0.1		
L1600E 650N	201 ---	11	58	1	5	34	0.1	3	0.1		
L1600E 700N	201 ---	5	105	1	1	40	0.2	3	0.1		
L1600E 750N	201 ---	5	86	1	1	44	0.2	3	0.1		
L1700E 050N	201 ---	8	69	1	1	44	0.2	3	0.1		
L1700E 100N	201 ---	8	58	1	3	44	0.2	3	0.1		
L1700E 150N	201 ---	5	112	1	2	62	0.1	2	0.1		
L1700E 200N	201 ---	14	24	4	6	40	< 0.2	4	not / ss		
L1700E 250N	201 ---	5	112	2	1	62	0.1	3	0.1		
L1700E 300N	201 ---	5	95	2	11	64	0.4	3	0.1		
L1700E 350N	201 ---	10	106	3	1	80	0.1	3	0.1		
L1700E 400N	201 ---	7	97	1	1	44	0.1	3	0.1		
L1700E 450N	201 ---	9	75	1	1	42	0.1	3	0.1		
L1700E 500N	201 ---	6	147	2	2	62	0.1	3	0.1		
L1700E 550N	201 ---	5	92	1	1	40	0.1	3	0.1		
L1700E 600N	201 ---	4	69	1	1	36	0.1	2	0.1		
L1700E 650N	201 ---	14	56	1	1	28	0.1	3	0.1		
L1700E 700N	201 ---	7	130	2	4	42	0.1	3	0.1		
L1700E 750N	201 ---	6	88	3	1	50	0.1	3	0.1		
L1800E 000N	201 ---	5	93	1	1	30	0.1	3	0.1		
L1800E 050N	201 ---	4	100	2	1	36	0.1	3	0.1		
L1800E 100N	201 ---	12	93	2	1	38	0.1	3	0.1		
L1800E 200N	201 ---	12	116	< 2	< 2	44	< 0.2	6	not / ss		

CERTIFICATION

*Mark Bickler*





**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

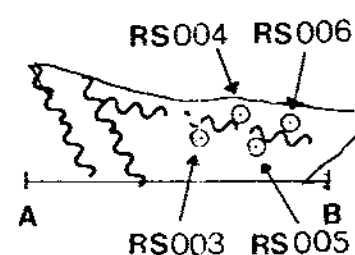
**18,255**

ADAM PROJECT	
For:	GERMA MINERALS INC.
By:	COSSACK GOLD MINING CORP.
LOCAL GEOLOGY MAP	
Scale 1:12000 0 125 250 500 750	
NTS: 92L/8E	Date: SEPT 1988
Drawn By: EHS	Figure No: 3

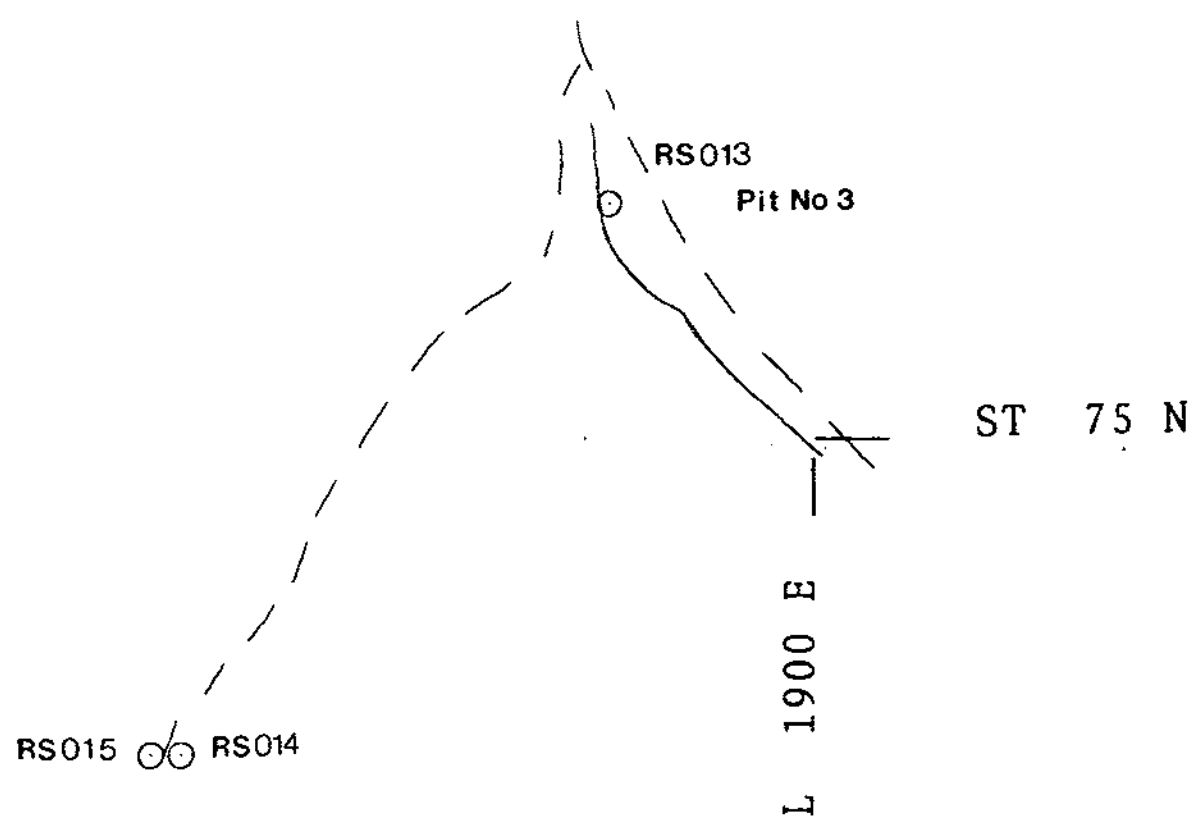
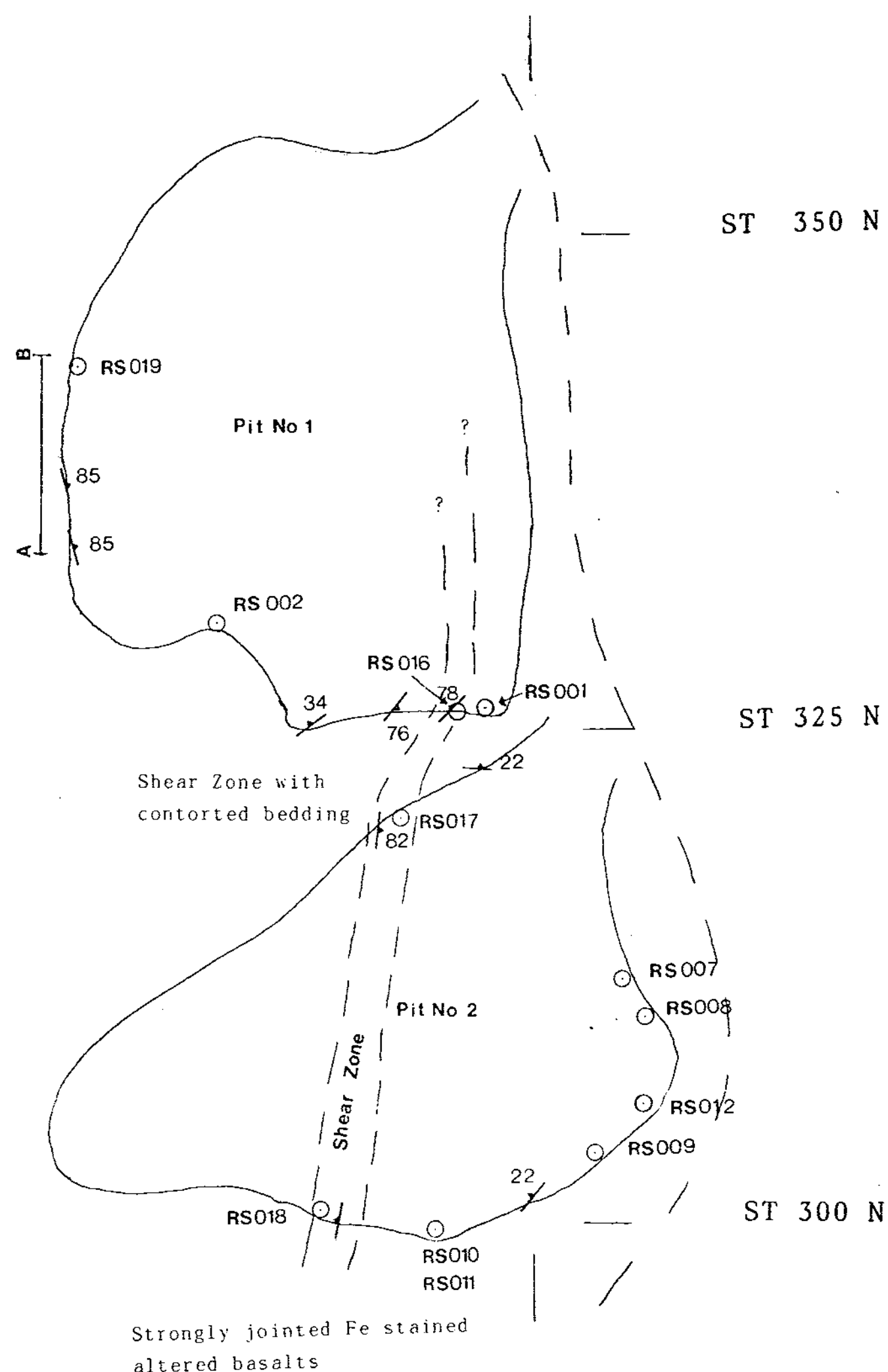


# ROCK SAMPLE GEOCHEMISTRY

	Au ppb	Cu ppm	Pb ppm	Zn ppm
RS001	17	144	2	82
RS002	13	230	2	36
RS003	5	198	2	46
RS004	4	161	2	31
RS005	3	124	2	25
RS006	10	41	42	31
RS007	5	124	8	34
RS008	2	54	6	28
RS009	2	113	2	84
RS010	20	248	2	33
RS011	2	385	98	36
RS012	5	2280	2	40
RS013	3	91	2	73
RS014	8	758	2	55
RS015	2	37	2	39
RS016	5	235	2	42
RS017	4	465	2	91
RS018	3	202	4	82
RS019	2	34	2	31



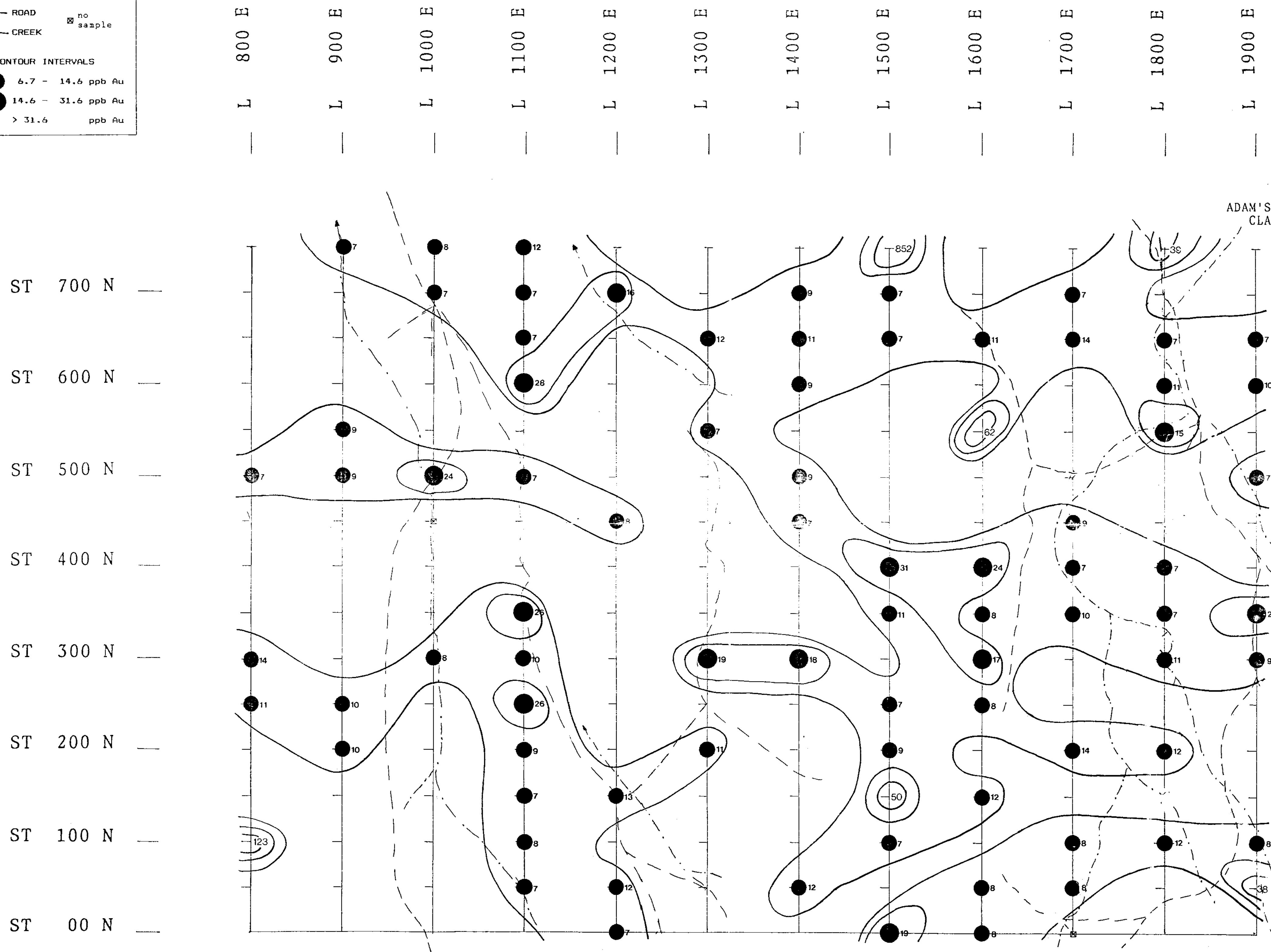
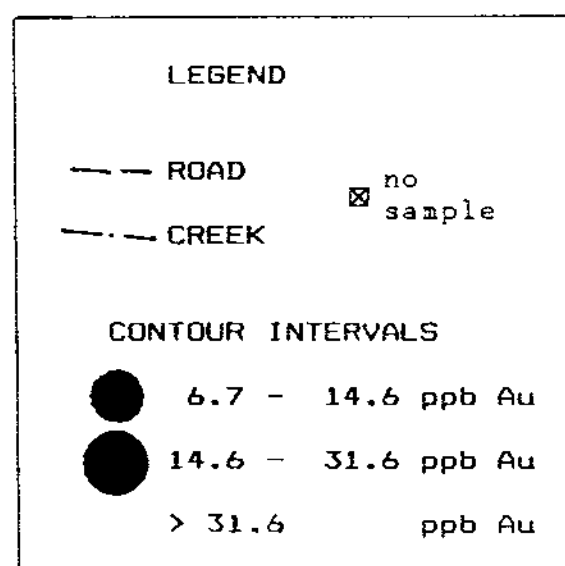
Highly fractured with  
strong Fe staining



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

18,255

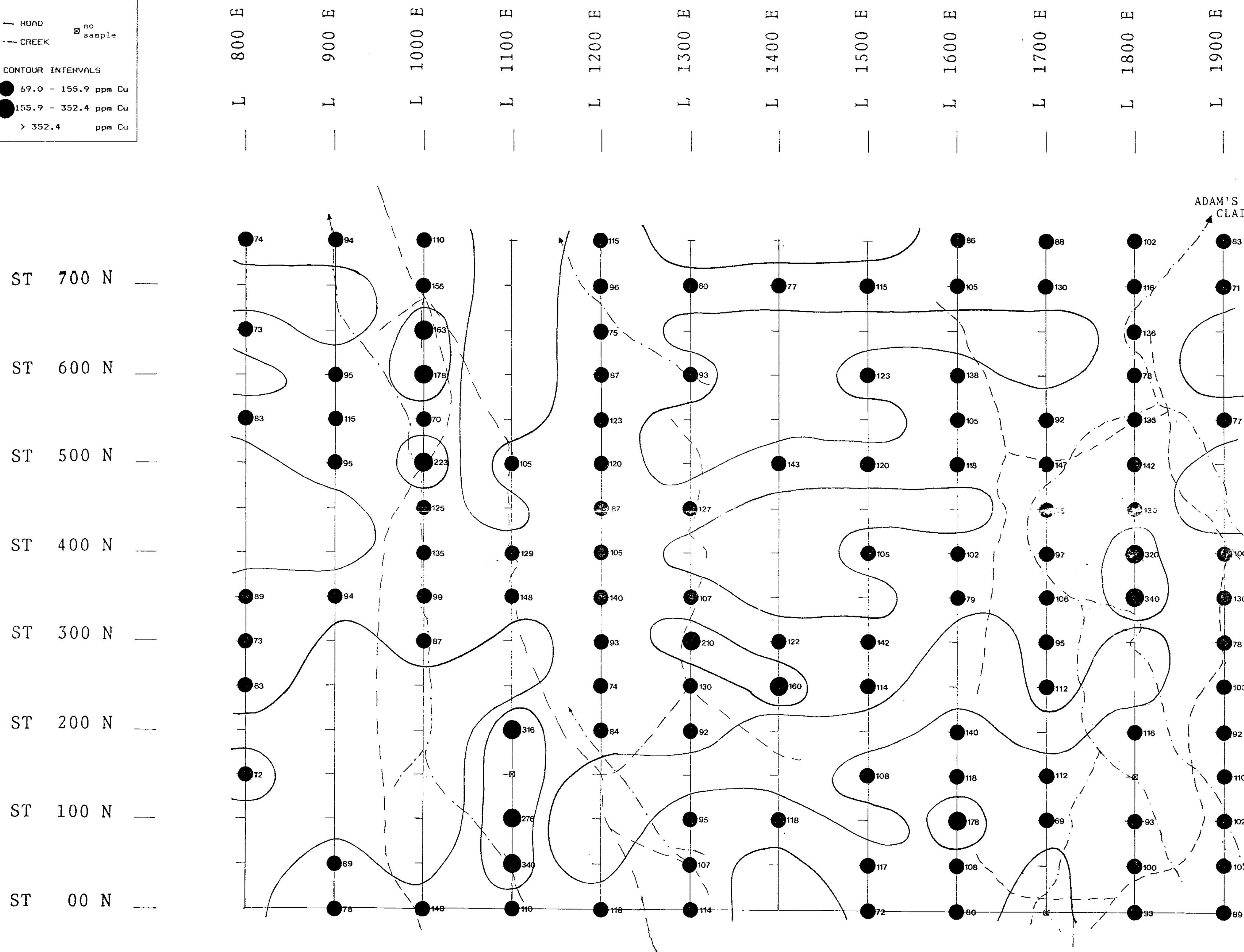
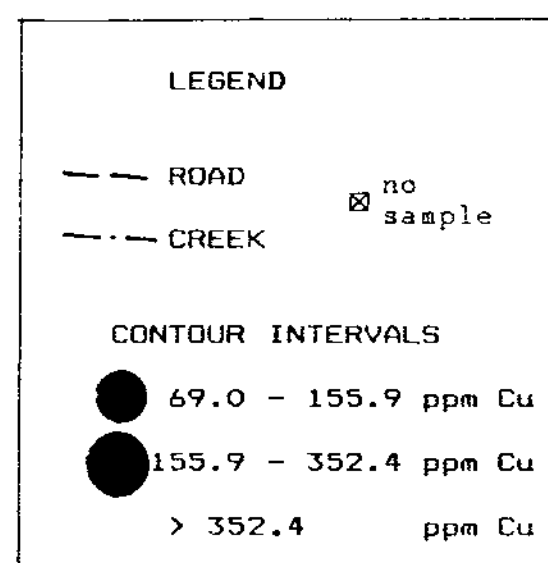
ADAM PROJECT	
For:	GERMA MINERALS INC.
By:	COSSACK GOLD MINING CORP.
PIT GEOLOGY AND SAMPLE LOCATIONS	
SCALE AS INDICATED	
NTS: 92L/8E	Date: SEPT 1988
Drawn By: EHS	Figure No: 4



GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

18,255

ADAM PROJECT	
For:	GERMA MINERALS INC.
By:	COSSACK GOLD MINING CORP.
GOLD GEOCHEMISTRY	
Scale 1:2500 0 25 50 100 150 m	
NTS: 92L/8E	Date: SEPT 1988
Drawn By: EHS	Figure No: 5



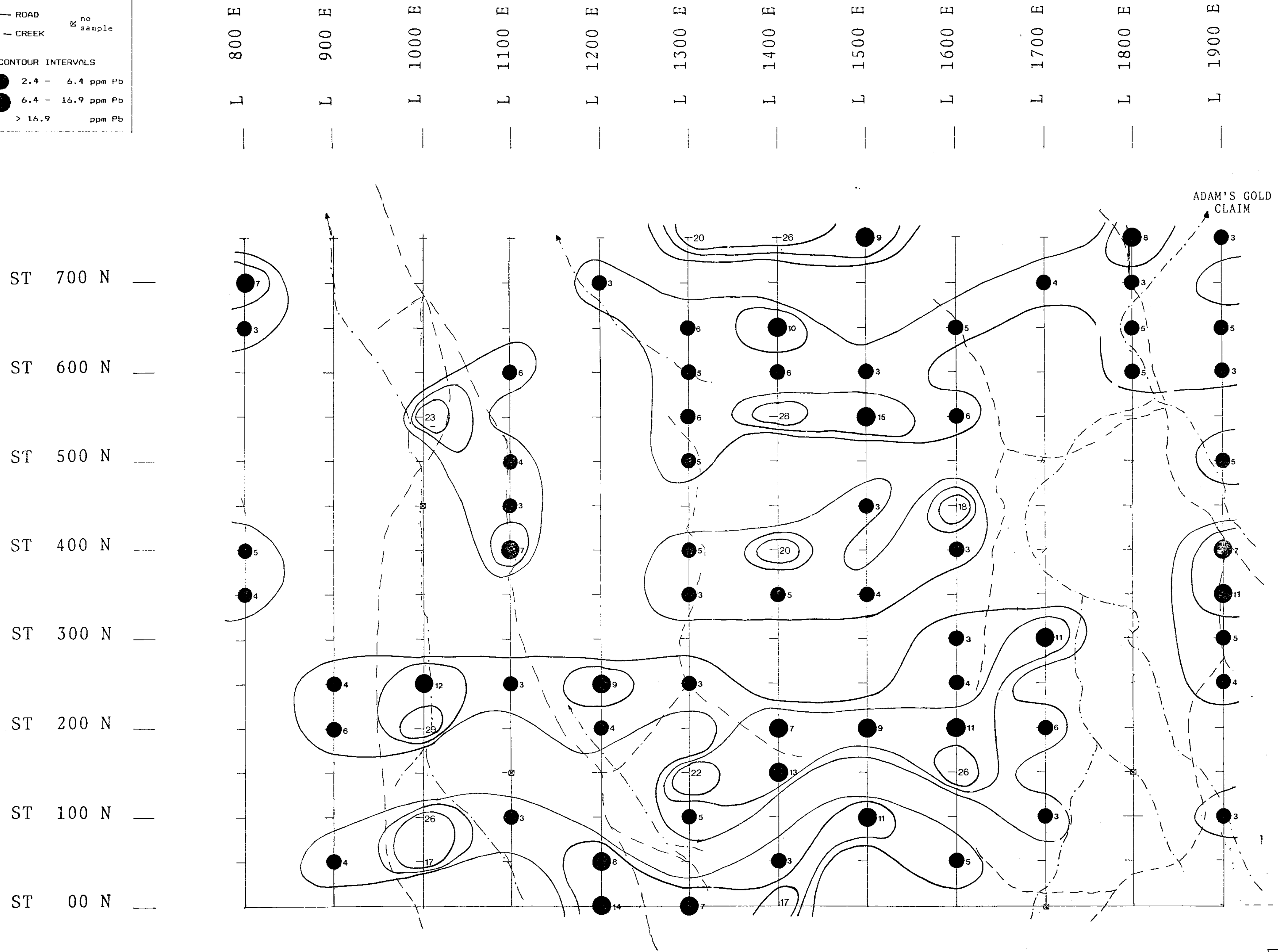
ADAM PROJECT	
For:	GERMA MINERALS INC.
By:	COSSACK GOLD MINING CORP.
COPPER GEOCHEMISTRY	
Scale	
1:2500	
NTS: 92L/8E	Date: SEPT 1988
Drawn By: EHS	Figure No: 6

**LEGEND**

— ROAD      ⊗ no sample  
 - - - CREEK

**CONTOUR INTERVALS**

● 2.4 - 6.4 ppm Pb  
 ● 6.4 - 16.9 ppm Pb  
 ● > 16.9 ppm Pb



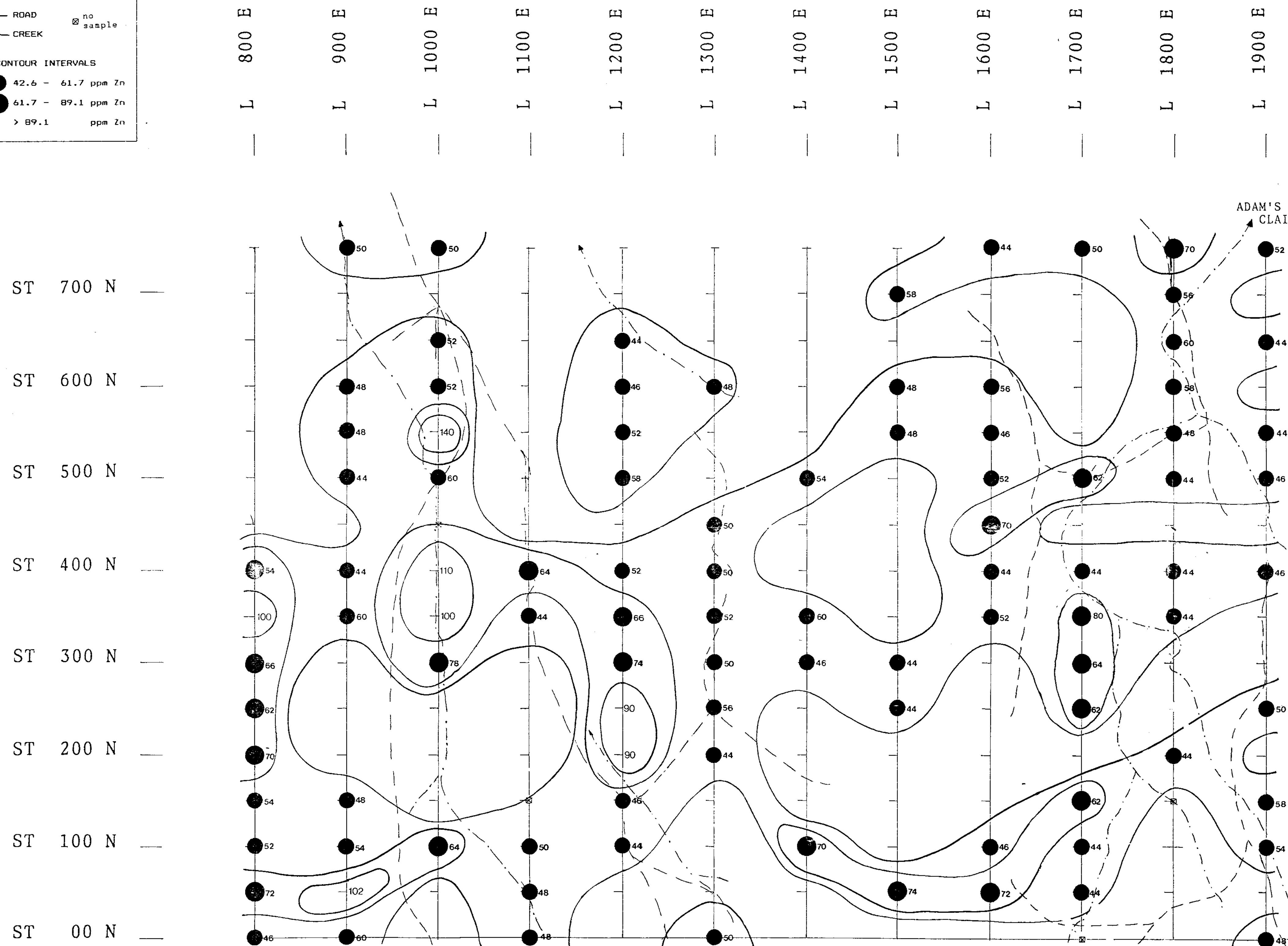
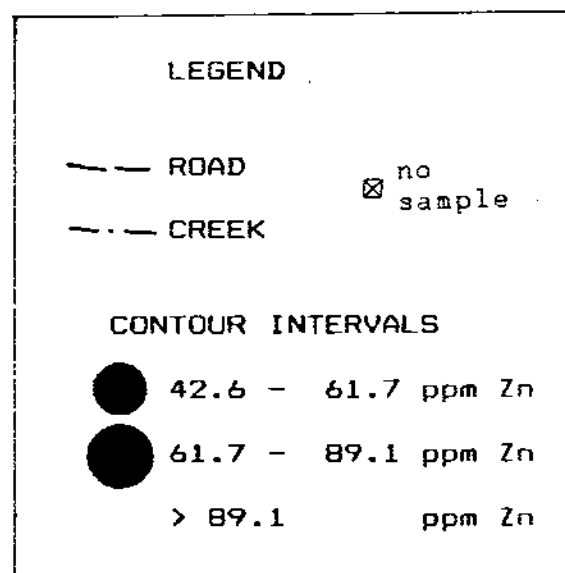
ADAM'S GOLD CLAIM

EVE'S GOLD CLAIM

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**1:8,255**

ADAM PROJECT	
For:	GERMA MINERALS INC.
By:	COSSACK GOLD MINING CORP.
LEAD GEOCHEMISTRY	
Scale	1:2500 0 25 50 100 150 m
NTS: 92L/8E	Date: SEPT 1988
Drawn By: EHS	Figure No: 7



ADAM'S GOLD CLAIM

EVE'S GOLD CLAIM

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

18,255

ADAM PROJECT	
For:	GERMA MINERALS INC.
By:	COSSACK GOLD MINING CORP.
ZINC GEOCHEMISTRY	
Scale	1:2500 0 25 50 100 150 m
NTS: 92L/8E	Date: SEPT 1988
Drawn By: EHS	Figure No: 8

LEGEND

— ROAD

— CREEK

ST 700 N

ST 600 N

ST 500 N

ST 400 N

ST 300 N

ST 200 N

ST 100 N

ST 00 N

L 800 E

L 900 E

L 1000 E

L 1100 E

L 1200 E

L 1300 E

L 1400 E

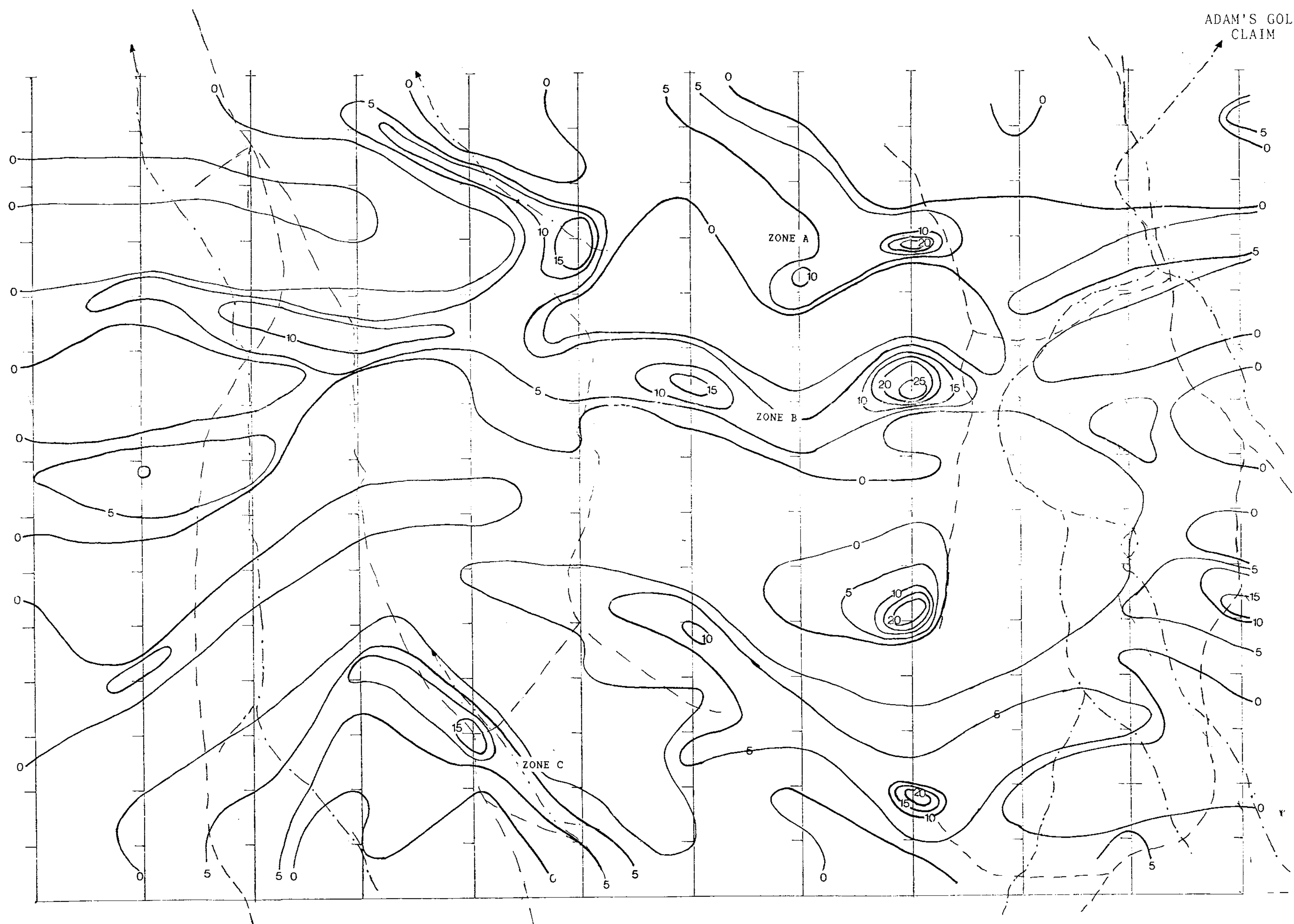
L 1500 E

L 1600 E

L 1700 E

L 1800 E

L 1900 E



ADAM'S GOLD CLAIM

EVE'S GOLD CLAIM

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

13,255

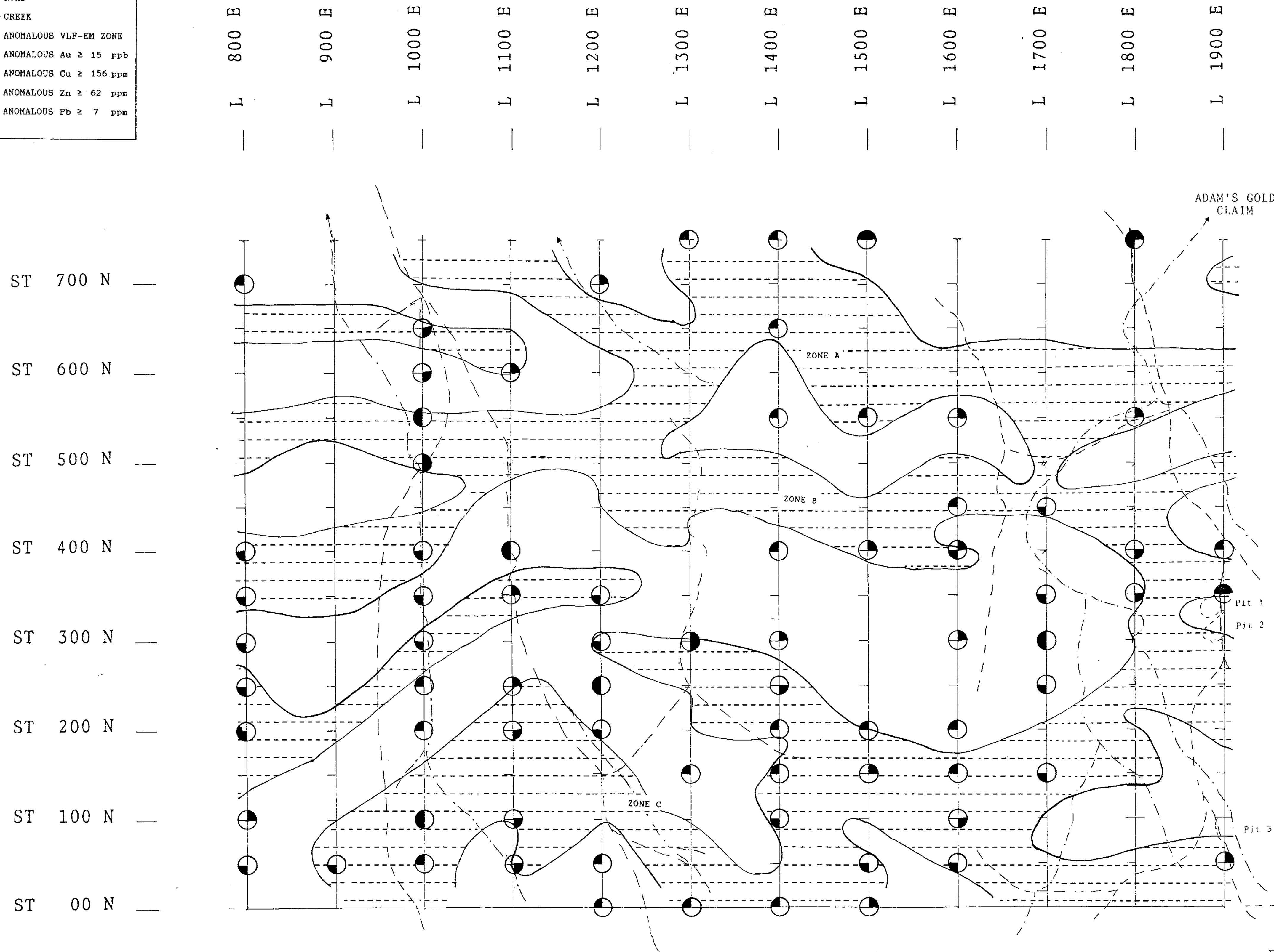
ADAM PROJECT	
For: GERMA MINERALS INC.	
By: COSSACK GOLD MINING CORP.	
VLF-EM CONTOURS (Fraser Filtered)	
Scale 1:2500 0 25 50 100 150 m	
NTS: 92L/8E	Date: SEPT 1988
Drawn By: EHS	Figure No: 9

NOTE: Fraser Filtered contour intervals every 5 units



LEGEND

- ROAD
- CREEK
- ANOMALOUS VLF-EM ZONE
- ANOMALOUS Au  $\geq 15$  ppb
- ANOMALOUS Cu  $\geq 156$  ppm
- ANOMALOUS Zn  $\geq 62$  ppm
- ANOMALOUS Pb  $\geq 7$  ppm



ADAM'S GOLD CLAIM

EVE'S GOLD CLAIM

Pit 1

Pit 2

Pit 3

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**18,255**

ADAM PROJECT

For: GERMA MINERALS INC.

By: COSSACK GOLD MINING CORP.

COMPILATION MAP

Scale 1:2500 0 25 50 100 150 m

NTS: 92L/8E Date: SEPT 1988

Drawn By: EHS Figure No: 10