ARIS SUMMARY SHEET

District Geologist, Nelson Off Confidential: 89.03.30 MINING DIVISION: Nelson ASSESSMENT REPORT 17510 PROPERTY: Porcupine 49 15 00 117 11 30 LOCATION: LAT LONG 11 5455046 486050 UTM NTS 082F03E 082F06E Porky, Victor, Emerald, Porcupine, Sunrise, Nevada, Gorgina-Sandaulphin CLAIM(S): Imperial OPERATOR(S AUTHOR(S): OPERATOR(S): Obulus Res. 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 ليا northeasterly trending, steeply dipping shear zones in argillite. WORK DONE: Geophysical, Geochemical EMGR 25.0 km;VLF Map(s) - 1; Scale(s) - 1:250035.0 km LINE 25.0 km MAGG Map(s) - 1; Scale(s) - 1:2500ROCK 6 sample(s) ;PB,ZN,AG,AU SOIL 530 sample(s) ;PB,ZN,AG,AU Map(s) - 4; Scale(s) - 1:2500MINFILE: 082FSW063,082FSW064

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SUB-RECENDER RECEIVED DEC 2.8 GEOBOGICAL, GEOCHEMICAL AND GEO M.R. # <u>\$</u> M.R. # <u>\$</u> VANCOUVER, B.C. ON THE PORCUPINE CLAIM GROUND NELSON MINING DIVISION - BRITE	LOG NO: 1230 RD.2 ACTION: Date received report back from amendments. UP <u>12-p</u> . FILE NO:
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GEOLO FORSSES LASER RESOURCES LTD. BY	GICAL BRANCH SMENTREPORT
JOHN A. MCCLINTOCK, P.ENG.	(B.C.)
October 5, 1987	Vancouver, B.C.

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1. SUMMARY AND CONCLUSIONS

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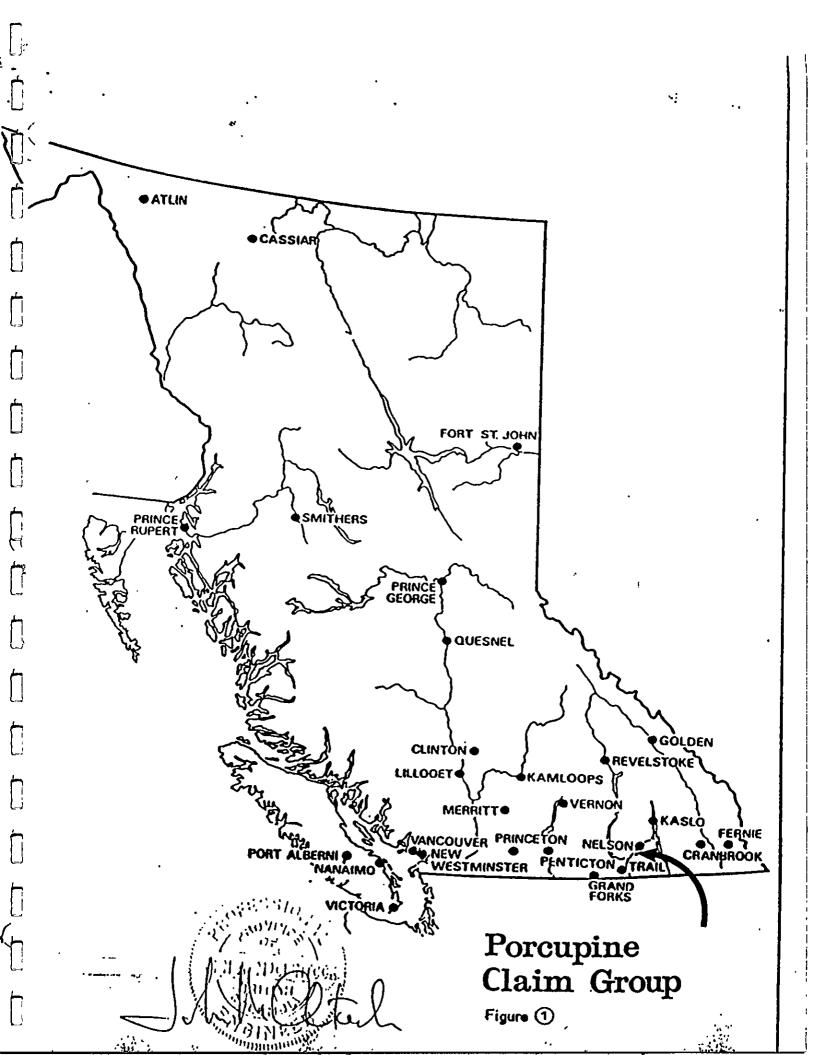
The Porcupine Claim Group is situated in southeastern British Columbia, approximately 33 kilometers south of the city of Nelson. The claims lie within the Ymir Gold Camp which has produced over 233,400 ounces of gold and 1,200,000 ounces of silver from vein-type deposits localized in the contact zones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



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.

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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

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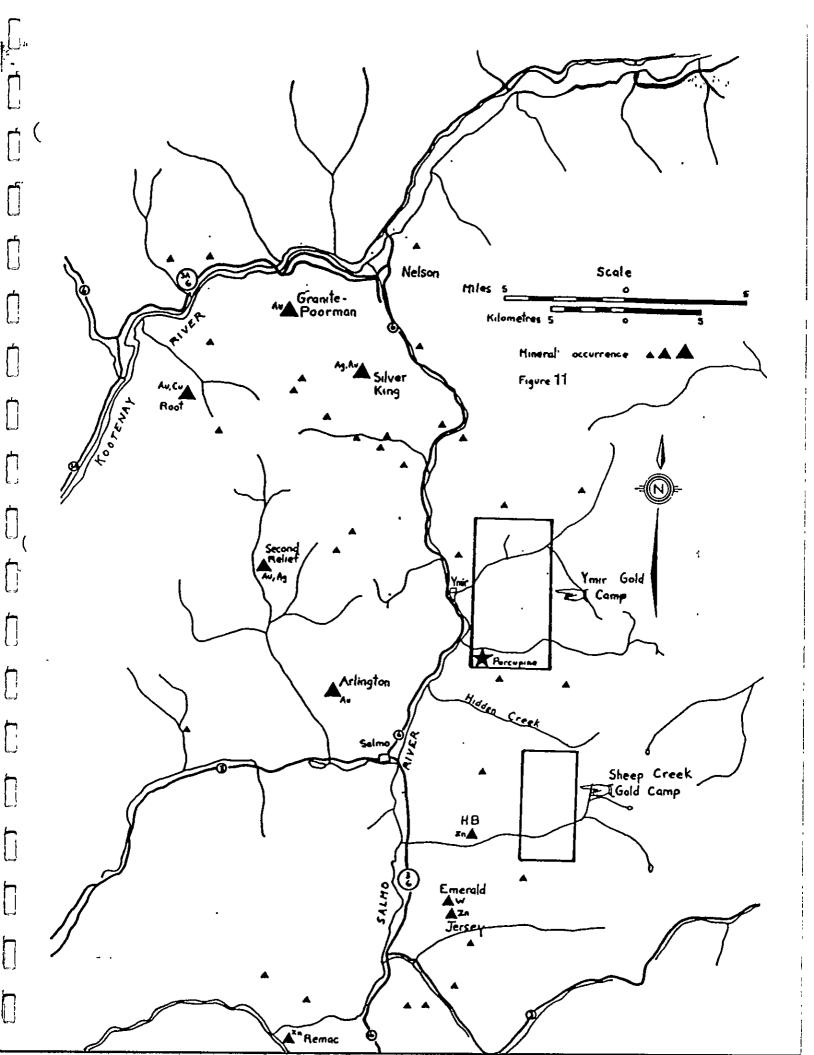
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The Porcupine Claim Group lies in the Nelson Mining Division, British Columbia, 33 kilometers south of the city of Nelson and three kilometers east of the community of Ymir. More precisely, it is situated at 49 degress, 15 minutes north latitude and 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.



2.3 Claim Data

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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>	Record #	# Of Units	
<u>Claim</u> Porcupine Porky Victor Emerald Porcupine Sunrise Nevada Gorgina	Record # 4909 RCG(LOT 463 4850 4626 RCG 4627 RCG 4628 RCG 4629 RCG 4629 RCG 4652 RCG 4706 RCG	20 1 1 1 1 1	<u>Anniversary Date</u> Nov. 12/88 Aug. 24/88 Mar. 30/88 Mar. 30/88 Mar. 30/88 Mar. 30/88 Mar. 30/88 Apr. 13/88
Sandaulphin Imperial	4706 RCG 4705 RCG	2 2 1	Jun. 1/88 Jun. 1/88 Jun. 1/88

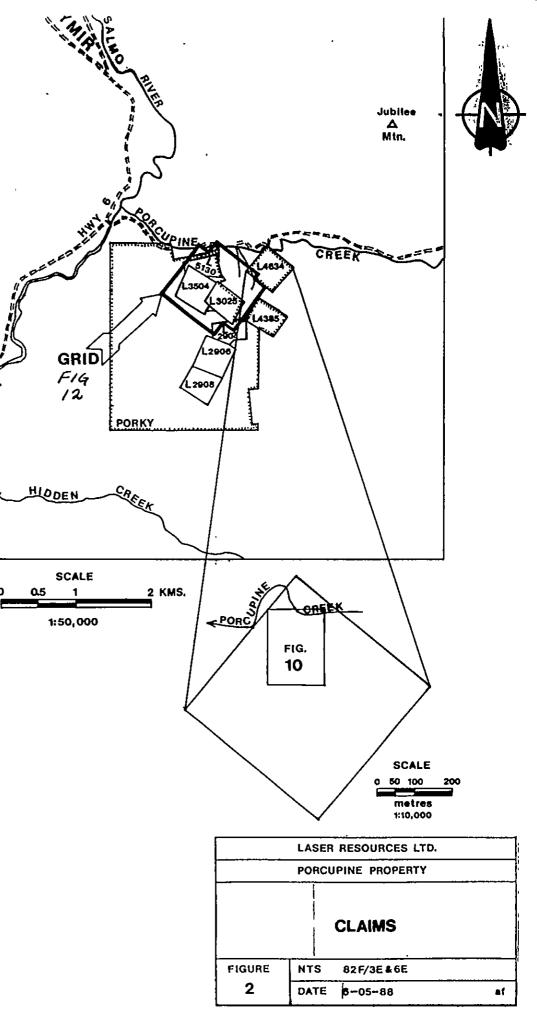
2.4 <u>Economic Considerations</u>

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 <u>Regional History</u>

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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history of the Ymir and Sheep Creek Gold Camps dates back to the mid 1680'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 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 kilomtres 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. ŝ

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

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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.

Tons Mined	<u>Gold_oz</u>	<u>Silver oz</u>	Lead lbs	
44			Dedd 105	Zinc 1bs
	5	405	3,747	3,832

4. GEOLOGY

4.1 <u>Regional Geology</u>

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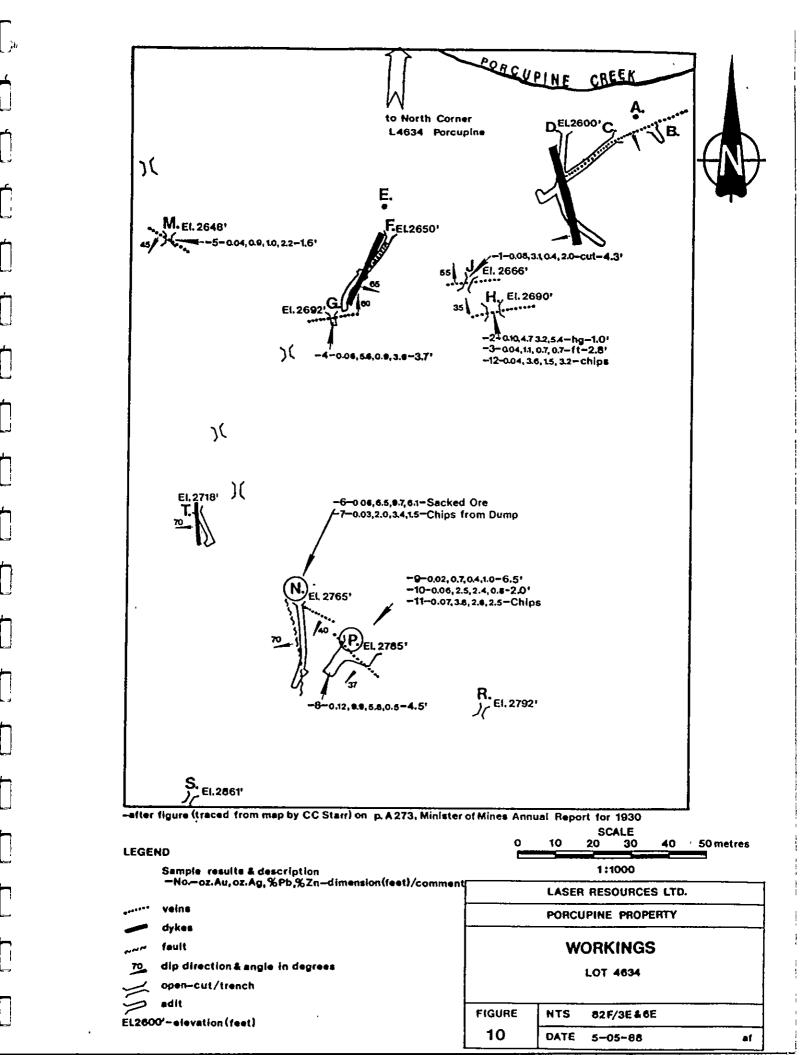
The Porcupine Claim Group lies within the Omineca Crystalline Belt and is underlain by Mesozoic-age sedimentary, volcanic and intrusive rocks. Regional geological mapping by H.W. Little of the Geological Survey of Canada has separated the volcanic and sedimentary rocks into three separate packages. From 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.

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(, [] The volcanic and sedimentary sequence has been folded into a north-trending synclinorium 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 quantitites of scheelite and wolframite.



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.

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

Sample No	Sample Description	Gold oz/ton	Silver <u>oz/ton</u>	Lead%	<u>Zinc%</u>
HG 2	Grab galena/shalerite guartz 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 guartz 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 aqau 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 aqau regia solution. The total number of samples collected and analysed was 530.

.2 Interpretation of Results

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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:

Element	Anomalous
<u>Element</u> Gold	(Mean plus 2 standard deviations)
Silver	30 ррь
Lead	3.0 ppm
Zinc	180 ppm
	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.

<u>Gold</u> - 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.

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<u>Silver</u> - 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 oom), 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 ≥ 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 coincidently 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.

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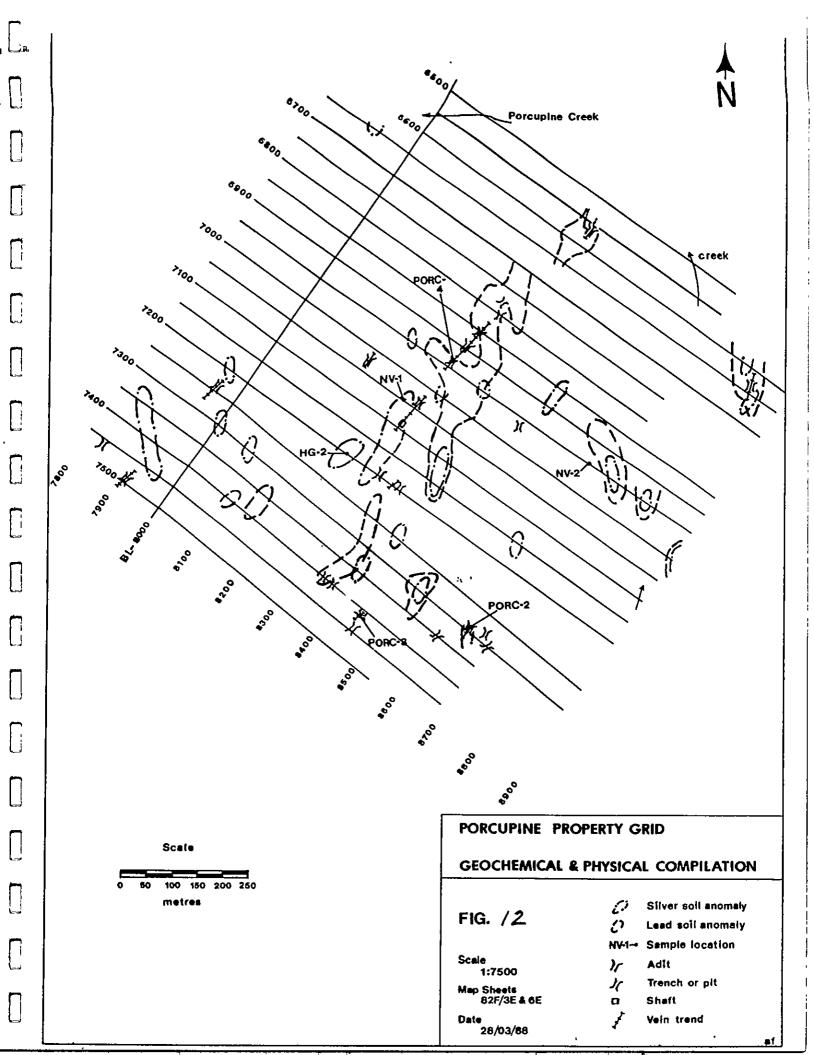
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A third area of anomulous silver values occurs in the southwest grid area. Here, northerly oriented silver anomalies are coincident with scattered anomalous gold values. Several slumped pits were observed and minor amounts of pyrite bearing quartz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

<u>Lead</u> - 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.

 \underline{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



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 electromagic 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

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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

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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. positive filtered values were contoured at intervals of 10°, The

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 crossover 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. 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. this distortion that the VLF EM receiver measures. It is uses a frequency range from 16 to 24 KHz whereas most EM instru-The VLF EM ments use frequencies ranging from a few hundred to a few thous-Because of its relatively high frequency, the VLF EM can pick up bodies of low conductivity and therefore is more susceptible 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

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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 know goldsilver-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 <u>Magnetometer Survey</u>

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 ·

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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.

<u>Results</u>

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.

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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.

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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 concelaed 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 mineraliztion 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 thier 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

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The Phase I work program will encompass the following:

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

Proposed Budget

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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

TOTAL PHASE I

\$37,400

<u>Phase II</u>

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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

Respectfully submitted,

John A. McClintock, P.Eng.

<u>9. REFERENCES</u>

- 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.

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- 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, Exloration, 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

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1

- 2) That I am a prospector and have practices my vocation since 1965
- 3) That I have managed projects in B.C., Yukon, and the western United States.

/ / /

J. Paul Stevenson

MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES Rec'd , JUN 9 1988 SUBJECT _ FILE VANCOUVER, B C.

STATEMENT OF COSTS FOR THE PROCUPINE CLAIM GROUP

TOTAL		65,900.00
EM an	nd Mag - 20.00Km x 2 x \$160.00	6,400.00
	ndibles Flagging, fuel, sample bags, etc	3,700.00
	\$35.00 x 5 x 20	3,500.00
	neering	
	and report preparation	-
Wages	⁵ 3 @ \$200.00/day x 20 days 2 @ \$250.00/day x 20 days	12,000.00 10,000.00
	1emob	5,000.00
Soil	geochem 530 at \$10.00 each	5,300.00
Line	Cutting 20.00 Km at \$700.00 per Km	\$14,000.00

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APPENDIX I

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		RECORD OF MINE	HAL CLAIM - MINE	RAL ACT	RECORD NO. 4850
JI S MINING RECE	SIPT NO. 987745HACO	DED AT	SQN	THIS 24	AUG. 1. 87
DO NOT W	RITE IN		<u> </u>		NELSON
	REN HANN				WINN SIVEDN
ון	BEN NYHU		AGENT FOR		
APPLICATION			<u> </u>		
} ∫ A	NELSON B.C.	VIL / P	5.		ACONKS
MINERAL	VALID SUBSISTING F.M.C. NO		- C.i	D SUBSISTING F M.	
	MINING DIVISION NEL	SON		NO STELG F	
l	STATE THAT: I COMMENCED LOCA		<u>אי</u> ע ע		
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	ON THE 15 DAY OF AL	19 B 19 BA	TOOO	AM AND C	OMPLETED THE LOCATION
	IN THE OAY OF 10	G 19 <u>67</u>	r_/2:01	A M course	-
Standard Standard	INIT LENGTHSAND		INNET INDICATE A	W 09 PU;	D ALL THE RECURED INFORMATION
CN VETAL TAD	1000000000000000000000000000000000000	INDUGER!	D'OECTION) I PAVE IMPRESSE	D ALL THE RECURED INFORMATION
	s NO. 100156 W	TCH HAS BEEN SECURE	Y FASTENED TO TH	E POSTS AS RECU	PED UNDER THE REQULATIONS
2 IDENTIFICATION	POST(S) NOT PLACED WERE				
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I MECK I V" APPI					
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ELSON	MIGHWAY IN		GREEK	CAD FR	OM THE SALMO
	2000 M AT			U_{-4M}	
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	DISTANCE TO TRUE POSITION OF LE	GAL CORNER POST FRO	M THE WITNESS PO	s -]	GOLD COMMISSIONER
	STANCE FROM IDENTIFICATION POS		1		RECEIVED and RECORDED
MINERAL CLAIMS	WITH AL. THE TERMS OF THE MINE AND HAVE ATTACHED & PLAN, ACC	PAL ACT AND REGULATION	CNS PERTAINING TO	THE STAKING OF	11 (
·	Ber ml	/ .			AUG 24 1987
······	Bin Myte				M.R. 9877454 \$ 100.00
NO. OF UNITS	20			. <u> </u>	ANELSON B.C.
		DATE OF CRE	<u>017 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </u>		
	AND DATE RECONDED WORK	SECIET WORK		THAI	NSFERS NTB. CONVEYANCES;
<u>, </u>					
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APPENDIX II

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GEOCHEMICAL ANALYSIS CERTIFICATES

ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: FEB 22 1988 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE (604) 253-3158 FAX (604) 253-1716 DATE REPORT MAILED: Feb 26/88

ASSAY CERTIFICATE

ASSAYER: C. LOTT. D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

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J. PAUL STEVENSON File # 88-0494

SAMPLE#	AG OZ/T	AU OZ/T
FORC #2	.03	.002
FORC #3	.89	.026
FORC #4	7.90	.011

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	. The west 15t	sts in l	Mineral E	NVICONMEN .C. Canada V7N	ate	• • • •	
CHONE: (604) 980-5814 DF						TELEXIVIA USA	7601067 UC
		<u>i 1 i c</u>	ate	of As	SSAN	<u>×</u>	
Company:J.FAU Project:P.C. Utention:J.P.	.STEVENSON					File:7-1058/F Date:AUGUST 2 Type:ROCK ASS	0/87
<u>le hereby cer</u>	<u>tify</u> the follow	ving res	ults for	samples :	submit	ted.	
Sample Umber	NG G/TONNE	AG DZ/TON	AU G/TONNE	AU OZ/TON	Fв %	ZN Z	
H.G.2 V 1 V 2	14.3	0.42	0.22 2.17 0.89	0.006 0.063 0.026	.19	.19	******
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				11111-EIN LI	NEURAT	URIES LTD.	

•	Special 705 Kest 1	ists in A 5th Street Kort	<i>lineral E</i> h Vancouver, 8	nvironments .C. Canada V7M 112	
FHOME: (604) 580-5814 BR (604) 9	98-4524				TELEX:VIA USA 7601067 UC
\$	Gerts	 fica	te o	f GEOC	
				. 0200	1.1 1. 1.1
Company:J.P. STEV Project:P.C. Atention:PAUL STE	,				File:7-1147/P1 Date:SEPT 3/07 Type:SOIL GEOCHEM
He hereby certify	the follo	owing res	ults for	samples sub	mitted.
Sangle kadan	Fik	 ZN	AG		*****
kualier.	(PPM	121-341 121-341	FPM	PPB	
*C 651008-91 (006	 ZQ	340	1.8	5	
10 6bet000S81+25E	50	440	1.0	10	
0 63+009-014502	52	630	2.4	10	
0 65-005-81+756	48	640	1.0		
0 45 609 -82-606	175	S10	2.3	5 8	
- 65 000S-82425E		······································			
C ALCOOS-SPECSOL	64	350 370	1 - 1	10	
1.1.1003-024756	65	310	1.2	5	
850 903-83-60E	63		1.9	5	
65 F005-87 F250	81	410	0.8	5	
	[2] 	1640 	1.3	10	
40000-834508	82	540	۶_ ۱	······	
170008-82075H	78	360	1.3	5	
65 e008-84 e00E	27	340	1.2	50	
65+100884+25E	20	220	1.5	5	
65 (003-04 (SOC	5 L	240	1.0	5	
654.000+84+75E	 34	200	·		
.45-0 001-85-00E	62		1.1	10	
051000-05-6256	39	120	0.8	5	
650-00885+50E		170	1.9	5	
65100S-86+25C	76 72	310 570	1.9	5	
	·····		3.0	5	
65+005-86+508	58	390	1.5	10 -	
65+003-86+75E	160	730	2.9	5	
65+005-87+00E	152	1460	2.0	5	
704008-804256	26	440	0.8	5 5	
701000-804508	52	710		 	

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70.000-90+506 204505-80+258 204:508-81:6000 204505-814256 ل_) C_70+50S-81+50E [201506-314756

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contitied by

MIN-EN LOURAIDRIES LTD.

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MILIN-EN LA上(UKA) UKストニシ LIレー Specialists in Mineral Environments 705 West 15th Street North Vancouver, B.C. Canada V7H 112

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

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TELETIVIA USA 7601067 UC

<u>Certificate of GEOCHEM</u>

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

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

He hereby certify the following results for samples submitted.

U					
Scanpel is Action to see	ন্দ্রন প্রদান	zn Pph	ag Ppm	ац-иет Ррб	
_ (°C - 70 (50582+00E	63	1020	2.3		
∏ 40 - ZO+GOS+ 82 €25E —	95	580	1.2	5	
Urc 70+508-82+50E	310	1030	1.5	10	
C 70×508-82+75C	17500	4900	22.0	490	
10 70+505-80+00E	121	330	1.0	5	
C 704 505-80 (25E	120	280	2.7	5	
H C ZOUDOS-BLODOE	50	390	1.8	10	
C 204509-05078C	290	570	1.7	10	
14: 791503-84400E	174	620	2.0	5	
_PC _ZO+50S84 9256 □	57	240	1.5	5	
4 204 305-04 6305	5.7	160	1.3	 G	
1. 704 508-34+75E	61	170	0.5	10	
<u>no 70+505-85+006</u>	66	130	1.1	5	
U2 70+508-88+25F	136	120	1.2	5	
PC 202805-854500	66	180	1.0	5	•
0 704000-864000	64	180	1.4	10	
TC 70+50S-86+25E	90	250	1.8	5	
F7 70 (S0S-86+50C	47	160	0.6	5- 	
(170+50S-86+75E	48	240	1.0	5	
+C 70+505-87+00E	124	330	0. B	5	
C 201506-07+25E	¥8	390	 ¢.٨	 G	
1 704508-87+50E	44	370	1.1	10	
PC 700505-07475E	240	1000	0.4	5	
1 70+00S-88+00E	67	1390	2.7	5	
20+308-88+256	57	360	t.1	5	
70+505-88+50E 70+505-88+750	53	250	 1 . 4	(5	
	113	270	0.7	5.	
17 70+505-89+00C	51	270	0.4	10	
71+00S-80+25E	32	260	1.6	Т. Б	
21+00S-90+50C	41	320	0.5	5	
· · · · · · · · · · · · · · · · · · ·				***************************************	

Cartified by

MIN-EN CHAORATORIES LTD.

Specialists in Mineral Environments 705 Kest 15th Street North Vancouver, B.C. Canada V7H 112

FIIDHE: (404) 980-5814 OR (604) 988-4524

, _||,

TELEI:VIA USA 7601067 UC

Gertificate of GEOCHEM

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

File:7-1147/P3 Date:SEPT 2/87 Type:SOIL GEOCHEM

'ie hereby certify the following results for samples' submitted.

Samp1@ umber	РН ГРМ	2N F12N	ac PPM	ац-ист ррв	
	42	330	1.2	5	
1 2 71+00081+00E	32	240	1.1	ŝ	
J 3 71+00S-81+25E	45	640	1.8	5	
PC 70+00S-81+50E	65	930	1.5	5	
4 2 71 (00S-81+756	7Q	520	0.7	5	
°C 21 0005-82+00€	5'Ġ	280	1.3		
<u>Де у 14008-82+256</u>	155	440	1.4	5	
1.71008-024506	τφα	4110	1.2		
-C 71+008-02+75E	134	560	3.8	5	
PC 21:005-83:005	500	390	5.5	5	
J. 10005-934256	120	300	2.6	 S	
N /1+008-83+50E	85	530	2.1	5	
ha 714008-03475E	240	560	1.4	15	
71+005-84+006	8000	1680	23.0	10	
TC 710000-8449.50	90	250	1.3		
71+005-84+506	70	(90	1.2	10	
ピーフト+008-84+755	52	160	1.2	5	
<u>1</u> 71+008-08+00E	84	200	1.1	5	
71400S-85425E	75	190	1.3	5	
J 71+00S-85+50E	1 72	170	1.4	5	
71+00S-85+7SC	 73	190	2.1		
J 71+00S-86+00E	81	370	1.5	5	
0 71+006-86+296	70	220	1.0	15	
714008-864300	61	230	1.9	15	
71 0009-06+756	91 91	200	1.7	10 5	
<u>д 71+005-87+00с</u>	62	220	1.4	5	
21.008-874256	104	100	2.5	5 10	
-71 (00887+50E	115	350	1.7	3	
271+00S-87+75E	51	330	1.7		
71+005-08+006	66	430	1.2	5 5	

certified by Augman

MUMMEN PROBOTORIES CTD.

Specialists in Hineral Environments 705 Kest 15th Street Horth Vancouver, B.C. Canada V7H 112

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

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company:J.P. STEVENSON Froject:P.C. Stention:PAUL STEVENSON

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

He hereby certify the following results for samples submitted.

Shap) e waber	FB PPM	ZN PP(1	AG PPH	au-Wet Ppr	
PC 710008-88025E	5 t	270	1.2	5	
0 70+008-88+SOE	105	220	0.9	20	
C 710008-086755	43	230	2.0	5	
CC 71+00S-09+00E	45	210	2.2 .	5	
11 71 (SOS-78+008	64	360	2.9`	- 5	
PC 71+508-78+258		560	1.4	5	
PE 7 HOOS-784 SOF	40	1460	1.0	5	
1.1.11(303-20(786	42	1980	(.8	<u>्</u>	
1 /1+508-79+00 <u>e</u>	34	700	1.3	5	
PC 71+30879+256	64	1100	1.8	10	
1+503-72+5oC	34	780	2.1	 5	
/11008-794756	42	480	1.7	., 5	
© 71+50S+00+00E	46	500	2.4	5	
1 71+505-80+256	30	830	1.7	10	
*C 71+S0S-00+S0E	50	480	1.9	3	
71+505-80+75C	13	270	••••••••••••••••••••••••••••••••••••••		
6 71+505-81+00E	53	340	1.4 0.7	5 ··	
0 71+505-01+255	24	170		5	
71+505-81+50E	36	420	1.1	10	
71+505-91+758	8 t	430	1_1 1_7	5 10	
71+506-924006	·····				
714505-82+256	46 103	470 220	1.7	5	
2 71450S-82450E		270	1.6	5	
710305-82475E	50	240	2.7	5	
71+50S-83+00E	78	130	1.4	2	
	152	350	7.8	10	
714508-836256	182	340	ទ	5	
21 (505-83+506	72	270	1.2	10	
· 71 +909-83 +756	124	350	1.0	10	
71-0508-84+008	118	560	1.1	5	
71+508-64+256	800	590	4.6	40	

Cartified by HIM-ON KARORATORIES LTD.

Specialists in Hineral Environments 705 Kest 15th Street Horth Vancouver, D.C. Canada V7N 172

PHDXE: (604)980-5814 DR (604)988-4524

TELEX: VIA USA 7601067 UC

<u>Certificate of GEOCHEM</u>

Company:J.F. STEVENSON Troject:F.C. Attention:FAUL STEVENSON

File:7-1147/P5 Date:SEPT 4/87 Type:SOIL GEOCHEM

<u>We hereby certify</u> the following results for samples submitted.

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Sample	(मनन (ZN FFH	лс Рги		
PC 71+30S84+50E	83	220	1.4	 3	
C 71+505-84+75E	57	180	2.5	130	
☐ C 71+50S-85+00E	66	180	1.2	10	
TC 71+50S-85+25E	63	240	1.9	ŝ	
PC 71+505-85+50E	28	240	0.9	45	
C 71+505-85+750	51	160	1.0	5	
<u>P</u> C 71+508-86+00.	68	460	1.1	5	
1 71+SOS-86+25E	48	390	3.6	5	
U3 71+50S-86+50E	46	310	1.0	5	
PC 710505-86475E	61	190	1.1	10	
1+50S-87+00E		220		10	
€2 71+SOS-87+25E	81	310	1.6	15	
71+50S-87+50E	128	380	1.8	10	
71+50S-87+75E	67	600	1.6	5	
PC 71+505-83+00E	68	410	1.5	5	
7t+505-88+23E	41	180	··		
4 71+505-08+50E	40	220	1.6	5	
PC 71+505-88+75E	40 41	220		5	
71+505-85+005	67	370	1.6 1.0	10	
1 72+00S-78+00E	23	570 570		ទ	
	·····		2.6	5	
72+00S-78+25E	52	1200	1.7	10	
1 72+00S-78+50E	41	1080	1.8	5	
C 72+005-78+75E	40	1100	2.1	5	
72+005-79+00E	95	2650	1.9	5	
172+005-79+256	88	1080	2.3	ប	
C 72+005-79+50E	50	3750	6.1	10	
0 72+00575+700	28	1280	1.6	ŝ	
6-72+00S-80+00E	83	680	1.0	5	
C_72+00S-87+25E	47.	330	1.4	5	
172+00S-97+90E	60	340	1.5	25	

Certified by

HIN-EN LOOGRATORIES LTD.

[· · · · · · · · · ·	• ••		-• • • • • • • •	····· • ····
·	· Special 705 Kest 15	ists in H. He Street Horth	ineral Er Vancouver B	<i>vvironments</i> C. Canada V7K 112	
HOKE: (604) 580-5814 DR (604) 5			Tencourer (De	C. Canava 478 112	
<i>Б</i> Х	**	****************			TELEX:VIA USA 7601067 UC
		TICA	<u>te or</u>	GEOCI	HEM
Company:J.P. STEV Project:P.C. Attention:PAUL ST	EVENSON				File:7-1147/P6 Date:SEPT 4/87 Type:SOIL GEOCHEM
<u>lic hereby certify</u>	_ the follo	wing resu	lts for	samples subm	itted.
Sixinp 1 @ Vumber 	PD PPM	ZN F1711	ሰց ዮዮነሳ	AU-VET PPB	
FPC 72+005-87+75E FPC 72+005-88+000	45	250	1.2	5	
°C 72+00S38+25E	, 28 43	260 720	1.4	5 10	
*^C 72+00S-88+50E	37	380	0.9	2	
PC 72(005-08+75E	<u>3</u> 4	490	0.9	5	
U-C 72+003-89+00E	62	460	1.4	ç.	
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		Certifie	ed by	K Pr	mant
IL)				MIN-EN LOBO	KOTORIES LID.

PILIN-EN LAEURAIUXAIES LID. Specialists in Hineral Environments 705 West 15th Street North Vancouver, B.C. Canada V7M 112

FHONE: (604) 980-5814 DE (604) 588-4524

TELET: VIA USA 7601067 UC

<u>Certificate of GEOCHEM</u>

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

File:7-1058/P6 Date:AUGUST 24/87 Type:SDIL GEOCHEM

He hereby certify the following results for samples submitted.

ுவைப்	F D	 Z (N	٨G	AU-WET	
damber -	FFH	PPM	FE14	FPB	

PC 73+008-66+25E	30	90	1.5	5	
C 7%+00S-88+50E	194	330	2.0	5	
LD 73+00S-88+75E	115	340	1.5	10	
PC 734005-89+00K	108	230	2.2	5	
73+50S-78+00E	35	1560	1.9	5	
UC 73+508-78+255				, 	
PD 73+508-78+506	63	770 (70	2.2	10	
1 73+908-78+764	66	670	3.0	5	
1000S-79-00E		ለኮሞኒድ			
1位、アスペンのS-79425日		AHPLE			
		11:1F1_E			
化二 「ふけっから…フロックかけ	, 17	780	2.8		
NU 73+908-79+70E	37	540	1.7	15	
6 73+50S-80+00E	24	475	1.5	5	
1 73+50S-80+25E	23	410	1.6		
PC 73+005-80+50E	22	490	2.1	5	
				ມ 	
M 73+S0S-80+75E	51	410	1.0		
20 73+50S-81+00F	51	320	1.4	10	
°⊈ 70+90s−8J+26€	50	280	1.9	5	
1 73+508-81+506	182	400	1.8	រ ទ	
NU 73+508-81+75C	NO SA		1.0	<u>_</u> 1	
1 73+00S-62+00E	43	270	Ú. 8	5	
duj73+50S-82+25E	49	270	1.4	10	
0 73+505-82+506	60	360	1.2	5	
173+50S−82+70C	33	140	1.0	5	
€_70+50S-83+00E	43	170	0.6	10	
4 - 73+505-83+256					
4 734505-83456E	57	270	0.8	5	
1 73+909-83+75E	ሳሌ	250	1.1	15	
224302-84+00E	220	760	2.5	5	
73+508-84+256	83	480	4.4	5	
1	68	270	2.0	10	

Certified by

HIN-ELGOOPATORIES LTD.

Specialists in Mineral Environments 705 Vest 15th Street North Vancouver, B.C. Canada V7H 112

FHONE: (604)980-5814 DR (604)588-4524

TELEXIVIA USA 7601067 UC

<u>Certificate of GEOCHEM</u>

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

File:7-1058/P7 Date:AUGUST 24/87 Type:SOIL GEOCHEM

He hereby certify the following results for samples submitted.

, Scaup Le Nondreer	128) F1711	ZN FTFM	ag PPM	ац-иет Грв	
PC 73+505-84+50E	62	130	2.0	5	
1°C 73+50S-94+75E	, 43	110	0.6	5	
∐°C 73+50S-85+00E	. 07	370	2.4	55	
PC 73+508-65+25E	440	2700	2.2	50	
	81	200	1.4	45	
U 7℃ 74+00S78+75E	37	470	1.8	5	
L'C 74+00S-79-FOOF	28	300	3.7	· 10	
C 74+00S79+25E	45	396	1.5	5	
40 74+00S79+50E	24	1680	1.3	30	
£€ 74+005-79+75E	30	360	1.0	10	
1400S-80+00E	35	230	1.0	5	}
11, 74+00S80+25E	46	260	0.9	70	I
71 74+00S-80+50E	26	200	0.5	10	
0 74 000 -80 P75E	28	120	0.7	5	
FC 74 (00S- 61+00E	, 200	110	0.9	65	
74+00S-61+25E	 60	725	Ú. Ø	 10	
C 74400S-81450E	186	620	0.9	5	
10 74+00S01+70E	112	410	1.0	15	
74+00S-82+00E	91	260	0.6	13 5	
2 74+00S-82+25E	127	263	1.5	5	
74+00S-92+50E	57	220	• 0.6	 G	
U 74+00S-82+75E	180	770	0.0	5	
C 74+009-03+00C	102	160	1.0	5	
74+005-83+250	78	390	0.7		
74+00S-03+50E	1880	660	2.1	10 5	
C 74+00S-83+75E	 59		 	~^	
74+00884+006	61	165	1.4	20 5	
₩74+00S-84+25E	47	120	0.9	10	
2 74+00S-84+50E	514	230	1.0		
74+005-64+705	55	130	1.4	5	

Contified by MIN-EN LAGORATORIES LTD.

MIN-EN LABURATURIES LID. Specialists in Mineral Environments 705 West 15th Street North Vancouver, B.C. Canada V7H 112

MANE: 1,6041980-5814 OR (6041988-4524...

TELEXIVIA USA 7601067 UC

<u>Certificate of GEOCHEM</u>

Company:J PAUL STEVENSON ' Project:P.C. Autention:PAUL STEVENSON

File:7-1058/P0 Date:AUGUST 24/07 Type:SOIL GEOCHEM

he hereby certify the following results for samples submitted.

Cample Comber	ዮፄ ዮዮክ	214 F7F14	AG PPH	AU-WET PIPB	
FC 74+008-85+00E	78	510	1.1	5	
C 74+00S-05+25E	103	1600	1.7	5	
C 74+00S-85+50€	76	360	1.2	10	
FC 74+50S-78+00E	ŜĈ	570	1.9	Ί	
1 2 74+505-78+25E	48	525	1.8	5	
U 74+50S-78+50E	47	620	1.5	10	
LC 744506784758	G1	800	1.2	5	
24+50S-79+00E	So	1150	1.2	5	
見に ショレビのターアタルごうに	73	575	1.6	5	
\$11 7 1 (SUS-79+SOE	91	820	3.9	10	
4+505-79+75E	43	470	о . ө	 5	
FC 74+508-80+75E	44	303	0.8	10	r
74+505-81+00E	68	585	1.0	15	
() 74+00S-81+25C	57	400	0.6	5	
PC 74:508-81+50E	47	275	0.5	5	,
74+505-81+756	54	760	Ŭ. 4	10	
作さ 74+505-82+00た	63	730	1.2	5	
11 74+50S-82+25E	50	500	0.5	5	
N 74+SOS-82+SOC	122	570	1_0	10	
L 74+503-82+75E	97	250	0.3	ŝ	
1 744 505- 834 GOE		335	1.0		
1 74+50S-03+25E	110	780	0.8	10	
°C 74+508-83+50E		4F1.E	v.u	10	
1 74+505-63+70C	62	ມ ແມ່ນ	1.1	10	
24+50S-04+00E	64	190	0. 4	5	
Q, 74+008-84+256	NO Set	 11°1-17			
74+505-84+506	32	143	0.6	5	
€ 24+50S-84+75E	51	96	1.3	5	
9 74+50S-85+00E	53	215	0.5	5	
74+00S-85+20E	40	600	0.8	5	

Certified by

MIN-EN KANORATORIES LTD.

	MLIN-L Speci 705 Kes	alists in a	Hineral E	UNICLES nvironments E. Canada 47H 112	han i hat a
					TELEI:VIA USA 7601067 UC
	<u>C'ert</u>	ifica	te o	T GEOC	
ttention:F	AUL STEVENSON AUL STEVENSON				File:7-1058/P9 Date:AUGUST 24/87 Type:SOIL GEOCHEM
h <u>e nereby co</u>	<u>ertify</u> the fol	lowing rea	ults for	samples subr	nitled.
Francisco Maber	ው ማ ማ ት የ ጉ		ад РгМ	AU-WET FPB	
PC 74+505-85 ↑: 75+005-79			10.1	5	
751005-79			2.0	5	
PC 75+005-79	+ISE 31 +SOE 40	590	2.2	5	
12 75:000-79-	+75E 34	760 395	1.2	ນ ບ	
12 70-005-80-	-005				
11 751005-804	-00E 38	-105	0. 4	5	
		250	1.0	ម	
/	50E 46 -75E 41	400	1.2	10	
PC 70+00S-81+		680 670	3.0 1.9	5 5	
				J	
1 S+00S-814		315	1.4	5	
NC /S+00S-81+		335	1.5	10	
75+00S-81+	756 80	390	1.6	5	
75+008-82+		520	1.8	5	
*ビ 45+005-80+: -1	2UE 47	360	1.2	5	•
(65+00880+)	758 78	265	1.4	5	
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				TTHE ELL MARON	ROCORDES LID.

MIN-EN LABORATORIES LTD. Specialists in Hineral Environments

705 West 15th Street Worth Vancouver, R.C. Canada V7H 132

"H""": (604) 980-5814 OR (604) 988-4524 ...

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEN

Company:J PAUL STEVENSON Conject:P.C. Uttention:PAUL STEVENSON

File:7-1058/P2 Date:AUGUST 22/87 Type:SOIL GEOCHEM

<u>releventions</u> the following results for samples submitted.

f waple unber	PB PPM	ZN PPM	ag PPM	AU-WET PPK	
10 70+00S-87+75E	76	340		10	
: 70+00S-08+00E	6Q	390	Q.7	10	
LU 70+00S-88+25E	64	162	0.5	15	
PC 70+00S-00+SOE	66	360	0.9	15	
70+00S-89+75E	1(14	510	1.3	5	
0 PC 70+008-89+00E	300	590	39.0	 5	، به ژه که گفته به گوست ه بی واسم و و ما ه م کو م بی و و به م و و و م
F 704 SOS-97400E	54	190	1.8	ງ 5	
70+50S-97+25E	54	175	1.1	े द	
TC 70+505-87+50E	59	170	1.0	5	
C 70+50S-87+75E	118	520	1.2	15	
	79	480	1.2	5	***************************************
10 70+50S-08+25E	63	430	0.8	5	
70+505-88+506	36	98	0.7	5	
U 70+505-08+75E	71	320	1.2	5	
C 70+50S-89+00E	290	410	1.5	10	
72+008-80+256	37		1.4	5	
Č 72+00S-80+50E	52	260	1.6	5	
A 72+005-80+75E	NO SAM			5	•
72+008-81+006	46	670	2.2	15	
1072+00S-81+25E	45	750	1.0	10	
72+005-91+506	51	570	 1.1		
172+00S-81+75E	42	460	1.3		
72+005-82+00E	55	310	2.7	15 5	
72+005-82+256	137	400	14.5		
72+005-82+50E	186	320	14.0	5 160	
12+008-82+75E		109	2.3		
72+005-83+006	143	300	4.5	25	
72+005-83+256	147	250	4.3 2.1	10	
H72+005-83+50E	125	370	2.6	5	
2+005-83+756	107	260	2.5	5 15	

Cartified by MIN-EN LADORATORIES LTD.

MIN-EN LABORATORIES LTD. Specialists in Hineral Environments

705 West 15th Street Horth Vancouver, B.C. Canada V7K 112

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

TELEXIVIA USA 7601067 UC

Certificate of GEOCHEM

Anteration:PAUL STEVENSON

 \Box

File:7-1050/P3 Date:AUGUST 22/87 Type:SOIL GEOCHEM

<u>hereby certify</u> the following results for samples submitted.

tunio f e Munio f e	' РВ Ррм	ZN FPM	AG PPM	AU-WET	
72:008-84+008					
C 72+005-84+25E	98 136	220	2.7	10	
°C 72+00S-84+50E	107	220	2.8	5	
1 72 000884+75E		200	1.3	5	
72+005-85+00E	G1	230	1.7	5	
	67	280	1.4	10	
1 72+00S-85+2SE	77	340	1.2	5	
724008-854800	52	110	0.8	5	
1 72+00S-85+75E	72	400	1.0	10	
°C 72+00S-66+00E	53	240	0.7	5	
72+008-86+256	69	240	1.1	5	
	53	220	1.1	5	
	54	240	0.9	5	•
(72+00S-87+00E	66	310	1.0	10	
C-72+50S-79+25C	30	930	2.1	15	
72+00S-79+50E	23	320	1.3	10	
72+50S-79+75E					
	21	690	1.4	20	
72+505-80+006	118	1000	2.3	5	
72+505-80+256	43	460	1.2	5	
172+505-80+506	21	1140	1.3	5	
2 72450S-80+75E	53	1210	1.2	10	
72+505-81+00E	111				
72+505-61+256		1220	1.6	5	
	63	650	0. 9	5	
72+505-81+75E	38	440	1.0	10	
72+505-82+00E	74	520	1_4	5	
ノムマン()つてるよせ()(と 1	73	480	0.9	5	
2+50S-82+25E	162	 340	2.6	 10 [.]	
U2+50S-02+50C	153	370	0.9	5	
,72+50S-82+75E	75	320	0.6	5	
12+505-83+00E	56	420	1.0	ม 5	
2+505-83+255	69	370	1.4	5 10	

Certified by MIN-EN WERRALDRIES LTD.

Specialists in Mineral Environments 705 Kest 15th Street Korth Vancouver, B.C. Canada V7M 112

HONE: (604)980-5814 DR (604)988-4524

TELET: VIA USA 7601067 UC

<u>Certificate of GEOCHEM</u>

Company:J PAUL STEVENSON Froject:F.C. Tttention:PAUL STEVENSON

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

He hereby certify the following results for samples submitted.

Sample	FB	ZN	AG	 AU-WET	
L'anber	PPM	PPH	PFM	0 021 600	
-C 72+505-83+50E	230	570	2.3	10	
20 72+505-83+75E	79	95	0.9	ទ	
22+50S-84+00C	, 55	185	1.9	5	
U: 72+505-84+25E	73	192	6.4	115	
°C 72+505-84+50E	68	210	1.5	15	
72+505-84+75E	 80	380	1.3	15	
0 72+50S-85+00E	67	500	0.4		
72+505-65+256	108	770	1.7	10	
72+50S-85+50E	148	1100	1.4	. 265	
T 72+505-05+75E	49			40	
	-1.7	140	0.8	5	
72+505-86+00E	60	310	1.5	5	
72+50S-86+25E	59	280	1.1	5	
µ 2+30686+50€	د٩	176	0.7	15	1
72+50S-86+75E	52	131	0.6	10	
J 72+S0S-87+00E	28	143	0.9	15	
72+509-67+25E	42				
72+50S-87+50E		230	2.2	10	
72+505-87+75E	59	250	1.7	15	
- 72+505-89+00E	55	220	1.0	25	
72+505-88+256	54	230	0.6	15	
72+305-88+25E	66	200	0. 9	10	
_72+505-88+50E		NO SAI			
72+509-88+755	54	186	0.5	5	
U72+505-89+00E	50	310	1.0	20	
73+00S-7 <u>5+00E</u>	61	1020	1.3	10	
73+00S-79+25E	34	870	1.2	10	
				······································	
73+00S-79+50C	22	300	1.9	10	
73+00S-79+75E	20	280	2.2	5	
73+00S-80+00E	45	1180	5.6	15	
73400S-80+25E	43	600	1.3	10	
<u>-</u> 73+008-80+50E	49	720	1.4	10	
				•	

Certified by

MIN-EN CABORATORIES LTD.

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

TELEXIVIA USA 7601067 UC

<u>Certificate of</u> <u>GEOCHEH</u>

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Capany: J PAUL STEVENSON froject:P.C. ttention:PAUL STEVENSON

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File:7-1050/PS Date: AUGUST 24/87 Type:SOIL GEOCHEM

<u>hereby certify</u> the following results for samples submitted.

(Sample	PB	ZN	AG	GU-WET	· · · · · · · · · · · · · · · · · · ·
tt' antser	PPM	ዮዮየተ	PPM	PPB	
L-C 73+00S-80+75E		 890	4.2	 5	•
PC 73+005-81+00E	38	295	1.2	5	
1 73+00S-81+25E	39	345	0.8	10	
U 73+00S-81+50E	75	510	1.0	5	
PC 73+00S-81+75E	50	350	Ŭ. 9	ុ ទី	
73+00S-82+00E	 ሪን	160	0.9	10	
TC 73+00S-82+25E	49	233	0.J	5	
81 70+00S-82+50E	\$ ¹	470	0.7	5	
73400S-82475E	63	140	0.4	10	
H: 73+008-83+00E	67	330	1.0	ŝ	
			·		
(] 70+00S−83+20E ↓ 70+00S−83+50E	71	220	1.1	5	
₽. 73+009-83+506 ₽. (3+009-83+756	49	240	0.8	5	
1	180	500	1.6	25	
4 / 73+005-84+25E	72	190	1.7	30	
NS 784005-04425E	54	235	0.5	15	
64 73+00S-84+SOE	91	170	0.8	5	· · · · · · · · · · · · · · · · · · ·
P 73+00S-84+75E	114	260	1.0	10	
rで 73+00585+00E	460	190	2.2	30	
P£ 73+00S-85+25E	470	3500	3.1	10	
P 73+008-85+50E	137	510	2.3	10	
°℃ 73+00S-85+75E	120	345	1.4	5	
173+00S-86+00E	78	220	1.2	5	
U 73+00S-86+25E	70	495	2.5	5	
°C 73+005-86+50E	61	260	3.4	10	
73+005-96+755	57	130	2.4	ົວ	
C 73+00S-67+00E		160	1.7	5	•••••••••••••••••••••••••••••••••••••••
G 73+00S-87+25E	ະສຸ	180	1.6	5	
73+00S-67+50E	47	210	1.4	10	
C 73+00S-87+75E	106	190	1.1	5	
C 73+00S-88+00E	37	140	1.0	- 5	
•{			ہے جہ ہے ہے جانو خذ کا سے چاہین کا ہے ت		

Certified by_

MIN-CH LABORATORIES LTD.

G . ,			h Vancouver, B	.C. Canada V7M 112	
"FHQUE: (604) 960-5814 DR (604) 988-4	524				TELEX:VIA USA 7601067 UC
<u>۲</u>	Serti	fica	te o	f GEOC	HEM
Company:J PAUL SIEVO Project:P.C. Attention:PAUL SIEVO	ENŞON				File:7-1050/P1 Date:AUGUST 22/198; Type:SUIL GEOCHEM
<u>He hereby certify</u> t	.ne tollo	wing res	ults for	samples sub	nited.
Lj Sample Number	88 8990	ZN PPM	AG PPM	AU-WET PPB	
	30	290	0.7	5	
PC 70+00S-80+50E	42	320	0.5	5	
4 PC 70+005-80+75E	26	210	1.2	10	
0°C 70+00S-81+00E	64	1660	2.5	5	
[™] PC 70+00S-81+25E	45	430	0.6	5	
PC 70+005-01+50E	30	740	1.0	5	
- (°C 70+00S-81+75E	96	440	2.1	5	
+ CC 70400S-82400E	63	500	1.4	5	
10 701005-821255	220	4500	0.9	01	
JFC 70+00S-82+SOE	134	2600	0. 8	5	
100 701008-62+756	 66		1.0	 10	
10 20100S-83100E	46	400	1.5	5	
(128	670	3.2	5.	
Á, J 70+00S-83+50E	300	1180	1.7	10	
°C 70+00S-83+75E	220	410	1.3	20	
	200	320	1.8	10	
C 70+00S-84+2SE	43	184	1.4	10	
-TC 70+00S-84+50E	30	174	0.9	.35	
. PC 70+00S-84+75E	16	110	1.0	25	
C 70+005-85+00E	35	146	0.7	10	
_\ 1°C 70+00\$-85+25E	25	114	ý.8	30	
1°C 70+00S-85+50L	87	110	Ú.7	15	
°C 70+00S-85+75E	24	139	1.2	10	
PC 70+00S-86+00C	31	300	1.1	15	
A C 70+005-86+25E	34	183	1.4	10	
·····				6	·· ·· ··· · ····
7°C 70+00S-86+50E	42	185	1.3	5	
2°C 70+005-86+75E	51	400	1.4	10	
	66	540 480	1.0	325	
₩C 70+00S-87+25E ₽C 70+00S-87+50E	64 GO	480 480	1.1	15	
	62	440	0.7	10	
[] · · · · · · · · · · · · · · · · · ·					**************

Certified by

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MIN-EN LABORATURIES LTD.

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LINE 6600S 8000E - 8750E

<u>STATION</u>	FIELD	STRENGTH	DIP	<u>OUADERATURE</u>	FRASI	<u>ER FILI</u>	ER
6600S	8000E	85					
	8000E	93	+18		+26		
	8000E	83	+8. +8	••	+16	+ 9	
	8000E	83		12	+17	+ 2	
	8100E	80	+ 9	13	14	+ 4	
	8100E	70	+ 5		+13	- 4	
	8100E	65	+ 8			+18	-13
	8100E	60	+10			+26	-12
	8200E	55	+16		+30	- 8	
	8200E	55 54	+14			+34	-13
	8200E		+20			+43	-15
	8200E	55	+23	12	+49	- 3	
	8300E	64	+26	12	+46	+ 3	
	8300E	70	+20		+46	+ 6	
	8300E	70	+26	18		+40	+24
	8300E	92	+14			+22	+24
	8400E	76	+ 8			+16	-10
	8400E	78	+ 8			+32	-25
	8400E	64	+24		+41	- 1	
	8400E	62	+17		+33	+ 2	
	8500E	55	+16			+39	-15
	8500E	61	+23			+48	-13
	8500E	58	+25		52	- 9	~ 0
	8500E	58	+27		+57	- 6	
	8600E	68	+30		+58	- 6	
	8600E	57	+28		+63	+ 6	
	8600E	61	+35	18		+52	+38
	8600E	90	+17			+25	+33
		87	+ 8	12	+19	+ 6	
	8700E	77	+11	17	+19	+ 1	
	8700E	77	+ 8	12	+18	' 🍝	
	8700E	73	+10	11			

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		LINE 670	0S	8600E - 7950E			
STATION	FIELD	STRENGTH	DIP	QUADERATURE	FRASI	ER FILT	ER
6700S	8600E	58	32		. -		
	8600E	57	+33		65		
	8600E	58	+30		63	- 9	
	8600E	62	26		56		-12
	8500E	60	25		51	- 7	
	8500E	65	24		49	- 3	
	8500E	62	24		48	- 5	
	8425E	60	20		44		-10
	8425E	66	18		38	- 8	
	8425E	66	18		36	- 2	
	8425E	68	18		36	- 0	
	8325E	61	18		36		-10
	8300E	77	+ 8		26	- 5	
	8300E	78	23		31	+15	
	8300E	63	28		41		+23
	8300E	58	26		54	+ 8	
	0200E	55	23		49		-11
	8200E	58	20		43		-12
	8200E	64	17		37		-10
	8200E	70	16		33		-10
	8100E	64	11		27		-11
	8100E	72	11		22	- 2	
	8100E	84	14	16	25	+ 5	•
	8100E	76	13	10	27	+ 6	
	8000E	86	18	17	31	_	+11
	8000E	82	20	T /	38	+ 8	
	7950E	72	19		39		

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	2,					
		LINE 750	0S	7925E - 8200E		
STATION	FIELD	STRENGTH	DIP	QUADERATURE	FRASER FILTER	
7500S	7925E 7950E 7975E 8000E 8025E 8050E 8075E 8100E 8125E 8150E 8150E 8175E 8200E 8225E	>100 >100 >100 >100 >100 >100 90 86 89 87 87 87 95	+24 +24. - 1 0 + 3 + 3 + 6 +13 +12 +12 +15 +13	12 15 17 17 18 18 16 15 16 13	$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	

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		LINE 74	50S	7800E - 8550E		
STATION	FIELD	<u>STRENGTH</u>	DIP	QUADERATURE	FRASE	R FILTER
7450S	7800E	90	+23			·
	7825E	>100	+25	1 9	48	4
	7825E	>100	+23	. 13	48	5
	7825E	>100	+29	21	52	12
	7900E	>100	+24		53	46
	7900E	>100	+16	18	40	57
	7900E	>100	- 9	10	7	20
	7900E	>100	- 8		17	16
	8000E	>100	- 5	11	13	18
	8000E	>100	+ 4	10	1	6
	8000E	>100	+ 1	12	5	3
	8000E	>100 .	+ 4	18	5	6
	8100E	>100	+ 4	19	8	11
	8100E	>100	+ 7	19	11	19
	8100E	100	+12	18	19	19
	8100E	95	+18	13	30	10
	8200E	95	+20	10	38	1
	8200E	98	+20	20	40 39	4
	8200E	97	+19		36	4
	8200E	100	+17		35	0
	8300E	>100	+18		36	1
	8300E	>100	+18		36	1
	8300E	>100	+18		37	2 6
	8300E -	>100	+19		34	
	8400E	>100	+15		31	4 8
•	8400E	100	+16		30	13
	8400E	100	+14		23	8
	8400E	100	+ 9		17	
	8500E	100	+ 8		15	4 32
	8500E	100	+ 7		13	32
	8550E	100	+ 6		¥.J	

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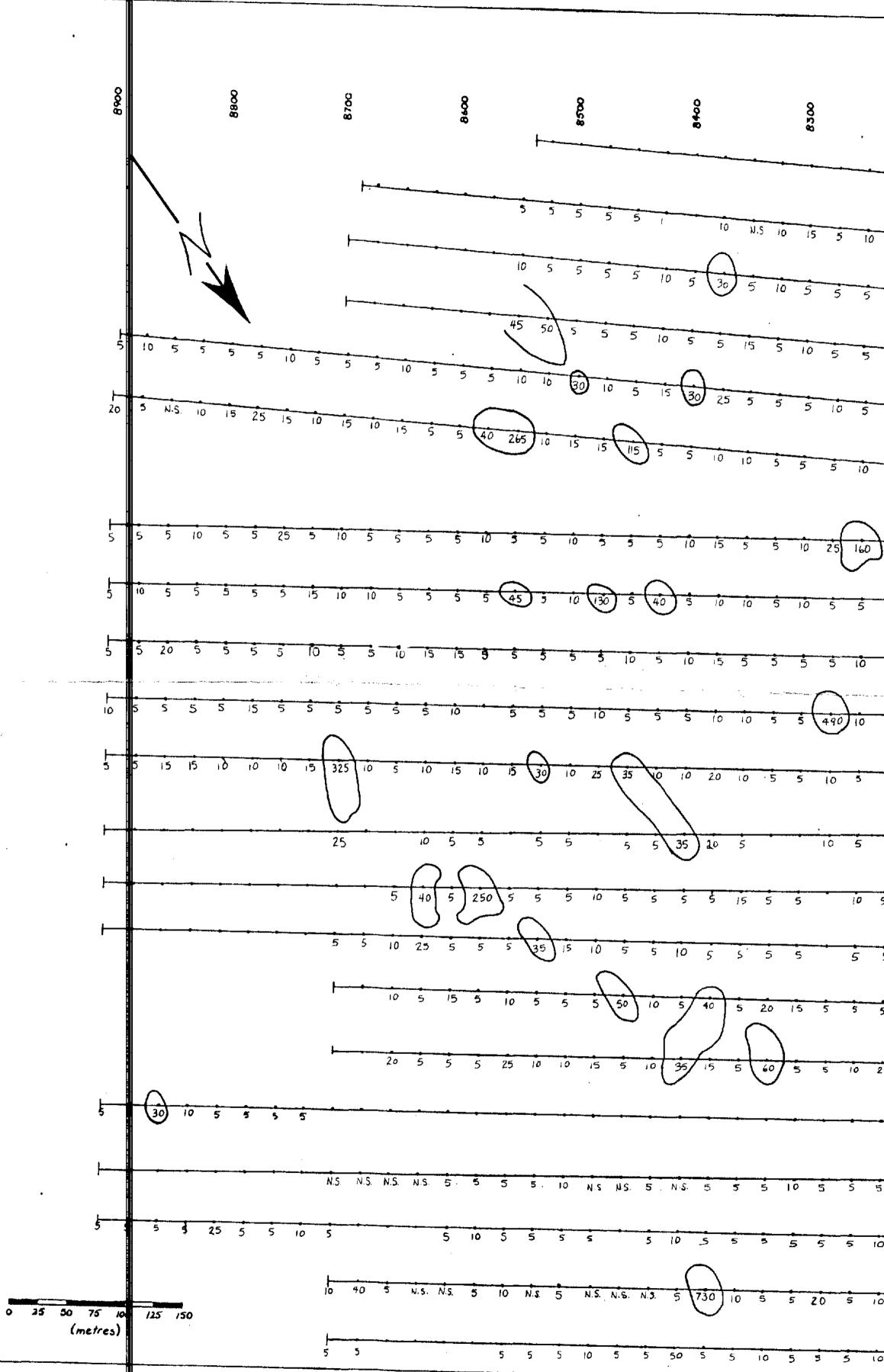
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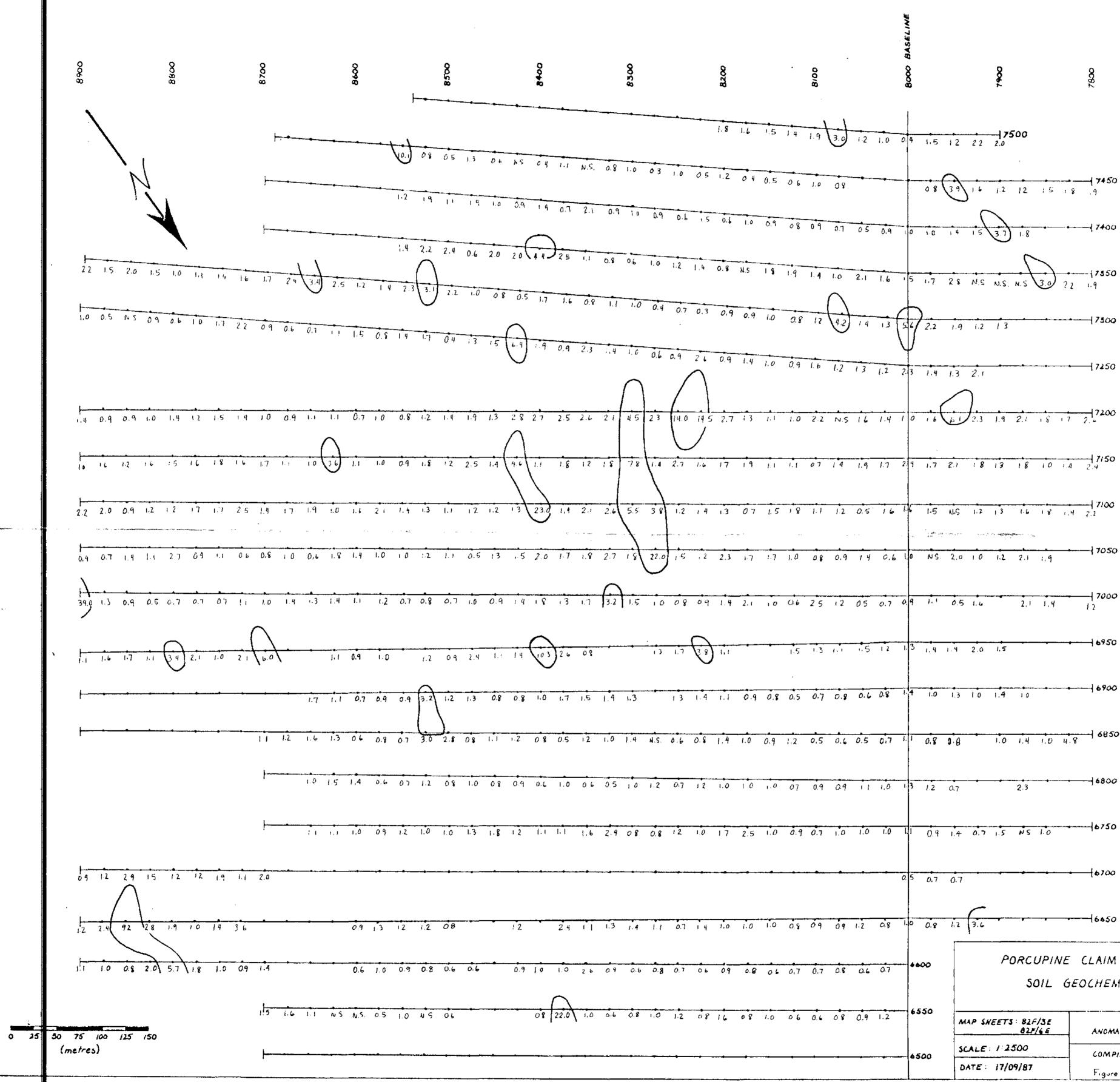
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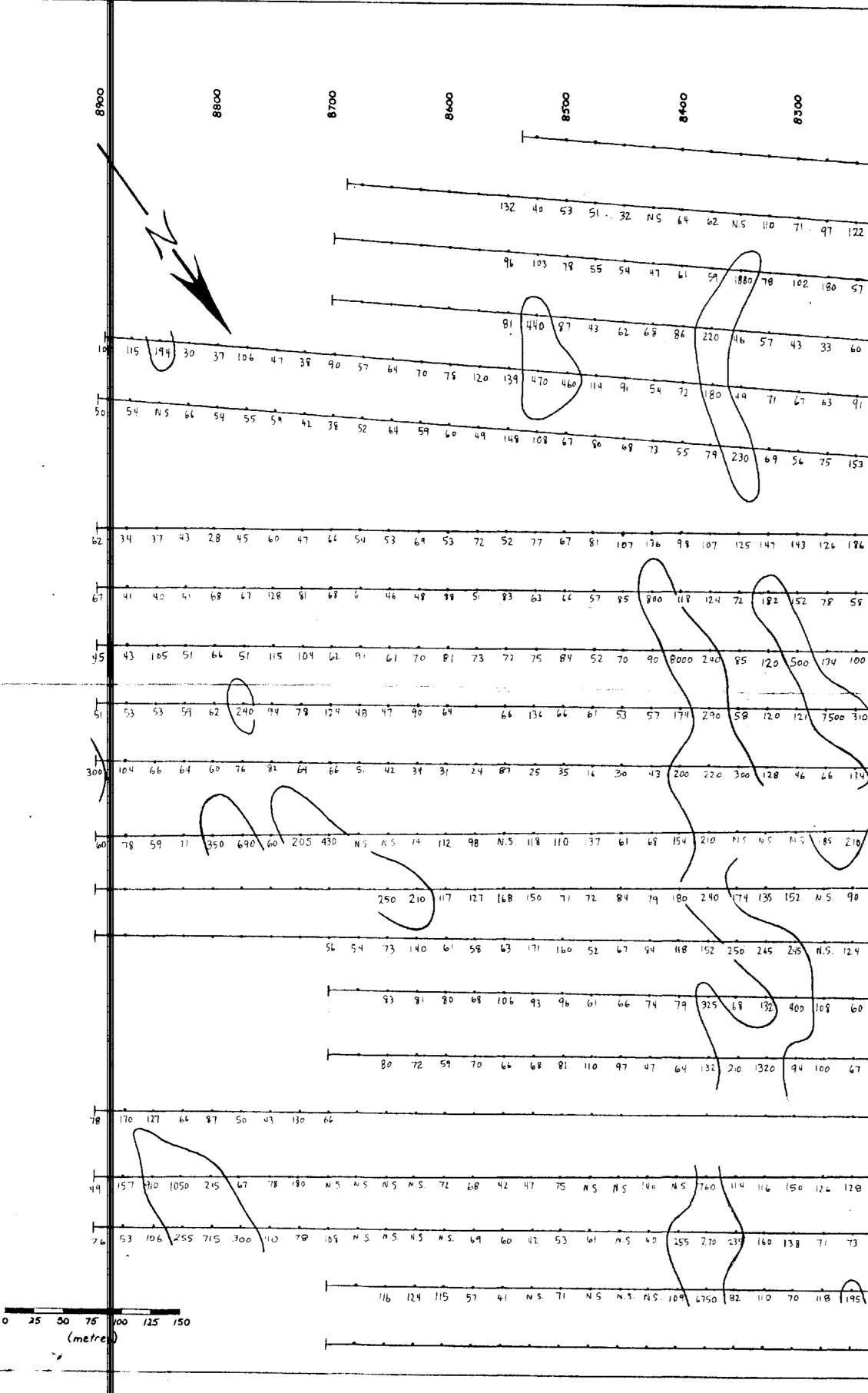


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		BOOD BASELINE	r	
8200	00/8	8000	1400	280 00
5 5 10	5' 5 5 10 5	5 5 5	5 5 5 5 7500	
.	5 5 15 10	5	10 5 5 5 10	5 5 7450
	5 10 65 5 10	70 5 10	30 5 10 5	7400
5 10 5 N.S. 5	5 10 5 5	5 5 15	5 N.S. N.S. N.S. 5	10 5 7850
	5 10 5 5 10	10 15 5	10 10 10	
5 5 10 10	5 5 10 5	5 5 20	10 15	7250
0 5 5 15 5	5 10 15 N.S. 5	5 5 5	10 5 5 5 5	10 5 7200
5 5 10 5	10 5 5 5	10 5 5	5 10 5 5 5	5 37150
5 5 5	5 5 5 5	5 5 5	N.S. 5 10 5 5	
5 5 10 5	····	5 S N.S.	5 10 10 5 5	
10 5 5 5			5 10 5 5	
15 10 5 5 5 10	5555 , 5555		5 5 5	
	55555		5 5 10 5 5 5 10 5 5	
5 5 10 5			5 5 10 5 5	
25 5 5 5	5 10 5 5 5		0 5 5 5	• • • • • • • • • •
		5 5	5	···· 67 <i>0</i> 0
5 5 5 5	280 10 5 5	5 5 5	5 10	6650
10 5 5 15	10 5 5 15 5	\$ \$ \$ \$ \$ \$ \$ \$ \$		CLAIM GROUP EOCHEMISTRY
10 10 5 5	5 10 5 15 5	6550	MAP SHEETS : 82F/3E	17,510
10 5 5 10	10 5 5 5	6500	81#/6E SCALE : 1:2500 DATE : 17/09/87	ANOMALOUS AU > 30 ppb COMPILEO BY: GEN. Figure 3

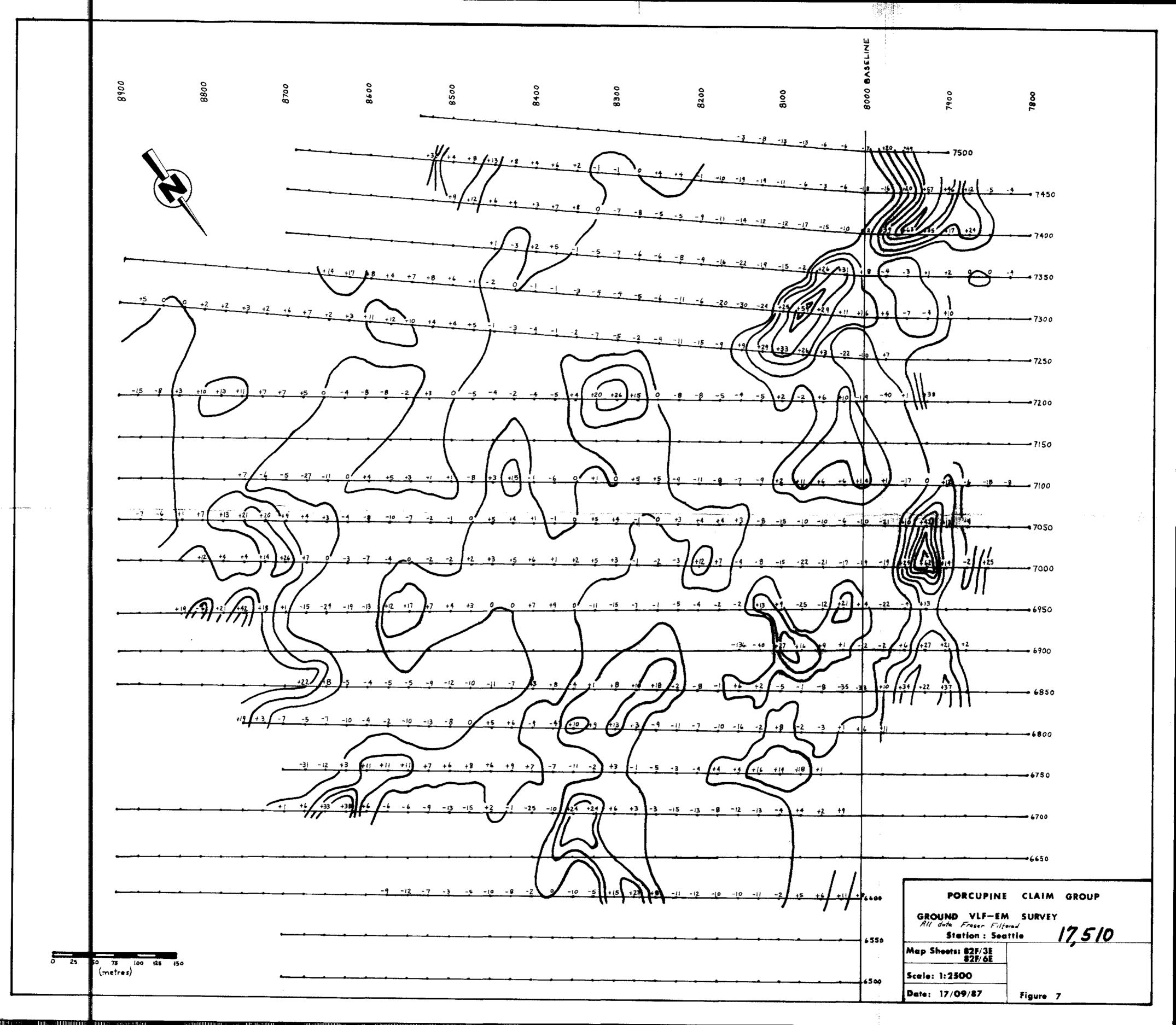


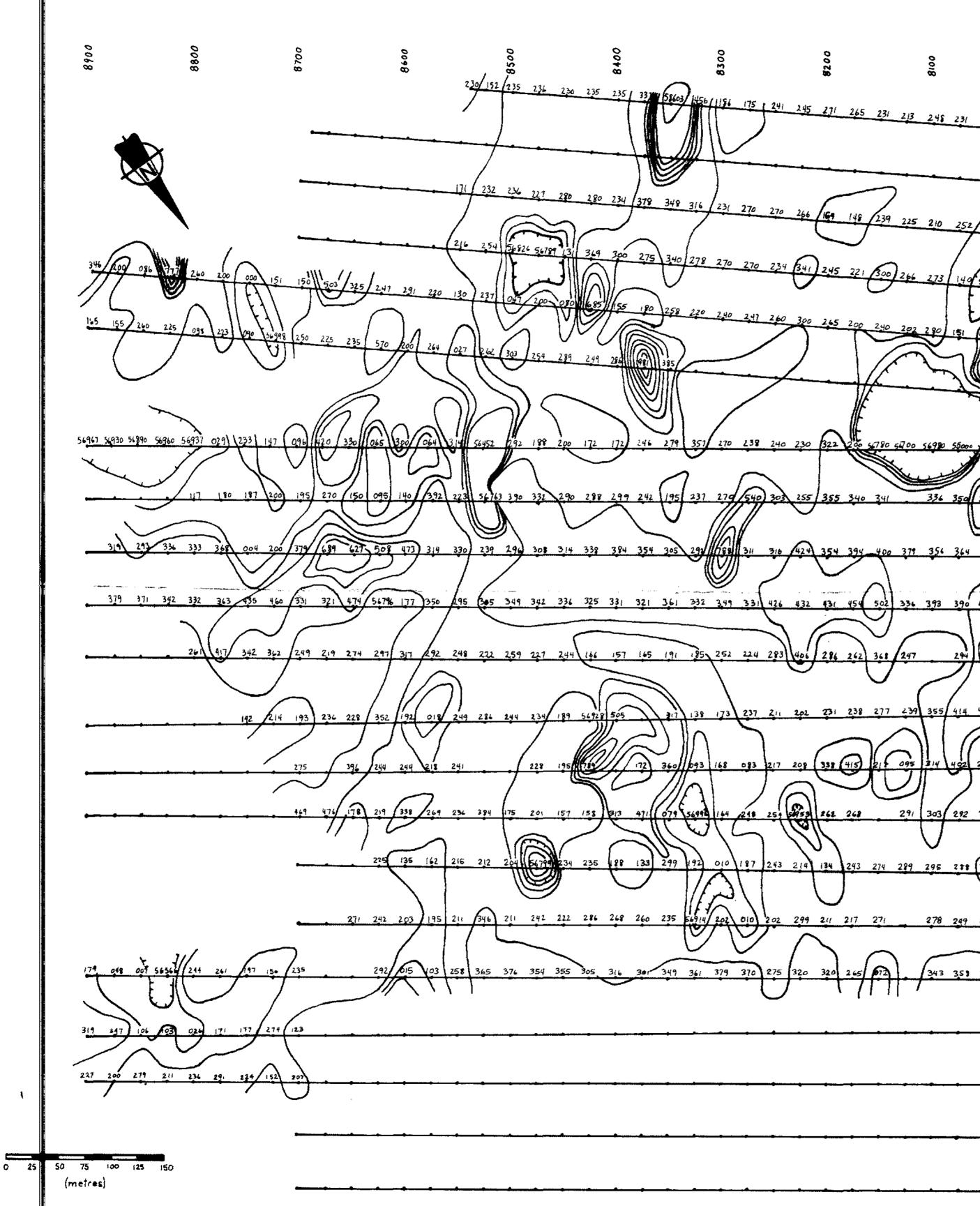
3/00 1.8 1.6 1.5 1.4 1.9 3.0 1.2 1.0 0.4 1.5 12 22 2.0 10.1 08 05 1.3 06 NS 04 1.1 N.S. 0.8 1.0 03 1.0 05 1.2 04 0.5 06 1.0 08 08 08 08 39 1.6 1.2 12 15 18 19 1.2 19 11 14 1.0 0.9 14 0.7 2.1 0.9 10 0.9 0.6 1.5 0.6 1.0 0.9 08 09 0.7 05 0.9 10 1.0 14 15 3.7 1.8 1.4 2.2 2.4 0.6 2.0 20 44 25 1.1 0.8 0.6 1.0 1.2 1.4 0.8 N.S 18 1.9 1.4 1.0 2.1 1.6 15 1.7 28 N.S. N.S. N.S. 3.0 22 1.9 4) 2.5 1.2 1 4 2.3 3.1 2.2 1.0 08 0.5 1.7 1.6 0.8 1.1 1.0 0.4 0.7 0.3 0.9 0.9 1.0 0.8 12 4.2 1.4 1.3 5.6 2.2 1.9 1.2 1.3 [7300] A state of the second se 1.7 1.1 0.7 0.9 0.9 3.2 1.2 1.3 0.8 0.8 1.0 1.7 1.5 1.4 1.3 1.3 1.4 1.1 0.9 0.8 0.5 0.7 0.8 0.6 0.8 1.4 1.0 1.3 10 1.4 10 1.0 1.4 1.0 4.8 6850 0.8 0.6 - 6800 2.3 -- 6750 0.9 1.4 0.7 1.5 NS 1.0 6700 0.7 0.7 -16650 24 1 1.3 1.4 1.1 0.7 14 1.0 1.0 1.0 0.5 09 09 1.2 0.8 0.8 1.2 3.6 PORCUPINE CLAIM GROUP 6600 0.9 10 1.0 26 09 06 0.8 0.7 06 0.9 0.8 06 0.7 0.7 0.8 0.6 0.7 SOIL GEOCHEMISTRY 17510 6550 1.0 0.6 0.8 1.0 1.2 08 16 08 1.0 06 0.6 08 0.9 1.2 MAP SHEETS : 82F/3E ANOMALOUS Aq > 3 0 ppm 82F/4E SCALE: 1:2500 COMPILED BY: GEN. 6500 DATE: 17/09/87 Figure 4



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83,00 83,00	BOOD BASELINE 1900	1
109 88 62 50 156 41 46 39	3 8 34 40 31 36	
22 90 63 54 47 57 68 44	43 91 73 50 51 47 48 9	7450
57 129 91 112 186 60 200 1		7400
49 43 NO 0	3 5 30 34 45 28 37	
9	24 37 19 N.S. N.S. N.S. 46 63 35	7850
69 50 75 39 38 74 49 43	*P 20 22 34 61	7300
53 162 73 74 38 63 111 53 31 43	118 21 53 30	7250
86 137 55 42 51 45 46 N.S. 52 37	83 38 50 88 95 40 41 52 3	7200
58 108 46 81 36 24 53 18 58 30		7/50
	4 	7100
00 165 96 70 66 45 32 42 41 32	∎ . ಮೆಲ್ ಎಂದಿಕೆಯಲ್ಲಿದ್ದರೆಯ ಹೊಂದಿಕೆಯಲ್ಲಿದ್ದ ಎಂದಿಂದಿ ಎಂದಿ ಎಂದಿ ಎಂದಿ ಕೆಲ್ಲೆಕ್ಕೆಲೆ ನಿಯಾರುಕ್ರೆಯಿಗೆ ಹೊಂದಿ ಕೆಲೆಯಿಗೆ ಹೊಂದ ಕೆಲ್ಲೆಕ್ಕೆ ನಿಯಾಗ ಹೊಂದಿಕೆಯಲ್ಲಿದ್ದ ಎಂದಿ ಎಂದಿ ಎಂದಿ ಎಂದಿ ಎಂದಿ ಹೊಂದಿ ಕೆಲ್ಲೆಗೆ ಹೊಂದಿ ಕೆಲೆಯಲ್ಲಿದೆ. ಇಂದಿ ಹೊಂದಿ ಕೆಲೆಯಲ್ಲ	
310 95 63 51 58 36 35 24 52 26	······································	7050
34) 220 63 96 30 45 64 26 42 30		7000
10 74 48 59 37 39 38 115	4 7 48 93 56 30	6950
0 62 76 63 67 58 76 50 41 37	10 5 39 160 48 72 50	6900
4 158 72 60 49 38 31 34 42 68	7 1 72 60 38 52 41 40 100	6850
		6800
60 76 62 61 42 53 50 44 54 52	4 5 4 9 5 4 66	
7 93 52 48 37 45 26 29 47 75	1 14 126 58 \$1 50 83	5750
<u> </u>	3 6 43 37	700
८ 46 67 70 74 68 61 62 39 54	¢ 43 58 54	•\$50
1 3 84 86 58 60 76 61 57 60 82	- PORCUPINE CLI SOIL GEOCI	
15 57 95 53 48 54 50 70 102 69	6550 MAP SHEETS : 62F/3E	17,510
	6500 SCALE: 1:2500 C	MOMALOUS PE > 180 ppb
	DATE : 17/04/87 \$1	IGURE 5

K 2050 600 215 96 143 N.S. 190 255 N.S. 780 335 250 570 500 730 760 275 400 585 305 470 830 575 1450 000 620 525 590 360 1800 510 150 230 120 165 220 660 390 160 790 220 265 260 410 620 725 110 120 200 260 2 30 360 1680 390 300 470 250 2700 370 410 130 230 480 760 350 270 170 160 360 270 290 N.S. 430 280 320 410 440 410 475 540 780 N.S. N.S. N.S. N.S. A.S. 670 990 1560 330 340 330 90 40 190 210 180 160 130 260 495 220 345 510 3500 190 260 170 235 190 500 240 220 330 140 470 235 160 350 510 345 295 890 720 600 11 80 380 300 870 1020 310 186 N.S. 200 230 220 250 230 ,43 131 176 280 310 140 1100 770 500 380 210 192 185 95 570 370 470 320 370 340 480 520 440 650 1220 1210 1140 460 1000 690 320 930 460 440 380 720 260 250 340 330 310 240 220 240 240 400 110 340 280 230 200 220 220 260 370 250 380 109 320 400 310 460 570 750 690 N.S. 260 750 880 1280 3750 1080 1080 1080 1200 570 370 290 220 180 410 600 380 310 220 190 310 390 460 160 240 240 180 180 220 590 560 360 270 360 350 130 240 270 470 430 420 190 340 290 480 830 5 00 480 780 1100 700 1480 1460 560 360 210 230 220 270 430 330 350 300 220 280 230 220 370 190 170 190 200 160 190 250 1680 560 530 300 390 560 480 440 280 590 950 640 240 330 320 260 158 620 N.3 1390 1750 1380 1400 735 1210 A second sec second sec 270 290 250 360 1390 1000 370 390 330 240 160 250 180 158 180 120 130 170 180 240 620 570 390 290 330 4900 1030 580 1020 720 390 220 220 380 610 440 N.S. 4000 3100 760 990 590 510 360 162 390 340 440 480 540 400 185 183 300 139 110 114 146 110 174 184 320 410 1180 670 400 360 2600 4500 500 440 740 430 1660 210 320 290 350 350 158 1500 670 1150 610 480 255 235 970 610 785 780 1220 1110 680 600 400 295 480 840 1650 345 260 520 570 525 510 810 490 330 300 460 530 255 900 295 885 790 1120 1090 610 475 710 1100 660 790 225 480 640 435 325 460 580 370 430 275 225 240 220 275 590 185 270 650 465 795 1320 590 580 585 580 910 420 450 395 1110 1000 670 900 535 325 430 865 760 570 380 440 215 210 300 325 190 173 285 290 4 05 850 480 1235 10 40 810 360 1400 740 550 530 440 500 560 610 590 690 660 375 860 168 220 580 560 260 245 340 290 163 185 200 280 375 390 340 425 395 690 \$10 310 710 285 390 410 340 \$10 1140 205 590 300 680 1140 300 315 310 290 300 260 195 185 240 245 245 515 1520 510 1370 325 1350 695 460 243 650 260 215 225 250 790 560 152 270 240 1050 560 495 830 610 520 500 310 305 255 225 260 315 680 450 345 375 910 730 290 300 235 230 245 580 295 700 940 660 635 560 1150 PORCUPINE CLAIM GROUP 520 490 440 1200 980 780 700 460 670 175 430 750 930 735 765 760 750 360 325 240 210 320 370 290 300 245 305 265 240 215 325 500 GEOCHEMISTRY SOIL 7.510 6550 520 425 430 250 180 N.S. 335 390 3250 455 500 980 920 480 535 320 370 154 175 280 665 340 560 Map sheets: 82F 3E #2F 3E Anomalous Zn > 1150 ppm 0 25 \$0 75 100 125 Scale: neTers 1:2500 6500 1480 730 380 590 310 120 200 240 290 340 360 Date: 17/09/87 540 1640 410 310 370 360 510 640 630 440 340 215 360 Figure 6





8200 8100 230/152 235 236 235 235 235 337 58603 1456/1186 175 241 245 271 265 231 213 248 231 231 2131115 91 160 210 287 377500 375 2#3 -7400 B41 245 221 1300 273 140 56858 594 445 330 144 176/260 287350 240 247 260 300 265 200 270 000 450 **-**7300 256 206 7250 246 279 357 270 238 240 230 322 200 4780 5000 56980 55000 •7200 540 303 255 355 340 341 336 350 259 286 5 32 - 7150 301 314 338 384 354 305 292 11 311 316 424 354 394 400 379 356 364 346 345 3 7100 and the second sta 502 336 393 390 442 446 7050 ALL ARE COL 294 52 286 262 368 247 167 322 - 7000 ALL VES 138 173 237 211 202 231 238 277 239 355 414 418 164 142 56770 -6950 21 095 314 402 357 421 45: 372 173 0 94 220 356 - 6900 291 303 292 324 025 213 200 287 326 384 265 360 - 6850 10 243 214 134 243 274 289 295 218 324 381 505 6800 1 00 405 488 443 352 339 201 278 249 253 268 - 6750 672 343 351 354 314 361 6700 ⇒6650 PORCUPINE CLAIM GROUP 6600 **GROUND MAGNETOMETER SURVEY** All points 57,000 Gammas inless otherwise labelled Contour Interval = 100 Gommas unless gradient too high 6550 Map Shoots: 82F/3E 82F/6E Scale : 1:2500 6500 Date: 17/09/87 Figure 8