

ARIS SUMMARY SHEET

District Geologist, Nelson

Off Confidential: 89.03.30

ASSESSMENT REPORT 17510

MINING DIVISION: Nelson

PROPERTY: Porcupine  
 LOCATION: LAT 49 15 00 LONG 117 11 30  
 UTM 11 5455046 486050  
 NTS 082F03E 082F06E  
 CLAIM(S): Porky, Victor, Emerald, Porcupine, Sunrise, Nevada, Gorgina-Sandaulphin Imperial  
 OPERATOR(S): Obulus Res.  
 AUTHOR(S): McClintock, J.A.  
 REPORT YEAR: 1987, 62 Pages

COMMODITIES  
 SEARCHED FOR: Gold, Silver, Lead, Zinc

GEOLOGICAL SUMMARY: The claim group is underlain by Mesozoic sedimentary, volcanic and intrusive rocks of the Omineca Crystalline Belt. Mineralization consists of pyrite, galena, and sphalerite with traces of pyrrhotite in a gangue of quartz and silicified wallrock. The veins occupy northeasterly trending, steeply dipping shear zones in argillite.

WORK DONE: Geophysical, Geochemical  
 EMGR 25.0 km; VLF  
 Map(s) - 1; Scale(s) - 1:2500  
 LINE 35.0 km  
 MAGG 25.0 km  
 Map(s) - 1; Scale(s) - 1:2500  
 ROCK 6 sample(s) ; PB, ZN, AG, AU  
 SOIL 530 sample(s) ; PB, ZN, AG, AU  
 Map(s) - 4; Scale(s) - 1:2500  
 MINFILE: 082FSW063, 082FSW064

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**GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT**

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ON THE

**PORCUPINE CLAIM GROUP**

**NELSON MINING DIVISION - BRITISH COLUMBIA**

Latitude 49° 15' North

Longitude 117° 11' West <sup>30"</sup>

N.T.S. 82F/3E, 6E

**GEOLOGICAL BRANCH  
FOR ASSESSMENT REPORT**

**17,510**

LASER RESOURCES LTD.

BY

**FILMED**

**JOHN A. MCCLINTOCK, P.ENG. (B.C.)**

October 5, 1987

Vancouver, B.C.

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## 1. SUMMARY AND CONCLUSIONS

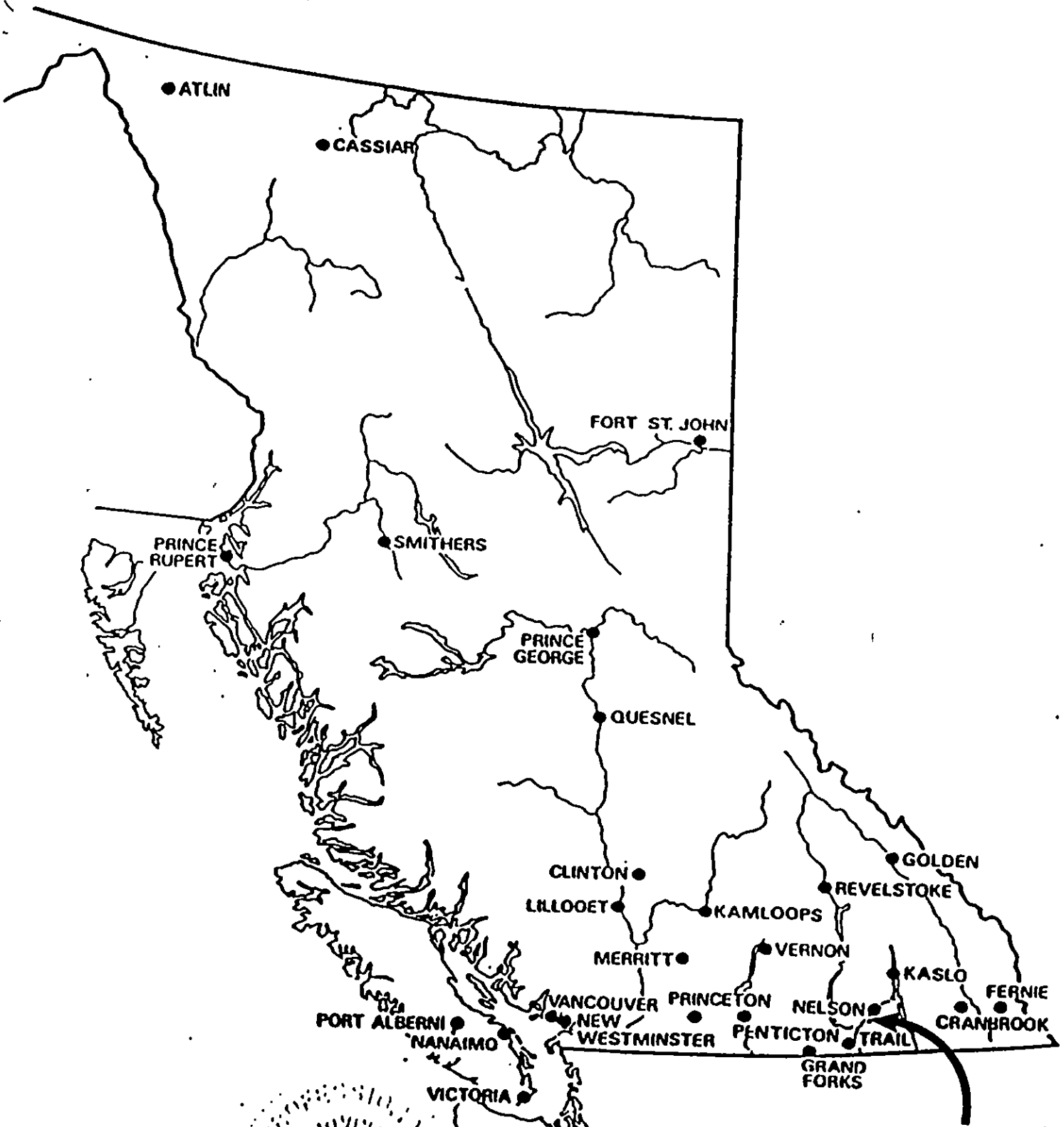
The Porcupine Claim Group is situated in southeastern British Columbia, approximately 33 kilometers south of the city of Nelson. The claims lie within the Ymir Gold Camp which has produced over 233,400 ounces of gold and 1,200,000 ounces of silver from vein-type deposits localized in the contact zones between granodiorite and schistose sedimentary rocks.

Past exploration of the Porcupine Claim Group combined with the results of recent soil sampling and geological mapping show the claims have potential for high-grade gold-silver veins similar to those mined in other properties within the Ymir Gold Camp.

Since 1896, at least five separate vein systems have been explored by open cuts and underground workings. Gold and silver occurs with pyrite, galena and sphalerite in a gangue of quartz and silicified wall rocks up to one metre thick in the sheared contact zones between granodiorite dykes schistose argillite. Shipments of 44 tons from one vein had an average grade of 0.068 oz/ton gold, 9.2 oz/ton silver, 4.26% lead and 4.35% zinc. Selected samples of the mineralization are reported in the British Columbia Minister of Mines Annual Report to have assayed up to 1.62 oz/ton and 16.4 oz/ton silver.

The results of recent soil sampling have highlighted several coincident gold, silver and lead anomalies south of the known mineralization. These anomalies possibly indicate additional mineralization, or extensions to the known veins concealed beneath overburden.

To further evaluate the existing showings and gold-silver-lead soil anomalies, a two phase exploration program is recommended.



# Porcupine Claim Group

Figure ①

*[Handwritten signature and circular stamp]*

An initial phase involving sampling of all accessible workings, detailed geological mapping, prospecting and rock sampling of mineralized rock outcrops is recommended. Concurrently with the rock sampling and geological mapping, it is proposed the soil grid be extended to the south. The overall objective of Phase I is to define the extent and surface grade of the mineralized occurrences on the Porcupine Claim Group. Cost of Phase I is estimated to be \$30,800.

Phase II, contingent on the success of Phase I, involves testing of overburden covered areas by trenching, re-opening inaccessible underground workings and testing with diamond drilling the gold and silver grade of mineralization defined by the Phase I program. Estimated cost of Phase II is \$88,000.

2. INTRODUCTION

Laser Resources Ltd. holds by option from Tony Nijhuis, eight reverted crown grants, one 20 unit four post claim in the Porcupine Creek area near Ymir, in southeastern British Columbia. The claims cover a number of shear-hosted sulphide-bearing veins localized in schists at or close to the contact with intrusive rocks. Laser Resources Ltd. acquired the claims for their precious metal potential.

During August, 1987, Laser Resources Ltd. engaged J. Paul Stevenson and Associates to carry out a geological, geochemical and geophysical evaluation of the Porcupine Claim Group. The purpose of this work was to explore for extensions of the known showings and to search for additional precious metal mineralization concealed by overburden. In October, 1987, the writer was commissioned by J. Paul Stevenson, president of J. Paul Stevenson

and Associates, to make an appraisal of the Porcupine Claim Group.

This report is based on a review of exploration work carried out by J. Paul Stevenson and Associates, a property visit made by the writer on October 2, 1987, and a study of all available data, including government publications and assessment reports.

### 2.1 Location and Access

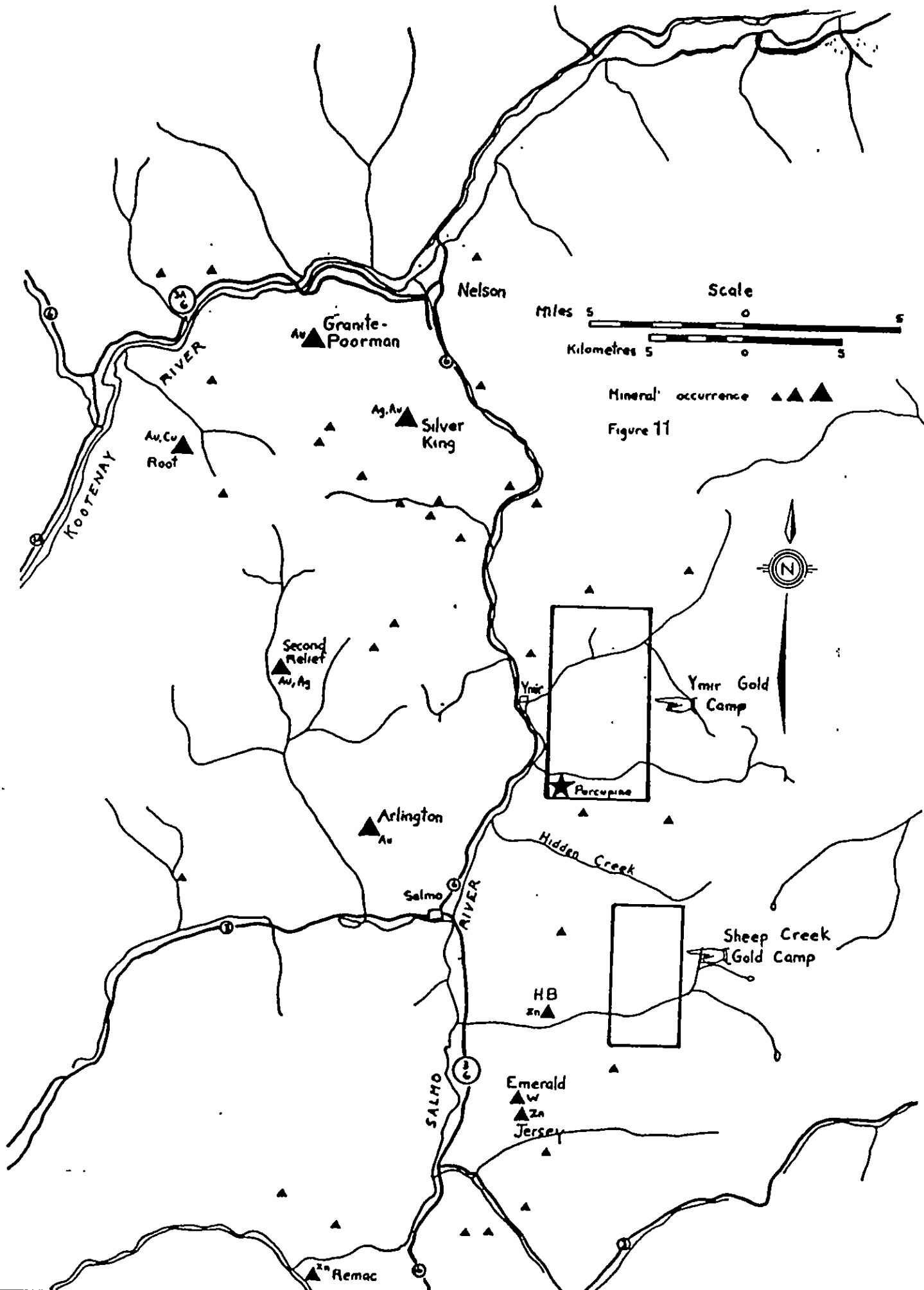
The Porcupine Claim Group lies in the Nelson Mining Division, British Columbia, 33 kilometers south of the city of Nelson and three kilometers east of the community of Ymir. More precisely, it is situated at 49 degrees, 15 minutes north latitude and 117 degrees, 11 minutes west longitude. (National Topographic System Map 82F/3E and 82F/6E).

Access to the northern boundary of the claims is by a gravel road which leaves Highway 6 at the confluence of the Salmo River and Porcupine Creek two kilometers south of Ymir. A pack horse trail provides access to the central and southern parts of the claims.

### 2.2 Physiography

The claims occur in the Bonnington Range of the Selkirk Mountains. Topography in the claims area is moderately steep, but not rugged. Elevations range from 900 to 1,500 metres a.s.l. Slopes are covered with a moderate growth of cedar, balsam, larch, hemlock and poplar with an undergrowth of alder and willow.





Mineral occurrence  
Figure 11

### 2.3 Claim Data

The Porcupine Claim Group consists of eight reverted crown grants and one 20 unit four-post claim. They are located on Mineral Titles Reference Maps M 82F/3E and M 82F/6E (Figure 2). Pertinent claim data are listed in the table below and conforms with the records of the Claim Recorder in Nelson.

<u>Claim</u>	<u>Record #</u>	<u># Of Units</u>	<u>Anniversary Date</u>
Porcupine	4909 RCG(LOT 4634)		Nov..12/88
Porky	4850	20	Aug. 24/88
Victor	4626 RCG	1	Mar. 30/88
Emerald	4627 RCG	1	Mar. 30/88
Porcupine	4628 RCG	1	Mar. 30/88
Sunrise	4629 RCG	1	Mar. 30/88
Nevada	4652 RCG	1	Apr. 13/88
Gorgina	4706 RCG	2	Jun. 1/88
Sandaulphin	4706 RCG	2	Jun. 1/88
Imperial	4705 RCG	1	Jun. 1/88

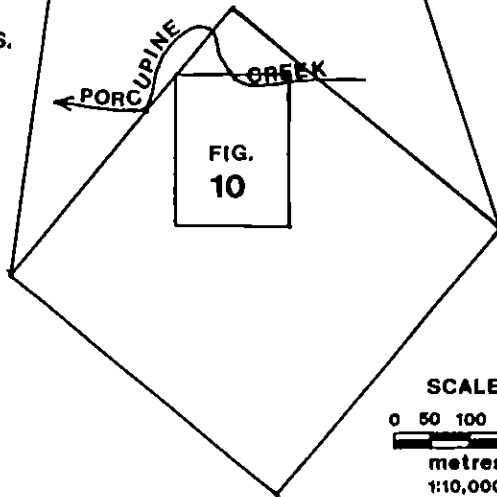
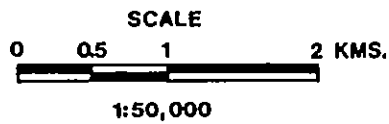
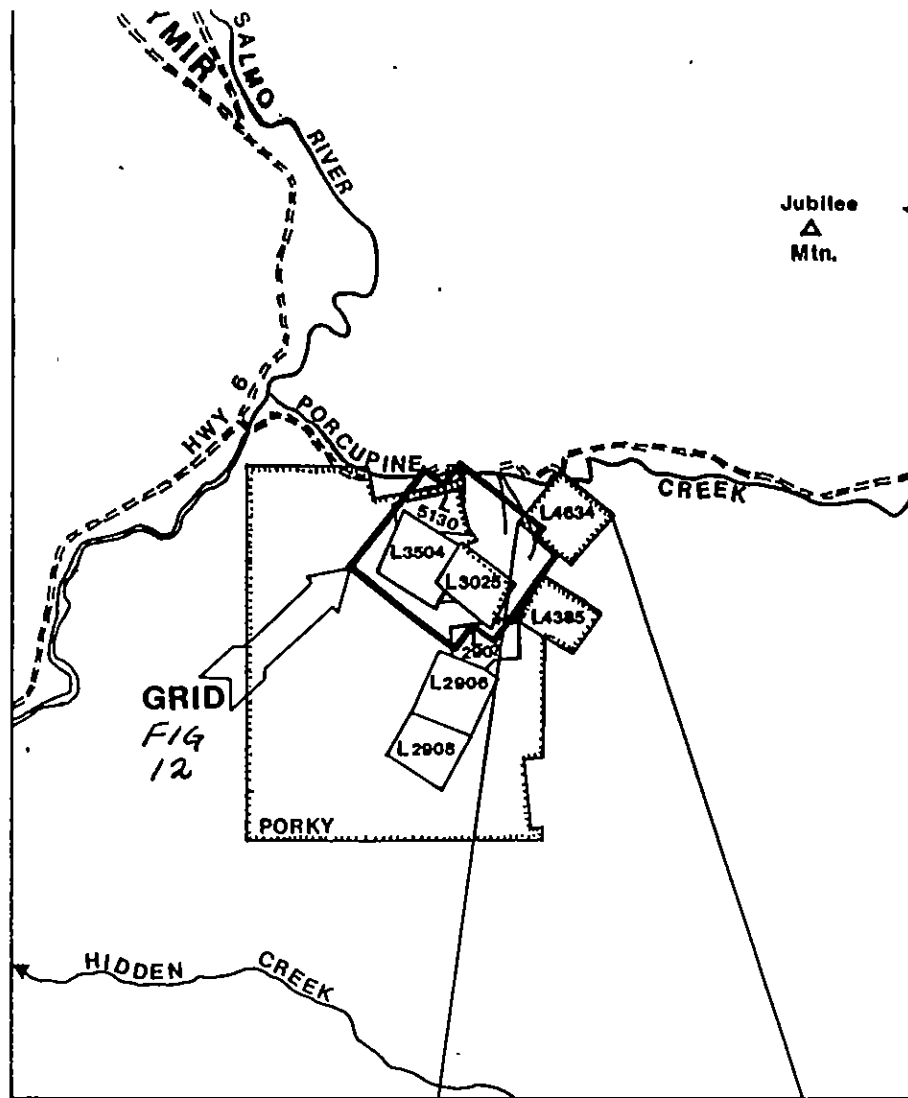
### 2.4 Economic Considerations

The Porcupine Claim Group is linked to the city of Nelson by 40 kilometers of paved and all-weather gravel road. The infrastructure at Nelson could easily support any development in the Porcupine Claims area.

Hydroelectric lines pass within three kilometers of the property and a reliable supply of water is readily available from either the Salmo River or Porcupine Creek. There is adequate area on the Porcupine Claim Group for mine-mill development and waste or tailings disposal.

### 2.5 Regional History

The Porcupine Claim Group occurs within the Ymir Gold Camp and is five kilometers north of the Sheep Creek Gold Camp. The mining



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PORCUPINE PROPERTY	
<b>CLAIMS</b>	
FIGURE	NTS 82F/3E & 6E
2	DATE 8-05-88 af

history of the Ymir and Sheep Creek Gold Camps dates back to the mid 1880's when the initial discoveries were made.

In the Ymir Camp, little activity occurred until the mid 1890's, when excitement generated by the Rossland Camp caused miners to consider new locations. From 1896 until 1903, the camp was actively explored and several properties were placed into production. Since 1903, both mining and exploration for gold and silver has been intermittent with brief flurries of activity from the late 1920's to the early 1950's. Most of the gold and silver production from the Ymir Camp was from the Ymir and Yankee Girl deposits which occur eight and four kilometres north of the Porcupine Claim Group, respectively. The Geological Survey of Canada, in Economic Geology Series Report No.1, states the production from these properties to 1952 as 233,400 ounces of gold and 1,200,000 ounces of silver from 775,000 tons of rock mined giving an average grade of 0.3 ounces per ton gold and 1.5 ounces per ton silver.

The Sheep Creek Camp has a similar history to the Ymir Gold Camp. Initially discoveries were made in the 1890's with gold and silver production commencing in the early 1900's. Since 1902, over 661,800 ounces of gold and 200,000 ounces of silver have been mined. Nearly all of the gold and silver has been extracted from four deposits; the Sheep Creek, Reno, Kootney Belle and Gold Belt. The average grade of ore mined in the camp based on production records listed in Economic Geology Series Report No. 1 is 0.42 ounces per ton gold.

### 3. PREVIOUS WORK

The original Porcupine claim was staked in 1885 and many of the old workings on the property date back to 1897. Since 1897, the

Porcupine claim and adjacent ground has been periodically explored by various individuals and companies. A summary of past exploration on the claims is provided below:

- 1886 - 1901 Open costs and a short adit driven.
- 1902 Porcupine Claim crown granted.
- 1925 Rehabilitation of adit.
- 1926 Eighteen tons of ore shipped to Trail smelter.
- 1932 Several short adits totalling 130 metres and open cuts on five separate veins.
- 1938 84 metres of drifting.
- 1939 49 metres of drifting, 20 meters of cross cutting and 396 metres of tractor trail built.
- 1944 38 metres of drifting.
- 1948 26 tons of ore shipped to Trail smelter by Maple Leaf Mining Company Inc.
- 1968 Geological mapping and sampling of surface workings by Duval Corporation.
- 1976 Geological examination of dumps from adits and cuts by C.F. Graham and Associates.
- 1978 Surface Geological mapping by Mr. I Urquhart.
- 1980 275 metres of line cutting, rock and soil sampling.
- 1981 16.5 of line cutting and grid soil sampling along 100 metre separated lines.

The results of Shipments from the Porcupine claim in 1926 and 1948 and reported by Little (1960) of the Geological Survey of Canada are tabulated below.

<u>Tons Mined</u>	<u>Gold oz</u>	<u>Silver oz</u>	<u>Lead lbs</u>	<u>Zinc lbs</u>
44	3	405	3,747	3,832

#### 4. GEOLOGY

##### 4.1 Regional Geology

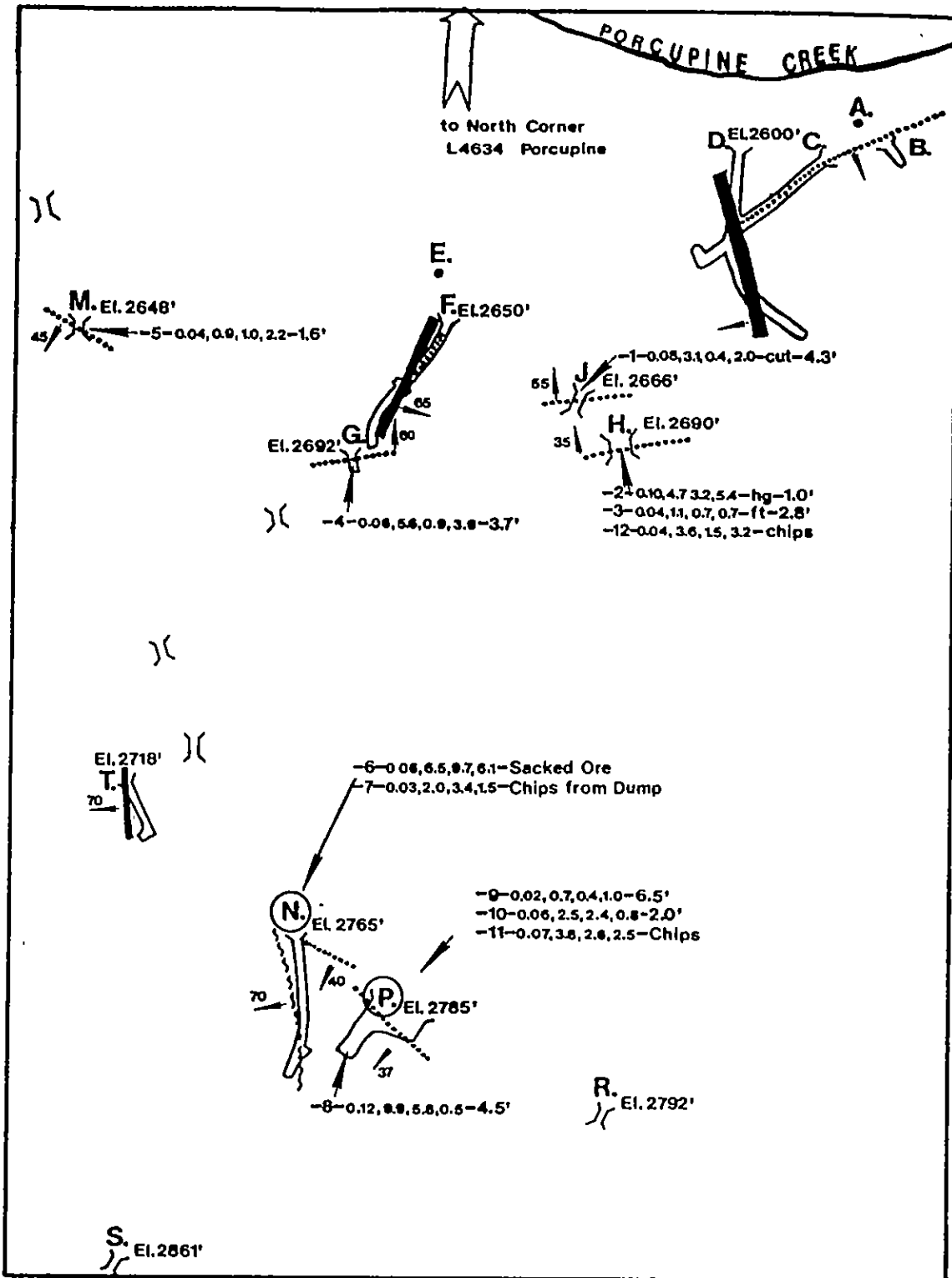
The Porcupine Claim Group lies within the Omineca Crystalline Belt and is underlain by Mesozoic-age sedimentary, volcanic and

intrusive rocks. Regional geological mapping by H.W. Little of the Geological Survey of Canada has separated the volcanic and sedimentary rocks into three separate packages. From oldest to youngest these are: argillite, slate and paragneiss of the lower or pre-Jurassic Ymir Group; greenstone of the lower Jurassic Rossland Formation; and argillite, sandstone and conglomerate of the mid to upper Jurassic Hall Formation.

The volcanic and sedimentary sequence has been folded into a north-trending synclorium whose axis runs from Salmo to Nelson. Subsequently to folding, the sedimentary and volcanic rocks were intruded by granodiorite of the Cretaceous-age Nelson plutonic rocks.

In both the Ymir and Sheep Creek Gold Camps, gold-silver-bearing quartz veins occupy steeply dipping northeasterly trending fissures. Mineralized veins in the Ymir Camp generally occur in the contact zone between tongues of granodiorite and schists of the Ymir Group. Vein widths range from less than 30 centimetres to 12 metres. The wall rock contacts are free and well defined and are often marked by seams of gouge. Gold and silver occur in shoots up to 150 by 145 meters that consist of variable quantities of pyrite, galena and sphalerite in a gangue of quartz and altered wall rock. The wall rocks of the ore shoots are silicified.

In the Sheep Creek Gold camp quartz veins are hosted by argillaceous quartzites. Here, quartz veins range from a few centimetres to 1.5 metres thick, and are mineralized with varying amounts of pyrite, pyrrhotite, chalcopyrite, galena and sphalerite in a gangue of quartz and calcite. The veins also carry minor quantities of scheelite and wolframite.



-after figure (traced from map by CC Starr) on p. A273, Minister of Mines Annual Report for 1930



LEGEND

- Sample results & description  
 -No.-oz. Au, oz. Ag, % Pb, % Zn-dimension(feet)/comment
- ..... veins
  - dykes
  - ~~~~~ fault
  - 70 dip direction & angle in degrees
  - open-cut/trench
  - adit
  - EL2600'-elevation(feet)

LASER RESOURCES LTD.	
PORCUPINE PROPERTY	
<b>WORKINGS</b>	
LOT 4634	
FIGURE	NTS 82F/3E & 6E
10	DATE 5-05-88 af

Previous sampling of the workings is documented in the British Columbia Minister of Mines Annual Report for 1925, and 1930 (figure 10). A description of the highest grade samples is provided in the following table.

<u>Sample Description</u>	<u>Gold oz/ton</u>	<u>Silver oz/ton</u>	<u>Lead%</u>	<u>Zinc%</u>
Grab from ore sacks N	0.09	14.4	18.9	2.4
Select specimen at N	0.74	6.1	7.54	1.2
Select specimen at P	1.62	16.4	11.82	8.7
Selected sample from ore at N	0.06	4.9	12.03	4.4
Selected sample from ore at N	0.04	5.1	12.64	8.5

During the current program, three samples were collected from dumps and spoil piles from old workings by employees of J. Paul Stevenson and Associates (HG2, NV1, NV2), and three samples were collected by the writer (Porc 2-4). The location of the samples is displayed on figure 12, and the results summarized as follows:

<u>Sample No.</u>	<u>Sample Description</u>	<u>Gold oz/ton</u>	<u>Silver oz/ton</u>	<u>Lead%</u>	<u>Zinc%</u>
HG 2	Grab galena/shalerite quartz vein	0.006	0.42	0.19	0.49
NV 1	Grab quartz vein	0.063	-	-	-
NV 2	Grab quartz vein	0.026	-	-	-
Porc 2	Grab quartz vein	0.002	0.03	-	-
Porc 3	Grab pyrite and sphalerite quartz	0.026	0.88	-	-
Porc 4	Grab galena/sphaler- ite vein	0.011	7.90	-	-

## 5. GEOCHEMISTRY

### 5.1 Sampling, Sample Preparation and Analytical Procedure

During August 1987, J. Paul Stevenson and Associates Ltd., using chain and compass techniques, established a grid of stations at 25 m intervals along 50 metre separated northwesterly oriented lines (figure 2). At each station, a sample of "B" horizon soil was collected from 10 to 30 centimeter depth and placed in a labelled, kraft paper envelope.



These soil samples were sent to Min En Laboratories Ltd. in North Vancouver where they were oven dried at 30° C. Dried samples were passed through a -80 mesh sieve. A 10 gram sample of the -80 mesh material from each sample was digested with hot dilute aqua regia and followed by a methyl isobutyl ketone (MIBK) extraction. Gold was determined in the MIBK extract by atomic absorption using background correction. Lead, zinc and silver analysis was done by atomic absorption after digestion in hot dilute aqua regia solution. The total number of samples collected and analysed was 530.

## .2 Interpretation of Results

Statistical manipulations were carried out on the logarithms of the analytical results to determine the anomalous levels (mean plus 2 standard deviations). A summary of the anomalous levels for gold, silver, lead and zinc are as follows:

<u>Element</u>	<u>Anomalous</u> <u>(Mean plus 2 standard deviations)</u>
Gold	30 ppb
Silver	3.0 ppm
Lead	180 ppm
Zinc	1,150 ppm

The analytical results for gold, silver, lead and zinc are plotted on figures 3 through 6 respectively. A complete listing of all analytical results is provided in Appendix III of this report.

Gold - Contouring of the gold values highlighted 19 separate areas of the claims as anomalous. Within the anomalies, gold values are up to 730 ppb. These anomalies occur within a north northeasterly trending, 600 metre by 300 metre, area of the central part of the grid. With the exception of four anomalies, all are single anomalies. Many of the anomalies occur in an area

of now slumped trenches and open cuts. Two of the multi sample anomalies are in the northern part of the central area in an overburden covered area where no old workings were observed.

Silver - Analysis of the soil samples showed the background silver content to be high. The mean silver value is 1.0 ppm, a value which on most mineral properties would be considered anomalous. For this reason, in addition to contouring the anomalous values ( $\geq 3.0$  ppm), values in excess of 2.0 ppm were also contoured.

Contouring of the silver values highlight numerous areas of the grid as anomalous (figure 4). These anomalous values are concentrated in two major trends. The most prominent trend is a 600 by 300 metre, north-northeasterly oriented zone occurring in the centre of the grid. This broad area of anomalous silver is coincident with the same area defined by scattered gold anomalies. Within this zone are seven separate multi-sample and single sample anomalies. Contouring the  $\geq 2.0$  ppm silver values joins five of these anomalies into a single zone measuring 350 by 300 metres. The southern part of the zone of silver anomalies occurs in an area where an old shaft, and now slumped open cuts were noted. Because of its depth and the lack of appropriate equipment, the shaft could not be entered; however, examination of the dump found pyrite, sphalerite and galena bearing quartz. The northern part of the anomalous zone overlies predominantly overburden covered areas. Although occasional slumped pits are present, the source of these anomalous values are unexplained. It is possible that these anomalies are caused by northerly extensions of the mineralization exposed in the shaft, or separate shear-hosted veins.

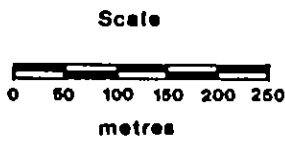
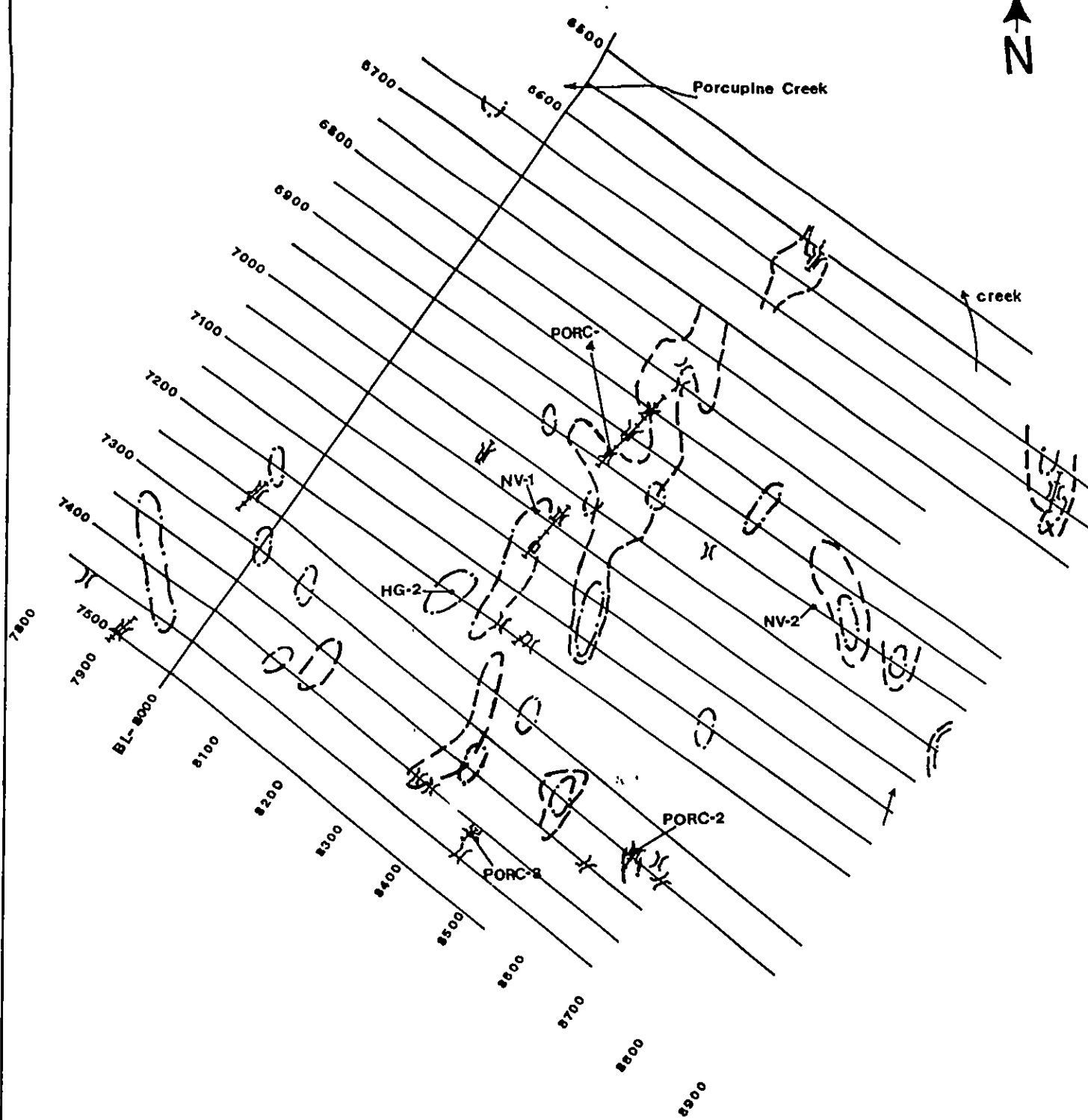
The second major anomalous silver trend occurs in the northeast area of the grid. Unlike the central zone, this eastern zone is not coincidentally anomalous for gold. No old workings were noted in this area and therefore, the source of these anomalies is not fully explained. The source of the anomalous silver maybe precious metal-bearing, shear hosted quartz veins.

A third area of anomalous silver values occurs in the southwest grid area. Here, northerly oriented silver anomalies are coincident with scattered anomalous gold values. Several slumped pits were observed and minor amounts of pyrite bearing quartz were seen.

Lead - When contoured at 180 ppm, eleven separate areas of the grid are highlighted as anomalous for lead (fig. 9). Nine of these anomalies are multisample anomalies. Of these multisample anomalies, five occur within the central grid area and are generally coincident with the areas outlined by the silver and gold soil anomalies. The remaining four anomalies occur in the north and northeastern grid area and over lie areas of single station silver anomalies. As in the case of silver and gold, the lead anomalies trend north-northeasterly.

Of the nine multisample anomalies, three overlie areas of known mineralization. These anomalies are centered at grid coordinates 70+50S and 82+50E, 69+50N and 83+75E, and 66+00S and 84+00E. The remaining six anomalies are in overburden covered areas. As with the gold and silver anomalies, these lead anomalies may indicate additional precious metal mineralization concealed beneath the overburden.

Zinc - Contouring of the zinc soil results identified 18 separate zinc anomalies scattered over the grid area. Only six of the zinc anomalies are coincident with anomalous values in the other



**PORCUPINE PROPERTY GRID**

**GEOCHEMICAL & PHYSICAL COMPILATION**

**FIG. 12**

Scale	1:7500		Silver soil anomaly
Map Sheets	B2F/3E & 6E		Lead soil anomaly
Date	28/03/88	NV-1 →	Sample location
			Adit
			Trench or pit
			Shaft
			Vein trend

metals analysed. Four of these zinc anomalies are in a north-northeasterly trending area of the central grid area. Only the anomalies centered at grid co-ordinates 70+50S, 82+75E and 65+50S, 83+75E are in an area of known zinc mineralization. At both, sphalerite occurs in quartz on the spoil piles from old workings. The remaining zinc anomalies yet unexplained.

## 6. GEOPHYSICS

Utilizing the geochemical grid, VLF electromagnetic and magnetometer surveys were carried out on the Porcupine Claim Group. It was hoped that the VLF electromagnetic survey would be useful in locating shear zones and fault structures that might host precious metal-bearing veins.

The magnetometer survey was carried out as an aid to geological mapping. Since many of the known gold and silver bearing veins and replacement zones are localized at the contacts of granitic dykes and argillites, it was thought that a magnetic survey would be useful in tracing such contacts in overburden covered areas.

### 6.1 VLF Electromagnetic Survey

#### Survey Procedure

The VLF EM 16 survey readings were taken at 25 metre intervals along the geochemical grid lines (Fig 7). During the survey, care was taken in regard to technique to attempt to compensate for the steep terrain on the property. All readings were taken facing approximately perpendicular to the transmitting station in Seattle.

### Compilation of Data

The readings were reduced by applying the Fraser Filter and plotted at a scale of 1:2500. Filtered data, as shown on the accompanying map, is plotted between reading stations. The positive filtered values were contoured at intervals of 10°, starting at 10°.

The Fraser Filter is essentially a 4-point difference operator which transforms zero crossing into peaks, and a low pass smoothing operator which reduces the inherent high frequency noise in the data. Therefore, the noisy, non-contourable data is transformed into less noisy, contourable data. Another advantage of this filter is that a conductor that does not show up as a cross-over on the unfiltered data will quite often show up on the filtered data.

### Instrumentation and Theory

A standard Geonics VLF EM 16 receiver was used for this survey. This instrument is designed to measure the magnetic component of a very low frequency (VLF) electromagnetic field. The U.S. Navy submarine transmitter located in Seattle and transmitting at 24.8 KHz was used.

In all electromagnetic exploration, a transmitter produces an alternating magnetic field (primary) with a strong alternating current usually through a wire coil. If a conductive mass such as a sulphide body is within this magnetic field, a secondary alternating current is induced which in turn induces a secondary magnetic field that distorts the primary magnetic field. It is this distortion that the VLF EM receiver measures. The VLF EM uses a frequency range from 16 to 24 KHz whereas most EM instruments use frequencies ranging from a few hundred to a few thousand Hz. Because of its relatively high frequency, the VLF EM can pick up bodies of low conductivity and therefore is more suscept-

ible to clay beds, electrolyte-filling fault, shear zones and porous horizons, graphite, carbonaceous sediments, lithological contacts, as well as sulphide bodies of too low a conductivity for the other EM methods to pick up. Also, since the signal derives from an infinite source, faults of great horizontal and vertical extent give particularly strong anomalous responses.

Consequently, the VLF Em has additional uses in mapping structure and in detecting sulphide bodies of too low a conductivity for conventional EM methods and too small for induced polarization. However, its susceptibility to lower conductive bodies results in a number of anomalies, many of these difficult to explain and, thus, VLF EM preferably should not be interpreted without good geological knowledge of the property and/or other geophysical and geochemical surveys.

#### Interpretation of Results

The contoured Fraser Filter data revealed numerous conductors. Two prominent trends are recognized. The dominant trend is a northeasterly oriented series of conductors passing diagonally through the centre grid area. These northeasterly oriented conductors do not correspond to the known strike of the sedimentary rocks, intrusive-sedimentary contacts or any of the known gold-silver-bearing veins. The trend of these conductors does correspond to the direction of a series of step-like bluffs noted during the survey. It is possible that the northeasterly oriented conductors are caused by a northeasterly trending fault shear zones. More detailed geological mapping is required to confirm the source of these conductors.

The second, less prominent conductor orientation is northerly. These conductors are less intense and of more limited extent than the northeasterly trending conductors. These northerly trending conductors parallel the direction of bedding in the sedimentary

rock, the intrusive-sedimentary contacts and the known orientation of the gold-silver mineralization. One of these conductors is coincident with a prominent silver-lead soil anomaly and an area of caved workings suggesting this conductor is caused by a mineralized shear zone. The cause of the remaining conductors requires further geological evaluation.

## 6.2 Magnetometer Survey

### Survey Procedure

A Scintrex MP2 proton precision magnetometer was used for the survey. Readings were taken at 25 metre intervals along the geochemical grid lines. Corrections for diurnal drift were made by looping traverses. On each loop the time and magnetic reading of the starting station and each subsequent station on the traverse was recorded. At the end of the traverse, the initial station was re-read and the diurnal variation noted. A correction for the diurnal drift was then applied to each station read during the traverse.

### Theory

A magnetometer measures the magnetic component of rock and is affected by magnetic minerals such as magnetite and pyrrhotite. Variations in the content of magnetic minerals between different rock types can be measured by magnetometer surveys. This makes magnetometer surveys helpful in mapping rock types in areas of poor rock exposures. Also, if an orebody contains a high percentage of magnetic minerals, the magnetometer survey is useful in the detection of such bodies. Interpretation of magnetic surveys requires adequate understanding of the geology.

### Results

The corrected magnetometer readings are plotted on the accompanying figure 8. Magnetic relief on the claims is in the order of



1000 gammas. Generally, the readings are elevated over the intrusive rocks and lower over the argillites; however, this is not true in all parts of the survey area. The contrast between the two rock types do not appear to be great enough to be used to map the contacts.

Magnetic lows occur over two of the known sulphide-bearing shear zones noted during mapping, but not others. The exact cause of this discrepancy requires further study. A prominent magnetic low at 72+50S and 85+00E is co-incident with a gold, silver, lead and zinc anomaly. This magnetic low may indicate a shear zone mineralized with base and precious minerals and thus warrants ongoing investigation.

A second area of magnetic lows occurs in a northeasterly trending zone centred at 73+00S and 80+50E. This series of lows is co-incident with a prominent VLF-EM conductor. The cause of these magnetic lows is unexplained.

#### 8. DISCUSSION

Exploration carried out to date has demonstrated potential for the Porcupine Claim Group to host a gold-silver deposit similar to those previously mined on the nearby Ymir and Yankee Girl properties from which over 233,400 ounces of gold and 1,200,000 ounces of silver were produced from vein-type deposits.

Several gold-silver veins and replacement zones are known to exist on the Porcupine Group Claims. The geological setting and style of mineralization present on the Porcupine Claims is very similar to that on the Ymir and Yankee Girl properties. Because of the poor documentation of previous exploration and the inaccessibility of many of the abandoned workings, little is known of

the gold and silver grades of the mineralization on the Porcupine claims. A proper evaluation of these workings will require systematic chip and channel sampling. Although many of the opencuts observed by the writer were inaccessible nearly all could be reopened in a few hours by two men with shovels.

Soil sampling has outlined several co-incident gold, silver and lead anomalies on the claim block. Several of these anomalies occur in overburden covered areas not known to be mineralized. Some of these anomalies lie on strike with the trend of mineralization exposed in old workings. These anomalies possibly indicate additional veins concealed beneath overburden or extensions to the known mineralization. Evaluation of the geochemical anomalies will require further grid soil sampling, system prospecting and rock sampling and further grid-soil sampling.

The known mineralization at one location was detected by the VLF electromagnetic survey while other zones were not. The VLF electromagnetic survey highlighted strong northeasterly oriented conductors the causes of which requires further investigation. The magnetometer survey showed one of the known vein systems to be a magnetic low while other mineralized zones were not detected. The contrasting magnetics between the granodiorite and sedimentary rocks appear to be too low to allow mapping of their contacts by a magnetometer survey.

#### 9. RECOMMENDATIONS

A two-phase exploration program is recommended for the Porcupine Claim Group. The initial phase is designed to further define the surface extent and grade of the currently known mineral occur-

rences and to locate the source of the various unexplained gold, silver and lead anomalies. Phase II, which is contingent upon favourable results of Phase I, is designed to test the subsurface extent of mineralization found by the Phase I program.

### Phase I

The Phase I work program will encompass the following:

- 1) detailed 1:1000 scale geological mapping of the entire grid area and thorough prospecting and chip or channel sampling of any mineralization found;
- 2) locate, clean-out, geologically map and sample old adits, pits and trenches;
- 3) complete fill-in soil lines within anomalous zones to establish 25 by 25 metre sampling grid;
- 4) extend soil grid to the south and east maintaining a 50 by 25 metre spacing.

### Proposed Budget

Cleanup & sampling adits, pits, trenches	\$6,000
Geochemical Sample Collection and Analysis	10,000
Travel and Accommodation	4,000
Prospecting and Geological Mapping	6,000
Rock Sample Analysis	3,000
Report Preparation and Drafting	2,500
Administration	2,500
Contingency @ 10%	3,400
	<hr/>
TOTAL PHASE I	\$37,400
	<hr/>

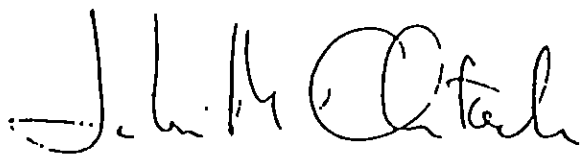
Phase II

Contingent on favourable results from the Phase I program and a clear definition of targets, further exploration on the Porcupine Group Claims by way of trenching, rehabilitation of workings and diamond drilling will be warranted.

Proposed Budget

Trenching and rehab of workings (all in)	\$20,000
NQ wireline - 600 metres @ \$100/metre (all in)	60,000
Contingencies	<u>8,000</u>
TOTAL PHASE II	<u>\$88,000</u>
TOTAL RECOMMENDED PROGRAM, PHASE I AND II	<u>\$125,400.00</u>

Respectfully submitted,



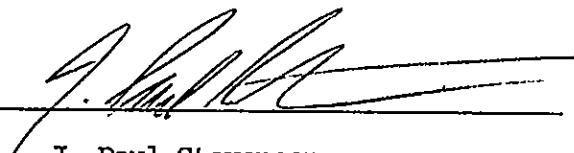
John A. McClintock, P.Eng.

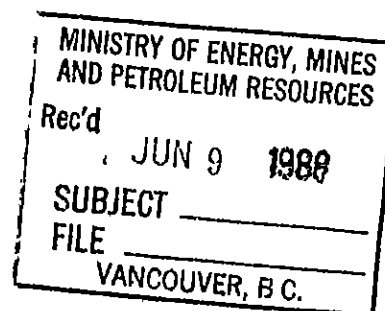
9. REFERENCES

1. Cockfield, W.E., (1936) "Lode Gold Deposits of Ymir - Nelson Area, British Columbia" Canada Department of Mines, Geological Survey Memoir 191.
2. Cochrane, D.R., 1978 Assessment Report.
3. Drysdale, C.W., (1917) "Ymir Mining Camp, British Columbia". Canada Department of Mines, Geological Survey Memoir 94.
4. Little, H.W. (1960) "Nelson Map Area, West Half, British Columbia (82FW 1/2)" G.S.C. Memoir 308.
5. Geology, Exploration, Mining, 1976, p. E36, 1978, p.E56, 1979, p.62.
6. Minister of Mines, B.C., Annual Reports: 1925, p.249; 1930, p.273; 1939, p.81; 1944, p.61; 1948, p.133.
7. Richardson, Paul, W. 1982 Assessment Report.

I, J. Paul Stevenson, with offices at 201-625 Howe Street, Vancouver, B.C. do hereby certify:

- 1) That this work program was conducted under my direct supervision
- 2) That I am a prospector and have practiced my vocation since 1965
- 3) That I have managed projects in B.C., Yukon, and the western United States.

  
J. Paul Stevenson



STATEMENT OF COSTS FOR THE PROCUPINE CLAIM GROUP

Line Cutting	
20.00 Km at \$700.00 per Km .....	\$14,000.00
Soil geochem	
530 at \$10.00 each .....	5,300.00
Mob/demob .....	5,000.00
Wages	
3 @ \$200.00/day x 20 days .....	12,000.00
2 @ \$250.00/day x 20 days .....	10,000.00
Maps and report preparation .....	3,500.00
Engineering .....	2,500.00
Food \$35.00 x 5 x 20 .....	3,500.00
Expendibles	
Flagging, fuel, sample bags, etc. ....	3,700.00
EM and Mag - 20.00Km x 2 x \$160.00 .....	6,400.00
<hr/>	
TOTAL .....	\$65,900.00







MAP NO. 827/3E

Province of British Columbia  
Ministry of Energy, Mines and Petroleum Resources  
**RECORD OF MINERAL CLAIM**  
Mineral Act  
Form A

MINING RECEIPT NO. 987516H

RECORD NO. 4628

RECORDED AT NELSON

B.C., THIS 30 DAY OF MAR, 19 87

DO NOT WRITE IN  
SHADED AREAS  
FOR OFFICE USE ONLY

GOLD COMMISSIONER

MINING DIVISION NELSON

**APPLICATION FOR REVERTED CROWN-GRANTED 2 POST CLAIM**  
(Mineral Act)

MIKE HUDOCK  
(NAME)  
923 CEDAR ST, NELSON BC V1L 2C9  
(ADDRESS)

AGENT FOR

CATHARINA HYHUIS  
(NAME)  
1120 - STANLEY ST, NELSON, B.C.  
(ADDRESS) V1L 1P5

VALID SUBSISTING F.M.C. No. 273198

VALID SUBSISTING F.M.C. No. 273182

make application for a record of mineral claim of the following reverted Crown-granted 2 Post claim (s).

If more than one claim appears in this application, the applicant(s) hereby certifies (certify) that the claims all adjoin and do not collectively exceed 25 hectares.

Name of Claim	Lot No.	Mining Division	Land District	Area in hectares
<u>PORCUPINE</u>	<u>2908</u>	<u>NELSON</u>	<u>KOOTENAY</u>	<u>42.24</u>

O.P. 314181

The prescribed fee, in the amount of \$ 50.00 is submitted herewith. Total

Mike Hudock  
Signature

OFFICE USE ONLY

Time A.M. 8:30 P.M. \_\_\_\_\_

Mining Recorder's Office  
NELSON, B.C.  
RECEIVED FOR RECORD  
MAR 30 1987

Mining Receipt No. 987516H  
G.C. STAMP  
FEE \$ 50.00

Work No.'s	Recorded	M.R.	Date of Expiry

Transfers  
(Bills of Sale, Assignments, Conveyances)



APPENDIX I

RECORD OF MINERAL CLAIMS











RECORD OF MINERAL CLAIM - MINERAL ACT

MAP NO. 82F/3E & 6E

RECORD NO. 4850

MINING RECEIPT NO. 987745H

RECORDED AT

NELSON

B.C. THE 24

DAY OF

AUG.

1987

DO NOT WRITE IN THIS SHADED AREA

GOLD COMMISSIONER

NELSON

MINING DIVISION

APPLICATION TO RECORD A MINERAL CLAIM

BEN NYHUIS NAME

AGENT FOR

1124 STANLY ST ADDRESS

TALE

NELSON B.C. CITY

V1L1P5 POSTAL CODE

ADDRESS

CITY

POSTAL CODE

VALID SUSISTING F.M.C. NO. 273211

VALID SUSISTING F.M.C. NO.

MINING DIVISION NELSON

MAP NO. 82/6 E + 3E

STATE THAT: I COMMENCED LOCATING THE PORKY

MINERAL CLAIM

ON THE 15 DAY OF AUG 1987 AT 10:00 AM AND COMPLETED THE LOCATION

ON THE 21 DAY OF AUG 1987 AT 12:01 AM CONSISTING OF

5 UNIT LENGTHS N AND 4 UNIT LENGTHS W AND I HAVE IMPRESSED ALL THE REQUIRED INFORMATION

ON METAL TAGS NO. 100156 WHICH HAS BEEN SECURELY FASTENED TO THE POSTS AS REQUIRED UNDER THE REGULATIONS

IDENTIFICATION POST(S) NOT PLACED WERE \_\_\_\_\_

CHECK  APPLICABLE SQUARE  THE LEGAL CORNER POST,  THE WITNESS POST FOR THE LEGAL CORNER POST IS SITUATED

EAST ALONG THE PORCUPINE CREEK ROAD FROM THE SALMO-NELSON HIGHWAY, THE POST IS LOCATED 4M NORTH OF THE ROAD 2000 M AT 102° S.E. OF THE MOUTH OF PORCUPINE GREEN ON LOT # 5380

BEARING AND DISTANCE TO TRUE POSITION OF LEGAL CORNER POST FROM THE WITNESS POST 1

BEARING AND DISTANCE FROM IDENTIFICATION POST TO WITNESS POST 1

I HAVE COMPLIED WITH ALL THE TERMS OF THE MINERAL ACT AND REGULATIONS PERTAINING TO THE STAKING OF MINERAL CLAIMS AND HAVE ATTACHED A PLAN, ACCEPTABLE TO THE GOLD COMMISSIONER OF THE LOCATION

Ben Nyhuis  
SIGNATURE

GOLD COMMISSIONER  
RECEIVED and RECORDED  
AUG 24 1987  
M.R. 987745H \$100.00  
NELSON B.C.

NO. OF UNITS 20

WORK NUMBERS	CL IN	MINING RECEIPT AND DATE RECORDED	TYPE OF WORK	DATE OF STAKING	CREDIT		TRANSFERS (M/S, ASSIGNMENTS, CONVEYANCES)
					WORK	UNITS	

APPENDIX II.

GEOCHEMICAL ANALYSIS CERTIFICATES

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE (604) 253-3158

FAX (604) 253-1716

DATE RECEIVED: FEB 22 1988

V6A 1R6

DATE REPORT MAILED:

Feb. 26/88

### ASSAY CERTIFICATE

- SAMPLE TYPE: ROCK

ASSAYER:

*C. Leong*

D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

J. PAUL STEVENSON File # 88-0494

SAMPLE#	AG OZ/T	AU OZ/T
FORC #2	.03	.002
FORC #3	.88	.026
FORC #4	7.90	.011

PHONE: (604)980-5814 OR (604)988-4524

TELEX: VIA USA 7601067 UC

Certificate of ASSAY

Company: J. FAUL STEVENSON :  
Project: P.C.  
Attention: J.P. STEVENSON

File: 7-1058/P1  
Date: AUGUST 20/87  
Type: ROCK ASSAY

I hereby certify the following results for samples submitted.

Sample Number	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON	PB %	ZN %
H.G. 2	14.3	0.42	0.22	0.006	.19	.49
V 1			2.17	0.063		
V 2			0.89	0.026		

Certified by



Specialists in Mineral Environments  
705 West 15th Street North Vancouver, B.C. Canada V7K 1T2

PHONE: (604) 980-5814 OR (604) 998-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: J.P. STEVENSON  
Project: P.C.  
Attention: PAUL STEVENSON

File: 7-1147/P1  
Date: SEPT 3/87  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PK PPM	ZN PPM	AG PPM	AU-WET PPM
650008-8100E	52	340	1.0	5
650008-81+25E	50	440	1.0	10
650008-81+50E	52	630	2.4	10
650008-81+75E	48	640	1.0	5
650008-82+00E	178	510	2.3	5
650008-82+25E	68	360	1.1	10
650008-82+50E	64	370	1.2	5
650008-82+75E	65	310	1.9	5
650008-83+00E	63	410	0.9	5
650008-83+25E	81	1640	1.3	10
650008-83+50E	82	540	1.1	5
650008-83+75E	78	360	1.3	5
650008-84+00E	77	340	1.2	50
650008-84+25E	30	290	1.5	5
650008-84+50E	51	240	1.0	5
650008-84+75E	34	200	1.1	10
650008-85+00E	67	170	0.8	5
650008-85+25E	39	170	1.9	5
650008-85+50E	76	310	1.9	5
650008-86+25E	72	590	3.0	5
650008-86+50E	58	390	1.5	10
650008-86+75E	160	730	2.9	5
650008-87+00E	152	1480	2.0	5
700508-80+25E	26	440	0.6	5
700508-80+50E	52	610	1.4	10
700508-80+75E	24	380	0.9	5
700508-81+00E	35	220	0.8	5
700508-81+25E	36	220	1.0	5
700508-81+50E	58	390	1.7	5
700508-81+75E	51	720	1.7	10

Certified by



# MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7H 1T2

PHONE: (604) 980-5814 OR (604) 968-4524

TELEX: VIA USA 7601067 UC

## Certificate of GEOCHEM

Company: J.P. STEVENSON  
 Project: P.C.  
 Attention: PAUL STEVENSON

File: 7-1147/P2  
 Date: SEPT 3/87  
 Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM	ALU-MET PPD
PC 70+50S-82+00E	63	1020	2.3	5
PC 70+50S-82+25E	95	580	1.2	5
PC 70+50S-82+50E	310	1030	1.5	10
PC 70+50S-82+75E	17500	4900	22.0	490
PC 70+50S-83+00E	121	330	1.0	5
PC 70+50S-83+25E	120	290	2.7	5
PC 70+50S-83+50E	50	390	1.8	10
PC 70+50S-83+75E	290	570	1.7	10
PC 70+50S-84+00E	174	620	2.0	5
PC 70+50S-84+25E	57	240	1.5	5
PC 70+50S-84+50E	55	180	1.3	5
PC 70+50S-84+75E	61	170	0.5	10
PC 70+50S-85+00E	66	130	1.1	5
PC 70+50S-85+25E	136	120	1.2	5
PC 70+50S-85+50E	66	190	1.0	5
PC 70+50S-86+00E	64	180	1.4	10
PC 70+50S-86+25E	90	250	1.8	5
PC 70+50S-86+50E	47	160	0.6	5
PC 70+50S-86+75E	48	240	1.0	5
PC 70+50S-87+00E	124	330	0.8	5
PC 70+50S-87+25E	78	390	0.6	5
PC 70+50S-87+50E	94	370	1.1	10
PC 70+50S-87+75E	240	1000	0.4	5
PC 70+50S-88+00E	67	1390	2.7	5
PC 70+50S-88+25E	59	360	1.1	5
PC 70+50S-88+50E	53	250	1.4	15
PC 70+50S-88+75E	53	290	0.7	5
PC 70+50S-89+00E	51	270	0.4	10
PC 71+00S-80+25E	32	260	1.6	5
PC 71+00S-80+50E	41	320	0.5	5

Certified by



MIN-EN LABORATORIES LTD.

MILN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1J2

PHONE: (604) 980-5814 OR (604) 989-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: J.P. STEVENSON  
 Project: F.C.  
 Attention: PAUL STEVENSON

File: 7-1147/PS  
 Date: SEPT 2/87  
 Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample number	PH PPM	ZN PPM	AS PPM	AU-WET PPM
PC 71+00S-80+7SE	42	330	1.2	5
71+00S-81+00E	32	240	1.1	5
71+00S-81+2SE	45	640	1.8	5
PC 71+00S-81+50E	65	950	1.5	5
71+00S-81+7SE	70	590	0.7	5
PC 71+00S-82+00E	96	200	1.3	5
PC 71+00S-82+2SE	165	440	1.4	5
71+00S-82+50E	100	480	1.2	10
PC 71+00S-82+7SE	134	560	3.8	5
PC 71+00S-83+00E	500	390	5.5	5
71+00S-83+2SE	120	300	2.6	5
71+00S-83+50E	85	530	2.1	5
71+00S-83+7SE	240	560	1.4	15
71+00S-84+00E	8000	1680	23.0	10
PC 71+00S-84+2SE	90	250	1.3	5
71+00S-84+50E	70	190	1.2	10
PC 71+00S-84+7SE	52	160	1.2	5
PC 71+00S-85+00E	84	200	1.1	5
71+00S-85+2SE	75	190	1.3	5
71+00S-85+50E	72	170	1.4	5
71+00S-85+7SE	73	190	2.1	5
71+00S-86+00E	81	370	1.6	15
PC 71+00S-86+2SE	70	220	1.0	15
71+00S-86+50E	61	230	1.9	10
71+00S-86+7SE	91	280	1.7	5
71+00S-87+00E	62	220	1.4	5
71+00S-87+2SE	104	300	2.5	10
71+00S-87+50E	115	350	1.7	5
71+00S-87+7SE	51	330	1.7	5
71+00S-88+00E	66	430	1.2	5

Certified by



MILN-EN LABORATORIES LTD.

MINTECH LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 LC

Certificate of GEOCHEM

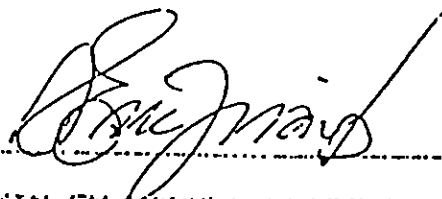
Company: J.P. STEVENSON  
 Project: P.C.  
 Attention: PAUL STEVENSON

File: 7-1147/P4  
 Date: SEPT 3/87  
 Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM	AU-WET PPM
PC 71+00S-88+25E	51	270	1.2	5
PC 71+00S-88+50E	105	220	0.9	20
PC 71+00S-88+75E	43	230	2.0	5
PC 71+00S-89+00E	45	210	2.2	5
PC 71+50S-78+00E	64	360	2.9	5
PC 71+50S-78+25E	30	560	1.4	5
PC 71+50S-78+50E	40	1460	1.0	5
PC 71+50S-78+75E	42	1980	1.8	5
PC 71+50S-79+00E	36	700	1.3	5
PC 71+50S-79+25E	64	1100	1.8	10
PC 71+50S-79+50E	34	780	2.1	5
PC 71+50S-79+75E	42	480	1.7	5
PC 71+50S-80+00E	46	500	2.4	5
PC 71+50S-80+25E	30	830	1.7	10
PC 71+50S-80+50E	50	460	1.9	5
PC 71+50S-80+75E	18	290	1.4	5
PC 71+50S-81+00E	53	340	0.7	5
PC 71+50S-81+25E	24	190	1.1	10
PC 71+50S-81+50E	36	420	1.1	5
PC 71+50S-81+75E	81	430	1.9	10
PC 71+50S-82+00E	46	470	1.7	5
PC 71+50S-82+25E	108	270	1.6	5
PC 71+50S-82+50E	58	240	2.7	5
PC 71+50S-82+75E	78	130	1.4	5
PC 71+50S-83+00E	152	350	7.8	10
PC 71+50S-83+25E	102	360	1.8	5
PC 71+50S-83+50E	72	270	1.2	10
PC 71+50S-83+75E	124	360	1.0	10
PC 71+50S-84+00E	118	560	1.1	5
PC 71+50S-84+25E	800	590	4.6	40

Certified by



MINTECH LABORATORIES LTD.



MIN-EN LABORATORIES LTD.  
Specialists in Mineral Environments  
705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: J.F. STEVENSON  
Project: F.C.  
Attention: PAUL STEVENSON

File: 7-1147/P5  
Date: SEPT 1/87  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM	AU-WET PPM
PC 71+50S-84+50E	85	220	1.4	5
PC 71+50S-84+75E	57	180	2.5	130
PC 71+50S-85+00E	66	180	1.2	10
PC 71+50S-85+25E	63	240	1.8	5
PC 71+50S-85+50E	83	240	0.9	45
PC 71+50S-85+75E	51	160	1.0	5
PC 71+50S-86+00E	88	460	1.1	5
PC 71+50S-86+25E	48	390	3.6	5
PC 71+50S-86+50E	46	310	1.0	5
PC 71+50S-86+75E	61	190	1.1	10
PC 71+50S-87+00E	68	220	1.7	10
PC 71+50S-87+25E	81	310	1.6	15
PC 71+50S-87+50E	128	380	1.8	5
PC 71+50S-87+75E	67	600	1.6	5
PC 71+50S-88+00E	68	410	1.5	5
PC 71+50S-88+25E	41	180	1.6	5
PC 71+50S-88+50E	40	220	1.2	5
PC 71+50S-88+75E	41	290	1.6	10
PC 71+50S-89+00E	67	370	1.0	5
PC 72+00S-78+00E	33	570	2.6	5
PC 72+00S-78+25E	52	1200	1.7	10
PC 72+00S-78+50E	41	1080	1.8	5
PC 72+00S-78+75E	40	1100	2.1	5
PC 72+00S-79+00E	95	2650	1.9	5
PC 72+00S-79+25E	88	1080	2.3	5
PC 72+00S-79+50E	50	3750	6.1	10
PC 72+00S-79+75E	38	1280	1.6	5
PC 72+00S-80+00E	83	680	1.0	5
PC 72+00S-87+25E	47	330	1.4	5
PC 72+00S-87+50E	60	340	1.5	25

Certified by \_\_\_\_\_

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments  
705 West 15th Street North Vancouver, B.C. Canada V7K 1T2

PHONE: (604) 920-5814 OR (604) 920-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: J.P. STEVENSON  
Project: P.C.  
Attention: PAUL STEVENSON

File: 7-1147/P6  
Date: SEPT 4/87  
Type: SOIL GEOCHEM

I hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM	AU-WET PPB
PC 72+00S-87+75E	45	250	1.2	5
PC 72+00S-88+00E	28	260	1.4	5
PC 72+00S-88+25E	43	720	1.0	10
PC 72+00S-88+50E	37	380	0.9	5
PC 72+00S-88+75E	54	490	0.9	5
PC 72+00S-89+00E	62	460	1.4	5

Certified by 

**MINTEN LABORATORIES LTD.**

*Specialists in Mineral Environments*

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

**Certificate of GEOCHEM**

Company: J PAUL STEVENSON

Project: F.C.

Attention: PAUL STEVENSON

File: 7-1058/P6

Date: AUGUST 24/87

Type: SOIL GEOCHEM

I hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM	AU-WET PPB
PC 73+00S-86+25E	30	90	1.5	5
PC 73+00S-88+50E	194	330	2.0	5
PC 73+00S-88+75E	115	340	1.5	10
PC 73+00S-89+00E	108	330	2.2	5
PC 73+50S-78+00E	35	1360	1.9	5
PC 73+50S-78+25E	63	990	2.2	10
PC 73+50S-78+50E	66	670	3.0	5
PC 73+50S-78+75E	NO SAMPLE			
PC 73+50S-79+00E	NO SAMPLE			
PC 73+50S-79+25E	NO SAMPLE			
PC 73+50S-79+50E	17	780	2.8	5
PC 73+50S-79+75E	37	340	1.7	15
PC 73+50S-80+00E	24	475	1.5	5
PC 73+50S-80+25E	23	410	1.6	5
PC 73+50S-80+50E	32	490	2.1	5
PC 73+50S-80+75E	51	410	1.0	5
PC 73+50S-81+00E	51	320	1.4	10
PC 73+50S-81+25E	50	280	1.9	5
PC 73+50S-81+50E	182	430	1.8	5
PC 73+50S-81+75E	NO SAMPLE			
PC 73+50S-82+00E	43	290	0.8	5
PC 73+50S-82+25E	49	270	1.4	10
PC 73+50S-82+50E	60	360	1.2	5
PC 73+50S-82+75E	33	160	1.0	5
PC 73+50S-83+00E	43	170	0.6	10
PC 73+50S-83+25E	57	270	0.8	5
PC 73+50S-83+50E	46	350	1.1	15
PC 73+50S-83+75E	220	760	2.5	5
PC 73+50S-84+00E	83	480	4.4	5
PC 73+50S-84+25E	68	270	2.0	10

Certified by



MINTEN LABORATORIES LTD.

MIN-EM LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7H 1T2

PHONE: (604)980-5814 OR (604)988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: J FAUL STEVENSON

Project: P.C.

Attention: PAUL STEVENSON

File: 7-1058/P7

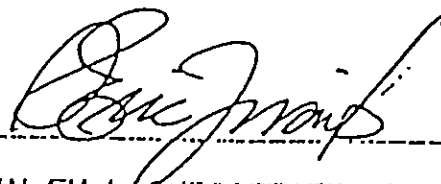
Date: AUGUST 24/87

Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM	AU-WET PPB
PC 73+50S-84+50E	62	130	2.0	5
PC 73+50S-84+75E	43	410	0.6	5
PC 73+50S-85+00E	87	370	2.4	5
PC 73+50S-85+25E	440	2700	2.2	50
PC 73+50S-85+50E	81	250	1.4	45
PC 74+00S-78+75E	37	470	1.8	5
PC 74+00S-79+00E	28	300	3.7	10
PC 74+00S-79+25E	45	390	1.5	5
PC 74+00S-79+50E	34	1680	1.4	30
PC 74+00S-79+75E	30	360	1.0	10
PC 74+00S-80+00E	35	230	1.0	5
PC 74+00S-80+25E	46	260	0.9	70
PC 74+00S-80+50E	26	200	0.5	10
PC 74+00S-80+75E	28	120	0.7	5
PC 74+00S-81+00E	200	110	0.9	65
PC 74+00S-81+25E	60	725	0.8	10
PC 74+00S-81+50E	186	620	0.9	5
PC 74+00S-81+75E	112	410	1.0	15
PC 74+00S-82+00E	91	260	0.6	5
PC 74+00S-82+25E	129	265	1.5	5
PC 74+00S-82+50E	57	220	0.6	5
PC 74+00S-82+75E	180	770	0.9	5
PC 74+00S-83+00E	102	160	1.0	5
PC 74+00S-83+25E	78	370	0.9	10
PC 74+00S-83+50E	1880	660	2.1	5
PC 74+00S-83+75E	59	220	0.7	30
PC 74+00S-84+00E	61	165	1.4	5
PC 74+00S-84+25E	47	120	0.9	10
PC 74+00S-84+50E	54	230	1.0	5
PC 74+00S-84+75E	55	150	1.4	5

Certified by



MIN-EM LABORATORIES LTD.

# MIN-EM LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 980-4524.

TELEX: VIA USA 7601067 UC

## Certificate of GEOCHEM

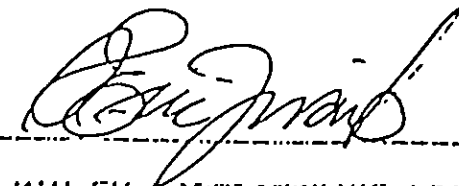
Company: J PAUL STEVENSON  
 Project: P.C.  
 Attention: PAUL STEVENSON

File: 7-1058/PB  
 Date: AUGUST 24/87  
 Type: SOIL GEOCHEM

I hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM	AU-WET PFB
PC 74+00S-85+00E	78	510	1.1	5
PC 74+00S-85+25E	103	1800	1.9	5
PC 74+00S-85+50E	96	360	1.2	10
PC 74+50S-78+00E	99	570	1.9	5
PC 74+50S-78+25E	48	525	1.8	5
PC 74+50S-78+50E	47	620	1.5	10
PC 74+50S-78+75E	51	800	1.2	5
PC 74+50S-79+00E	50	1450	1.2	5
PC 74+50S-79+25E	73	575	1.6	5
PC 74+50S-79+50E	91	830	3.9	10
PC 74+50S-79+75E	43	470	0.8	5
PC 74+50S-80+75E	44	305	0.8	10
PC 74+50S-81+00E	68	585	1.0	15
PC 74+50S-81+25E	57	400	0.6	5
PC 74+50S-81+50E	47	275	0.5	5
PC 74+50S-81+75E	54	760	0.4	10
PC 74+50S-82+00E	63	730	1.3	5
PC 74+50S-82+25E	90	500	0.5	5
PC 74+50S-82+50E	122	570	1.0	10
PC 74+50S-82+75E	97	250	0.3	5
PC 74+50S-83+00E	71	335	1.0	15
PC 74+50S-83+25E	110	780	0.8	10
PC 74+50S-83+50E	NO SAMPLE			
PC 74+50S-83+75E	67	255	1.1	10
PC 74+50S-84+00E	64	190	0.4	5
PC 74+50S-84+25E	NO SAMPLE			
PC 74+50S-84+50E	32	143	0.6	5
PC 74+50S-84+75E	51	96	1.3	5
PC 74+50S-85+00E	53	215	0.5	5
PC 74+50S-85+25E	40	600	0.8	5

Certified by \_\_\_\_\_



MIN-EM LABORATORIES LTD.

MINTEK LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: J PAUL STEVENSON

Project: P.C.

Attention: PAUL STEVENSON

File: 7-1058/P9

Date: AUGUST 24/87

Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM	AU-WET PPM
PC 74+00S-85+50E	132	2050	10.1	5
75+00S-79+00E	36	525	2.0	5
75+00S-79+25E	31	590	2.2	5
PC 75+00S-79+50E	40	760	1.2	5
75+00S-79+75E	34	395	1.5	5
PC 75+00S-80+00E	38	405	0.4	5
75+00S-80+25E	39	250	1.0	5
75+00S-80+50E	46	400	1.2	10
75+00S-80+75E	41	680	3.0	5
PC 75+00S-81+00E	156	690	1.9	5
75+00S-81+25E	50	315	1.4	5
75+00S-81+50E	62	335	1.5	10
75+00S-81+75E	88	390	1.6	5
75+00S-82+00E	109	520	1.8	5
65+00S-80+25E	47	360	1.2	5
65+00S-80+75E	78	265	1.4	5

Certified by



MINTEK LABORATORIES LTD.

# MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

## Certificate of GEOCHEM

Company: J PAUL STEVENSON

Project: P.C.

Attention: PAUL STEVENSON

File: 7-1058/P2

Date: AUGUST 22/87

Type: SOIL GEOCHEM

I hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM	AU-WET PPK
PC 70+00S-87+7SE	76	340	0.7	10
PC 70+00S-88+00E	60	390	0.7	10
PC 70+00S-88+2SE	64	162	0.5	15
PC 70+00S-88+50E	66	360	0.9	15
PC 70+00S-88+7SE	104	510	1.3	5
PC 70+00S-89+00E	300	590	39.0	5
PC 70+50S-87+00E	64	190	1.8	5
PC 70+50S-87+2SE	54	175	1.1	5
PC 70+50S-87+50E	59	178	1.0	5
PC 70+50S-87+7SE	118	520	1.2	15
PC 70+50S-88+00E	79	480	1.2	5
PC 70+50S-88+2SE	63	430	0.8	5
PC 70+50S-88+50E	36	98	0.7	5
PC 70+50S-88+7SE	71	320	1.2	5
PC 70+50S-89+00E	290	410	1.5	10
PC 72+00S-80+2SE	37	750	1.4	5
PC 72+00S-80+50E	52	260	1.6	5
PC 72+00S-80+7SE	NO SAMPLE			
PC 72+00S-81+00E	46	690	2.2	15
PC 72+00S-81+2SE	45	750	1.0	10
PC 72+00S-81+50E	51	570	1.1	5
PC 72+00S-81+7SE	42	460	1.3	15
PC 72+00S-82+00E	55	310	2.7	5
PC 72+00S-82+2SE	137	400	14.5	5
PC 72+00S-82+50E	186	320	14.0	160
PC 72+00S-82+7SE	126	109	2.3	25
PC 72+00S-83+00E	143	380	4.5	10
PC 72+00S-83+2SE	147	250	2.1	5
PC 72+00S-83+50E	125	370	2.6	5
PC 72+00S-83+7SE	107	260	2.5	15

Certified by



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MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7K 1T2

PHONE: (604) 980-5814 OR (604) 980-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: J PAUL STEVENSON  
 Project: P.C.  
 Attention: PAUL STEVENSON

File: 7-1058/P3  
 Date: AUGUST 22/87  
 Type: SOIL GEOCHEM

I hereby certify the following results for samples submitted.

Sample Number	PR PPM	ZN PPM	AG PPM	AU-WET PPB
72+00S-84+00E	98	220	2.7	10
72+00S-84+25E	136	220	2.8	5
72+00S-84+50E	107	200	1.3	5
72+00S-84+75E	81	230	1.9	5
72+00S-85+00E	67	280	1.4	10
72+00S-85+25E	77	340	1.2	5
72+00S-85+50E	52	110	0.8	5
72+00S-85+75E	72	400	1.0	10
72+00S-86+00E	53	240	0.7	5
72+00S-86+25E	69	240	1.1	5
72+00S-86+50E	53	220	1.1	5
72+00S-86+75E	54	240	0.9	5
72+00S-87+00E	66	310	1.0	10
72+50S-79+25E	30	930	2.1	15
72+50S-79+50E	83	320	1.3	10
72+50S-79+75E	21	690	1.4	20
72+50S-80+00E	118	1000	2.3	5
72+50S-80+25E	43	460	1.2	5
72+50S-80+50E	31	1140	1.3	5
72+50S-80+75E	53	1210	1.2	10
72+50S-81+00E	111	1220	1.6	5
72+50S-81+25E	63	650	0.9	5
72+50S-81+50E	38	440	1.0	10
72+50S-81+75E	74	520	1.4	5
72+50S-82+00E	73	480	0.9	5
72+50S-82+25E	162	340	2.6	10
72+50S-82+50E	153	370	0.9	5
72+50S-82+75E	75	320	0.6	5
72+50S-83+00E	56	420	1.0	5
72+50S-83+25E	69	370	1.4	10

Certified by



MIN-EN LABORATORIES LTD.



Specialists in Mineral Environments  
705 West 15th Street North Vancouver, B.C. Canada V7K 1T2

HQNE: (604) 980-5814 OR (604) 980-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: J PAUL STEVENSON  
Project: P.C.  
Attention: PAUL STEVENSON

File: 7-1058/P4  
Date: AUGUST 22/1987  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM	AU-WET PPM
PC 72+50S-83+50E	230	570	2.3	10
PC 72+50S-83+75E	79	95	0.9	5
PC 72+50S-84+00E	55	185	1.9	5
PC 72+50S-84+25E	73	192	6.4	115
PC 72+50S-84+50E	68	210	1.5	15
PC 72+50S-84+75E	80	380	1.3	15
PC 72+50S-85+00E	67	500	0.4	10
PC 72+50S-85+25E	108	770	1.7	265
PC 72+50S-85+50E	148	1100	1.4	40
PC 72+50S-85+75E	49	140	0.8	5
PC 72+50S-86+00E	60	310	1.5	5
PC 72+50S-86+25E	59	280	1.1	5
PC 72+50S-86+50E	64	176	0.7	15
PC 72+50S-86+75E	52	131	0.6	10
PC 72+50S-87+00E	38	143	0.9	15
PC 72+50S-87+25E	42	230	2.2	10
PC 72+50S-87+50E	59	250	1.7	15
PC 72+50S-87+75E	55	220	1.0	25
PC 72+50S-88+00E	54	230	0.6	15
PC 72+50S-88+25E	66	200	0.9	10
PC 72+50S-88+50E		NO SAMPLE		
PC 72+50S-88+75E	54	186	0.5	5
PC 72+50S-89+00E	50	310	1.0	20
PC 73+00S-79+00E	61	1020	1.3	10
PC 73+00S-79+25E	34	870	1.2	10
PC 73+00S-79+50E	22	300	1.9	10
PC 73+00S-79+75E	20	380	2.2	5
PC 73+00S-80+00E	45	1180	5.6	15
PC 73+00S-80+25E	43	600	1.3	10
PC 73+00S-80+50E	49	720	1.4	10

Certified by



MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments  
705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 980-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: J PAUL STEVENSON  
Project: P.C.  
Attention: PAUL STEVENSON

File: 7-1058/PS  
Date: AUGUST 24/87  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM	AU-WET PPB
PC 73+00S-80+75E	74	890	4.2	5
PC 73+00S-81+00E	38	295	1.2	5
73+00S-81+25E	39	345	0.8	10
73+00S-81+50E	75	510	1.0	5
PC 73+00S-81+75E	50	350	0.9	5
73+00S-82+00E	69	160	0.9	10
PC 73+00S-82+25E	49	235	0.3	5
PC 73+00S-82+50E	91	470	0.7	5
73+00S-82+75E	63	140	0.4	10
PC 73+00S-83+00E	67	330	1.0	5
73+00S-83+25E	71	220	1.1	5
73+00S-83+50E	49	240	0.8	5
73+00S-83+75E	180	500	1.6	25
73+00S-84+00E	72	190	1.7	30
73+00S-84+25E	54	235	0.5	15
73+00S-84+50E	91	170	0.8	5
73+00S-84+75E	114	260	1.0	10
PC 73+00S-85+00E	460	190	2.2	30
PC 73+00S-85+25E	470	3500	3.1	10
73+00S-85+50E	139	510	2.3	10
PC 73+00S-85+75E	120	345	1.4	5
73+00S-86+00E	78	230	1.2	5
73+00S-86+25E	70	495	2.5	5
PC 73+00S-86+50E	64	260	3.4	10
73+00S-86+75E	57	130	2.4	5
PC 73+00S-87+00E	90	160	1.7	5
73+00S-87+25E	38	180	1.6	5
73+00S-87+50E	47	210	1.4	10
PC 73+00S-87+75E	106	190	1.1	5
PC 73+00S-88+00E	37	140	1.0	5

Certified by



MIN-FIN LABORATORIES LTD.

PHONE: (604) 960-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: J PAUL STEVENSON  
 Project: P.C.  
 Attention: PAUL STEVENSON

File: 7-1058/P1  
 Date: AUGUST 22/1983  
 Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM	AU-WET PFB
PC 70+00S-80+2SE	30	290	0.7	5
PC 70+00S-80+50E	42	320	0.5	5
PC 70+00S-80+75E	26	210	1.2	10
PC 70+00S-81+00E	64	1660	2.5	5
PC 70+00S-81+25E	45	430	0.6	5
PC 70+00S-81+50E	30	740	1.0	5
PC 70+00S-81+75E	96	440	2.1	5
PC 70+00S-82+00E	63	500	1.4	5
PC 70+00S-82+25E	220	4500	0.9	10
PC 70+00S-82+50E	134	2600	0.8	5
PC 70+00S-82+75E	66	360	1.0	10
PC 70+00S-83+00E	46	400	1.5	5
PC 70+00S-83+25E	128	670	3.2	5
PC 70+00S-83+50E	300	1180	1.7	10
PC 70+00S-83+75E	220	410	1.3	20
PC 70+00S-84+00E	200	320	1.8	10
PC 70+00S-84+25E	43	184	1.4	10
PC 70+00S-84+50E	30	174	0.9	35
PC 70+00S-84+75E	16	110	1.0	25
PC 70+00S-85+00E	35	146	0.7	10
PC 70+00S-85+25E	25	114	0.8	30
PC 70+00S-85+50E	87	110	0.7	15
PC 70+00S-85+75E	24	139	1.2	10
PC 70+00S-86+00E	31	300	1.1	15
PC 70+00S-86+25E	34	183	1.4	10
PC 70+00S-86+50E	42	185	1.3	5
PC 70+00S-86+75E	51	400	1.4	10
PC 70+00S-87+00E	66	540	1.0	325
PC 70+00S-87+25E	64	480	1.1	15
PC 70+00S-87+50E	82	440	0.7	10

Certified by



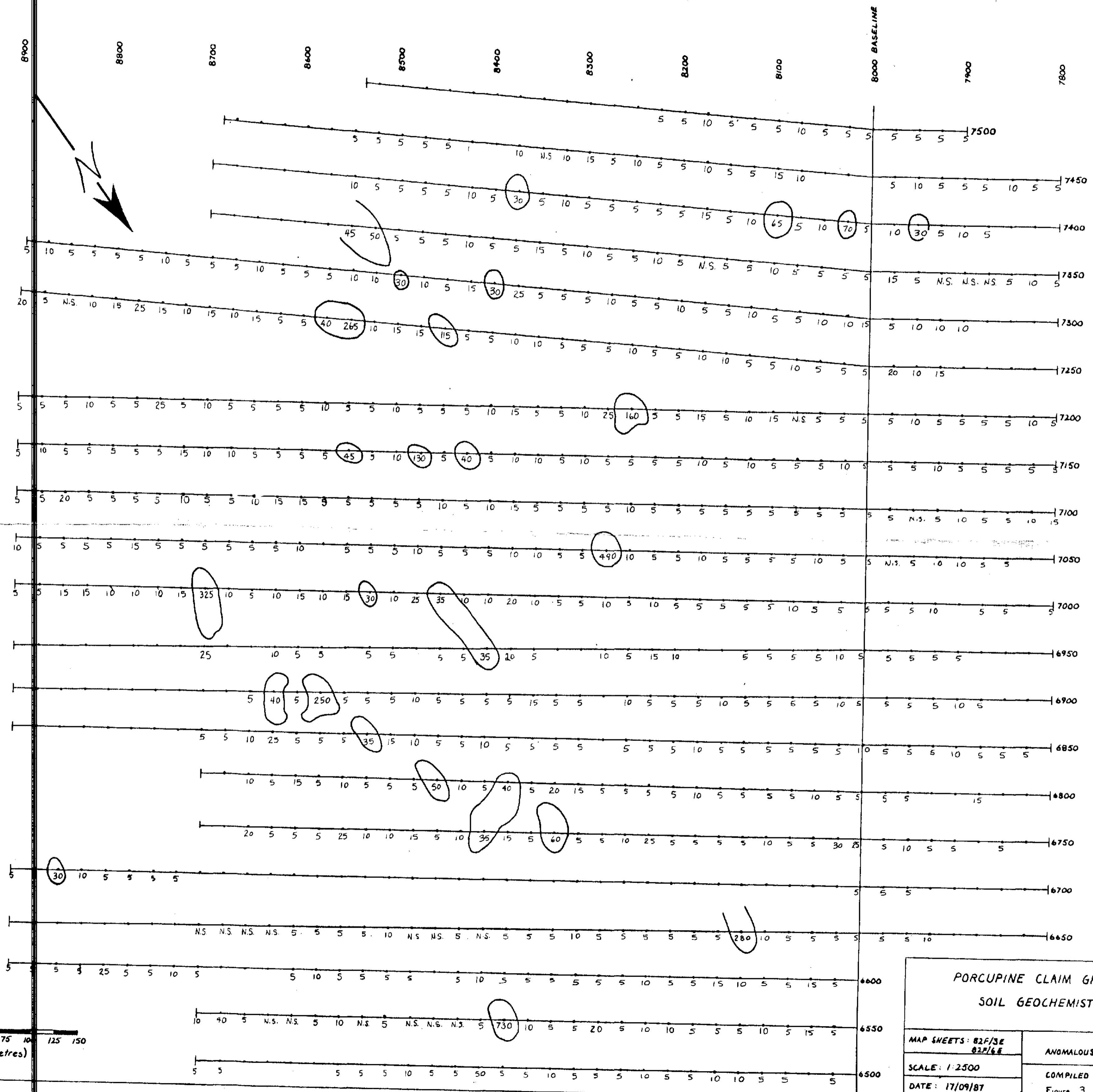
MIN-EN LABORATORIES LTD.

		LINE 6600S		8000E - 8750E	
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6600S	8000E	85	+18		+26
	8000E	93	+ 8		+16 + 9
	8000E	83	+ 8	12	+17 + 2
	8000E	83	+ 9	13	14 + 4
	8100E	80	+ 5		+13 - 4
	8100E	70	+ 8		+18 -13
	8100E	65	+10		+26 -12
	8100E	60	+16		+30 - 8
	8200E	55	+14		+34 -13
	8200E	54	+20		+43 -15
	8200E	55	+23	12	+49 - 3
	8200E	64	+26	12	+46 + 3
	8300E	70	+20		+46 + 6
	8300E	70	+26	18	+40 +24
	8300E	92	+14		+22 +24
	8300E	76	+ 8		+16 -10
	8400E	78	+ 8		+32 -25
	8400E	64	+24		+41 - 1
	8400E	62	+17		+33 + 2
	8400E	55	+16		+39 -15
	8500E	61	+23		+48 -13
	8500E	58	+25		52 - 9
	8500E	58	+27		+57 - 6
	8500E	68	+30		+58 - 6
	8600E	57	+28		+63 + 6
	8600E	61	+35	18	+52 +38
	8600E	90	+17		+25 +33
	8600E	87	+ 8	12	+19 + 6
	8700E	77	+11	17	+19 + 1
	8700E	77	+ 8	12	+18
	8700E	73	+10	11	

<u>STATION</u>	<u>FIELD</u>	<u>LINE 6700S</u>		<u>8600E - 7950E</u>		
		<u>STRENGTH</u>	<u>DIP</u>	<u>QUADERATURE</u>	<u>FRASER FILTER</u>	
6700S	8600E	58	32		65	
	8600E	57	+33		63	- 9
	8600E	58	+30		56	-12
	8600E	62	26		51	- 7
	8500E	60	25		49	- 3
	8500E	65	24		48	- 5
	8500E	62	24		44	-10
	8425E	60	20		38	- 8
	8425E	66	18		36	- 2
	8425E	66	18		36	- 0
	8425E	68	18		36	-10
	8325E	61	18		26	- 5
	8300E	77	+ 8		31	+15
	8300E	78	23		41	+23
	8300E	63	28		54	+ 8
	8300E	58	26		49	-11
	8200E	55	23		43	-12
	8200E	58	20		37	-10
	8200E	64	17		33	-10
	8200E	70	16		27	-11
	8100E	64	11		22	- 2
	8100E	72	11		25	+ 5
	8100E	84	14	16	27	+ 6
	8100E	76	13	17	31	+11
	8000E	86	18	17	38	+ 8
	8000E	82	20		39	
	7950E	72	19			

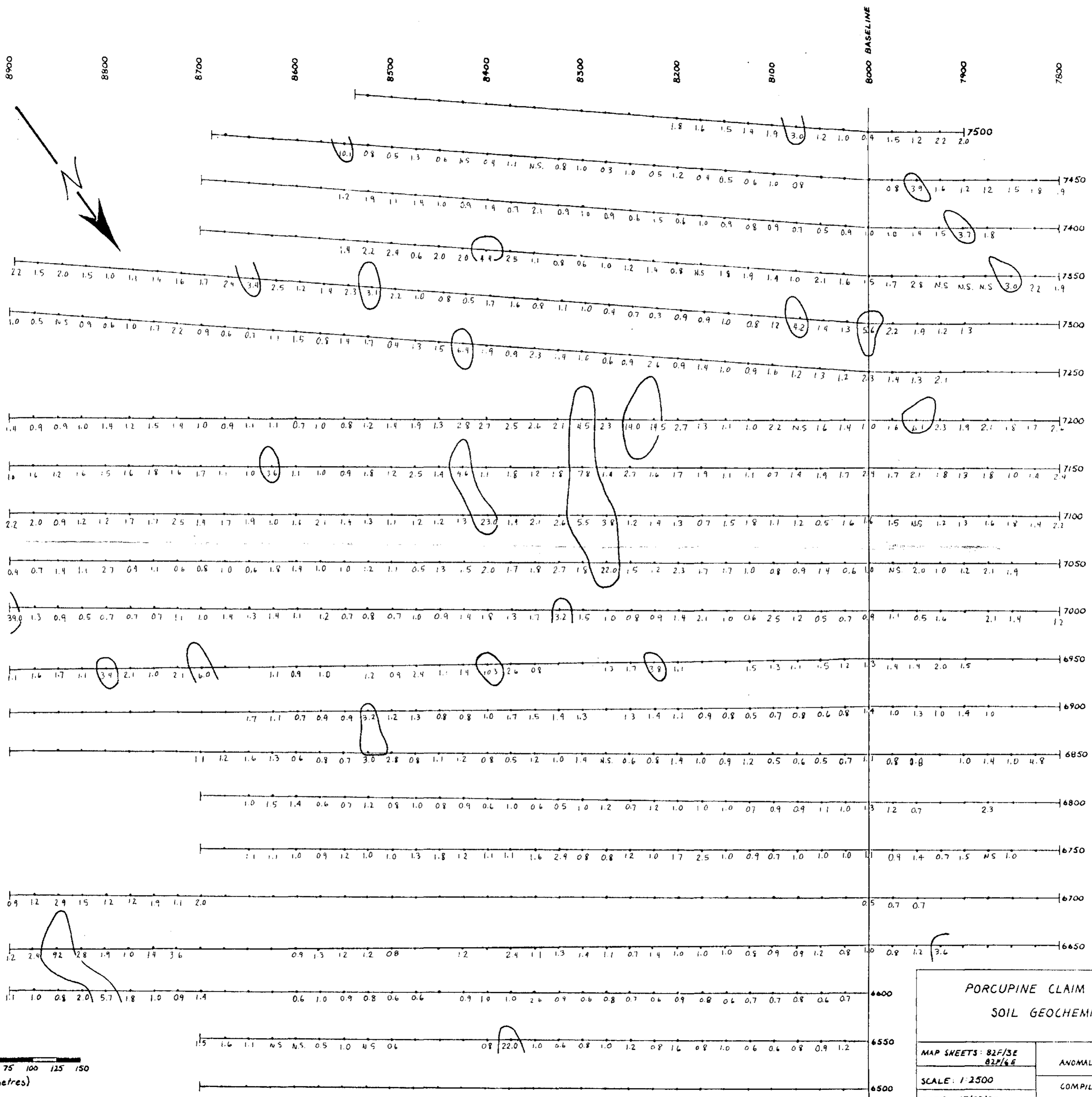
<u>STATION</u>	<u>FIELD</u>	<u>LINE 7500S</u>		<u>7925E - 8200E</u>			
		<u>STRENGTH</u>	<u>DIP</u>	<u>QUADERATURE</u>	<u>FRASER FILTER</u>		
7500S	7925E	>100	+24		+48		
	7950E	>100	+24		+23		
	7975E	>100	- 1	12	- 1	20	49
	8000E	>100	0	15	+ 3	- 7	
	8025E	>100	+ 3	17	+ 6	- 6	
	8050E	>100	+ 3	17	+ 9	- 6	
	8075E	90	+ 6	18		+12	-13
	8100E	86	+ 6	18		+19	-13
	8125E	89	+13	16	+25	- 8	
	8150E	87	+12	15	+27	- 3	
	8175E	87	+15	16	+28		
	8200E	95	+13	13			
	8225E						

<u>STATION</u>	<u>FIELD</u>	<u>LINE 7450S</u>		<u>7800E - 8550E</u>		
		<u>STRENGTH</u>	<u>DIP</u>	<u>QUADERATURE</u>	<u>FRASER FILTER</u>	
7450S	7800E	90	+23		48	4
	7825E	>100	+25	13	48	5
	7825E	>100	+23	21	52	12
	7825E	>100	+29		53	46
	7900E	>100	+24		40	57
	7900E	>100	+16	18	7	20
	7900E	>100	- 9		17	16
	7900E	>100	- 8		13	18
	8000E	>100	- 5	11	1	6
	8000E	>100	+ 4	10	5	3
	8000E	>100	+ 1	12	5	6
	8000E	>100	+ 4	18	8	11
	8100E	>100	+ 4	19	11	19
	8100E	>100	+ 7	19	19	19
	8100E	100	+12	18	30	10
	8100E	95	+18	13	38	1
	8200E	95	+20	10	40	4
	8200E	98	+20		39	4
	8200E	97	+19		36	0
	8200E	100	+17		35	1
	8300E	>100	+18		36	1
	8300E	>100	+18		36	2
	8300E	>100	+18		37	6
	8300E	>100	+19		34	4
	8400E	>100	+15		31	8
	8400E	100	+16		30	13
	8400E	100	+14		23	8
	8400E	100	+ 9		17	4
	8500E	100	+ 8		15	32
	8500E	100	+ 7		13	
	8550E	100	+ 6			



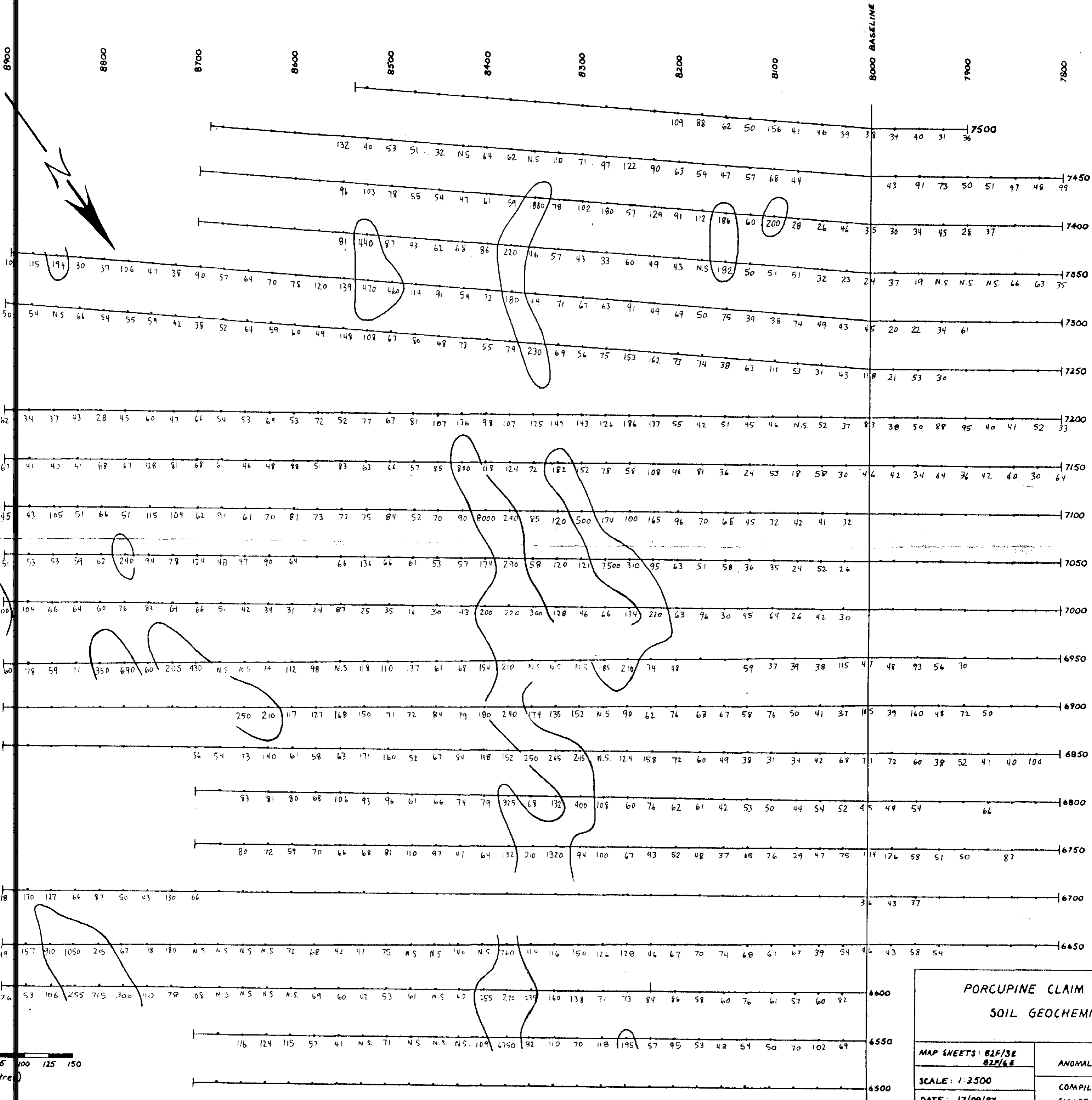
<b>PORCUPINE CLAIM GROUP</b> <b>SOIL GEOCHEMISTRY</b> <span style="float: right;"><b>17 510</b></span>	
MAP SHEETS: 82F/3E 82P/6E	ANOMALOUS Au > 30ppb
SCALE: 1:2500	COMPILED BY: G.E.N.
DATE: 17/09/87	Figure 3



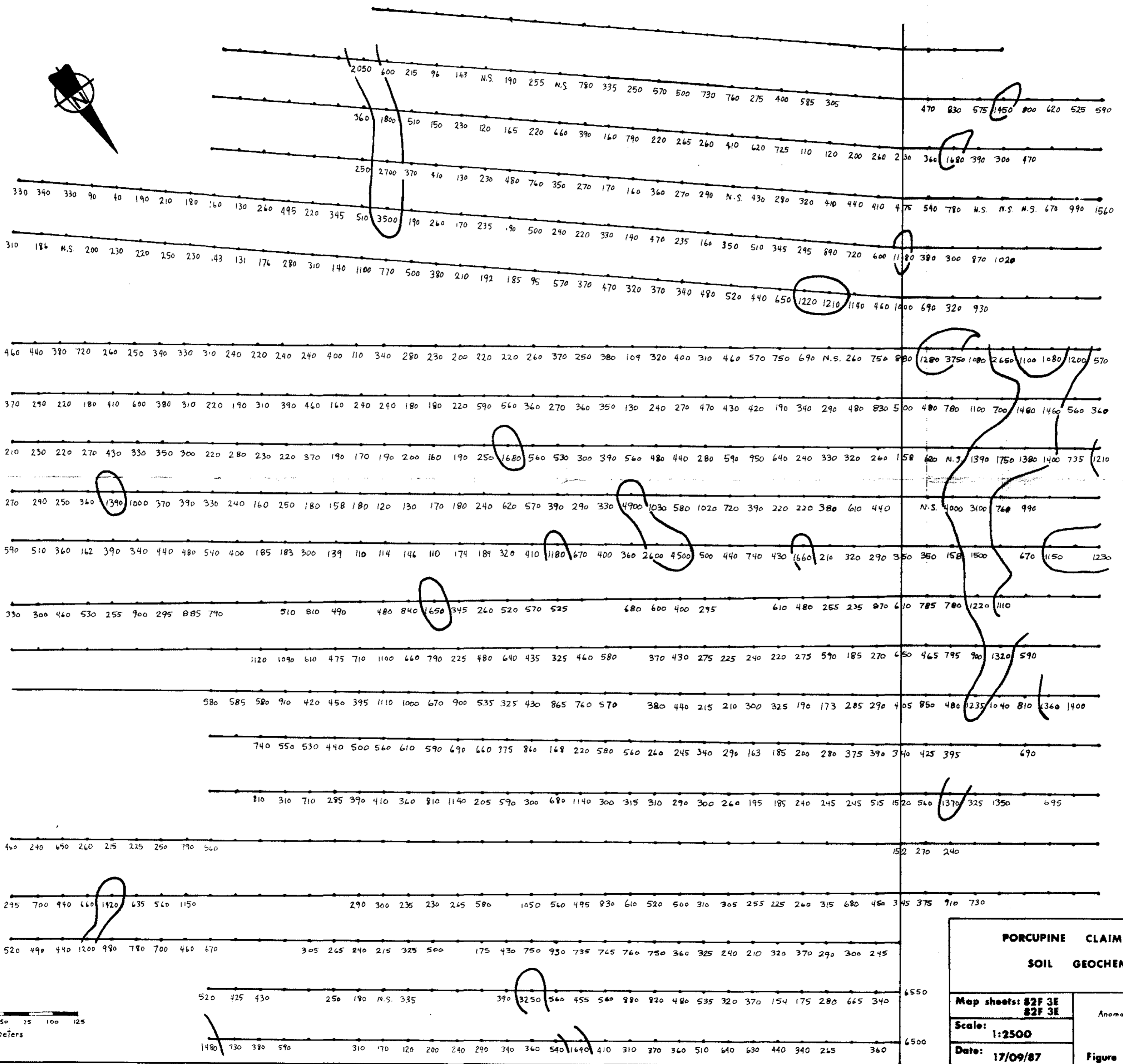


**PORCUPINE CLAIM GROUP**  
**SOIL GEOCHEMISTRY**  
**17,510**

MAP SHEETS: 82F/3E 82F/4E	ANOMALOUS Ag $\geq$ 30 ppm
SCALE: 1:2500	COMPILED BY: G.E.N.
DATE: 17/09/87	Figure 4



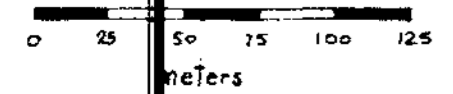
<b>PORCUPINE CLAIM GROUP</b> <b>SOIL GEOCHEMISTRY</b> <b>17,510</b>	
MAP SHEETS: 82F/3E 82P/6E	ANOMALOUS Pb > 180 ppb
SCALE: 1:2500	COMPILED BY: G.E.N.
DATE: 17/09/87	FIGURE 5



**PORCUPINE CLAIM GROUP**  
**SOIL GEOCHEMISTRY**  
**17,510**

Map sheets: 82F 3E  
 82F 3E  
 Scale: 1:2500  
 Date: 17/09/87

Anomalous Zn  $\geq$  1150 ppm  
 Figure 6



8900

8800

8700

8600

8500

8400

8300

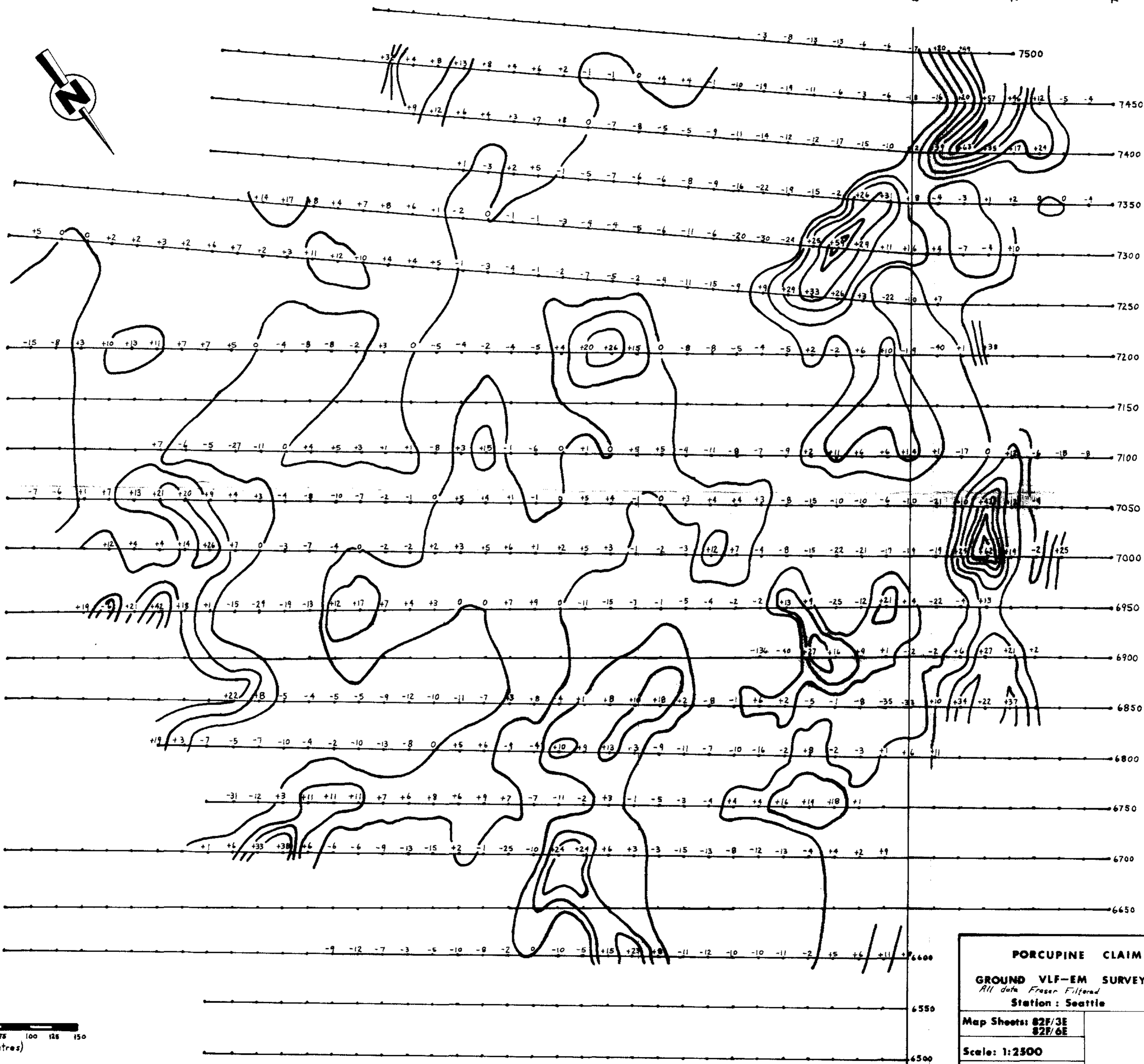
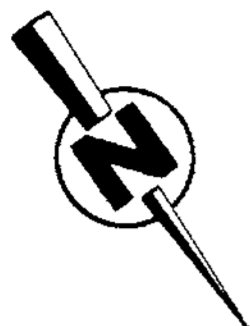
8200

8100

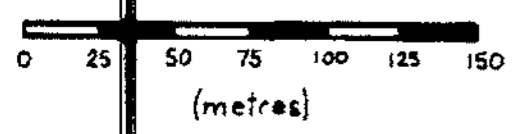
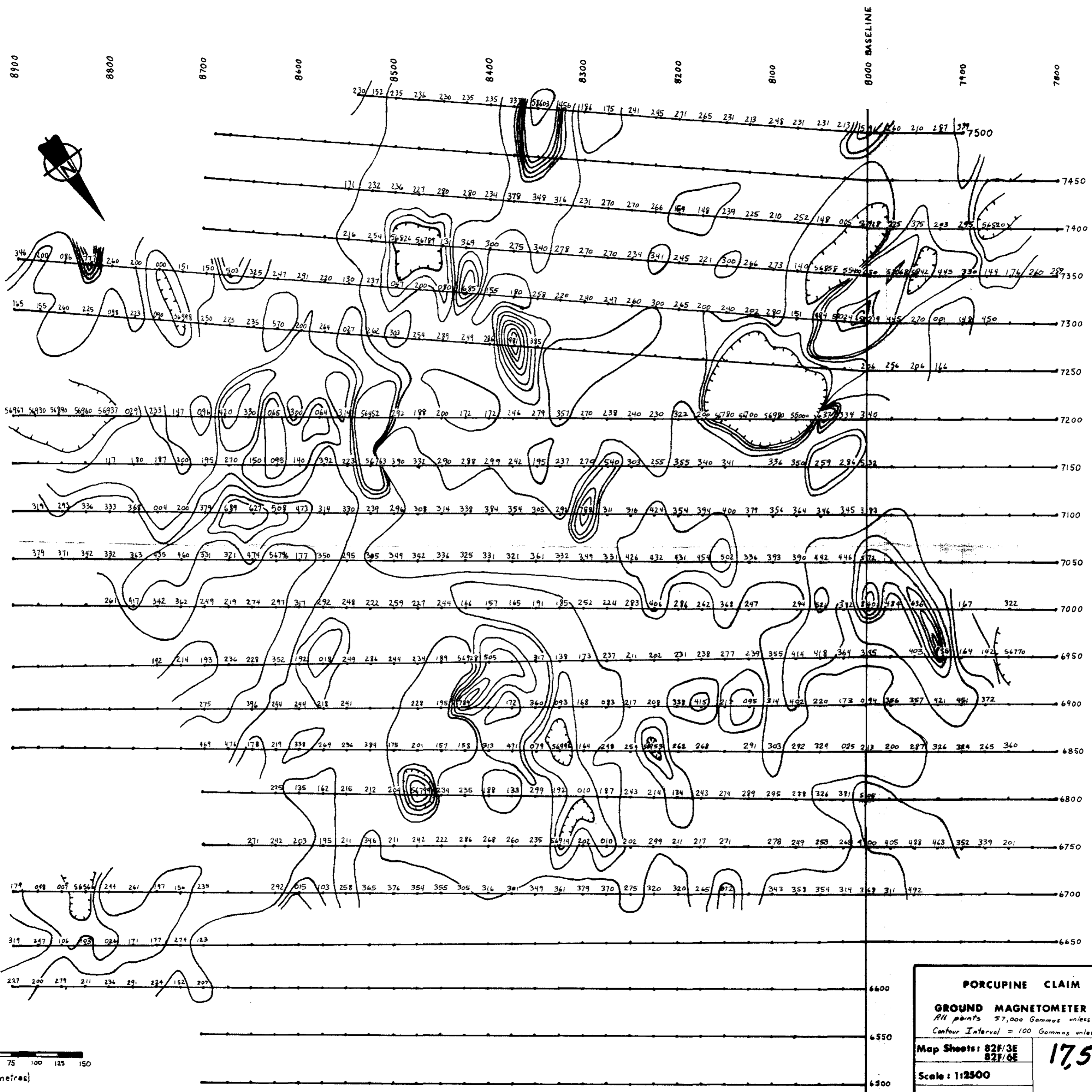
8000 BASELINE

7900

7800



<b>PORCUPINE CLAIM GROUP</b>	
<b>GROUND VLF-EM SURVEY</b>	
<i>All data Fraser Filtered</i>	
Station: Seattle	<b>17,510</b>
Map Sheets: 82F/3E 82F/6E	
Scale: 1:2500	
Date: 17/09/87	Figure 7



<b>PORCUPINE CLAIM GROUP</b>	
<b>GROUND MAGNETOMETER SURVEY</b>	
<i>All points 57,000 Gammas unless otherwise labelled</i>	
<i>Contour Interval = 100 Gammas unless gradient too high</i>	
Map Sheets: 82F/3E 82F/6E	<b>17,510</b>
Scale: 1:2500	
Date: 17/09/87	Figure 8