

EXPLORATION FOR ZINC AND GOLD IN SOUTH-EASTERN ONTARIO

SHEFFIELD AND HINCHINBROOKE TOWNSHIPS ARDOCH AREA (CLARENDON TWP.) KALADAR AREA (KALADAR TWP.)

BY

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SUMMARY

Three different sub-projects were investigated. The program was executed as it was proposed in the OPAP grant application, with the exception that the Demars project (Marmora twp.) was replaced by the Ardoch project (Clarendon twp.). Both projects are comparable concerning the objective to find gold and zinc mineralization, however the Ardoch project ranks higher in its prospectivity. The incentive office was informed of this change by facsimile.

The first sub-project targeted zinc (sphalerite) mineralization within marble units in Sheffield and Hinchinbrooke townships. The objective was to cover large areas in order to define possible target areas for a later detailed follow up. The emphasis was to prospect for zinc mineralization. Some areas were transected with geochemical soil profiles to detect anomalous areas. The most promising area appears to be lot 8, concession 12 in Hinchinbrooke township, where a previously unmapped marble unit revealed a marble sphalerite boulder assaying 7% zinc.

The Ardoch project (Clarendon twp.) replaced the Demars project (Marmora twp.) as stated above. The project area contains well documented gold showings. In the immediate vicinity a small gold production was operating early this century. A sphalerite showing is located outside but close to the property line. The project is a joint effort between W. Brack OPAP 92-233 (covering the northern portion of the property and W.Holmstead OPAP 92-83 (covering the southern portion of the property). A detailed geochemical soil sampling survey was completed as well as detailed lithological mapping. The geochemistry is somehow ambiguous. A cluster of overlapping anomalous element concentrations within the northwestern portion of the survey area is also marked by high concentrations of manganese. The ability of manganese to accumulate (scavenge) other metals is well documented in literature. Therefore subsequent work on this anomaly has to be considered with care.

The Kaladar project was a follow up of the program in 1991 (OPAP 91-782 and OPAP 91-245). Several trenches and blast holes were completed across a quartz-sulphide vein. Although the vein shows impressive alterations, analysis of grab- and channel samples did not reveal any significant values of gold. However the trace and indicator element association in blast hole IX and X indicates hydrothermal activity. Further detailed follow-up surveys are recommended.



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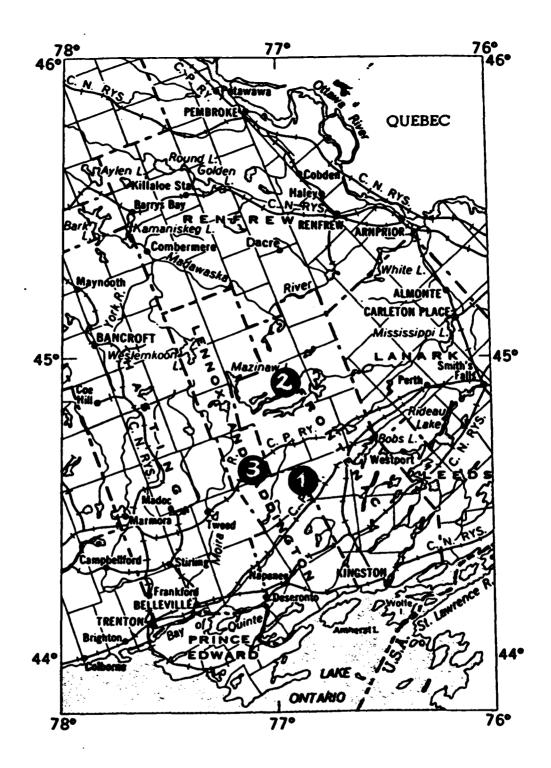
1. INTRODUCTION

This report summarizes the results of the exploration efforts completed by Dr. Winfried Brack in south-eastern Ontario. These activities were supported by the Ontario Prospectors Assistance Program (OPAP) and registered under the file number: OPAP 92-233.

The objectives of the exploration activities were to locate zinc-sphalerite mineralization of economic interest hosted by marble occurrences within the Grenville rock suites of southeastern Ontario and to locate gold mineralization associated with quartz-veining along shears or other tectonical features within meta-sedimentary units or along the contacts with intrusive rocks.

The completed exploration work differs from the original program proposal (see application OPAP 92-233). The Donahu project (Marmora twp.) was replaced by the Ardoch project (Clarendon twp.). The objectives in both projects are gold and zinc mineralization, however the Ardoch project has a significant higher prospectivity. A portion of the funds allocated for the Kaladar project was used for the Ardoch project. Concerning the change of program the Incentive Office was informed by facsimile on October 5, 1992.

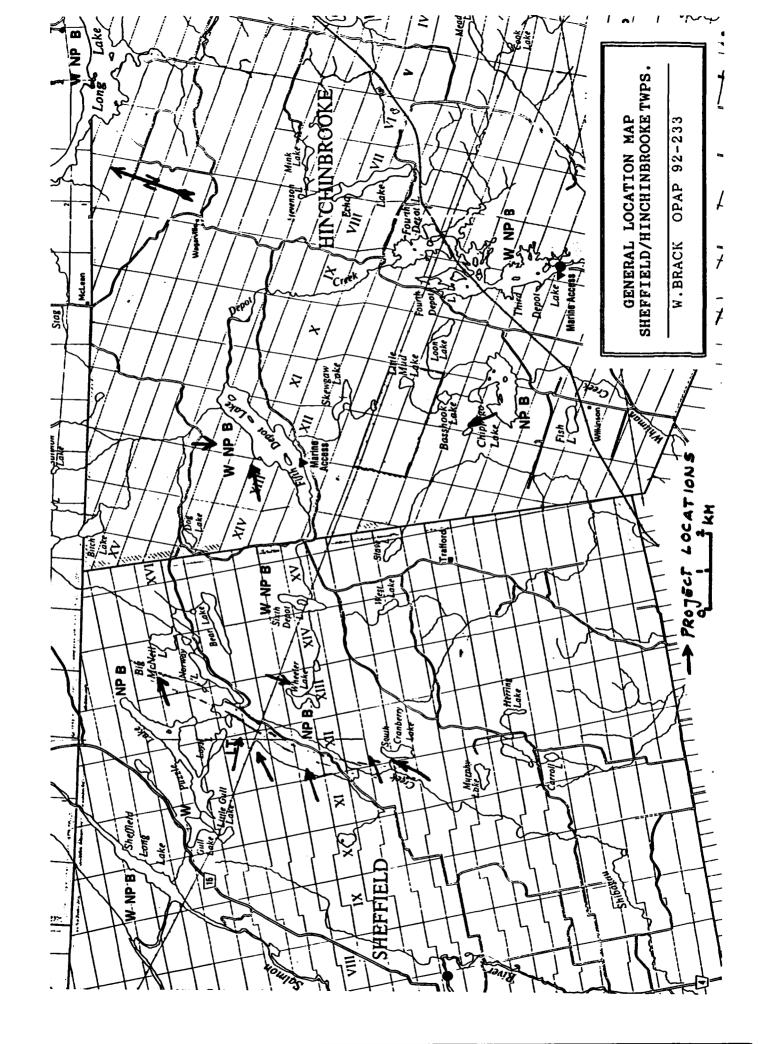
The Ardoch project is a joint project with W. Holmstead (OPAP 92-83). His exploration efforts were mainly directed towards the gold occurrences within the southern portion of the claim group, whereas my concerns where focused mainly on the sphalerite occurrence within the northern portion of the claim group.



GENERAL LOCATION MAP PROJECT AREAS

- 1) SHEFFIELD/HINCHINBROOKE TWPS.
- 2) ARDOCH PROPERTY
- 3) KALADAR PROJECT

W.BRACK OPAP 92-233



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2. Project A: RECONNAISSANCE WORK IN SHEFFIELD AND HINCHINBROOKE TOWNSHIPS

2.1 Sheffield Township

2.1.1 Norway Lake (south)

Location and access:

The Norway Lake south area is located approximately 12 km north-northeast of the village of Tamworth, near Napanee in southeastern Ontario, Sheffield twp. (UTM 4940000N, 345000E). The area is accessible by an asphalt road which leads from Tamworth to Parham. Approximately 3 km east of Tamworth a well maintained gravel road leads north which turns into a dead end beyond the last farm house. This dirt road stretch (approximately 4 km) requires a four-wheel drive pick-up truck. The road ends at Norway Lake.

Geology:

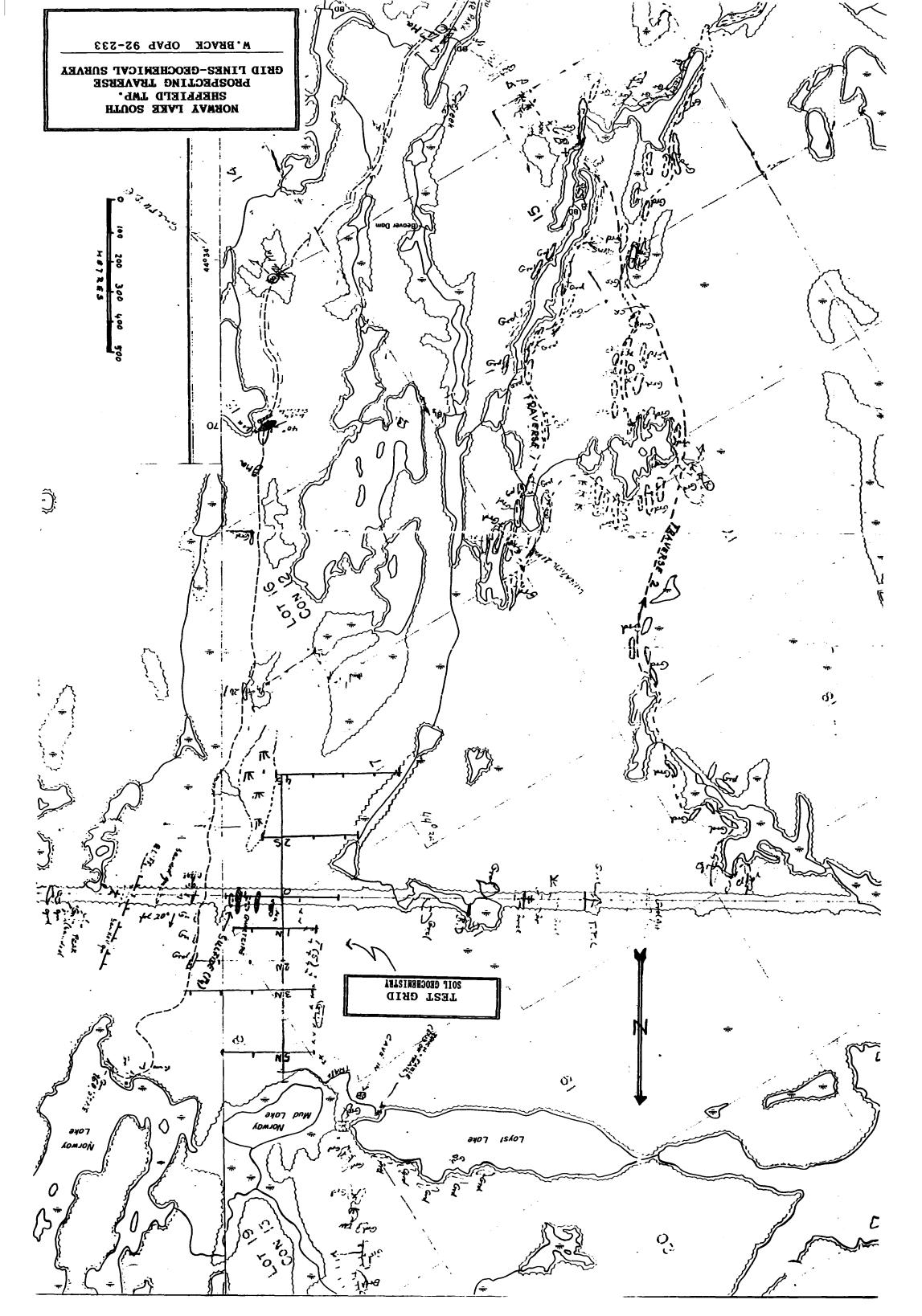
The Norway Lake property is situated in the Central Metasedimentary Belt of the Grenville geological province. The rocks present in the investigation area include biotite-quartz paragneiss, quartz-feldspar gneiss, para- and ortho-amphibolite, calcitic marble and quartz-monzonite intrusive rocks. These units trend \pm north south and dip shallow to the east.

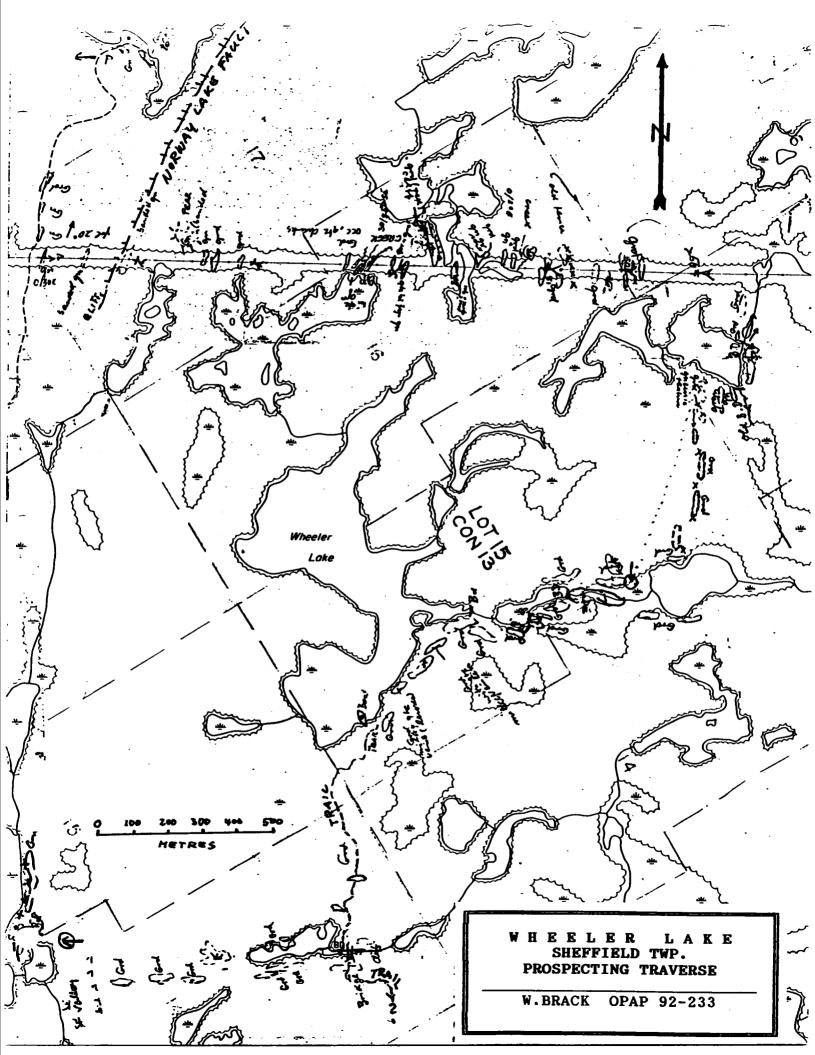
Work done (summary): Orientation survey for access: (16.9.92) Prospecting: 3 traverses Line preparation: 5415 metres (flagged lines) Geochemical soil sampling: 47 samples (for description see 2.3 page 17)

Orientation survey (16.9.92): An orientation survey was necessary to verify the best access to the Norway Lake area. It was discovered that in contrast to some of the existing maps, the access road to the Norway Lake does not continue. For the first ten nights a campsite was selected about 3.5 km south of Norway Lake, since the vehicle was not suitable for the rest of the trail.

Traverse 1 (17.9.92): The traverse started from the access road to Norway Lake approximately 3 km south of Norway Lake. The traverse lead to the west, southwest and northwest from the starting point (see fig. 3)

The lithologies encountered were marble (east of the beaver dam), biotite gneiss (west of the beaver dam) and monzonitic granite (for the remaining traverse). No mineralization was discovered and reference rock samples were discarded.





Traverse 2 (18.9.92): The traverse started at the intersection of the power line with access road to Norway Lake. The traverse lead to the west, approx. 1 km along the power line and then to the southeast were the traverse connected with traverse 1 see (fig.3).

The lithologies encountered were quartz-gneis, a 200 metre wide marble unit and monzonitic granite. Sulphide mineralization was observed within the marble unit. One rock sample was preserved for analysis.

Traverse 3 (19.9.92): The traverse started at the intersection of the power line with the access road to Norway Lake. This time the traverse was directed towards the east along the power line and then to the southwest towards Wheeler Lake and from there towards the southeast. The traverse was then reversed to Wheeler Lake and was consequently directed to the west up to the intersection with the access road.

The lithologies encountered were gneiss of various compositions and monzonite granites. A dominant fault structure was crossed (Norway Lake fault). Marble occurrences were located only within the vicinity of the access road. No samples were taken.

2.1.2 Norway Lake (north)

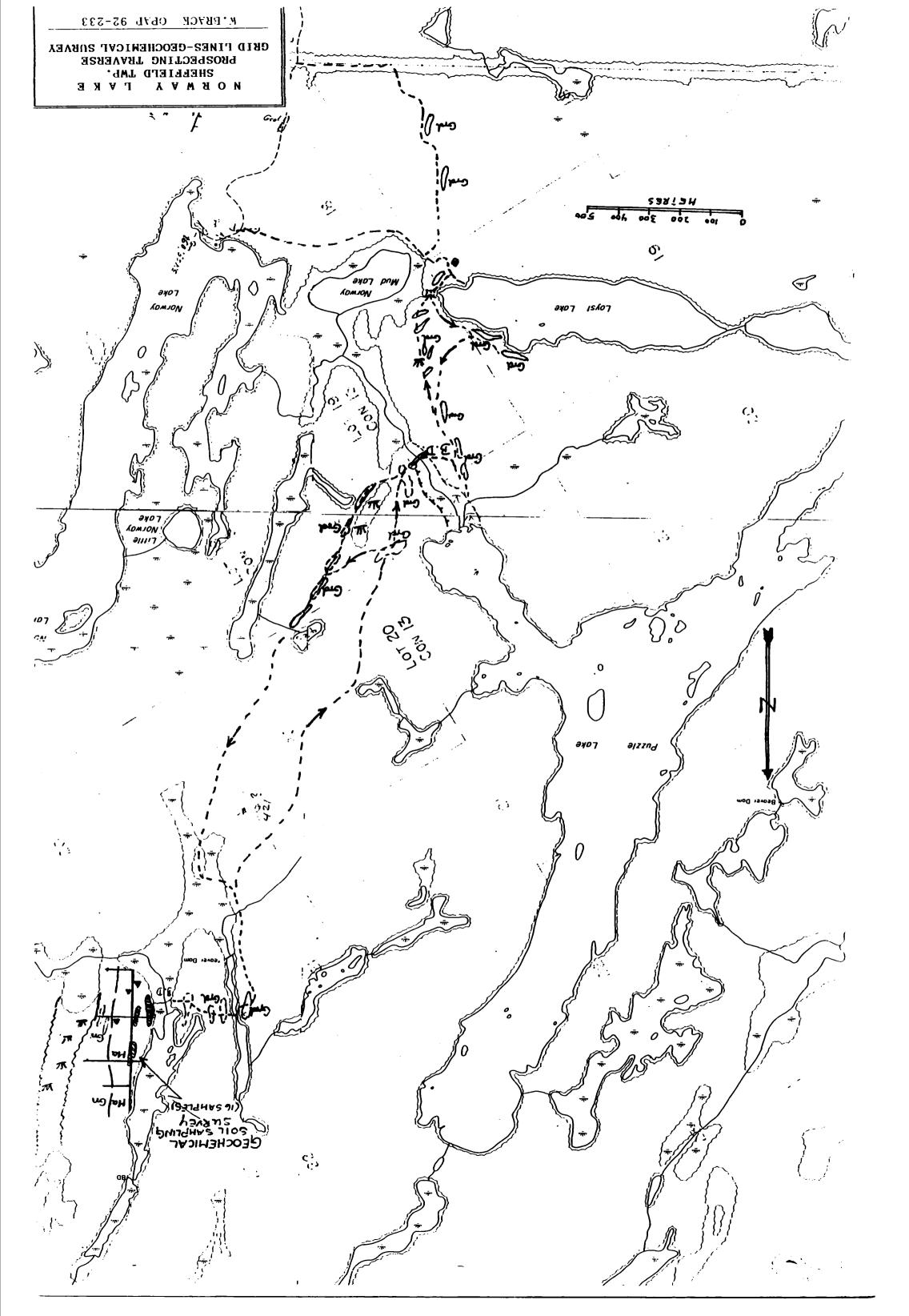
Location and access:

Location and access are the same as described in 2.1.1 The northern portion of Norway Lake is best reached by boat. However extensive swamps mainly to the west make access to the area difficult. Alternatively, a small trail could be taken to Loyst Lake and from there the bush can be walked in a northerly direction. Again swamps make the area difficult to access.

Geology: The geological framework is the same as in the Norway Lake south area (see 2.1.1)

Work done (summary): Prospecting: 1 traverse Line establishment: 925 metres (flagged lines) Geochemical survey: 16 samples

Traverse 4 (20.9.92): The traverse started again at the intersection of the power line with the access road. It followed the power line to the west and then was directed to the north. Close to Norway Mud Lake the traverse crossed a small trail which was followed towards Loyst Lake where the trail ends. The traverse was continued in a north-north westerly direction to Puzzle Lake. There it was partially reversed to the point of a beaver dam. The traverse was recommenced approximately 2 km in a northerly direction. Due to numerous swamps which had to be crossed at specific points



the traverse was reversed with only minor deviations.

The lithologies encountered were mostly of igneous composition predominantly monzonitic-granite. However at the northern end of the traverse a narrow marble unit was located, in contact with gneissic rocks. The unit is surrounded by swamps.

Geochemical soil sampling survey (Norway Lake - north): A small grid was established over a marble occurrence northwest of Norway Lake. A total of 16 soil samples were collected. A separate statistical treatment of these samples would not be meaningful. Therefore the threshold values from the Norway Lake south-grid are applied.

There is no anomalous value for zinc. Sample NP4 is anomalous in copper (67ppm) and sample NP11 is anomalous in lead (48 ppm). Sample NP11 and sample NP16 have anomalous values in calcium (3.47% and 2.71%). At this point the anomalies do not indicate a major source of mineralization.

2.1.3 Cranberry Lake

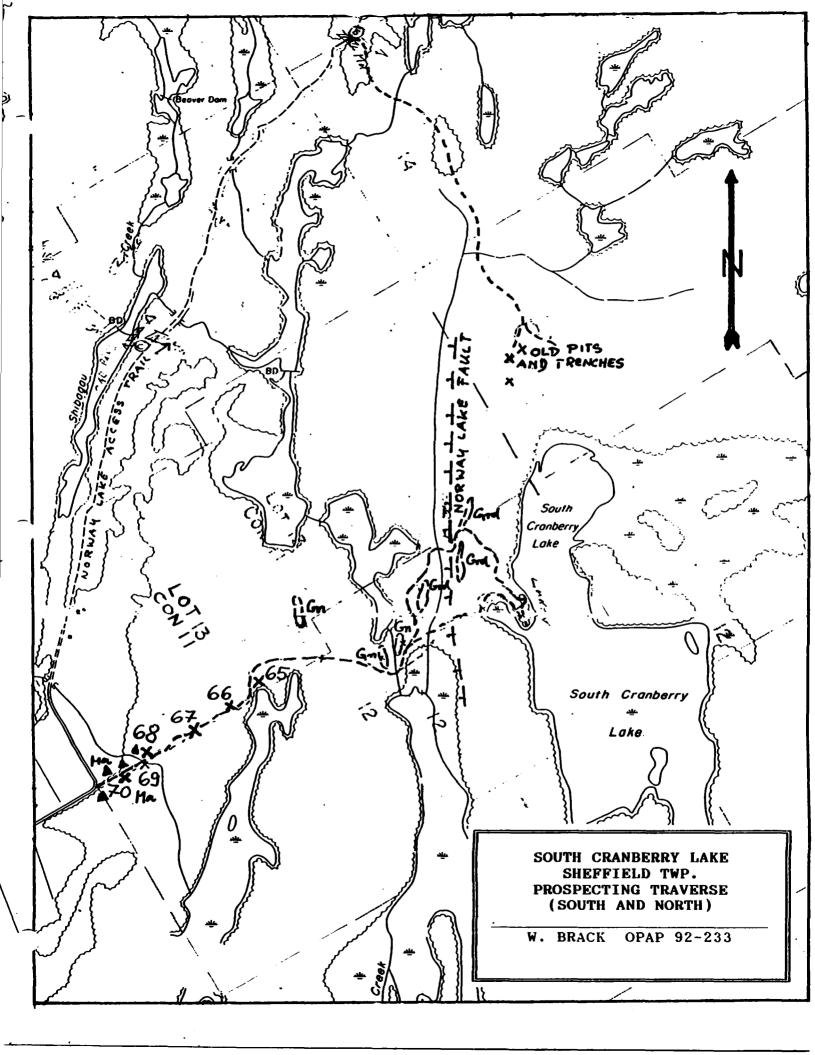
Location and access: Location and access are the same as described in 2.1.1 Norway Lake. The Norway Lake access road is the starting point for the traverses.

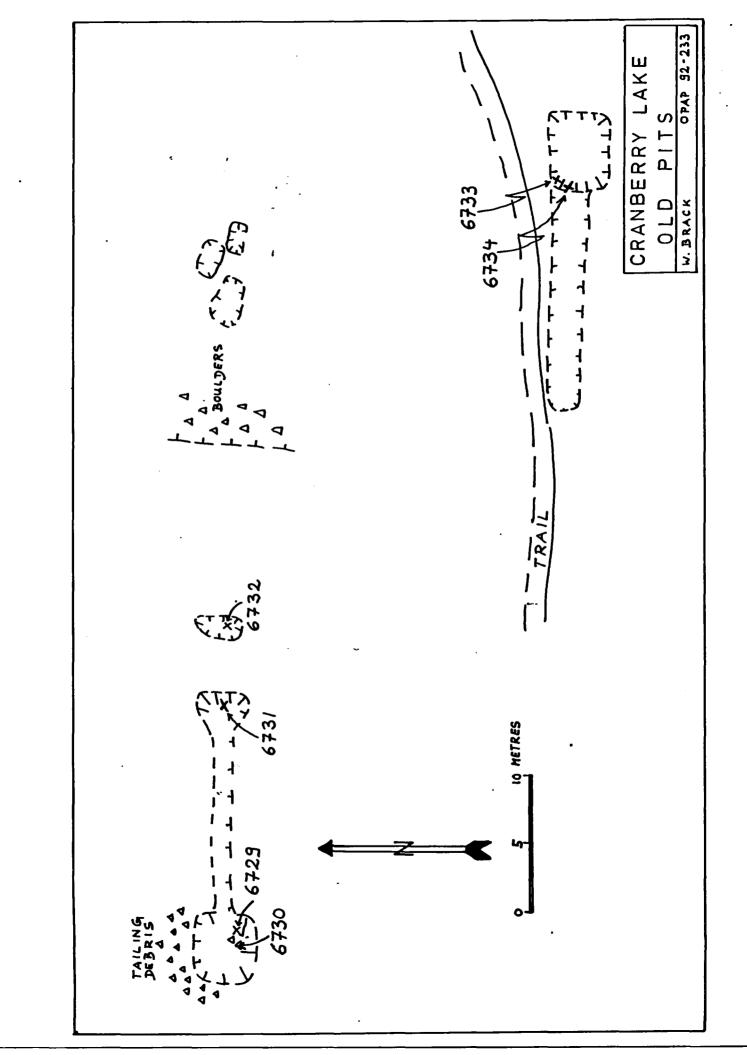
Geology: The geological units are the south extension of the Norway Lake Fault, granite). Norway Lake lithologies (see 2.1.1)

Work done: Prospecting: Two traverses Rock sampling: 7 rock samples Geochemistry: 6 soil samples

Traverse (north)(28.9.92): A Trail deviating from the Norway Lake access road to the east was followed. The trail leads towards the southeast and is directed towards Cranberry Lake. After approximately 1.2 km the trail splits in several subtrails. Here old and unrecorded workings were discovered, They follow the granite gneiss contact and are related to the major north to south striking Norway Lake fault. Within the main pit large specs of molybdenum and disseminated sulphide mineralization were encountered. A plan of the trenches and pits was completed and six rock samples taken for analysis (sample 6729 - 6734)

Results: Significant molybdenum concentration were analyzed from the pit samples: sample 6729 Mo (ppm) = 2664 sample 6732 Mo (ppm) = 672 sample 6734 Mo (ppm) =>10000





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All other metals have very low concentrations (see appendix 1) These molybdenum mineralization along the contact of the granitic intrusive rocks and the meta-sedimentary units are not uncommon in this area. They present usually local features of sub-economic interest at best.

Traverse (south)(5.10.92): A second traverse towards Cranberry Lake covered lot 12 concession 11. The northern fence line was followed for approx. 400 metres. Several swamps had to be crossed before the Norway Lake fault was reached. The traverse was continued to Cranberry Lake and then reversed.

One rock sample (6763) and a profile of 6 geochemical soil samples were taken (sample 65 -70) across a marble unit. Sample 66 has an anomalous value in lead (154 ppm). Sample 68 has an anomalous chromium value (217 ppm), sample 69 has an anomalous copper value (220 ppm) and sample 70 is high in manganese (1473 ppm). The anomalies are rather inconclusive and seem to be isolated values unrelated to other elements within the same sample. The erratic behaviour of the element distribution in the area may be explained by the sample medium which was very high in organic and clay components. However a larger soil sampling survey may define areas of potential mineralization (base-metals). Therefore this area may be considered a medium priority target area for further reconnaissance work.

2.2 Hinchinbrooke Township

2.2.1 Fifth Depot Lake

Location and access:

The Fifth Depot Lake is located in the north-western part of Hinchinbrooke township in the South Western Mining Division of Ontario. The NTS is 31C/10SW.The prospect may be reached from Kingston going north on highway 38 to Parham. From there a secondary, paved country road leads to the west to Tamworth. The road straddles Fifth Depot Lake about half-way between the two country towns.

Geology:

As described in the above sub-projects the geology is marked by intrusive rocks in contact with meta-sedimentary units. In the case of the Fifth Depot Lake area a marble unit approaches the Fifth Depot Lake from the west and reaches the shore line about in the middle section of the western shore line. This unit bends towards the north-east and north before it turns to the west. The unit is approximately 800 metres wide. The unit has the character of a large fold. Large sections of the marble unit is covered by swamp. Work done (summary): Prospecting: 2 traverses Geochemistry: two profiles with a total of 25 soil samples

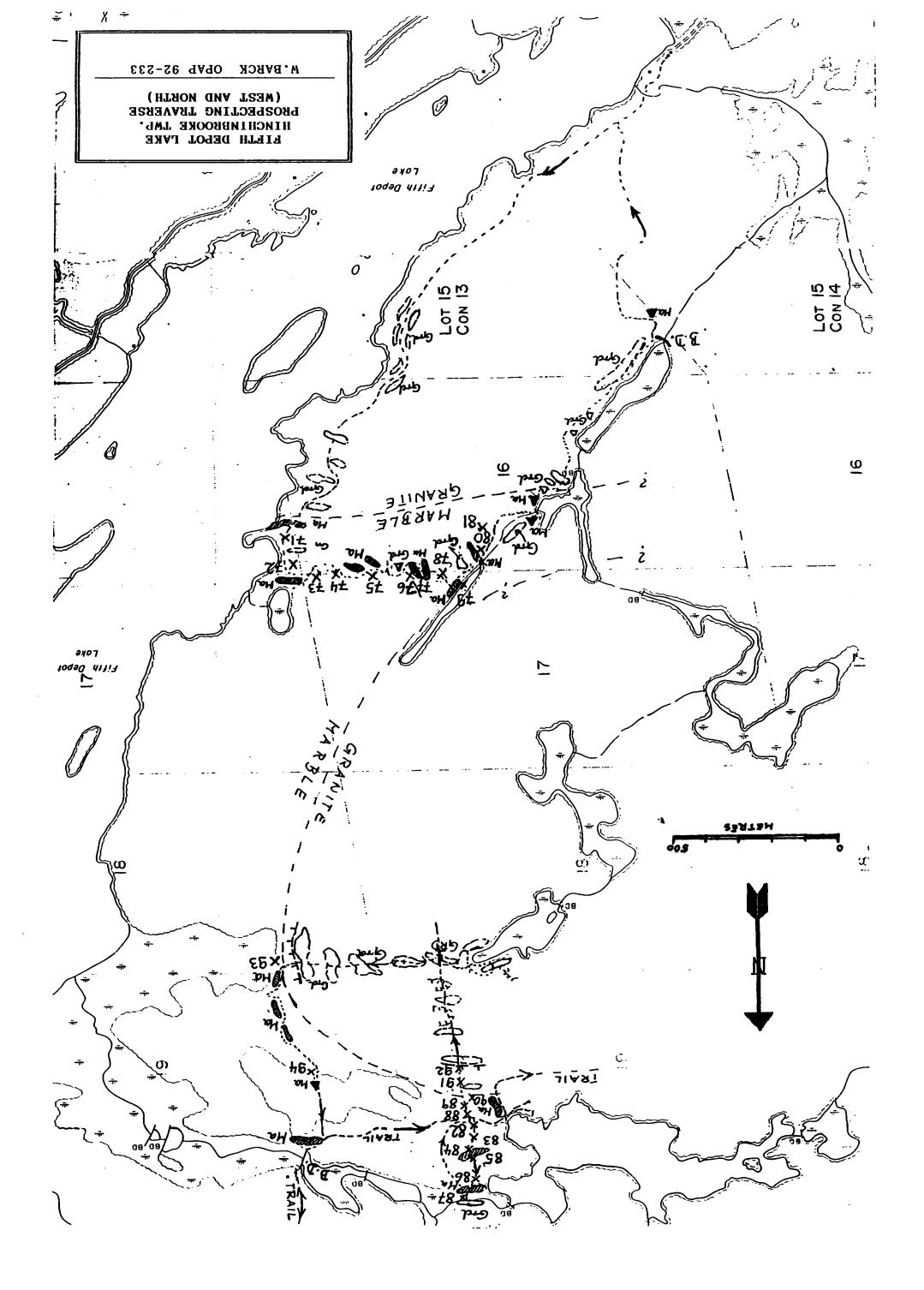
The first (west) traverse (6.10.92) started at the south-west end of the Fifth Depot Lake and followed the shore line in close approximation. About 2 km to the north-east (lot 16 concession 13) a marble unit intercepts the shore line. From here a traverse was paced 270 degree west. The entire width of the marble unit was crossed (approximately 800 metres). The traverse was continued and completed to the south-west). Geochemical soil samples were taken (sample 71 - 81). The preferred location were depressions or edges of slopes. A total of 11 soil samples were collected. Lithologies encountered were granite, marble and gneiss. No mineralization of importance was encountered.

The analytical results of the geochemical soil sampling survey indicate two anomalous samples:

sample	ppm Zn	ppm Mn	
71	1186	3265	
72	2314	2347	

The limited number of samples within this area (25 samples) is not suitable for a detailed statistical evaluation. However, the two above mentioned zinc values are certainly anomalous. The scavenging ability of manganese-oxides is well documented in the geochemical literature. Therefore the zinc anomalies have to be considered cautiously because they may not necessarily reflect zinc mineralization within the vicinity of the sample locations. A detailed follow-up is recommended.

For the second (north) traverse (13.10.92) access was gained via a small country road from the north of Fifth Depot Lake, which deteriorates into a bush trail past the last farm. The traverse followed the trail, first to the south and after passing a beaver dam the trail continues to the west and south-west. A north-south profile across a marble unit was executed (250 metres to the north of the trail and 600 metres to the south of the trail. The traverse was continued to the east, to a low and swampy area which connects with the Fifth Depot Lake. The traverse was then completed to the north. Geochemical soil samples were taken (sample 82 - 94 samples). The lithologies encountered were mainly marble and granite and metasediments. to lesser extent No significant a mineralization was encountered. The geochemical results revealed only background values.



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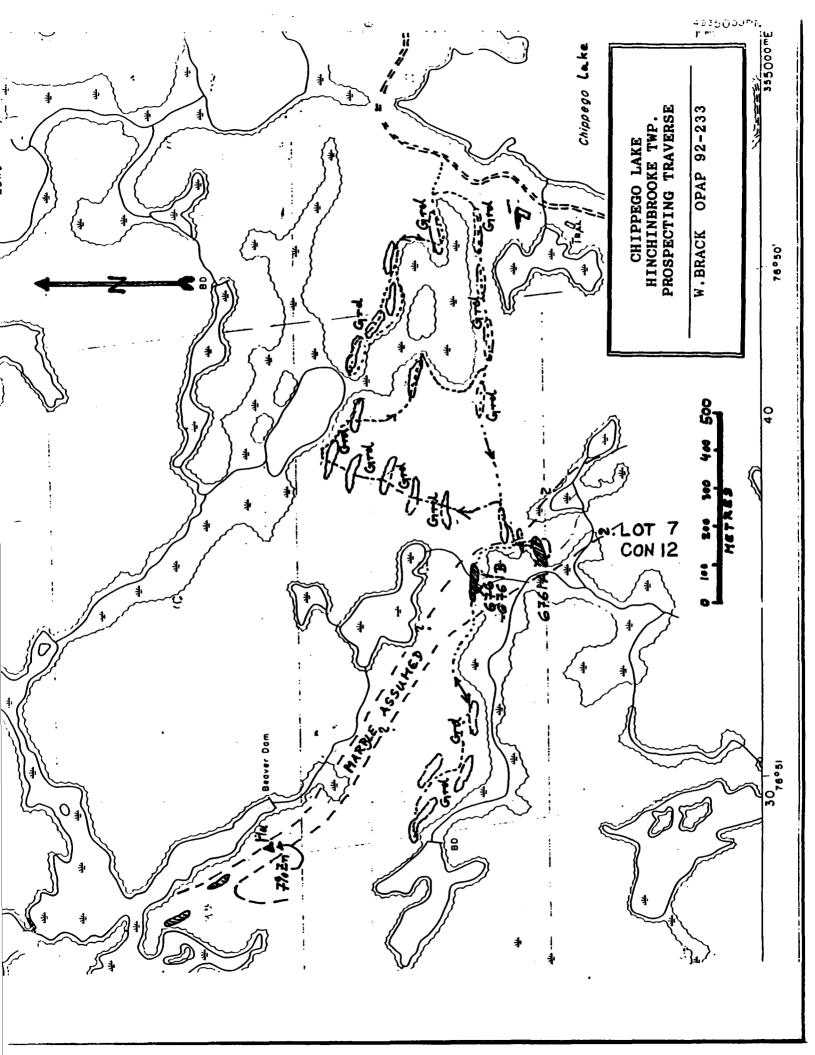
2.2.2 Chippego Lake

Location and access: Chippego Lake is located about 5 km to the south-est from the Fifth Depot Lake. The access is via the country road from Parham which is followed to the west were 0.5 km after Wagarville the road turns further to the south. Shortly before Wilkinson a trail leads towards Chippego Lake. The geographical coordinates are shown on map fig. 9.

Geology: The geology is dominated by granitic intrusive rocks. From a previous survey (Slave Lake OPAP 90-435) their was evidence that an unrecorded marble unit might connect towards Chippego Lake.

Work done (summary): Prospecting: one traverse, 3 rock samples

The traverse (14.10.92) started from the access road at the north-west end of Chippego Lake. First it followed a swampy area to the north-west. The outlet of a lake did not allow for a westerly passage. Therefore the traverse was returned to the starting point and from there continued first to the west and then in a north-westerly direction. The traverse then was returned in approximation of the described path. The lithologies encountered were granite and a marble unit. The marble unit, which to my knowledge was not mapped previously connects to the north north-west into the Slave Lake area (OPAP 90-435). At the south-east extremity of the Slave Lake property (presently held by Willow Resources LTD., Vancouver) a sphalerite mineralized marble boulder was discovered in 1991 and analyzed to contain 7% Zn. Three marble samples were collected and one of them was analyzed (sample 6761). The analytical results were negative. The traverse map shows the assumed boundaries of the marble unit. Since sphalerite mineralization is indicated at the northern portion of the marble band a more detailed investigation of this area is recommended. The southern extension of the marble unit is presently unknown.



2.3 Geochemical soil sampling survey (Norway lake)

The objective of the geochemical soil sampling survey was to discover hidden zinc mineralization within metasedimentary marble intercalations. The second objective was to cover partly an area of a previous geochemical soil sampling survey by St. Joe Canada Inc.(1985) in order to test the precision of the applied method.

Method: The selection of the sample medium is of importance for a meaningful geochemical survey. An orientation study over a known mineralization may determine the sampling technique to be applied. Preferred sample locations were depressions or at the base of slopes. The upper "B" horizon within the soil profile is considered the proper sample medium.

During the geochemical soil sample survey great attention was given to the consistency and uniformity of the sample medium. In order to control the sampling a short protocol was noted for each sample. Locations with water saturated thick organic layers were in contrast to previous surveys not disregarded for sampling.

The sample extraction was done with a narrow bladed garden spade. First the top layer (grass, mulch etc.) was turned over and then a soil profile was extracted. After determining the upper "B"-horizon approximately 150 to 200 grammes of soil was filled in a pre-labelled geochemical soil sample paper-bag. A short description of the sample was given (location, depth of composition, humidity sample, colour, and significant topographic features). Before shipping the samples for analysis they were dried for several days.

Analysis: The geochemical soil samples were analyzed by BONDAR-CLEGG & COMPANY LTD. in 5420 Canotek Road, Ottawa, Ontario K1J 9G2. The most cost effective analytical method, the 28 element IPC-atomic emission spectroscopy, was chosen. The analytical extraction method is based on the Aqua Regia Digestion. The analyzed elements and their detection limits are shown in table* (by Bondar-Clegg 1991). The elements marked with an asterisk may be incomplete in their analysis for certain mineral forms.

*****SEE APPENDIX 1

Statistical data:	Zn	Cu	Pb	Mn	Ca
Maximum value	1887	63	94	5449	1.32
Minimum value	37	2	4	71	0.08
Mean (arithmetic):	242(259)) 17	14	622	0.39
Standard deviation:	370(32)	l) 14	14	959	0.29
Threshold (2xSTD+MEAN):	981(90	1) 45	41	2539	0.97

(in brackets values from the St.Joe Canada Inc. survey (1985), covering the same survey area.)

A comparison with the St. Joe Canada Inc. survey reveals an astonishing precision in the two surveys. The sample density (115 versus 47 samples, covering an equal area) was much higher with the St. Joe survey and therefore their element concentration contours are more defined. The principle difference in the surveys is the sample site selection. Whereas St.Joe Canada Inc.-worked on a systematic grid, the present survey emphasised "ideal sample locations" such as the edges of slopes or small depressions. Latter method is more cost effective since less samples have to be collected and analyzed.

Results: For the interpretation of the analytical results of the geochemical soil sampling survey in the Norway Lake area 5 elements were selected: Zinc, lead, copper, manganese and calcium. Regarding the contour maps for the individual elements it is evident that the various element anomalies (mean value + 2 x standard deviation) are point-anomalies, with the exception of manganese on line -200 (south). The overlap of the individual element anomalies is generally poor.

As for zinc there are two anomalies: sample 33 Line +500 position + 180 Zn(ppm)= 1174 sample 46 Line +200 position + 130 Zn(ppm)= 1887 Both samples had clayish soil with an organic component.

For copper there are two anomalies: sample 8 Line 00 position - 175 Cu(ppm)= 60 sample 33 Line +500 position + 180 Cu(ppm)= 63 Sample 8 was derived from the edge of a swamp and under the power line. A possible explanation for the anomaly could be reducing (Eh) conditions causing precipitation of Cu at the swamp location and / or contamination by the power line. The Cu anomaly in sample 33 overlaps with the Zn anomaly within the same sample (see above). For lead there is one anomaly: sample 24 Line -200 position - 75 Pb(ppm)= 94 The sample is rich in organic matter and it is doubtful if a proper B-horizon was developed in the soil profile at this location.

For manganese there are only two samples statistically anomalous. However several other have values close to the threshold value of 2539 ppm manganese. The two anomalous samples are: sample 33 Line +420 position + 000 Mn(ppm)= 5449 sample 22 Line -200 position + 25 Mn(ppm)= 3801 Sample 22 as well as sample 33 is composed of clay and an organic component. No overlap with other anomalous elements occurs at these sample sites.

For calcium there are 4 anomalous values (the values are in %, however on the map they are shown as Ca(%)x100: sample 33 Line +500 position + 180 Ca(%) = 1.04sample 43 Line +250 position + Ca(%) = 1.325 position + 30 sample 44 Line +225 Ca(%) = 8.60sample 8 Line 0 position - 175 Ca(%) = 1.02

Sample 33 and sample 8 have overlapping anomalous values with other elements such as Cu and Zn. Sample 43 and 44 are isolated Ca-anomalies corresponding to underlying marble.

2.4 Air photo lineaments (Norway Lake)

The basis for this study are air photos at a scale of 1:10,000. The air photos used were numbered: 78-4443 187-256 to 262 78-4443 162- 4 to 6 78-4442 142-121 to 126 78-4441 141-109 to 114 78-4440 191-142 to 147 A TOPCON table stereoscope was used for the stereoscopic

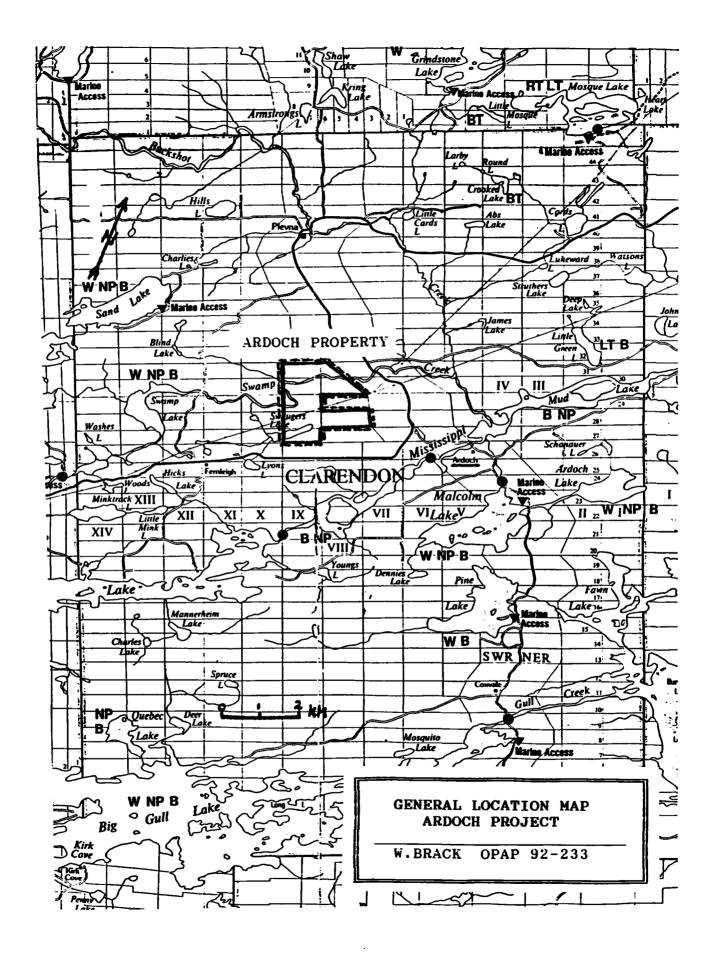
viewing of the air photos. All recognized lineaments were plotted on transparent paper with the exception of areas where the density of lineaments with the same directional pattern would have distorted the importance of such lineaments. Streams and lakes were plotted for reference. In order to correct some of the distortions the reference features were matched with the same features on the Ontario Base Maps in the Scale 1:10000 and the map was then redrawn.

The above described method for the extraction of the air photo lineaments has to be considered as a quantitative approach, since distortions are unavoidable. However, the accuracy should be sufficient for a lineament interpretation and the selection of potential prospective target areas. In principle, an air photo lineament is a line which may or may not have any geological significance. The geological importance of such lineaments increases with the recognizable regional directional pattern or the length of such lineaments, especially in cases where such lineaments have significant morphological or topographical expressions.

Results: The southern portion of the observation area (south of Norway Lake shows a relative regular lineament cross pattern, with short lines. These cross patterns are typical on a regional scale for the underlying granites. However, the pattern is interrupted in the south-centre portion, with lines directed \pm north-south and a significant decrease in the lineament density. This portion is underlain by marble. The Norway Lake fault forms the eastern boundary of this metasedimentary unit. The Norway Lake fault is a landmark and forms a steep cliff, which is easily recognizable in the field as well as on air photos. Another trend in the lineaments is directed 70 to 80 degree (ENE to WSW). In the area of Wheeler Lake this trend seems to curve more to the north. Almost perpendicular to it, at 290 degree (WNW to ESE), occurs another trend, directed towards the south tip of Puzzle Lake. In the lower southwest corner of the map appears a feature consisting of a pronounced north-south line which is intersected by a east-west line (the latter being an uncommon direction in this area). The intersection is marked by a small lake which stretches in all directions of the given pattern. Just to the northeast of this feature an s-shaped lineament occurs which could reflect a fold.

The centre of the map is marked by the west-east stretching of Puzzle Lake, Loyst Lake and Norway Lake. A fault structure was described in the previous literature. Although a strong 70 degree (ENE to WSW) trend is recognized, the air photo did not reveal any single structure which would confirm the Loyst Lake fault.

North of the map centre line (Loyst Lake) the directional pattern of the air photo lineaments is changing. There is a pronounced 45 degree trend (NE to SW) and a 320 degree trend (NW to SE). Within the north central portion of the observation area strong NS directed lineaments are present. This area is underlain by marble and presents the extension of the above described metasedimentary zone in the south.



3.0 PROJECT B: ARDOCH PROPERTY (CLARENDON TWP.)

3.1 Description, location, access and claims

The property consists of 3 contiguous mining claims in the central parts of Clarendon Township, Frontenac County, Eastern Ontario Mining Division in NTS 13C/14, 15. The approximate geographic centre is 44 55'30" latitude and 76 58'00" longitude. The property is located approximately 2 km WNW of the village of Ardoch, which in turn is approximately 200 km north of Kingston, Ontario.

The property is easily accessible by road. From Kingston highway 38 leads to Shabot Lake. There at the intersection with highway seven after 1 km to the west, road 509 leads to the north. After 10 km road 506 leads to the northwest to Ardoch. Road 506 straddles the northwestern and southeastern portion of the property. Several small bush roads and a power line access road penetrate the property. An important power line corridor bisects the central part of the property.

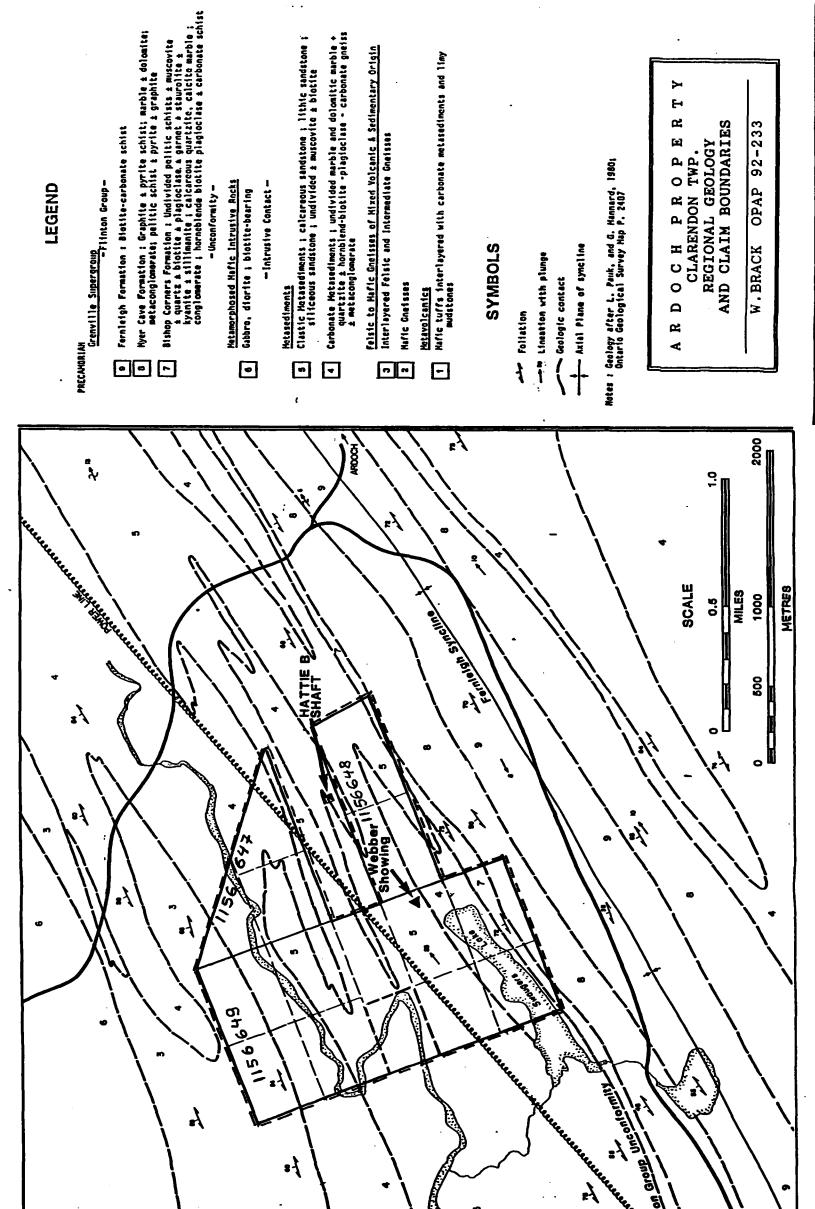
The southern portion of the property consists mainly of open and mature hardwood stands with intermittent grassland, whereas the northern portion is densely wooded such as in the low lying areas around Swamp River where cedar stands are difficult to penetrate.

Three claims have been staked in Clarendon township and are held jointly by Wayne Holmstead (Kingston, Ont.), Gregg Waag (Ottawa, Ont.) and Winfried Brack (Montreal, Que.). The geographical distribution of the claims are as follows:

Claim number:	Units:	Lot:	Concession:
1156 649	3	30,31	VIII
1156 648	2	28	VIII
1156 649	10	27,28, 29,30,31	IX

3.2 Geology

Clarendon Township lies within the Central Metasedimentary Belt and is dominated by Grenville Supergroup rocks of late Precambrian (Helikien) age and by stratified rock assemblages postdating the Grenville Supergroup (Moore and Thompson, 1980).





The regional map originates from a report by Bowen, R.P.P.Ing. A detailed description of the property geology was given by Bowen, R.P. P.Ing. (1988), Allard, P. (1988) and Delisle, J.C. (1989). Delisle, J.C. divides the property into three structural and lithological domains:

1) The local (property-scale) Z-shaped marble fold centred in the middle part of the property with a minor Z-shape drag fold on the lower limb of a large Z-fold. An overturned anticline, the Boerth Anticline to the north part of the Z-fold and an overturned synform. The Swaugers Syncline, to the south, are stressed with D2 folding. This Z-shaped marble fold is located within the Mayo Group. The folds plunge 10 degree to the NNE and locally to the SSW.

2) The Flinton Group unconformity to the south of the property which transects the local Z-shape marble fold at an angle of 30 to 40 degree.

3) The gradational zone between the Mayo Group to the Hermon Group in the north part of the property. The structural pattern is different from the south portion of the property but is still undefined on the property scale because of the lack of outcrops. At the regional scale, it is localized on the southern limb of the Plevna Z-shape fold.

3.3 History of the property

The property history was described in detail by Bowen, R.P. (1988) The following paragraph is a copy of his compilation:

The documented history of the Boerth-Hill property dates back to a 1900 reference in the Report of the Bureau of Mine which reports that two shallow shafts (Hattie B and Uncle Sam) were sunk and a 10 stamp mill erected at the Boerth Mine. The Hattie B shaft was inclined at 65° and sunk to a depth of about 37m with 16m of drifting carried out on the 23m level. The Uncle Sam shaft, located approximately 49m to the south was sunk to about 11m depth. Total production in 1900 was reported as 13 ounces gold. Work was halted in 1901 due to lack of financing.

In addition to the above, the following activities must have been carried out subsequent to the 1900 report by the Bureau of Mines:

- i) development of a 30m long adit located approximately 550m east of the Hattie B shaft area;
- ii) sinking of two shafts (approximately 12 and 7.6m deep respectively) collared between the Hattie B shaft area and the adit;
- iii) numerous trenches and open cuts in the Hattie B shaft area.

In 1950, Bruce Robson acquired the Boerth property by staking and drilled three holes totalling 167m in 1952. All three holes were drilled on the Boerth patented claim. Values up to 18.8g/t across 0.61m are reported from pyritetourmaline bearing quartz veins.

The Ontario Department of Mines mapped Clarendon Township and reported preliminary results in publication P.R. 1951-3.

Stratmat Limited drilled three drill holes totalling 166.2m east of Swaugers Lake in 1952. Assay results from the drilling are not included with the drill logs.

The Ontario Department of Mines published a one inch to one mile regional geologic map of the area, including Clarendon Township in 1956. The map forms a compilation of field work by B.L. Smith and P.A. Peach. The map shows the location of both the Boerth and Webber showings.

The 1963-64 Ganda Silver Mines Ltd. optioned the Boerth property and acquired by staking the adjoining ground. The company carried out a 47 hole, 2,150m diamond drill program in addition to surface prospecting, stripping and trenching. A.C.A. Howe in a summary report dated May 25, 1964 concluded that "numerous high grade, narrow quartz veins have been found on the property spread over a belt 2,000ft. (600m) long and about 300ft. (90m) wide." Howe recommends a program of shaft rehabilitation, drifting and cross-cutting, underground diamond drilling and bulk sampling of the Hattie B shaft. An examination of drill sections of the Ganda Silver drilling indicates that in most cases only quartz vein material was split and sampled. The gold tenor of hanging and footwall material is not known.

The regional geology of the area was compiled by B.V. Sanford and A.J. Baer at a scale of 1:1,000,000 and published as Map 1335A in 1971. The map suggests that the Clarendon area may form part of a northeast trending trough occupied by Helikian clastic and chemical sediments associated with an Helikian volcanic pile that has intruded an Aphebian or early Helikian felsic batholith.

L. Pauk and G. Mannard mapped the Ardoch area in 1980 at a scale of 1:15,840. Their findings are presented in O.G.S. Open File Report 5381.

Kenting Earth Sciences Limited carried out an airborne total field and gradient magnetic survey in the general area in 1984. The airborne data is presented as a series of 1:20,000 scale maps and confirm the northeast trending linear grain indicated by Government regional mapping.

P.S. Barron of the Ontario Geological Survey carried out a compilation of selected gold occurrences in southeastern Ontario including the Boerth and Webber showings in 1985. He concludes that "the majority of mineralized veins occur within carbonate and clastic metasediments overlying volcanic sequences and along the Flinton unconformity." A grab sample collected from the Hattie B dump returned 4.11 g/t gold with trace values in copper, silver and zinc. A

grab sample from the Webber dump assayed 14.74 g/t gold and greater than 1.0 g/t arsenic.

The Ardoch Syndicate carried out a program of ground magnetic VLFelectromagnetic and I.P. surveys over the southern and central portions of the property in 1986-87.

Aurochs Société d'Exploration Minière Inc., worked the property from 1987 to 1989. Geological mapping, I.P.-survey, VLF and Magnetic survey and limited geochemical soil sampling across I.P. anomalies were completed.

3.4 Exploration activity

3.4.1 Grid line survey

Originally it was planned to cut a new grid on the property. Due to an extreme heavy cedar growth, especially within the northern portion of the property line cutting would have been extremely time consuming. After establishing of a view reference lines, the old grid cuttings then were followed and the previous grid by Aurochs Société d'Exploration Minière Inc. was reestablished. In this way the utilisation of previous results was assured.

To revitalize the old grid, the pickets had to be located, marked, erected or replaced. A total of 3.6 km of reference lines and approximately 6 km of grid reestablishment was completed on the property.

3.4.2 Geochemical soil survey

Objective: The objective of the geochemical soil sampling survey was to detect sphalerite (zinc) mineralization within visible or hidden marble lenses as well as other potential precious metals and/or base metal mineralization. Heavy overburden and dense vegetation result in limited geological information. Therefore a detailed geochemical soil sampling survey was warranted.

Method: The sampling technique and the analytical method was the same as previously described in paragraph 2.3 page 17.

Within the northern section of the property a total of 120 soil samples were collected. Originally a total of 99 samples were analyzed. The remaining samples were collected and analyzed later as a follow-up. The sample locations and main anomalies are presented in the compilation map. The following table gives the mean and standard deviation values for all elements of interest. The sample descriptions are provided in appendix 2 and the analytical results are given in appendix 1.

Statistical data:

	Zn	Cu	Pb	Au	As	Hg
Maximum value:	1411	95	126	759	276	2799
Minimum value:	21	3	2	3	5	10
Mean (arithmetic):	216	19	21	16	47	110
Standard deviation:	197	17	17	<u>~75</u>	45	266
Threshold(2xSTD+MEAN):	610	52	54	165	137	643
•	Mn	Ca >	c100	Mg x	100	Ba
Maximum value:	6192	1000)	855		394
Minimum value:	14	18	3	7		20
Mean (arithmetic):	1077	106	5	99		107
Standard deviation:	1208	166	5	110		67
Threshold(2xSTD+MEAN):	3493	437	7	319		242

Results:

The statistical approach for the interpretation of the analytical values for this soil survey is at this point not satisfying as it can be demonstrated for zinc. In order to resolve the situation a meaningful test to determine the sample populations is necessary. If possible the sample populations would then be recalculated for their individual means and standard deviations. Due to the lack of sophisticated statistical software such a procedure is postponed. In the meantime the geochemical data will be interpreted based on previous results in comparable environments.

Zinc: The zinc showing is not reflected as an anomaly. Three samples were taken from the same location just a few metres below the sphalerite occurrence. The A-horizon gave a value of 326 ppm Zn, the B-horizon a value of 410 ppm Zn and the Chorizon a value of 280 ppm Zn. The B-horizon is indeed the best selection. The values obtained directly below the sphalerite occurrence as well as the surrounding values are surprisingly low. One explanation might be that Zn within a carbonatic environment is largely immobile. However this does not reflect experiences within comparable environments. On the other hand the strongest anomaly (1411 ppm Zn - sample 36) is derived from an entirely organic and wet swamp locations. Zinc does precipitate in a reducing environment. The most interesting area appears to be the southern border of the north-west portion of the grid (north of Swamp river) were consistent high zinc values were obtained:

sample:	ppm Zn	sample:	ppm Zn
82	460	83	500
67	757	90	334
93	355	64	1184

Sample 94 with 634 ppm Zn is not directly in line with the above mentioned samples, it should however be considered in a possible follow up. A second grouping of high zinc values occurs in the very south-eastern corner, however the sample locations are at the foot of a hill and at the edge of a swamp.

Copper: Based on statistical considerations a total of 7 samples are considered anomalous in their copper content. They do not form any particular cluster:

```
sample 53
          Line
                 00 position -175
                                     Cu(ppm) =
                                                59
          Line +500 position +180
                                                95
sample 36
                                     Cu(ppm)=
sample 61
          Line
                 00 position -175
                                     Cu(ppm)=
                                                79
                    position + 180
                                                47
sample 64
          Line +500
                                     Cu(ppm)=
sample 92
                 00 position -175
                                     Cu(ppm) =
                                                80
          Line
sample 90 Line +500
                     position + 180
                                     Cu(ppm) =
                                                47
                    position - 175
sample 75 Line
                 00
                                     Cu(ppm) =
                                                50
```

The highest value (95 ppm) was obtained from a sample rich in organic material at the wet edge of a swamp. The absolute values of the anomalous samples may be considered relatively low and most likely do not relate to any major copper mineralization. In conjunction with other elements these copper values may be helpful as tracers.

lead: a cluster of anomalous Pb values occurs in the northwestern portion of the survey area. sample 81 (61 ppm Pb) sample 82 (65 ppm Pb) sample 93 (58 ppm Pb) sample 64 (126 ppm Pb) Although the absolute numbers are not very high the lead concentrations correlate with high zinc, copper, and manganese values.

arsenic: arsenic values are rather flat over the entire survey area, with the exception of sample 64 (876 ppm As). This sample carries anomalous values for Zn, Cu

gold: as with mercury the obvious anomaly is in the very south-east corner of the map (sample 1 / 220 ppb Au and sample / 759 ppb Au). The anomaly is caused by tailings from the former Hattie B-shaft operation. The more promising anomaly is sample 90 with 246 ppb Au (see Cu and Zn-values). Although two check-up analyses failed to indicate any gold values of interest, it is evident that soil samples size of 150 to 250 grams might not be sufficient to compensate for the erratic behaviour of gold (nugget effect). Therefore sample 90 should be considered for a follow-up program. Sample 23 (47 ppb Au) may also be considered anomalous. mercury: the obvious anomaly is in the very south-east corner of the map (sample 1 / 333 ppm Hg and sample 2 with 2799 ppm Hg). This anomaly is caused by pollution through tailings originating from the Hattie B-shaft operation. Further to the west there is a high value 828 ppm Hg (sample 14) which may be related to the above described anomaly (dispersion). However this is not necessarily conclusive since mercury accumulation is common under bog conditions.

barium: the barium values are rather inconclusive and homogenous. Values which are statistically anomalous are erratic and do not relate to other anomalous elements with the exception of sample 81 (283 ppm Ba) and sample 82 (394 ppm Ba).

manganese: the highest concentration of anomalous manganese values are found in the north-western corner of the survey area (sample 81, 82, 69, 93, 64, 95 with values ranging from 3496 ppm Mn to 6192 ppm Mn). Unfortunately manganese has the ability to scavenge other metals and may produce false anomalies. Sample 24 with 4249 ppm Mn is surrounded by several high manganese concentrations just below the threshold value.

calcium and magnesium form an overlapping anomaly within the north-western survey area but slightly north of the anomalous metal concentrations. The calcium and magnesium anomalies may indicate the occurrence of dolomitic marble in this area.

The geochemical survey indicates a cluster of element concentrations within the north-western survey area (Zn, Cu, Pb, Au, As, Ba and Mn). The scavenging ability of manganese diminishes the quality of this anomaly, nevertheless a careful consideration should be given to this particular area.

3.4.3 Geological survey and prospecting

The geological map by Aurochs Société d'Exploration Miniere Inc. is difficult to improve within the southern portion of the property where relative good outcrop exposure allows continuous geological observations. Within the norther portion of the property improvement could be achieved by detailed observations, which however did not change the general geological picture of the property. The geological observations are presented in the compilation map (folder 4).

Traditional prospecting was carried out mainly to cover ground between the survey lines in areas of particular interest, such as: between line 9 and 10E (prospecting and some stripping)

between line 4, 5 and 6E (rusty quartz boulders) between line 3, 4 and 5W (rusty quartz)

The area surrounding the sphalerite showing as well as the

Webber gold showing (southern portion of the claims) were prospected. At the Webber gold showing attempts have been made to clean out portions of the trench bottom. Since no mineralization was visible in the uncovered section, further cleaning of the trench was abandoned

3.4.4 Air photo lineaments

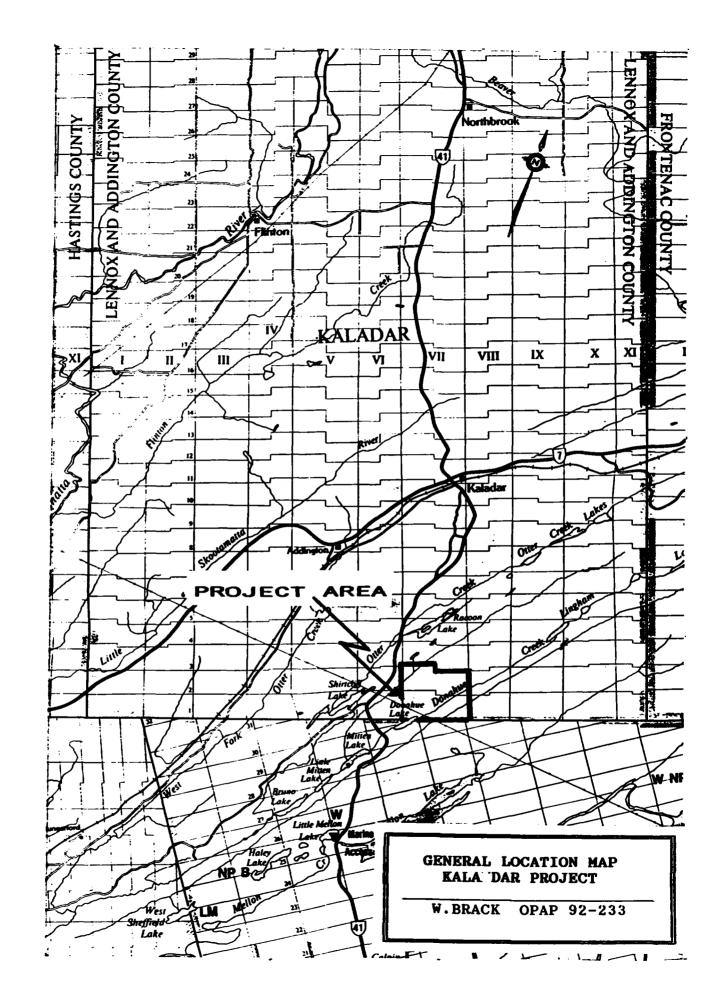
The basis for this study are air photos at a scale of 1:10,000: The air photos used were numbered: 78-4463 78- 47 to 51, 78-4464 160-193 to 198 78-4465 80- 46 to 50 A TOPCON table stereoscope was used for the stereoscopic viewing of the air photos. The method of evaluation is explained in paragraph 2.5

Results: The most prominent structural feature on this map is a synform within the north-west corner of the map. The apex of the synform is marked by two narrow and strongly curved lakes. In the literature this synform is described as the Plevna syncline. A second strongly curved feature appears in the south-west corner of the map. Since it does not form a complete synform (the northern flank is missing) it represents most likely a distant expression of the above described Plevna syncline.

The most frequent lineament strikes \pm 60 to 75 degree and relates to the regional shearing pattern. Other frequent lineament directions are \pm 35 degree (mainly in the northern half of the observation area) and 340 degree. The lineaments with 340 degree tend to be quite long, however they are widely spaced.

One lineament relates to the Webber gold showing (285 degree). At least two additional lineaments are comparable with the Webber structure, one to the north-east and one to the southwest. Both of them as well as the Webber structure have to be considered as highly prospective. The Webber structure relates faintly to the Z-shape bending of the Swamp River. A possible fold structure in the area is not supported by the air photo lineaments.

Two other prominent features described in the literature, namely the Fernleigh Syncline and the Flinton Group Unconformity were not identified with the air photo lineaments.



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4.0 PROJECT C: KALADAR (KALADAR TWP.)

4.1 Description, location and access

The Kaladar project is located in the most south-central portion of Kaladar Twp. within the Southeastern Mining Division of Ontario. The project covers concession VII, lot 1 and lot 2 (see map xx).

The accessibility of the investigation area is excellent. Coming from Kaladar where highway 7 is intersected by highway 41 and following highway 41 approximately 7 kilometres to the south, the property can be reached from the intersection with the Racoon Lake road or approximately 700 metres further to the south were two private trails reach the investigation area. One trail leads to the northeast and north of Donahue Lake to the central portion of the investigation area, whereas the second trail is to the south of Donahue Lake and intersects the southern portion of the investigation area.

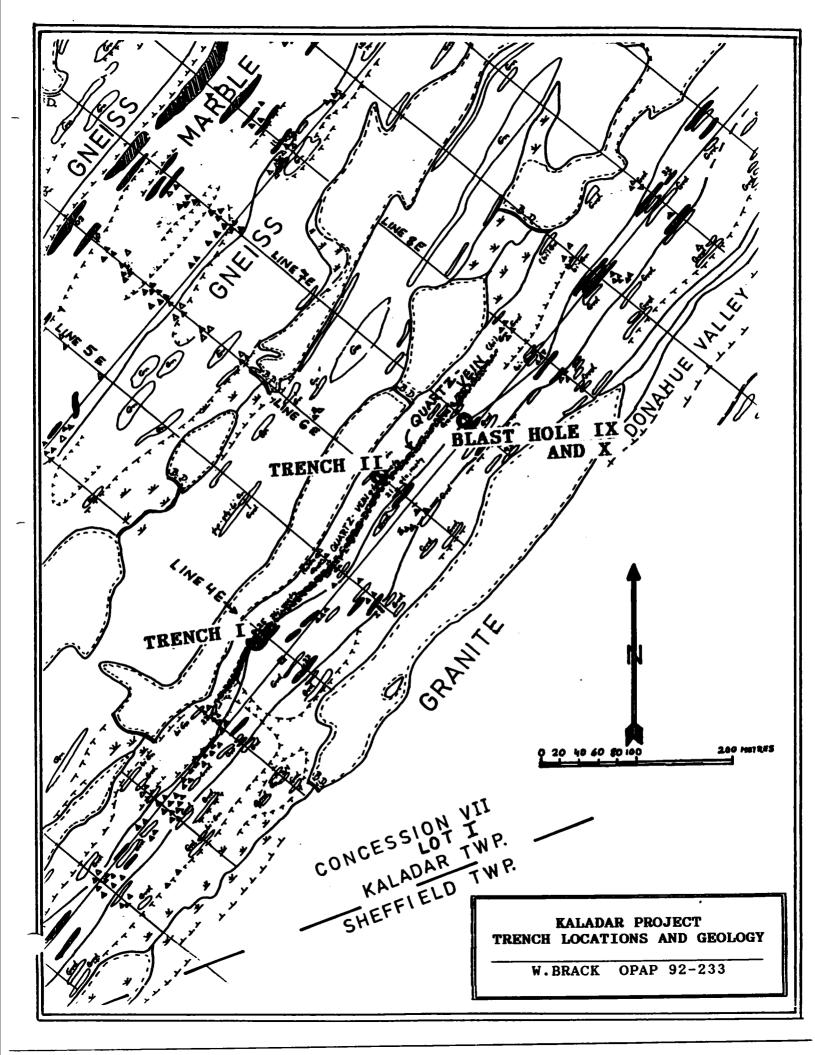
The area is marked by elongated ridges of minor elevations intersected by narrow, shallow lakes and swamps. Most of the lakes are created by the activity of beavers. The vegetation is dominated by hard-wood such as oak, beech, maple and birch with minor stands of spruce and pine. Patches of sumach bushes and alders are common. A hydro power line intercepts the south-west corner of concession XII lot 1 of the investigation area. The investigated lots are Crown land.

4.2 Geology

The investigation area is part of the Central Metasedimentary Belt, Hasting Basin as defined by Wayne-Edwards(1972), and is composed of Late Precambrian meta-volcanic and metasedimentary rocks of the Grenville Supergroup, and Late Precambrian granitic intrusive. Late tectonic pegmatite sheets and dikes cut the supracrustal rocks locally (J.M.Wolff,1982).

4.3 Previous exploration activity

Very limited records do exist of previous exploration activities in the area and particularly on the target area. However, a report by J.D.McCannell for Glenshire Mines Limited (1975) describes a trench within the northwest corner of concession VII, lot 2: "Heavy sphalerite is exposed in an old trench in crystalline limestone in the northwest corner of lot 2 concession VII. A large sample of well mineralized rock from this trench returned an assay of 29.29% zinc, 0.007% lead and 0.04 ounces of silver. The sphalerite was difficult to identify as such with the result that better mineralized pieces were selected more to establish the presence of zinc mineralization than to determine the grade of the material."



In 1991 W. Brack (OPAP 91-784) and Wayne Holmstead (OPAP 91-245) investigated the area and could not confirm the above described zinc mineralization. However they discovered an extended quartz dyke with some low grade gold values associated with geochemical soil anomalies.

4.4 Trenching

Two main trenches and several small test trenches as well as stripping of rock faces were completed across a newly discovered major quartz vein. An additional 10 blast holes were executed to extend the above mentioned trenches where heavy overburden was encountered.

4.4.1 Trench 1

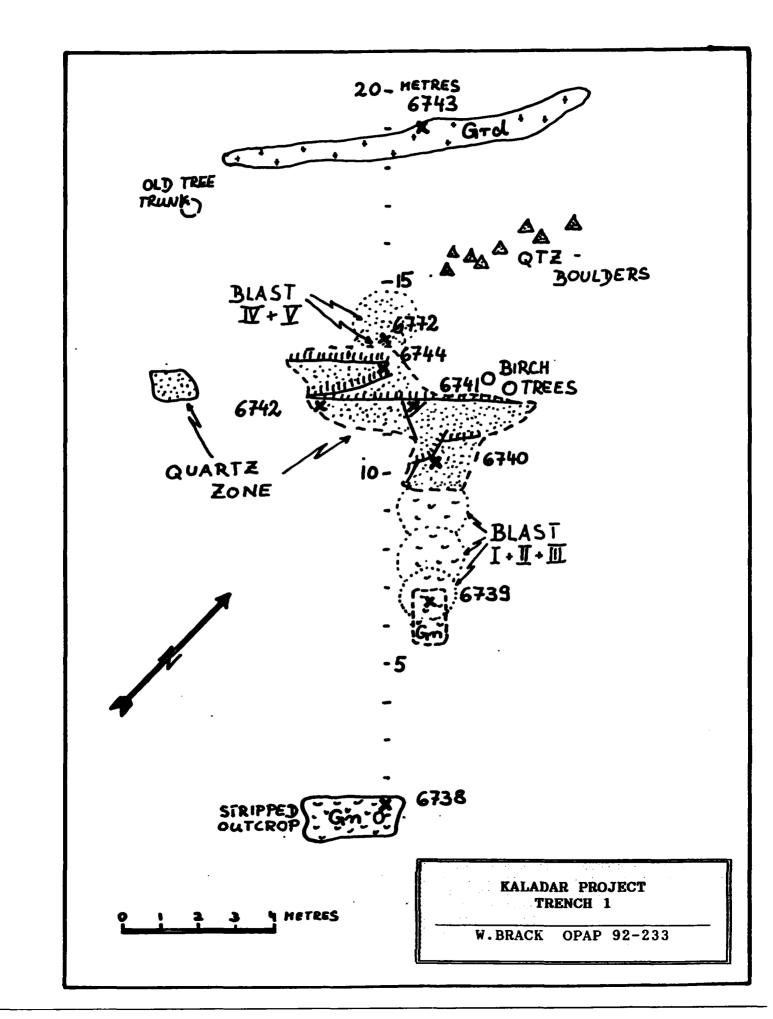
Trench 1 is stationed at 3+80 east, position 3+00 south. The trench is approximately 9 metres long and in the average 1 m wide. The trench is located on the north shoulder of a 100 metres wide and approximately 25 metres high ridge. The quartz vein is partially exposed as a small cliff. A total of 5 blast holes were executed after the first manual trenching in order to penetrate deep overburden cover and to obtain fresh rock samples.

As described in a previous report OPAP 91-782, the ridge consists of a sequence of several narrow bands of granitoid rocks and metasedimentary marble. The trench revealed some additional lithologies, such as grey, fine grained biotite feldspar gneiss, amphibole gneiss with narrow bands of fine grained pyrite mineralization, a several metres wide quartz zone (vein ?) which is generally vuggy (leached calcite cavities or impurities) with considerable amount of rusty red hematite and some impregnations of pyrite. The quartz vein is bordered by a massive band of granite which is then in contact with quartzitic biotite gneiss.

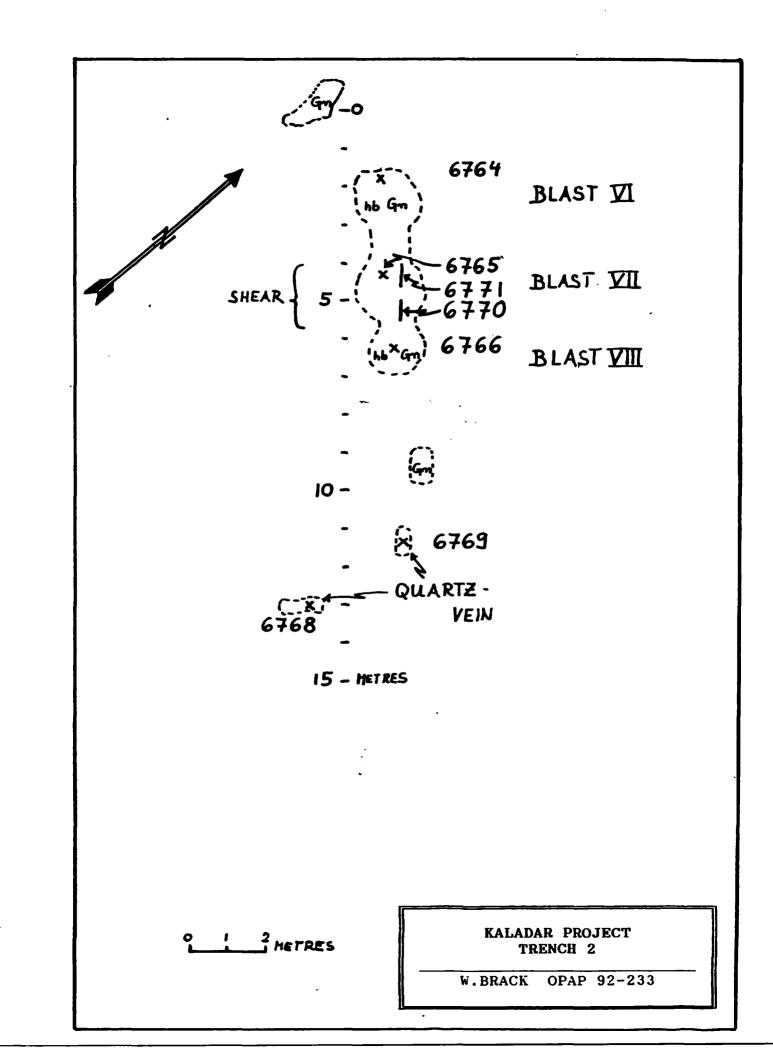
4.4.2 Trench 2

Trench 2 is situated at line 6+00 east, position 3+00 south. The main trench is 5.50 metres long and 1,00 to 1,50 metres wide. Its location is in a flat lying densely wooded area with mature pine trees. The initial trenching was restricted to several hand dug test holes. Three blast holes north of the exposed quartz vein were executed in order to evaluate a geochemical soil anomaly (34 ppb Au), [see OPAP 91-245].

The lithologies exposed in trench II are comparable with the rock suites in trench I with the exception of a 2.5 metres wide shear zone composed of sandy material rich in iron oxide.



-



4.4.3 Blast hole IX and X

Blast hole IX and X are situated at line 7+00 east 3+25 south. Both blasts were executed at the same spot in order to penetrate the deep overburden and to explain a geochemical anomaly (21 ppb Au), [see OPAP 91-245].

The lithology encountered was a deeply weathered metasedimentary marble with rust spots.

Sampling and analytical results:

A total of 16 rock samples have been collected and 14 of them have been geochemically analyzed (see appendix 3). Thinsection were completed from 3 rock samples. The samples taken were mainly grab samples (1 to 2 kg) with the exception of two channel samples across a shear zone in trench II.

The geochemical analysis confirmed previous results (OPAP 91-782) of elevated gold values within the quartz-vein. The best value obtained was 37 ppb Au (sample 6740), which can be considered marginally anomalous. Unfortunately these gold values are not supported by other trace or indicator elements. The exception is sample 6767 (blast hole IX and X). The rust doted marble is elevated in Au (32 ppb), Sb (70 ppm), Te (59 ppm), Bi (28 ppm), Hg (1164 ppm), Zn (2039 ppm), and Pb (203 ppm). Other samples with above background values are sample 6769 (trench I) with Mo (1273 ppm), Pb (130 ppm) and Cu (74 ppm), sample 6764 with Cu (153 ppm) and sample 6771 with Zn (270 ppm) and Pb (124 ppm).



0

0

0

Picture 1: Quartz-vein in trench 1



Picture 2: Quartz-vein hand specimens with various alterations

5. Conclusions and Recommendations:

Within the Norway Lake area (Sheffield twp.) the results are not encouraging. An attempt could be made to further investigate the marble unit in detail. Since large portions of the unit are covered by swamp such an endeavour should take place in winter (deep overburden drilling). The geochemical anomaly at Fifth Depot Lake (Hinchinbrooke twp.) should be verified. The most promising area for the potential discovery of sphalerite mineralization appears to be the previously unrecorded marble unit at Chippego Lake (Hinchinbrooke twp.). A magnetic survey would be helpful to outline the boundaries of this meta-sedimentary intercalation. This could be followed by detailed prospecting, geochemical soil sampling, deep overburden drilling and trenching.

The Ardoch project (Clarendon twp.) requires the evaluation of several geochemical anomalies. Within the northern portion of the property the geochemical soil survey should be extended. A detailed study should answer the question which role (if any) manganese plays in accumulating other metals within this particular area.

Although the quartz vein within the Kaladar project (Kaladar twp.) did not reveal any analytical results of economic interest, it nevertheless remains an interesting exploration target. This is supported by the presence of shear zones, the impressive size of the quartz vein, the widespread but marginal elevated Au values within the quartz vein, but foremost by the anomalous element association in blast hole IX and X. Hydrothermal activity possibly related to the quartzvein injection is indicated. There is a reasonable possibility quartz-vein fills "the main structure" and that the mineralization is situated in subsidiary structures or within the perimeter of the main structure. Stockwork or ore shoot mineralization may be expected.

It is recommended to extend the trenching, especially around blast hole IX and X. A very detailed mapping (eventually 1:1000) with the emphasis on structural mapping may help to identify patterns which are potentially suited for mineralization. A detailed biogeochemical survey may pinpoint additional and covered mineralized areas. References:

Allard, P. 1988 Rapport Geologique Preliminaire de la Propriete Boerth-Hill, Canton Clarendon, Ontario. Assessment Report 2.12051 Mining Land Section, Tweed

Bowen, R.P. Report on the Boerth-Hill Property, Clarendon 1988 Township, Ontario, for Aurochs Société d'Exploration Miniere Inc., internal paper.

- Brack, W. Exploration for Zinc in South-Eastern Ontario, Slave Lake Area, Little Mud Lake Area, Kaladar Area. OPAP 91-782 report.
- Delisle, P.C. Progress Report on the Boerth-Hill Property, 1989 Clarendon Township, S.E. Ontario. Internal report for Aurochs Société d'Exploration Miniere Inc.
- Jowett, R. Report on a Soil Geochemical Survey, Puzzle 1987 Lake Property, Sheffield Township, St.Joe Canada Inc., Assessment report
- Uglow, W. L. 1916 Lead and Zinc Deposits in Ontario and Eastern Canada, OBM Annual Report Volume 25 Pt. 2.

CERTIFICATE OF QUALIFICATION

- I, Winfried Brack do hereby certify:
- 1. that I am a geologist and reside at 34 Birch Hill Rd., Baie d'Urfe, Quebec, H9X 3H8,
- 2. that I graduated from the University in Munich Germany) in 1972 with a degree of "Diplom Geologe" in geology (approx. equivalent to a Master of Science) and from the University of Munich (Germany) in 1977 with a degree of "Doctor rerum naturalium" in mineralogy (equivialent Ph.D.),
- 3. that I have practiced my profession continuously since 1978 and executed exploration work in Canada since 1980,
- 4. that I visited the recorded investigation areas and my report is based upon my personal observations, or otherwise listed in the references.
- 5. that I have a personal floating interest in the described property in Clarendon township.

W. Braly

Winfried Brack, Dr. Dipl.-Geologe

January 26, 1993

APPENDIX 1

ANALYTICAL RESULTS

GEOCHEMICAL LAB REPORTS BY BONDAR & CLEGG COMPANY LTD.



REPORT: 092-42715.0 (COMPLETE)

REFERENCE :

.....

SUBMITTED BY: W. BRACK

DATE PRINTED: 28-OCT-92

CLIENT: GEOBRACK INC.

PROJECT: NONE

			NUMBER OF	LOWER		
ORDER		ELEMENT	ANALYSES	DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold	3	5 PPB	FIRE ASSAY	FIRE ASSAY @ 10 G
2	Ti	Titanium	3	0.01 PCT	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASHA
3	AL	Aluminum	3	0.01 PCT	HF-HN03-HCL04-HCL	INDUC. COUP. PLASHA
4	Fe	Tot Total Iron	3	0.01 PCT	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
5	Hn	Nanganese	3	50 PPN	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
6	Ng	Nagnesium	3	0.01 PCT	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASHA
7	Ca	Calcium	3	0.01 PCT	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASNA
8	Na	Sodium	3	0.01 PCT	NF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
9	K	Potassium	3	0.01 PCT	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASNA
10	Li	Lithium	3	2 PPN	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
11	Sc	Scandium	3	1 PPM	HF-HN03-HCL04-HCL	INDUC. COUP. PLASMA
12	V	Vanadium	3	2 PPN	HF-HN03-HCL04-HCL	INDUC. COUP. PLASHA
13	Сг	Chrome	3	2 PPH	HF~HNO3-HCLO4-HCL	INDUC. COUP. PLASNA
14	Co	Cobelt	3	1 PPN	HF-HMO3-HCLO4-HCL	INDUC. COUP. PLASMA
15	Ni	Nickel	3	1 PPN	NF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
16	Cu	Copper	3	1 PPN	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
17	Zn	Zinc	3	1 рри	NF-HNO3-HCLO4-HCL	INDUC. COUP. PLASHA
18	Ga	Gallium	3	10 PPN	HF-HN03-HCLO4-HCL	INDUC. COUP. PLASHA
19	Sr	Strontium	3	1 PPM	NF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
20	Y	Yttrium	3	5 PPN	HF-HM03-HCL04-HCL	INDUC. COUP. PLASMA
21	Z٢	Zirconium	3	1 PPM	NF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
22	NÞ	Niobium	3	5 PPN	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
23	No	Molybdenum	3	1 PP N	NF-HN03-HCL04-HCL	INDUC. COUP. PLASNA
24	Ag	Silver	3	0.2 PPM	NF-HN03-HCL04-HCL	INDUC. COUP. PLASMA
25	Cd	Cadmium	3	0.5 PPN	NF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
26	Sn	Tin	3	20 PPN	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
27	Sb	Antimony	3	5 PPN	NF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
28	Te	Tellerium	3	25 PPN	HF-HNQ3-HCLO4-HCL	INDUC. COUP. PLASNA
29	Ba	Barium	3	5 PPN	NF-WN03-HCLO4-HCL	INDUC. COUP. PLASMA
30	La	Lanthanum	3	5 PPN	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
31	Ta	Tantalum	3	5 PPN	NF-HNQ3-HCLO4-HCL	INDUC. COUP. PLASMA
32	W	Tungsten	3	20 PPN	HF-HNQ3-HCLO4-HCL	INDUC. COUP. PLASHA
33	РЬ	Lead	3	2 PPN	HF-HNQ3-HCLO4-HCL	INDUC. COUP. PLASNA
34	Bi	Bismuth	3	5 PPN	NF-HN03-HCLO4-HCL	INDUC. COUP. PLASMA
35	As	Arsenic	3	5 PPN	HF-HNQ3-HCLO4-HCL	INDUC. COUP. PLASMA
36	Hg	Hercury	3	5 PPB	HNO3-HCL-SNCL2	INAUL. COUP. PLASHA

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Inchcape Testing Services

REPORT: 092	-42633.0 (COM	LETE)					-	ROJECT: N	ED: 22-0C1 ONE		PAGE 1A	
SAMPLE	ELEMENT	Au	AL	Fe	Min	Mg	Ca	Na	K	Sc	V	
NUMBER	UNITS	PPB	PCT	PCT	PPN	PCT	PCT	PCT	PCT	PPM	PPN	
NV1			3.40	6.18	1230	2.40	0.51	0.05	0.05	ব	88	
NW2			1.67	2.82	291	0.34	0.13	0.05	0.03	ও	46	
MAS			1.30	4.54	558	0.21	0.08	0.05	0.03	ৎ	49	
NL/4			0.99	1.45	634	0.29	0.27	0.06	0.06	ক	26	
WV5			1.29	2.01	525	0.30	0.13	0.05	0.04	ৎ	30	•••••
NUG			0.78	1.42	391	0.26	0.33	0.06	0.05	ৎ	22	•••••
NU7			0.85	1.21	4 5 8	0.19	0.17	0.06	0.06	ৎ	20	
NU8			1.97	3.08	319	1.19	1.02	0.08	0.04	6	79	
NV9			1.07	2.50	827	0.17	0.21	0.06	0.03	ব	34	
NV10			0.53	1.03	122	0.09	0.12	0.05	0.03	ৎ	21	
NV11			0.82	1.26	78	0.21	0.23	0.05	0.03	ও	22	•••••
NW12			1.06	2.38	251	0.17	0.16	0.05	0.03	ব	36	
NV13			1.33	2.08	127	0.24	0.54	0.06	0.04	ৎ	27	
NW14			1.77	2.57	333	0.57	0.23	0.05	0.04	ব	35	
NV15			0.51	1.27	122	0.17	0.17	0.06	0.03	ব	21	
NW16		••••••	1.31	3_44	213	0.53	0.74	0.07	0.13	ৎ	49	
NW17			1.34	2.67	744	0.52	0.20	0.06	0.04	ও	37	
NW18			1.27	1.72	227	0.50	0.65	0.07	0.15	ব	29	
NW19			0.95	1.07	82	0.24	0.19	0.06	0.06	ব	22	
NV20			1.78	1.82	193	0.64	0.35	0.05	0.04	ব	53	
NV21			1.65	3.91	424	0.90	0.83	0.05	0.02	ব	43	
NW22			1.92	3.52	3801	0.39	0.71	0.06	0.07	5	38	
NW23			1.30	1.92	686	0.46	0.34	0.06	0.04	ব	27	
NU24			1.02	2.39	370	0.25	0.11	0.06	0.07	ও	29	
NH25			1.22	2.15	385	0.30	0.16	0.07	0.05	ব	33	
NV26			1.56	2.31	2263	0.47	0.48	0.07	0.08	ব	33	•••••
NW27			1.81	2.53	266	0.42	0.26	0.06	0.05	ব	40	
NW28			1.38	2.26	276	0.49	0.28	0.07	0.06	ও	35	
NW29			1.31	2.30	149	0.41	0.66	0.07	0.05	ও	47	
NW30		•••••	0.93	1.33	203	0.23	0.16	0.05	0.03	ৎ	22	
N¥31			1.21	1.46	340	0.25	0.12	0.05	0.04	ব	22	
NW32			1.57	2.31	226	0.94	0.74	0.06	0.03	ব	39	
NW33			1.92	2.86	1174	1.36	1.04	0.06	0.04	ব	42	
NU34			0.54	1.17	98	0.12	0.15	0.05	0.03	ও	22	
NV35			2.17	3.26	1214	0.85	0.32	0.06	0.05	ব	41	•••••
NW36	••••••	••••••	2.07	4.00	5449	0.64	0.55	0.06	0.04	ব	36	•••••
NV37			0.81	1.50	150	0.21	0.56	0.05	0.02	ব	23	
NU38			1.60	2.79	639	0.33	0.21	0.04	0.05	ব	41	
NW39			1.69	3.51	868	0.31	0.17	0.05	0.04	5	41	
NU40			1.54	2.75	695	0.55	0.18	0.05	0.04	<5	34	

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REPORT: 092	2-42633.0 (COM	PLETE)						TE PRINTE			PAGE 1B	
SAMPLE NUMBER	ELEMENT UNITS	Co PPM	Ni PPN	Cu PPM	Zn PPN	As PPM	Sr PPN	Y PPM	No PPM	Ag PPM	Cd PPN	
		••••		rrn							••••	
NU1		29	34	17	298	24	10	14	<1	0.3	0.2	
NW2		15	16	18	92	6	4	10	2	0.4	⊲0.2	
NW3		11	19	13	224	7	4	3	4	0.4	1.2	
NU4		6	13	8	71	ব	8	7	2	0.2	0.6	
NJ 5		9	13	6	88	ব	5	3	<1	0.2	⊲0.2	
NUG		7	10	10	56	ব	8	5	<1	40.2	0.7	
NW7		6	9	4	51	ক	6	3	1	⊲0.2	0.4	
NW8		12	33	60	61	ব	26	16	2	0.3	0.7	
NW9	•	9	13	12	81	ব	7	7	2	0.3	⊲0.2	
NW10		3	6	4	60	ব	4	5	<1	0.3	0.3	
NV11		7	22	12	70	ব	6	10	4	-0. 2	0.3	
NV12		7	10	6	62	ব	7	5	<1	0.3	0.4	
NV13		7	15	14	61	ব	10	25	2	0.3	⊲0.2	
NU14		9	18	14	118	ব	6	7	<1	0.3	0.6	
NW15		4	6	6	38	ব	5	5	<1	<0.2	⊲0.2	
NW16		10	21	34	135	ব	15	19	3	0.3	1.1	
NW17		11	12	10	135	ব	5	4	<1	0.2	0.8	
NW18		6	14	12	78	ব	13	8	<1	0.3	⊲0.2	
NW19		6	19	17	135	ও	7	8	2	0.3	⊲0.2	
NW20		12	29	39	579	ব	21	7	1	0.4	⊲0.2	
NW21		21	50	20	105	5	18	24	6	0.3	0.8	
NW22		28	45	31	474	5	13	24	9	0.2	2.0	
NU23		8	15	11	136	ব	6	7	<1	0.4	0.4	
NU24		7	16	41	184	18	9	5	9	0.4	2.2	
NU25		8	14	6	79	ব	6	4	2	<0.2	⊲0.2	
NW26	•••••••••••••••••••••••••••••••••••••••	12	15	11	105	ব	12	9	2	⊲0.2	1.0	••••••
NW27		9	14	5	123	6	8	5	1	0.3	0.5	
NW28		11	16	15	364	ব	9	6	<1	0.3	0.5	
NW29		11	19	24	474	ব	21	8	3	0.5	1.6	
NW30		6	9	4	109	ব	5	7	<1	⊲0.2	⊲0.2	
NL/31		7	11	13	88	6	5	5	<1	0.4	⊲0.2	••••••
NW32		10	22	41	662	ব	13	30	3	0.4	1.3	
NW33		15	24	63	1742	5	11	30	<1	0.4	1.7	
NW34		3	5	2	163	ব	6	4	<1	0.3	0.4	•
NU35		13	18	11	591	ব	8	6	2	0.2	0.3	
NV36		10	15	18	383		7	6	2	<0.2	1.5	
NW37		5	7	5	66	<	11	7	1	0.3	0.8	
NV38		16	18	6	178	13	6	4	1	0.3	0.5	
NV39		15	23	15	214	8	6	5	3	0.4	0.4	
NW40		9	15	10	154	<5	6		_	<0.2	1.1	•





REPORT: 092	-42633.0 (COM	PLETE)						OJECT: NO	D: 22-0CT-92 NE	PAGE 1C
SANPLE	ELEMENT	Sb	Te	Ba	La	V	Pb	Bi	Hg	
NUMBER	UNITS	PPN	PPN	PPN	PPN	PPN	PPN	PPN	PPB	
NV1		ব	<10	87	17	<20	11	ব		••••••••
NV2		ব	<10	38	14	<20	8	ব		
NV3		ব	<10	58	7	<20	17	ব		
NU4		ব	<10	64	9	<20	6	ব		
NV/5		ব	<10	55	5	<20	9	ও		
MM6		ব	<10	47	. 6	<20	8	ও		•••••••••••••••••••••••••••••••••••••••
NW7		ও	<10	48	5	<20	6	ব		
NHB		6	<10	146	17	<20	7	ব		
NV9		ব	<10	43	9	<20	11	4		
NV10		ব	<10	38	5	<20	9	4		
NV11		ব	<10	39	13	<20	6	ব		
NV12		ব	<10	50	6	<20	9	ব		
NW13		ব	<10	85	43	<20	9	ব		
NW14		ব	<10	48	10	<20	9	ব		
W 15		ব	<10	23	4	<20	4	4		
NV16		ও	<10	134	23	<20	7	ৎ		
NV17		ব	<10	91	7	<20	7	ব		
NV18		6	<10	157	11	<20	14	ব		
NU19		ব	<10	90	11	<20	10	ব		
NV 20		ব	<10	358	7	<20	26	ব		
NN21	••••••	ব	<10	76	26	<20	13	ব		
NN22		ব	<10	141	24	<20	8	ব		
NN23		ব	<10	64	9	<20	15	ব		
NU24		ব	<10	67	10	<20	94	ৎ		
NW25		4	<10	92	6	<20	8	4		
NW26		ব	<10	122	12	<20	13	ও		
NV27		6	<10	76	7	<20	6	ব		
NV28		ব	<10	82	8	<20	12	ও		
WJ29		5	<10	143	10	<20	8	ব		
NV30		ব	<10	50	8	<20	5	ব		
IN/3 1		ব	<10	56	7	<20	6	ব		
NV32		5	<10	111	28	<20	21	ব		
MJ33		6	<10	122	Ø	<20	30	ব		
NW34		ও	<10	43	5	<20	10	ব		
NV35		5	<10	99	9	<20	20	ব		
NW36		6	<10	209	12	<20	22	Q		
NW37		ব	<10	45	7	<20	7	ব		
NW38		ব	<10	60	7	<20	13	ব		
NW39		ব	<10	59	10	<20	18	ব		
NW40		ব	<10	57	7	<20	13	- ব্য		



Inchcape Testing Services

REPORT: 092	-42633.0 (COM	PLETE)					P	ROJECT: N	ONE		PAGE 2A	
SAMPLE NUMBER	ELEMENT	Au PPB	AL PCT	Fe PCT	M n PPN	Ng PCT	Ca PCT	Na PCT	K PCT	Sc PPM	V PPN	
												••••••
NW41			1.79	3.45	304	0.90	0.32	0.05	0.05	ব	55	
NU 42			1.44	2.39	420	0.78	0.40	0.06	0.05	ক	39	
NH43			1.75	1.62	78	0.35	1.32	0.06	0.03	ৎ	18	
NU44			1.17	2.28	145	0.43	0.86	0.07	0.05	ব	28	
NU45			2.07	2.69	256	0.60	0.27	0.06	0.04	ব	44	
1146			1.73	3.63	445	0.54	0.30	0.05	0.04	ব	42	
NU47			0.80	1.26	71	0.19	0.18	0.05	0.02	ব	22	
NP1			2.20	3.61	1689	1.62	0.29	0.05	0.04	ও	47	
NP2	•		1.01	1.53	808	0.26	0.21	0.05	0.03	ক	26	
NP3			0.74	2.52	159	0.11	0.18	0.05	0.03	ব	54	
NP4			1.77	4.09	425	0.73	0.86	0.06	0.06	<5	54	, .
NP5			1.08	2.08	201	0.38	0.19	0.06	0.04	ব	34	
NP6			1.85	3.11	1433	0.56	0.47	0.06	0.06	ব	46	
NP7			1.24	2.69	1307	0.48	0.30	0.06	0.05	ব	41	
NP8			2.03	1.80	125	0.40	0.14	0.05	0.04	ব	31	
NP9			1.42	2.25	590	0.44	0.25	0.05	0.04	ব	33	•••••
NP10			1.34	2.45	510	0.95	0.40	0.05	0.03	ব	35	
NP11			0.64	1.23	282	1.00	3.47	0.05	0.02	ব	31	
NP12			0.95	1.93	194	0.43	0.31	0.06	0.05	ব	32	
NP13			0.64	1.05	375	0.17	0.15	0.05	0.03	ব	20	
NP14		•••••	1.00	1.53	389	0.28	0.22	0.06	0.05	ব	26	
NP15			0.79	1.09	1143	0.21	0.18	0.06	0.04	ব	19	
NP16			0.50	0.86	355	0.32	2.71	0.06	0.02	ব	z	
A1		220	0.59	1.15	72	0.45	0.18	0.07	0.36	ব	12	
A2		759	0.91	1.68	383	1.08	5.95	0.06	0.54	ব	27	
A3		12	0.63	1.36	133	0.36	0.46	0.05	0.04	4	28	
A4		9	2.03	3.29	997	0.75	0.58	0.06	0.10	ব	52	
A5		10	1.92	3.15	1256	1.04	0.99	0.06	0.14	ব	52	
A 6		8	2.22	5.26	1365	1.06	0.91	0.07	0.28	8	94	
۸7		5	1.79	3.12	713	0.48	0.35	0.05	0.07	ৎ	44	
A8		6	1.23	1.90	223	0.47	0.61	0.07	0.06	ৎ	32	
A9		13	0.19	0.56	14	0.27	5.96	0.05	<0.01	ব	3	
A10		6	0.60	1.44	86	0.19	0.18	0.04	0.03	ব	35	
A11		21	1.21	1.95	502	0.79	0.53	0.06	0.06	ব	37	
A12		9	1.38	2.38	360	0.81	0.65	0.06	0.05	ব	45	
A13		10	1.04	2.01	173	0.75	1.74	0.05	0.04	4	34	
A14		13	1.03	2.23	186	0.46	1.69	0.06	0.05	ব	42	
A15		11	0.19	0.50	270	0.65	5.97	0.06	0.01	ব	3	
A16		8	2.02	2.69	680	0.90	0.53	0.09	0.11	-5	45	
A17		7	1.25	1.95		0.52	0.46		0.05	<5	33	

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REPORT: 092	-42633.0 (COM	PLETE)						TE PRINTE			PAGE 28	
SAMPLE	ELEMENT	Co	Ni	Cu	Zn	As	Sr	Y	No	Ag	Cd	
NUMBER	UNITS	PPN	PPM	PPN	PPN	PPN	PPN	PPN	PPM	PPN	PPN	•••••
NL41		12	18	6	151	ব	7	5	1	0.3	0.4	
NU42		12	15	20	98	6	10	14	1	0.4	0.4	
NU43		7	20	19	47	ব	23	25	1	0.4	0.4	
NLK4		8	17	19	100	ব	13	25	1	0.3	0.9	
NN 45		13	22	16	186	4	8	8	2	0.2	0.4	
NV46		27	224	38	18 <u>8</u> 7	ব	7	15	2	0.4	0.8	••••••
NK7		4	11	4	37	ব	5	9	<1	0.3	0.5	
NP1		15	19	16	195	12	7	5	<1	0.3	0.3	
NP2		5	9	5	69	ব	6	3	<1	0.4	0.6	
NP3		3	5	5	44	ব	9	3	<1	0.3	0.5	••••••
NP4		28	24	67	121	ব	12	29	1	≪0.2	0.3	•••••
NP5		6	10	6	86	5	5	4	<1	0.3	⊲0.2	
NP6		10	15	9	171	9	12	4	<1	Q.3	⊲0.2	
NP7		15	16	9	161	9	8	3	1	⊲0.2	0.9	
NP8		8	17	23	51	5	5	6	1	⊲0.2	⊲0.2	
NP9		8	11	6	123	7	8	3	1	⊲0.2	0.6	•••••
NP10		12	11	13	103	8	7	4	2	0.3	0.9	
NP11		9	9	42	104	8	33	20	<1	⊲0.2	1.2	
NP12		8	10	4	44	ব	8	5	<1	0.2	⊲0.2	
NP13		4	4	2	61	5	5	3	1	<0.2	<0.2	•••••
NP14		6	7	4	48	8	7	5	1	⊲0.2	<0.2	•••••
NP15		5	6	4	54	6	6	5	<1	⊲0.2	0.6	
NP16		4	8	33	134	8	98	15	3	0.2	1.8	
A1		3	7	27	21	83	3	4	<1	⊲0.2	0.2	
A2		6	11	39	92	142	64	5	<1	0.7	0.3	•••••
A3		6	7	4	77	9	6	3	<1	0.3	<0.2	
A4		14	20	23	326	23	12	7	2	0.7	1.3	
A5		14	21	28	410	21	19	11	<1	0.8	0.6	
A 6		23	22	28	280	18	13	15	2	0.8	0.7	
A7		11	14	7	222	17	9	4	<1	0.3	0.6	
A8		8	13	13	47	14	10	10	<1	0.3	0.4	•••••
A9		<1	5	10	48	10	76	3	1	⊲0.2	0.5	
A10		3	5	3	38	ব	5	2	1	0.2	⊲0.2	
A11		10	12	6	112	9	9	6	<1	0.2	⊲0.2	
A12		13	22	16	57	24	8	6	<1	0.5	⊲0.2	
A13		8	10	9	76	17	18	5	1	0.3	⊲0.2	
A14		12	15	14	749	39	32	5	<1	0.5	1.5	
A15		<1	4	13	43	ৎ	208	2	2	⊲0.2	1.3	
A16		11	20	8	111	ৎ	15	8	<1	0.3	0.7	
A17		10	13	3	52	15	9	8	1	<0.2	<0.2	

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REPORT: 092	-42633.0 (CON	PLETE)						OJECT: NO	D: 22-0CT-92 WE	PAGE 2C
	P1 P1 P1		•-	.	• -	•••				
SANPLE NUMBER	ELEMENT UNITS	Sb PPN	Te PPN	Ba PPM	La PPN	W PPM	Pb PPN	Bî PPM	Hg PPB	
NU41 NU42		<5 6	<10 <10	56 73	8 13	<20 <20	17 19	ও ও		
M43		ঁ	<10	103	40	<20	28	ন ব		
M.44		ব	<10	46	29	<20	13	4		
NV45		6	<10	49	12	<20	28	ব		
NV46	••••••	ব	<10	62	16	<20	16	4		•••••
NU47		ন্ট ব্য	<10	36	11	<20	9	ব		
NP1		6	<10	83	8	<20	7	ব		
NP2		ব	<10	56	5	<20	5	ব		
NP3		ৎ	<10	53	6	<20	8	4		•••••••••
NP4		ব	<10	204	31	<20	11	ح		
NP5		ব	<10	40	6	<20	5	ব		
NP6		5	<10	95	7	<20	12	\$		
NP7		ব	<10	96	6	<20	13	ব		
NP8		ব	<10	47	10	<20	7	\$		
NP9		5	<10	72		<20	8	ح.	•••••••••••••••••••••••••••••	
NP10		5	<10	53	6	<20	32	ব		
NP11		6	<10	82	16	<20	48	ব		
NP12		ব	<10	26	6	<20	5	ব		
NP13	••••	ব	<10	28	5	<20	11	ৎ		
NP14		ৎ	<10	38	8	<20	7	ব		•••••••••••••••••••••••••••••••••••••••
NP15		ব	<10	44	6	<20	6	ব		
NP16		ব	<10	115	12	<20	66	ব		
A1		ব্য স	<10	20	6	<20	2	ব	333	
A2		23	<10	74	7	<20	47	<u>s</u>	2799	
A3		ব	<10	56	4	<20	11	ব	53	
A4		8	<10	216	9	<20	20	ব	53	
A5		7	<10	227	14	<20	43	ব	82	
A6 A7		10 -	<10	220	15	<20 <20	14	ব্য - ব	80	
N I		ব	<10	181	8	<20	11	ব	29	
84		ব	<10	91	13	<20	9	ব	35	
A9		ব	<10	157	2	<20	2	ব	133	
A10		ব	<10	24	4	<20	5	ব	11	
A11		- ব্যু দু	<10	132	8	<20	14	ব ব	57	
A12		5	<10	78	7	<20	12	5	93	
A13		5	<10	178	6	<20	10	ব	113	
A14		ব্য ব	<10	48	7	<20	45	4	828	
A15		ব	<10	353	1	<20 <20	7	ব র	185	
A16 A17		া জ	<10 <10	121 79	11	<20 <20	4	<5	35 40	

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Inchcape Testing Services

REPORT: 092	2-42633.0 (COM	PLETE)						ROJECT: N	ED: 22-0C1 ONE		PAGE 3A	
SAMPLE	ELEMENT	Au	AL	Fe	Mn	Ng	Ca	Ka	K	Sc	۷	
NUMBER	UNITS	PPB	PCT	PCT	PPN	PCT	PCT	PCT	PCT	PPN	PPH	
A18		7	0.61	1.91	196	0.16	0.40	0.06	0.03	ব	33	
A19		9	0.59	1.09	77	0.16	1.01	0.05	0.02	ব	29	
A20		8	1.88	3.00	330	0.38	0.27	0.05	0.07	ব	75	
A21		9	2.03	4.68	1528	0.26	0.61	0.05	0.07	ব	65	
A22		8	2.46	3.97	923	0.90	0.60	0.07	0.15	6	81	
A23		42	2.22	4.17	2198	0.52	0.31	0.05	0.11	4	71	
A24		6	1.74	4.12	4249	0.63	1.07	0.07	0.23	6	74	
A25		6	1.91	3.03	731	0.66	0.49	0.07	0.11	ব	57	
A26	-	<u>ج</u>	2.61	5.09	767	0.75	0.41	0.06	0.11	5	92	
A 27		6	1.81	4.35	486	0.34	0.41	0.05	0.06	ব	68	
A28		7	1.79	2.73	336	0.52	0.29	0.05	0.06	4	61	
A29		9	2.46	4.75	188	0.96	1.21	0.07	0.03	9	105	
A30		6	2.52	4.96	333	0.56	0.57	0.06	0.05	7	89	
A31		6	2.23	4.26	673	0.62	0.28	0.05	0.08	5	84	
A32		8	1.59	2.80	934	0.39	0.40	0.05	0.08	ব	48	
A33		5	2.17	3.96	390	0.67	0.33	0.06	0.07	ব	78	
A34		7	1.61	4.14	2497	0.55	0.34	0.05	0.08	ব	68	
A35		ব	1.93	3.25	1678	1.50	1.07	0.07	0.12	4	57	
A36		9	0.22	0.47	85	0.12	5.45	0.06	0.02	5	12	
A37		7	1.54	2.25	735	0.42	0.61	0.05	0.07	ও	40	
A38		7	2.45	3.03	506	0.99	0.92	0.07	0.25	6	49	
A39		7	2.45	3.62	637	0.79	0.66	0.06	0.16	7	60	
A40		6	1.73	3.29	599	0.62	0.26	0.05	0.08	ব	65	
A41		6	1.75	2.73	923	0.46	0.21	0.05	0.06	ব	43	
A4 2		11	1.98	3.75	402	0.61	0.39	0.06	0.09	ও	70	
A43		7	2.18	4.76	285	1.17	0.73	0.05	0.09	11	115	
A44		8	1.55	2.18	106	0.52	0.39	0.05	0.03	ব	39	
A45		9	1.56	2.59	558	0.59	0.44	0.06	0.06	ব	42	
A 46		21	1.75	3.41	1189	0.55	0.71	0.06	0.09	ও	57	
A47		6	1.88	3.32	468	0.86	0.82	0.06	0.11	5	44	
	••••••	7	1.78	4.10	951	0.92	0.58	0.04	0.04	ব	149	
A49		8	1.10	2.70	184	0.27	0.20	0.05	0.07	ব	52	
A50		8	2.13	3.49	488	1.00	0.53	0.07	0.10	ব	54	
A51		8	2.03	3.16	379	0.71	0.47	0.06	0.10	र्ड	49	
A 52		10	2.31	4.74	977	1.39	0.39	0.05	0.08	ব	59	
A53		8	2.40	3.52	532	0.80	0.45	0.06	0.09	ব	58	•••••
A54		11	2.42	3.09	254	1.21	0.30	0.05	0.11	ব	57	

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Inchcape Testing Services

REPORT: 092	-42633.0 (COM	PLETE)						TE PRINTE		-76	PAGE 38	
SAMPLE	ELEMENT	Со	Ni	Cu	Zn	As	Sr	Y	Жо	Ag	Cd	
NUMBER	UNITS	PPN	PPN	PPN	PPN	PPN	PPM	PPM	PPM	PPN	PPN	P
A18		4	6	5	45	12	8	3	<1	0.3	<0.2	••••••
A19		4	5	6	77	12	18	3	<1	0.8	⊲0.2	•
A20		12	23	7	182	72	14	3	3	0.3	0.4	•
A21		11	19	9	440	51	17	7	4	0.6	0.5	•
A22		18	26	27	151	34	17	12	2	0.5	1.0	•
A23			21	11	185		13	8	<1	0.4	0.7	•
A24		21	23	31	174	79	19	25	3	0.6	1.3	•
A25		16	23	20	169	28	11	6	<1	0.3	0.9	•
A26		20	23	15	213	87	12	8	<1	0.5	0.8	•
A27	·	17	21	11	114	114	14	4	2	0.4	1.1	••••••
A28		13	16	7	124	22	9	3	1	0.3	⊲0.2	•
A29		25	28	18	104	38	29	18	2	0.6	⊲0.2	•
A30		28	26	16	83	88	13	15	2	0.9	0.5	•
A31		17	21	11	186	186	8	6	1	0.6	0.5	•
A32		10	16	7	126	31	12	4	1	0.3	<0.2	•
A33	•••••••	13	18	13	132	25	9	5	2	0.3	<0.2	•
A34		21	17	10	218	59	14	3	<1	0.6	0.4	•
A35		11	20	18	215	51	18	18	2	0.5	0.8	•
A36		2	17	95	1411	10	80	3	2	0.8	6.8	•
A37	•••••••••••••••••••••••••••••••••••••••	9	14	14	290	28	13	6	<1	0.5	0.5	•
A38	•••••••	11	22	22	121	17	19	17	<1	0.2	0.8	••••••
A39		15	38	37	139	111	15	22	2	0.4	0.8	•
A40		14	18	17	134	36	8	4	<1	0.3	0.4	•
A61		10	21	7	162	26	8	4	<1	0.2	⊲0.2	•
A42		16	21	21	160	65	10	5	2	0.6	0.3	•
A43		24	27	18	81	46	11	16	1	0.7	0.3	•
A44		13	74	10	106	25	9	9	2	0.5	0.4	
A45		11	19	9	101	40	10	10	1	0.4	0.4	•
A46		13	19	29	130	72	13	16	<1	0.8	0.9	
A 47		11	20	18	203	40	15	12	1	0.4	<0.2	•
A48		11	18	8	243	55	9	3	3	0.4	0.6	•
A49		6	11	5	81	10	9	3	<1	0.3	≪0.2	
A50		15	23	18	104	28	14	11	<1	0.4	0.2	
A51		12	23	14	203	29	36	5	<1	0.5	0.5	•
A52		22	31	59	272	40	11	6	2	1.0	0.3	•
A53	•••••••••••••••••••••••••••••••••••••••	15	21	11	171	17	14	8	<1	0.4	0.2	•
A54		13	24	6	148	8	9	4	<1	0.7	<0.2	•

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REPORT: 092	2-4263 3. 0 (COM	PLETE)						OJECT: NO	ED: 22-OCT-92 NNE	PAGE 3C
SAMPLE	ELEMENT	Sb	Te	Ba	La	V	РЬ	Bi	Hg	
NUMBER	UNITS	PPN	PPN	PPN	PPN	PPN	PPN	PPN	PPB	
A18		ৎ	<10	27	5	<20	10	ও	40	
A19		ব	<10	48	4	<20	8	ব	97	
A20		6	<10	99	6	<20	17	ব	36	
A21		ব	<10	84	9	<20	29	ব	69	
A22		6	<10	118	14	<20	14	ব	84	
A23		ব	<10	87	10	<20	16	ও	90	
A24		6	<10	106	24	<20	18	ব	371	
A25		ব	<10	71	7	<20	11	ব	40	
A26		7	<10	70	8	<20	19	ব	44	
A27	•	5	<10	69	5	<20	27	ব	51	
A28		5	<10	57	5	<20	11	ৎ	24	
A29		7	<10	123	17	<20	9	5	146	
A30		5	<10	63	17	<20	23	ও	130	
A31		5	<10	64	8	<20	14	ব	49	
A3 2		ব	<10	75	6	<20	9	ব	42	
A33		ৎ	<10	59	6	<20	8	ও	36	
A34		ব	<10	130	6	<20	36	ব	47	
A35		7	<10	133	23	<20	14	ব	164	
A36		5	<10	152	2	<20	9	ব	325	
A37		ব	<10	104	7	<20	7	\$	64	
A38		5	<10	154	24	<20	4	ଟ	53	••••••
A39		5	<10	102	27	<20	8	ব	183	
A40		ব	<10	71	7	<20	10	ব	32	
A41		ব	<10	59	7	<20	7	ব	38	
N42		5	<10	69	6	<20	22	ব	134	
A43		6	<10	81	15	<20	12	ও	163	
A4 4		ও	<10	56	13	<20	10	ব	159	
A45		ব	<10	80	14	<20	6	ব	72	
A46		ব	<10	Π	17	<20	8	ব	223	
N47		6	<10	98	14	<20	15	ও	85	
A48		8	<10	86	6	<20	50	ব	53	
A49		ব	<10	47	6	<20	5	ব	28	
A50		5	<10	109	15	<20	10	ব	55	
A51		ব	<10	127	8	<20	11	ব	26	
A52		8	<10	193	9	<20	13	ব	36	
A53		5	<10	149	11	<20	8	ব	36	
A54		ব	<10	80	6	<20	9	ব	28	

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REPORT: 092	-42716.0 (COMP	LETE)					_	ATE PRINT ROJECT: N	ED: 17-NO IONE	V-92	PAGE 1A	
SAMPLE	ELEMENT	Au	AuRew1	AuRew2	AL	Fe	Mn	Mg	Ca	Na	K	Sc
NUMBER	UNITS	PPB	PPB	PPB	PCT	PCT	PPH	PCT	PCT	PCT	PCT	PPN
65		<5			1.65	1.58	261	0.53	0.44	0.05	0.05	<5
66		<5			4.44	3.26	137	0.80	0.90	0.06	0.13	14
67		<5			3.81	3.25	199	1.06	1.22	0.07	0.21	Ş
68		<5			4.05	5.19	242	1.84	1.25	0.07	0.25	12
69		<5			3.09	3.70	178	1.17	1.32	0.08	0.22	10
70		ব	•••••		1.51	2.50	1473	0.66	0.65	0.07	0.07	\$
71		د			3.32	4.21	3265	1.29	0.83	0.06	0.10	<
72		ৎ			2.31	2.72	2347	1.30	1.19	0.08	0.14	4
73		<5			0.93	1.57	120	0.16	0.18	0.07	0.03	4
74		<5			1.55	2.47	263	0.56	0.90	0.09	0.08	\$
75	•	<5		••••••	2.54	2.78	283	0.70	0.25	0.06	0.06	<
76		<5			2.20	2.31	392	0.76	0.45	0.06	0.13	<
77		<5			1.62	2.41	1095	0.44	0.28	0.06	0.06	<
78		<5			1.62	2.24	340	0.59	0.33	0.06	0.05	4
79		ব			1.51	3.64	321	0.97	1.41	0.10	0.31	4
80		<5	•••••		1.14	2.33	209	0.43	0.45	0.08	0.05	\$
81		ব			1.72	2.52	166	0.62	0.62	0.08	0.10	<
82		<5			1.40	2.60	393	0.52	0.43	0.08	0.11	<
83		<5			1.28	2.66	385	0.30	0.19	0.07	0.05	4
84		<5			1.53	2.88	338	0.35	0.26	0.06	0.04	4
85		<5	•••••••		2.65	3.79	544	0.83	0.29	0.06	0.07	4
86		<5			1.49	2.98	247	0.30	0.19	0.06	0.06	ব
87		ব			1.41	2.88	593	0.35	0.17	0.06	0.05	4
88		ৎ			2.34	3.23	1979	1.74	0.54	0.06	0.16	ব
89		<5			0.99	1.44	458	0.31	0.38	0.07	0.04	4
90		<5			2.24	3.53	563	0.82	0.64	0.08	0.07	<5
91		<5			0.65	0.46	80	0.13	0.11	0.06	0.03	ব
92		<5			2.34	2.38	200	0.29	0.15	0.06	0.05	<5
93		<5			2.35	2.52	434	1.17	0.80	0.07	0.08	6
94		<5			1.70	2.25	278	0.55	1.39	0.08	0.09	<5
A55		<5			1.08	1.85	247	0.35	0.24	0.06	0.04	ব
A56		<5			0.98	1.94	311	0.30	0.25	0.05	0.06	<
A57		<5			1.99	3.53	1755	0.80	1.17	0.06	0.10	<
A58		<5			1.41	2.86	326	0.38	0.56	0.06	0.05	ব
A 59		<5			1.82	3.12	759	1.52	1.35	0.07	0.10	6
A60		ব			1.18	2.06	477	0.30	0.23	0.05	0.05	<5
A61		13			2.21	3.58	215	1.33	2.30	0.07	0.07	8
A62		ব			1.57	2.56	110	0.56	0.22	0.06	0.03	<
A63		<5			2.73	5.98	1114	1.14	0.31	0.05	0.10	6
A64		10			2.42	>10.00	4695	1.02	0.90	0.06	0.04	7

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Inchcape Testing Services

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	2-42716.0 (COMF							NTE PRINTE NOJECT: NO	D: 17-NO	/-92	PAGE 1B	
KEPUKI: U94	-42/10.U (LUH	LEIE)					PN				PAGE ID	
SAMPLE NUMBER	ELEMENT UNITS	V PP H	Сг РРМ	Co PPM	Nî PPN	Cu PPM	As PPM	Sr PPN	Y PPN	No PPN	Ag PPN	P
	•••••••••••••••••••••••••••••••••••••••											
65		32	30	17	16	13	ব	32	19	1	0.5	7
66 (7		67	54	14	48	88	ব	32	79 70	3	0.7	ž
67		71	54	14	36	68 70	<u>ব</u>	35	30	3	0.6	0
68 (0		84	217	24	83 75	39	14	36	23	4	0.6	1
69		86	45	27	35	220	53	33	18	2	0.2	2
70		42	30	12	18	13	16	16	9	<1	<0.2	C
71		41	31	18	20	12	41	20	9	2	<0.2	i
72		31	24	15	28	35	15	22	34	2	⊲0.2	-
73		32	14	4	6	3	ব	7	4	<1	<0.2	0
74		42	26	10	18	15	10	20	14	2	<0.2	
75	······	44	29	11	23	8	8	13	5	<1	<0.2	(
76		39	32	14	23	16	ব	15	7	<1	<0.2	(
77		37	23	11	12	10	18	10	5	<1	<0.2	0
78		40	21	10	14	5	25	10	5	1	<0.2	C
79		47	10	9	8	14	6	16	27	<1	<0.2	
80		36		10	16	15	12	10	8	 2	<0.2	C
81		39	28	10	19	15	<u>.</u>	19	20	-	<0.2	Ċ
82		46	28	13	17	11	22	14	8	<1	<0.2	~
83		41	22	7	12	3	19	7	5	1	<0.2	ৰ
84		44	35	11	22	12	23	7	4	2	<0.2	C
85		54	45	18	47	18	18	10	7	1	<0.2	
86		47	25	10	16	7	7	7	5	<1	<0.2	Ċ
87		47	30	11	16	6	ব	5	4	1	<0.2	
88		50	67	23	48	18	7	17	11	2	<0.2	1
89		27	19	8	22	17	ব	15	66	2	<0.2	1
		 					~~~					
90		52	39	22	33	25	29	12	15	<1	<0.2	(
91 92		14	10 25	1	4	3	ব্য সং	5	10	2	<0.2	<(
92 93		40 39	25 74	9 11	17	ہ 11	28	6	11	2	<0.2 <0.2	( (
93 94		39	34 75	16	24 37	47	9 30	17 25	45 34	2 1	<0.2 <0.2	0
			······						 	······		
A55		48	18	8	10	5	14	8	4	<1	≪0.2	0
A56		45 50	17	7	8	4	13	8	3	1	<b>⊲0.2</b>	0
A57		50 57	31	16	26	32	61 (7	22	18	2	≪0.2	1
A58 A59		53	21	8	12	8	43	9	5	2	<0.2	1
7.J7		65	26	15	25	59	92	17	25	1	0.2	1
A60		37	, 18	8	11	5	9	9	3	<1	<0.2	0
<b>A</b> 61		118	64	18	27	79	5	32	19	<1	0.2	1
A62		63	25	11	13	5	79	6	2	1	<0.2	C
A63		122	32	24	21	37	78	8	4	3	0.4	0
A64		104	35	35	34	47	276	10	21	6	1.0	4

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## Inchcape Testing Services

REPORT: 092	2-42716.0 ( COM	PLETE )						TE PRINTE		V-92	PAGE 1C
SAMPLE NUMBER	ELEMENT UNITS	Sn PPN	SD PPM	Te PPN	Ba PPM	La PPN	V PPN	Pb PPN	Bi PPM	Zn PPN	Hg PPB
65		<20	ৎ	<10	83	13	<20	18	ব	49	36
66		<20	9	<10	359	58	<20	154	ব	92	57
67		<20	7	<10	450	33	<20	61	ব	111	32
68		<20	8	<10	488	23	<20	18	ব	91	44
69		<20	6	<10	452	17	<20	15	ৎ	153	27
70	•••••••	<20	ব	<10	142	9	<20	14	ৎ	101	42
71		<20	8	<10	232	10	<20	69	ব	1186	61
72		<20	7	<10	96	24	<20	83	ও	2314	69
73		<20	ব	<10	Ź7	4	<20	7	ব	61	19
74		<20	<5	<10	72	11	<20	21	ব	233	38
75	•	<20	5	<10	102	6	<20	9	ৎ	137	29
76		<20	<5	<10	125	9	<20	10	ৎ	240	13
77		<20	ব	<10	141	7	<20	20	ব	325	42
78		<20	ৎ	<10	104	6	<20	9	ব	202	25
79	••••••	<20	ব	<10	84	20	<20	11	ব	341	21
80		<20	ব	<10	32	6	<20	6	ব	51	15
81		<20	ৎ	<10	77	18	<20	7	ব	81	19
82		<20	ৎ	<10	78	9	<20	7	ৎ	67	15
83		<20	<5	<10	47	5	<20	10	ৎ	132	30
84		<20	<5	<10	54	5	<20	11	ব	149	36
85		<20	6	<10	125	8	<20	11	ব	289	40
86		<20	<5	<10	62	5	<20	8	ব	172	19
87		<20	<5	<10	47	5	<20	9	ব	144	23
88 80		<20	5	<10	157	12	<20	22	ব	243	52
89		<20	5	<10	113	26	<20	10	4	347	29
90		<20	5	<10	Π	14	<20	13	ব	179	50
91		<20	ব	<10	29	15	<20	6	ব	36	11
92		<20	ৎ	<10	47	11	<20	10	ব	103	63
93		20	ব	<10	139	35	<20	9	ব	61	78
94		<20	ব	<10	117	33	<20	10	ৎ	95	103
A55		<20	<5	<10	34	4	<20	12	ব	154	21
A56		<20	<5	<10	50	4	<20	9	ব	84	19
A57		<20	6	<10	106	14	<20	30	ব	184	126
A58		<20	<5	<10	38	6	<20	10	ব	92	38
A59		<20	7	<10	67	20	<20	27	ব	162	271
A60		<20	ৎ	<10	62	4	<20	11	ব	105	32
<b>A</b> 61		<20	8	<10	85	13	<20	9	ব	116	306
A62		<20	6	<10	28	4	<20	17	ব	106	21
A63		<20	11	<10	76	6	<20	30	ব	256	40
A64		<20	14	<10	140	17	<20	126	ৎ	1184	182

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## Inchcape Testing Services

REPORT: 092	2-42716.0 ( COMP	LETE )						ATE PRIN ROJECT:	TED: 17-NO NONE	v-92	PAGE 2A	
SAMPLE	ELEMENT	Au	AuRew1	AuRew2	AL	Fe	Min	Mg	Ca	Na	K	S
NUMBER	UNITS	PPB	PPB	PPB	PCT	PCT	PPM	PCT	PCT	PCT	PCT	PP
A65		ৎ			0.77	2.58	1789	8.55	>10.00	0.06	0.02	<
A66		<5			2.27	4.08	265	1.24	0.54	0.05	0.07	
A67		<5			3.25	6.49	1914	1.46	0.57	0.06	0.20	
A68		<5			3.34	4.80	657	1.00	0.51	0.07	0.09	•
<b>A69</b>		<5			3.02	>10.00	6192	2.23	2.88	0.07	0.03	
A70		<5			2.41	4.83	3190	1.26	1.05	0.07	0.07	•
A71		<5			1.61	3.13	534	0.65	0.22	0.06	0.06	•
A72		ব			2.93	5.80	3343	2.56	0.62	0.06	0.03	
A73		<5			1.76	5.22	400	0.72	0.24	0.06	0.10	•
A74		ৎ			1.14	2.98	1276	0.36	0.62	0.06	0.10	•
A75	•	<5			1.72	4.14	254	1.39	0.69	0.06	0.08	
A76		ব			0.72	2.40	90	0.27	0.33	0.06	0.04	•
A77		ব			1.19	2.75	197	0.61	0.22	0.06	0.05	•
A78		<5			1.90	3.38	351	0.72	0.49	0.07	0.15	•
A79		ব			1.11	2.82	458	0.57	0.33	0.06	0.13	•
<b>A80</b>		ৎ			0.25	1.31	87	0.07	0.19	0.05	0.03	•
A81		ৎ			1.54	4.51	3744	2.09	3.39	0.08	0.16	•
A82		<5			1.50	4.47	5041	1.65	3.18	0.07	0.18	•
A83		ব			1.41	3.11	596	0.56	0.40	0.06	0.14	•
<b>A8</b> 4		ব			2.68	3.75	1911	1.18	0.43	0.06	0.09	•
A85		<5	•••••		2.55	3.22	624	1.19	0.51	0.07	0.07	•
A86		<5			1.61	3.29	641	0.72	0.42	0.07	0.07	•
A87		<5			1.37	3.82	2273	8.13	>10.00	0.07	0.02	•
<b>88</b> A		<5			3.67	4.63	296	2.02	1.25	0.08	0.09	
<b>A89</b>		ৎ			2.36	4.70	1050	1.06	0.45	0.06	0.06	
A90		246	<5	6	4.58	6.12	1503	2.56	0.82	0.07	0.06	2
A91		<5			2.36	4.51	546	0.88	1.18	0.06	0.07	•
A92		<5			3.29	4.91	241	1.65	1.54	0.06	0.05	1
A93		<5			2.24	4.96	3496	0.81	1.06	0.06	0.06	•
A94		ৎ			1.97	5.39	1876	2.13	1.18	0.07	0.07	
A95	•••••••••••••••••••••••••••••••••••••••	<5	••••••	••••••	3.19	>10.00	5675	2.04	0.36	0.06	0.06	
A96		<5			1.84	3.54	316	0.61	0.36	0.06	0.06	•
A97		<5			3.14	4.99	3048	1.17	0.88	0.08	0.30	
A98		ৎ			2.74	4.05	1365	1.61	0.30	0.06	0.08	•
A99		<5			3.50	3.77	1982	2.40	0.58	0.06	0.07	
A100		<5			0.87	2.15	1009	0.53	1.01	0.06	0.05	•
A101		ব			1.53	2.71	521	0.69	0.46	0.08	0.14	•
A102		ৎ			2.17	3.01	1719	0.94	0.84	0.07	0.09	<
A103		<5			2.55	6.29	1196	1.86	0.80	0.08	0.41	
A104		<5			1.67	3.11	1296	0.69	0.52	0.07	0.08	<

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## Inchcape Testing Services

REPORT: 092	2-42716.0 ( COM	PLETE )						NTE PRINTE ROJECT: NO			PAGE 2B	
SAMPLE NUMBER	ELEMENT UNITS	V PPN	Cr PPN	Co PPN	N i PPN	Cu PPN	As PPN	Sr PPN	Y PPN	No PPN	Ag PPN	
				40				•••••				
A65 A66		34	19 25	10	11	9 13	15	19	5 5	<1 1	<0.2 <0.2	
AGG AG7		120 121	25 35	14 25	14 30	32	26 42	9 11	5 12	3	0.2	
A68		76			30 33	- 32 10	42 40		5	3 1	<0.2	
A69		62	49 50	20 50	55 65	37	131	10 17	28	4	0.7	
								••••••				
A70		53	31	17	21	31	59	10	18	<1	≪0.2	
A71		45	24	10	14	6	29 01	5	4	<1	⊲0.2 ⊲0.2	
A72 A73		107	23	23	<u>26</u>	26	94	9	7	3 1	<0.2 <0.2	
A74		129 52	15 20	17	10	10 8	29 7	5 13	4	، <1	0.3	
A/4			20	9	11	•			3	<u> </u>	<b>U.J</b>	•••••
A75		118	73	21	34	50	15	13	27	2	<0.2	
A76		84	11	6	4	6	ৎ	7	3	1	<0.2	
A77		53	18	8	10	7	15	6	3	<1	<0.2	
A78		70	31	12	14	8	ৎ	11	5	<1	0.2	
A79		40	22	13	19	22	11	9	10	7	<0.2	•••••
<b>A8</b> 0		27	10	2	6	3	5	5	2	3	⊲0.2	•••••
A81		59	34	16	27	38	118	30	15	4	0.2	
A82		58	36	18	33	41	121	33	17	2	⊲0.2	
A83		70	25	14	13	11	20	12	3	2	⊲0.2	
<b>A8</b> 4		67	35	15	21	9	23	11	6	<1	<b>-0.2</b>	•••••
A85		39	30	12	21	6	30		5	<1	<0.2	
A86		70	29	11	14	8	ৎ	10	5	<1	<0.2	
A87		44	24	13	16	10	23	21	16	<1	<0.2	
<b>A88</b>		67	44	16	34	31	53	16	18	<1	0.2	
<b>A8</b> 9		98	80	18	26	16	55	8	4	2	<0.2	
A90		252	110	44		47	138	14	8	4	0.4	•••••
A91		66	32	24	25	20	109	20	7	2	0.6	
A92		106	56	28	39	80	137	21	26	1	0.7	
A93		48	27	21	24	17	116	13	18	2	0.3	
A94		59	25	16	22	21	58	9	20	<1	<0.2	
A95		17/		70					······		·····	
A95 A96		174 55	43	38	36 27	8	145	8	6	3	0.9	
A97		55 92	26 49	10 24	23 41	12 48	29 43	8 18	5 27	<1 2	<0.2 0.4	
A98		92 59	49 30	24 14	18	-0	43 28	18 7	<b>Cí</b> 1	2	0.4 <0.2	
A99		61	25	15	29	8	20 42	10	4 10	2	≪0.2 ≪0.2	
		<b></b>	محمط	<i>و</i> ا	<b>۲</b>		76 	<b>ب</b>		٤		
A100		46	25	8	13	11	ব	16	3	1	0.2	
A101		52	29	9	15	11	ব	13	7	<1	0.3	
A102		43	29	11	18	12	11	17	8	1	0.4	
A103		158	92	36	42	43	28	17	8	1	0.5	
A104		50	29	12	14	7	14	14	4	2	0.4	

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### Geochemical Lab Report

## Inchcape Testing Services

REPORT: 092	-42716.0 ( COM	PLETE )						NTE PRINTE ROJECT: NO			PAGE 2C
SAMPLE NUMBER	ELEMENT UNITS	Sn PPN	Sb PPN	Te PPN	Ba PPN	La PPN	V PPN	Pb PPN	Bi PPN	Zn PPN	Ng PPB
A65		24	4	<10	103	5	<20	27	4	174	59
A66		<20	9	<10	59	4	<20	16	ব	111	17
A67		<20	15	<10	118	12	<20	35	ব	757	103
A68		<20	10	<10	92	8	<20	18	ব	210	30
A69		23	9	<10	127	27	<20	36	ব	309	86
▲70		<20	9	<10	95	19	<20	17	ৎ	254	
A71		<20	7	<10	47	5	<20	13	ক	104	27
A72		<20	11	<10	159	9	<20	33	ব	315	44
A73		<20	8	<10	114	5	<20	10	ব	150	29
A74		<20	ব	<10	196	5	<20	16	ব	94	63
A75	•	<20	8	<10	78	34	<20	7	4	73	19
A76		<20	ব	<10	50	4	<20	5	ব	39	10
A77		<20	<5	<10	51	4	<20	13	ব	104	23
A78		<20	6	<10	129	6	<20	11	ব	142	30
A79		35	ব	<10	55	10	<20	11	ব	52	17
<b>A8</b> 0		<20	ব	<10	21	3	<20	4	ব	23	11
A81		<20	11	<10	283	13	<20	61	ব	375	128
<b>A8</b> 2		<20	10	<10	394	14	<20	65	ও	460	117
A83		<20	ব	<10	82	5	<20	13	ও	500	30
<b>A84</b>		<20	9	<10	140	7	<20	15	ব	279	40
<b>A8</b> 5		<20	7	<10	69	7	<20	17	ব	183	30
<b>A8</b> 6		<20	6	<10	97	6	<20	11	ৎ	132	28
A87		<20	<5	<10	134	21	<20	16	<5	94	85
<b>A88</b>		<20	9	<10	114	17	<20	20	ও	146	75
<b>A89</b>		<20	10	<10	81	6	<20	29	ৎ	247	38
A90		<20	13	<10	100	6	<20	34	ৎ	334	28
A91		<20	9	<10	76	8	<20	34	ও	116	102
A92		<20	14	<10	95	17	<20	24	ব	133	130
A93		<20	11	<10	93	14	<20	58	ব	355	141
A94		<20	10	<10	60	13	<20	20	\$	154	168
A95		<20	11	<10	113	11	<20	37	ৎ	634	90
A96		<20	5	<10	76	6	<20	10	ব	221	34
A97		31	7	<10	379	25	<20	10	ৎ	361	126
A98		<20	8	<10	102	6	<20	46	ৎ	252	45
A99		<20	8	<10	123	12	<20	23	ঙ	153	51
A100		<20	ৎ	<10	180	4	<20	18	ব	170	45
A101		<20	ৎ	<10	180	7	<20	10	ৎ	226	32
A102		<20	7	<10	205	10	<20	24	ও	276	81
A103		<20	7	<10	243	7	<20	18	ৎ	197	41
A104		<20	5	<10	186	6	<20	14	ব	282	24

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	2-42716.0 ( CON						Pi	ATE PRINT ROJECT: N	DNE		PAGE 3A	
SAMPLE NUMBER	ELEMENT UNITS	Au PPB	AuRew1 PPB	Auren2 PPB	AL PCT	Fe PCT		Hg PCT		Na PCT	K PCT	
					2.16	4.22	1022	1.21	0.67	0.07	0.25	
						ompany Ltd.						

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## Inchcape Testing Services

	2-42716.0 ( COM						PR	OJECT: NO	D: 17-NOV		PAGE 3B	
SAMPLE NUMBER	ELEMENT UNITS	V PPN	Cr PPN	Co PPN	Nî PPN	Cu PPN	As PPM	Sr PPM	Y PPN	No PPN	Ag PPM	P
A105		72	36	12	24	14	46	16	18	3	⊲0.2	1
						•••••••••••••••••••••••••••••••••••••••						
			5420 Car	Bondar-G lotek Road,	Clegg & Co Ottawa, Op		G? Canadi					



## Inchcape Testing Services

REPORT: 092				TE PRINTE			PAGE 3C				
SAMPLE NUMBER	ELEMENT UNITS	Sn PPM	Sb PPN	Te PP <b>N</b>	Ba PPM	La PPN	V PPM	РЬ РРМ	Bi PPM	Zn PPN	Kg PPB
A105		<20	6	<10	237	15	<20	14	ব	110	60
					-						
					Clegg & Cou						

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## Inchcape Testing Services

	<b>10001</b> 0 1 000								ED: 4-DEC	-92		
REPORT: 092-	42901.0 ( COM	•			·····						PAGE 1A	
SAMPLE	ELEMENT	Au	AL	fe	Hin	Ng	Ca	Ka	ĸ	Sc	۷	(
NUMBER	UNITS	<b>PP8</b>	PCT	PCT	PPN	PCT	PCT	PCT	PCT	PPN	PPN	P
AR106		7	1.85	4.16	957	0.70	0.89	0.06	0.10	5	59	
AR107		9	1.30	2.41	217	0.43	0.43	0.06	0.07	ব	42	
AR108		ব	1.53	2.96	266	0.61	0.57	0.06	0.08	ব	43	
AR109		ব	1.04	2.30	1540	0.50	0.46	0.06	0.10	ব	39	
AR110		6	1.31	3.05	554	0.77	0.58	0.07	0.12	5	56	
AR111		ব	1.59	3.14	223	0.70	0.31	0.07	0.08	ৎ	59	••••••
AR112		ব	1.65	3.23	2068	1.18	0.70	0.07	0.09	ব	55	
AR113		ব	1.44	2.29	380	0.64	0.22	0.06	0.05	ব	52	
AR114		ও	1.30	2.50	179	0.30	0.43	0.07	0.06	ব	42	
AR115		ব	0,95	2.07	206	0.50	0.30	0.07	0.06	4	43	
AR116		ব	2.45	4.23	3053	0.76	0.95	0.06	0.24	6	<b>95</b>	
AR117		ব	2.69	4.44	1637	0.83	0.68	0.07	0.14	9	80	
AR118		10	1.61	2.80	2010	0.64	1.72	0.07	0.12	ব	59	
AR119		7	1.77	7.19	3542	0.24	0.81	0.05	0.08	ব	86	
AR120		ব	2.55	4.53	1228	1.11	0.53	0.07	0.39	7	134	

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## Inchcape Testing Services

	42901.0 ( CON					· ···· ··· ··· ··· ···	PR	TE PRINTE	NE	L-72	PAGE 1B	
SAMPLE	ELEMENT	Co	Ni	Cu	As	Sr	т	No	Ag	Cd	Sn	S
NUMBER	UNITS	PPM	PPM	PPN	PPN	PPM	PPN	РРМ	PPN	PPN	PPN	PP
AR106		19	23	32	78	15	11	1	0.5	0.4	<20	1
AR107		10	14	8	27	10	5	1	0.4	≪0.2	<20	1
AR108		13	21	18	62	15	8	<1	0.7	⊲0.2	<20	•
AR109		10	11	8	29	8	4	<1	0.7	0.6	<20	1
AR110		14	15	28	27	13	14	<1	0.3	⊲0.2	<20	
AR111		14	20	19	89	9	6	3	0.6	⊲0.2	<20	•••••••
AR112		11	16	12	59	15	7	<1	0.5	1.9	<20	
AR113		11	13	6	39	7	4	<1	0.4	⊲0.2	<20	
AR114		9	12	6	27	10	5	<1	0.4	⊲0.2	<20	4
AR115		9	10	6	13	9	5	<1	0.4	⊲0.2	<20	
AR116	-	21	24	20	47	17	14	<1	0.5	0.4	<20	
AR117		23	28	38	156	17	18	1	0.7	0.4	<20	i
AR118		12	21	29	41	24	11	2	0.6	1.4	<20	
AR119		14	17	12	133	19	12	4	0.6	0.2	<20	
AR120		24	23	15	43	12	12	<1	0.7	⊲0.2	<20	

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	42901.0 ( CON						PR	OJECT: NO	D: 4-DEC-92 WE	PAGE 1C
SAMPLE	ELEMENT	Te	Ba	La	V	Pb	Bi	Zn	Ng	
NUMBER	UNITS	PPN	PPN	PPN	PPM	PPM	PPN	PPN	PPB	
AR106		<10	108	11	<20	39	ব	235	91	
AR107		<10	50	5	<20	36	ব	177	52	
AR108		<10	55	8	<20	59	ব	565	74	
AR109		<10	64	5	<20	32	ৎ	197	90	
									79	
AR111		<10	54	6	<20	35	ব	417	16	•••••••••••••••••••••••••••••••••••••••
AR112		<10	107	7	<20	24	ৎ	411	52	
AR113		<10	58	4	<20	24	ব	326	23	
AR114		<10	35	5	<20	20	ও	148	43	
AR115		<10	39	5	<20	23	5	158	14	
AR116	•	<10	149	11	<20	31	ৎ	269	108	
AR117		<10	117	17	<20	46	ব	424	249	
AR118		<10	97	9	<20	40	ব	158	151	
AR119		<10	87	11	<20	44	ব	363	154	
AR120		<10	135	10	<20	29	ব	225	77	





	-42715.0 ( CON							PR	TE PRINTE OJECT: NO	NE	P	AGE 1A	
SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ti PCT	AL PCT	Fe Tot PCT	Nn PPH	Ng PCT	Ca PCT	lia PCT	K PCT	Li PPN	Sc PPM	V PPN
6735		ব	0.02	0.32	0.51	<50	0.09	0.05	<b>-0.</b> 01	0.16	3	<1	17
6736		ৎ	<0.01	0.16	0.78	58	0.03	0.02	<0.01	0.04	~2	<1	7
6737		ব	0.05	4.08	1.17	135	0.12	0.19	0.76	0.78	5	2	13

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## Inchcape Testing Services

R2-42715.0 ( COMPLETE )         PAGE 18           ELEMENT         Cr         Co         Ni         Cu         Zn         Ga         Sr         Y         Zr         Nb         No         Apple           320         3         10         Zo         7         c10         Z         S         S         S         3         do.           320         3         10         Zo         7         c10         Z         S         S         S         do.         do.           320         3         10         Zo         7         c10         Z         S         S         do.         do.				 				•••••••••••••••••••••••••••••••••••••••					
ELEMENT Cr Co Ni Cu Zn Ga Sr Y Zr Nb Mo A UNITS PPN PPN PPN PPN PPN PPN PPN PPN PPN PP	FPORT - 092	-42715 0 ( ით	DIFTE									AGF 1R	
UNITS PPN PPN PPN PPN PPN PPN PPN PPN PPN PP				 							•		
	AMPLE UNBER												
	6735		720	  	20		~10	·····	*	E	<u>~</u>	****	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	6736												
	6737					7	<10	56	ন ব				
				 		•						•	
			·····	 									
				 								••••••	,
			•••••	 								••••••	
				 			•••••••••••••••••••••••••••••••••••••••			******			

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## Geochemical Lab Report



REPORT: 092-42715.0 ( COMPLETE )							DATE PRINTED: 28-OCT-92 PROJECT: NONE PAGE 10						:
SAMPLE NUMBER	ELEMENT UNITS	Cd PPN	Sn PPN	Sb PPN	Te PPN	Ba PPN	La PPN	Ta PPN	V PPN	Pb PPN	Bi PPN	As PPN	Hg PP <b>B</b>
6736		0.9	<20	ব	<b>~</b> 5	12	ব	ব	<20	3	ব	ব	10
6737		⊲0.5	<20	ব	≪35	293	10	ব	<20	13	ব	22	10

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## Geochemical Lab Report

## Inchcape Testing Services

							D	ATE PRINT	ED: 27-NOV	1-92		
REPORT: 092	-42900.0 ( COM	- •					• •	ROJECT: N			PAGE 1A	
SAMPLE	ELEMENT	Au	AL	fe	Min	Mg	Ca	Ka	ĸ	Sc	٧	C
NUMBER	UNITS	PPB	PCT	PCT	PPN	PCT	PCT	PCT	PCT	PPN	PPN	Pf
6726		15	0.41	2.39	30	0.08	0.12	0.23	0.10	4	16	9
6729		9	6.49	7.80	481	3.48	5.49	0.25	0.26	5	54	(
6730		8	7.10	3.33	480	3.76	5.85	0.50	0.27	ব	37	
6731		ব	6.49	4.72	416	3.08	6.45	0.07	0.13	6	75	
6732		27	7.79	6.56	674	3.64	6.26	0.57	0.16	8	92	
6733		ব	0.31	3.58	128	0.34	0.39	0.06	0.02	ব	9	1
6734		25	2.23	6.32	324	2.42	1.29	0.07	0.25	ব	<1	1
6735		ব	1.33	2.13	114	0.87	0.72	0.07	0.45	ব	11	1
6739		7	1.84	6.28	149	1.50	0.14	0.14	0.47	8	86	1
6740		37	0.13	1.36	92	0.05	0.21	0.06	0.02	5	21	1
6741	• • • • • • • • • • • • • • • • • • •	6	0.03	2.07	67	0.02	0.09	0.04	0.02	\$	7	2
6742		19	0.03	1.79	82	0.02	0.09	0.05	0.02	ব	4	2
6744		ও	0.02	1.74	64	0.01	0.04	0.05	0.01	ব	4	2
6747		82	0.03	0.58	52	0.02	0.01	0.05	0.02	ব	3	3
6748		ব	0.36	0.48	469	7.01	>10.00	0.07	0.36	ব	16	

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## Inchcape Testing Services

							(	DATE PRINT	ED: 27-NO	1-92		
	-42900.0 ( COM						-	PROJECT: M			PAGE 18	
SAMPLE	ELEMENT	Со	Ni	Cu	As	Sr	Y	No	Ag	Cď	Sn	•
NUMBER	UNITS	PPN	PPN	PPN	PPN	PPN	PPH	PPN	PPN	PPN	PPN	Pl
6726		6	29	34	4	12	7	10	0.5	⊲0.2	<20	•••••••
6729		28	88	74	37	76	19	2664	1.1	0.5	<20	:
6730		17	44	23	26	42	14	36	⊲0.2	<0.2	<20	
6731		21	51	29	41	43	20	28	0.3	⊲0.2	<20	
6732		30	69	28	46	39	24	672	0.4	⊲0.2	<20	
6733		11	54	87	ব	3	1	101	0.5	⊲0.2	<20	
6734		42	49	38	11	16	7	>10000	2.6	2.0	<20	
6735		8	20	38	11	28	9	140	0.3	⊲0.2	<20	
6739		21	63	74	20	7	3	1273	1.3	<0.2	<20	
6740								31				
6741		4	8	8	4	1	<1	10	0.4	⊲0.2	<20	
6742		4	7	9	192	1	<1	6	1.0	≪0.2	<20	
6744		4	9	6	4	1	<1	5	0.5	⊲0.2	<20	
6747		4	11	19	ব	<1	<1	3	0.3	⊲0.2	<20	
6748		7	4	6	32	215	2	4	⊲0.2	0.9	<20	

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	-42900.0 ( CON	-					DA Pi	PAGE 1C		
SAMPLE	ELEMENT	Te	Ba	La	V	Pb	Bi	Zn	Hg	
NUMBER	UNITS	PPN	PPN	PPN	PPN	PPN	PPN	PPN	PPB	
6726		<10	28	4	<20	17	ও	6	4	
6729		<10	26	15	<20	40	ব	77	5	
6730		<10	14	8	<20	21	4	41	<del>ح</del>	
6731		<10	6	11	<20	23	ও	64	ব	
6732		<10	16	16	<20	23	ব	88	4	
6733		<10	3	2	<20	19	ব	21	ব	
6734		31	40	2	<20	50	10	57	7	
6735		<10	77	6	<20	19	5	18	ব	
6739		<10	61	6	<20	130	ব	77	7	
6740		<10	7	1	<20	17	4	25	9	
6741		<10	5	<1	<20	13	ৎ	28	5	
6742		<10	10	<1	<20	25	ব	108	7	
6744		<10	8	<1	<20	9	ব	10	9	
6747		<10	3	<1	<20	6	ক	6	2	
6748		<10	39	1	<20	60	ব	347	265	

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## Inchcape Testing Services

	-42997.0 ( CON				DATE PRINTED: 17-DEC-92 PROJECT: NOME PAGE 1A							
SAMPLE	ELEMENT	Âu	AL	Fe	Hn	Ng	Ca	Ka	ĸ	Şc	v	Cı
NUMBER	UNITS	PP8	PCT	РСТ	PPN	PCT	РСТ	PCT	PCT	PPN	PPN	PPI
6764		11	0.35	5.47	89	0.16	0.07	0.04	0,02	ব	18	22
6765		8	3.05	7.72	217	1.68	0.10	0.09	0.81	5	120	35
6766		9	2.80	3.70	579	0.46	3.51	0.26	0.53	ব	24	7
6767		32	0.05	0.27	428	>10.00	>10.00	0.05	<0.01	4	4	1
6768		10	0.05	2.11	47	0.03	0.05	0.04	<0.01	ব	15	34
6769		13	0.05	1.90	165	0.05	0.52	0.04	0.01	\$	4	21
6770		8	0.05	2.05	45	0.03	0.05	0.04	0.01	4	15	35
6771		10	2.98	9.25	210	2.05	0.16	0.10	0.67	9	287	24
6772		23	0.07	1.73	165	0.02	0.10	0.04	⊲0.01	ব	11	30
6773		27	0.66	1.49	297	0.29	>10.00	0.08	0.29	\$	7	6

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## Inchcape Testing Services

	-42997.0 ( COM				DATE PRINTED: 17-DEC-92 PROJECT: NONE					PAGE 1B		
	ELEMENT											
NUMBER	UNITS	PPN	PPN	PPN	PPN	PPN	PPH	PPN	PPM	PPM	PPN	PF
6764		7	23	153	11	2	<1	2	0.3	0.7	<20	•••••••••••••••••••••••••••••••••••••••
6765		4	16	67	42	11	7	16	⊲0.2	⊲0.2	<20	•
6766		22	25	68	38	72	10	2	⊲0.2	1.5	<20	•
6767		4	2	9	ব	<b>98</b>	3	<1	4.2	33.9	<20	7
6768		<1	8	15	12	2	4	2	⊲0.2	0.5	<20	•••••••
6769		<1	7	23	ব	5	<1	2	⊲0.2	0.9	<20	••••••
6770		<1	8	13	6	2	<1	2	0.3	<b>4</b> .2	<20	
6771		6	26	78	51	12	10	20	⊲0.2	0.4	<20	•
6772		6	12	16	13	1	1	2	0.2	0.6	<20	
6773		12	19	184	91	96	4	26	41.8	208.2	<20	9

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## Geochemical Lab Report

## Inchcape Testing Services

	-42997.0 ( COM	- •					PROJECT:		PAGE 1C	
SAMPLE	ELEMENT	Te	ßa	La	V	РЪ	Bí	Zn	lig	
NUMBER	UNITS	PPN	PPN	PPN	PPN	PPN	PPN	PPN	PPB	
6764		<10	11	3	<20	50	ব	23	17	•••••••••••••••••••••••••••••••••••••••
6765		<10	321	11	<20	59	ব	191	18	
6766		<10	73	9	<20	41	ব	105	ব	
6767		59	5	<1	<20	203	28	2039	1164	
6768		17	3	<1	<20	48	ব	6	5	
6769		<10	20	<1	<20	31	ব	25	7	
6770		21	3	<1	<20	53	ব	5	12	
6771		<10	300	14	<20	124	ব	270	20	
6772		12	9	1	<20	46	ব	35	20	
6773		<10	144	2	<20	>10000	ব	>20000	>50000	

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# APPENDIX 2

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SAMPLE DESCRIPTION

(SOIL SAMPLES)

#### DESCRIPTION OF GEOCHEMICAL SOIL SAMPLES NORWAY LAKE (SOUTH) / SHEFFIELD TOWNSHIP

W.BRACK OPAP 92-233

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SPL	STATION		POSITION	N I	DEPT	HCOLOUR1	COMP1	COMP2	HUM	
1	1+00	N	0+00		30	MED.BRW	CLAY	SANDY	M	
2	1+00	N	0+50	Е	25	MED.BRW	SANDY	CLAY	M	
3	1+00	N	1+00	E	25	MED.BRW	SANDY	CLAY	<b>D</b> .	
4	1+00	N	1+50	Ε	30	DK.BRW	CLAY	SANDY	M	
5	1+00	N	0+50	W	30	MED.BRW		CLAY	D	VALLEY
5 6	0+00		0+50	W	30		CLAY	SANDY	M	
7	0+00		0+85	W		MED.BRW		ORG.	M	VALLEY
8	0+00		1+75	W		BLK	ORG.	SANDY	W	Е.Н.
9	0+00		0+50	E		BRW	SANDY	ORG	M	E.S
10	0+00		0+75	Ē		GRY _	SANDY		D	
11	0+00		1+15	E	30		CLAY	ORG	Ŵ	E.S
12	0+00		1+50	Ē	30		SANDY		D	E.H. + E.S.
13	4+00	S	0+10	Ē		DK.GRY	CLAY	ORG	W	E.S.
14	4+00	ŝ	0+50	W		MED.BRW		SAND	M	
15	4+00	S	1+25	W		LGT.BRW		CLAY	D	E.H.
16	4+25	ŝ	1+75	W		BRW	CLAY	ORG	M	VALLEY
17	4+00	S	2+25	W	25		CLAY	ORG	M	_
18	4+00	S	2+75	W	40	GRY/BLK		ORG	Μ	DEP.
19	4+00	S	3+50	W	15	GRY	CLAY	ORG	М	DEP.
20	4+00	S	4+25	W		BLK	CLAY	ORG	M	E.S.
21	2+00	S	0+60	Е	30	BRW	CLAY		M	E.S.
22	2+00	S	0+25	E	40	BRW	CLAY	ORG	M	DEP.
23	2+00	S	0+25	W	30		CLAY	ORG	M	DEP.
24	2+00	S	0+75	W	25	BLK	ORG		M	
25	2+00	S	1+25	W		BRW	SAND		D	
26	2+00	S	1+50	W	35	BRW	CLAY	ORG	M	DEP.
27	2+20	S	2+00	W	35	BRW	SAND		D	DEP.
28	2+00	S	2+55	W	35	LGT.BRW	CLAY	ORG	M	E.H.
29	2+00	S	3+10	W	30	BRW	CLAY	ORG	W	E.S.
30	5+10	N	0+25	W	30	LGT.BRW		SAND	D	VALLEY
31	5+10	N	0+90	W		BRW	CLAY	SAND	D	VALLEY
32	5+00	N	2+00	Ε	35	GRY	CLAY	ORG	W	VALLEY

-	33	5+00	N	·1+80	Е	35	BRW	CLAY	ORG	M	E.V.
	34	5+05	Ν	0+75	E	25	BRW	SAND	ORG	D	DEP.
	35	5+00	N	0+35	Ε	30	BRW	SAND	CLAY	D	CONTACT
	36	4+20	N	0+00		50	BRW .	ORG	CLAY	M	DEP.
	37	3+05	N	2+00	Ε	35	DRK.GRY	CLAY	ORG	W	VALLEY
	38	3+00	N	2+80	E	30	MED.BRW	SAND		D	
	39	3+00	N	1+45	E	30	BRW	SAND		D	
	40	3+00	N	1+00	E	25	BRW	CLAY	SAND	Μ	DEP.
	41	2+90	N	0+10	E	25	BRW	CLAY	ORG	M	CONTACT
	42	3+00	N	1+10	W	35	DRK.BRW	CLAY	ORG	W	E.H.+ E.S.
	43	2+50	N	0+05	W	30	BLK	ORG		W	E.S.
	44	2+25	N	0+30	W	30	GRY	CLAY		W	E.S.
	45	1+75	Ń	0+75	Е	30	BRW	ORG	CLAY	M	DEP.
	46	2+00	N	1+30	E	30	BRW	CLAY	ORG	M	DEP.
	47	2+00	Ν	1+90	Ε	30	GRY	CLAY		W	VALLEY

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CRAN	BERRY LAKE							
SPL	STATION	POSITION	DEPT	HCOLOUR1	COMP1	COMP2	HUM	
65			35	GRY	CLAY	ORG	W	VALLEY
66			20	<b>BLK/GRY</b>	CLAY	ORG	M	FLAT
67			30	BLK/GRY	CLAY	ORG	M	FLAT
68			30	BLK	CLAY		W	VALLEY
69			25	GRY	CLAY	ORG	W	VALLEY
70			30	BRW	SILT	CLAY	D	FLAT

FIFT	H DEPOT	LAKE	(WEST)	PR	OFIL	Ε				
SPL	STATIO	N	POSITION	N	DEP	THCOLOUR1	COMP1	COMP2	HUM	
71	0+00		0+00		25	BRW	ORG	CĽAY	M	
72	0+25	N	0+00		25	BRW	ORG	CLAY	Μ.	DEP
73	0+25	Ņ	0+42	W	30	BRW	SILT	ORG	D	DEP
74	0+25	Ň	1+00	W	35	GRY/BLK	CLAY	ORG	W	E.SWAMP
75	0+25	N	2+00	W	25	BRW	SILT	CLAY	D	DEP
76	0+25	N	3+00	W	30	GRY	CLAY		D	DEP
77	0+25	N	3+95	W	30	BRW	SILT	CLAY	D	DEP
78	0+25	N	4+20	W	30	BRW	SILT	CLAY	D	DEP
79	0+25	N	4+90	W	30	BRW	SILT		W	L.S.
80	0+50	S	4+60	W	30	BRW	SILT	CLAY	D	E.H.
81	0+75	S	4+60	W	30	GRY	CLAY		W	CREEK

•

F	IFTH	DEPOT	LAKE	(NORD)	Ρ	ROFILE	3				
SI	PL 8	STATION	[	POSITION	ŧ	DEPTH	ICOLOUR1	COMP1	COMP2	HUM	
82	2 5	5+00	W	0+20	N	30	LGT.BRW	CLAY	SILT	M	LOW GROUND
83	35	5+00	W	0+50	N	30	BRW	SILT		D	SLOPE
84	4 5	5+00	W	1+00	N	30	BRW	SILT		D	FLAT
85	5 5	5+00	W	1+25	N	30	BRW	SILT	CLAY	D	DEP
86	6 E	5+00	W	2+00	Ν	30	BRW	SILT		D	SLOPE
87	75	5+00	W	2+30	N	35	GRY	CLAY	SILT	M	E.H.+E.S.
88	3 5	5+00	W	0+00	S	40	BRW	SILT	CLAY	D	E.H.
89	3 5	5+00	W	0+35	S	30	BRW	SILT	CLAY	D	SLOPE
90	) 5	5+00	W	0+90	S	40	BRW	SILT		D	FLAT
91	L 5	5+00	W	1+25	S	35	GRY	CLAY		W	DEP
92	25	5+00	W	1+50	S	35	BRW	SILT	CLAY	M	E.H.
93	3 C	)+90	Е	4+75	S	35	GRY	SILT		W	E.H.+E.S.

#### DESCRIPTION OF GEOCHEMICAL SOIL SAMPLES ARDOCH PROJECT (CLARENDON TOWNSHIP)

•

W.BRACK OPAP 92-233

1	10.75		POSITION	•	DELL	HCOLOUR1	COMP1	COMP2	HUM	
1	13+75	Ε	6+75	N	25	GREY	SILT		M	E.S.
2	13+25	Е	6+75	N	30	GREY	SILT		M ·	E.S.
3	13+00	E	7+50	N	35	BRW	SILT	CLAY	W	E.H.+E.S
4	13+00	E	8+00	N	20	MED.BRW	CLAY	SILT	D	DEP
5	13+00	Е	8+00	N	30	DK.BRW	ORG	SILT	D	DEP
6	13+00	E	8+00	N	45	MED.BRW	SILT	CLAY	D	DEP
7	12+75	E	8+75	N	30	MED.BRW	SILT		D	HILL
8	12+75	Ε	9+75	N	30	LGT.GRY	CLAY		М	E.H.
9	12+00	E	10+00	N	30	BLK ~	ORG		W	E.RIVER
10	12+00	Ε	9+25	Ν	25	LGT.GRY	SILT		D	E.H.
11	12+00	Ε	8+00	Ν	30	GRY/BLK	CLAY	ORG	М	E.H.+E.S.
12	12+00	E	6+80	N	30	GRY	CLAY		W	E.H.+E.S.
13	11+00	E	7+00	N	60	BLK	ORG		W	E.H.+E.S.
14	9+50	E	7+00	N	30	BLK/GRY	ORG	CLAY	W	E.H.+E.S.
15	9+50	Ε	8+30	N	40	BLK	ORG		W	E.H.+E.S.
16	9+50	E	8+75	Ν	30	BRW	CLAY		M	FLAT
17	9+50	Е	10+15	N	30	GRY	CLAY		M	DEP
18	5+10	E	6+50	N	30	MED.BRW	SILT	CLAY	М	E.H.+E.S.
19	5+00	Е	7+75	N	35	BLK/GRY	ORG	CLAY	W	E.H.+E.S.
20	5+00	Е	8+05	N	25	BRW	SILT		D	HILL
21	5+00	E	8+50	N	30	BRW	SILT		D	DEP
22	5+00	E	8+75	N	30	LGT.BRW	CLAY	SILT	M	HILL
23	5+00	E	9+15	N	35	BRW	SILT	CLAY	M	DEP
24	5+00	E E		N	30	MED.BRW	SILT		D	SLOPE
25	5+00		9+75		30	MED.BRW	SILT	CLAY	D	DEP
26	5+00	Е	10+00		30	BRW	SILT		D	HILL
27	5+00	E	10+25		30	BRW	SILT		D	HILL
28	5+00	Ε	10+60		30	BRW	SILT		D	HILL
29	5+00	E		N	40	GRY	CLAY	ORG	W	E.H.+E.R.
30	6+00	E	10+75		25	BRW	CLAY	SILT	M	E.H.+E.R.
31	6+00	Ε	10+25		25	MED.BRW	SILT	CLAY	D	SLOPE
32	6+00	Е	10+00	N	20	BRW	SILT	CLAY	D	FLAT RIDGE

33	6+00	E	9+30		20	BRW	SILT	CLAY	D	E.H.
34	6+00	Е	9+00		30	BRW	SILT	CLAY	D	RIDGE
35	6+00	Е	8+25		35	BRW	CLAY	SILT	M	VALLEY
36	6+00	E	7+65	Ν	80	BLK	ORG		W	E.H.+E.S.
37	7+00	Ε	8+50	N	40	LGT.BRW	CLAY	SILT	M	E.H.
38	7+00	Е	8+80	N	30	LGT.GRY	CLAY		M	VALLEY
39	7+00	E	9+00	N	35	MED.BRW	CLAY		M	E.H.
40	7+00	Е	9+55	Ν	30	MED.BRW	SILT		D	E.H.
41	7+00	Ε	9+80	Ν	30	MED.BRW	SILT		D.	FLAT
42	7+00	Е	10+25	N	25	MED.BRW	SILT		D	SLOPE
43	7+00	Ε	10+55		40	LGT.GRY	CLAY		M	E.H.
44	8+00	Ε	10+50	Ν	40	GRY	CLAY		M	E.S.
45	8+00	Ε	10+25	Ν	35	MED.BRW	CLAY	SILT	М	FLAT
46	8+00	Ε	10+00	N	40	MED.BRW	CLAY	SILT	D	DEP
47	8+00	Ε	9+50	N	40	LGT.GRY	CLAY		М	E.H.
48	8+00	Ε	9+25	N	30	BRW _	SILT		D	FLAT
49	8+00	E	8+75	N	30	BRW	SILT	CLAY	D	FLAT
50	8+00	Ε	8+15	N	30	BRW	CLAY		M	SLOPE
51	13+00	Ε	8+25	N	25	BRW	CLAY	SILT	D	SLOPE
52	13+00	Ε	8+50	N	25	BRW	SILT		D	
53	13+00	E	9+00	N	25	BRW	CLAY	SILT	D	RIDGE
54	13+00	Ε	7+75	N	25	BRW	CLAY	SILT	M	FLAT
55	4+00	Е	8+00	N	40	LGT.BRW	SILT	CLAY	D	E.H.+E.S.
56	4+00	Ε	8+75	N	30	LGT.BRW	SILT		D	SLOPE
57	4+00	Ε	9+10	N	30	BRW	CLAY	ORG	M	LOW GR
58	4+00	Ε	9+25	Ν	35	MED.BRW	CLAY	SILT	D	E.H.
59	4+00	Ε	9+50	N	30	DK.BRW	ORG	CLAY	M	LOW GR
60	4+00	E	9+90	N	30	MED.BRW	SILT		D	SLOPE
61	4+00	Е	10+25	N	50	<b>BLK/GRY</b>	ORG	CLAY	W	E.H.+E.S.
62	2+00	W	11+70	N	30	LGT.BRW	SILT	CLAY	М	E.H.
63	2+00	W	12+05	N	30	MED.BRW	SILT		D	SLOPE
64	2+00	W	12+25	N	30	MED.BRW	SILT		D	VALLEY
65	2+00	W	12+50	N	40	LGT.BRW	SILT		D	SLOPE
66	5+00	W	11+25	N	30	MED.BRW	SILT		D	E.H.
67	5+00	W	11+50	N	30	MED.BRW		CLAY	D	VALLEY
68	5+00	W	12+00	N	25	MED.BRW			D	SLOPE
69	5+00	W	12+25	N	25	MED.BRW	SILT		D	SLOPE
70	5+00	W	12+65		30	BRW	SILT	CLAY	M	DEP

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	71	5+00	W	13+10		30	MED.BRW			Ð	SLOPE
-	72	5+00	Ψ.	13+50	N	25	BRW	SILT		D	FLAT RG.
	73	5+00	W	13+75	Ν	25	BRW	SILT		D	FLAT RG
	74	5+00	W	14+00	N	25	DK.BRW	SILT	CLAY	M	FLAT RG.
	75	5+00	W	14+30	N	50	LGT.GRY	CLAY	SILT	W	DEP
	76	6+00	W	14+25		30	BRW/GRY		CLAY	D	RIDGE
	77	6+00	W	14+05		30	BRW	SILT		D	DEP
	78	6+00	W	13+70		30	BRW	SILT		D	RIDGE
	79	6+00	Ŵ	13+25		30	LGT.BRW			D	E.H.
	80	6+00	Ŵ	13+00		30	BRW	SILT		D	E.H.
	81	6+00	Ŵ	12+65		30	DK.BRW	SILT	ORG	M	SLOPE
	82	6+00		12+05		50 50	DK.BRW	SILT	CLAY	M	DEP
			W								
	83	6+00	W	11+65		40	BRW	SILT	CLAY	M	DEP
	84	4+00	W	13+50		30	BRW	CLAY	SILT	D	FLAT RG.
	85	4+00	W	13+25		30	BRW	SILT		D	E.H.
	86	4+00	W	13+00		20	BRW	SILT	CLAY	D	FLAT RG.
	87	4+00	W	12+75		35	BLK	ORG	CLAY	M	DEP
	88	4+00	W	12+50		40	BLK/GRY		CLAY	M	FLAT RG.
	89	4+00	W	12+00		20	BRW	ORG	SILT	D	SLOPE
	90	4+00	W	11+75	N	30	BRW ~	SILT		D	SLOPE
	91	4+00	W	11+25	Ν	35	BRW	CLAY	SAND	M	E.H.+E.S.
	92	3+00	W	11+45	N	40	GRY	CLAY	ORG	W	E.H.+E.S.
	93	3+00	W	11+95	Ν	25	BRW	CLAY	SILT	M	
	94	3+00	W	12+75		35	LGT.BRW	CLAY	SILT	M	DEP
	95	3+00	W	13+00		25	BRW	SILT	ORG	D	FLAT
	96	3+00	W	13+40		30	BRW	SILT		D	SLOPE
_	97	3+00	Ŵ	13+60		30	BRW	SILT		M	DEP/VALLEY
	98	3+00	W	14+00		30	BRW	SILT		D	E.H.
	99	3+00	W		N	30	BRW	SILT	ORG	D	RIDGE
	100	13+50	Ë	7+75		40	BLK/GRY		CLAY	Ŵ	E.H.+E.S.
	101	13+50	Ē		N	35	LGT.GRY		ODAT	M	SINK HOLE
	101	13+50	E		N	30	BRW	CLAY		M	TRAIL
	102	13+50	E	8+40		30	BRW	SILT	CLAY	D	DEP
	103	13+50	E	8+60		25	BRW	SILT	OLAI	D	SLOPE
				9+05		30	LGT.BRW	CLAY		M	FLAT
	105	13+50	E	6+80		30	BRW	ORG	CI AV		
		10+00	E						CLAY	D	SLOPE
		10+25	E	7+00		30	MED.BRW		0.00	D	E.H.+E.S.
	108	9+90	E	7+00	N	30	LGT.BRW	CLAY	ORG	M	E.H.+E.S.
					_						
		10+25	E	6+50		30	LGT.BRW		ORG	M	SLOPE
		8+50	E	6+25		30	LGT.BRW		SILT	M	E.H.+E.S.
		6+00	Е	7+65		30	LGT.BRW			W	E.H.+E.S.
		6+00	Е	7+90		30	BRW	SILT	CLAY	M	DEP
		5+50	Е	7+80		25	MED.BRW		CLAY	D	RIDGE
		5+50	Ε	8+25		25	MED.BRW		CLAY	D	E.H.
	115	5+50	Ε	7+60	N	30	LGT.BRW	SILT		D	E.H.+E.S.
_	116	5+25	Е	9+15		30	MED.BRW	CLAY	SILT	D	DEP
		4+50	Е	9+00		35	MED.BRW			M	DEP
		5+00	E	8+80		30	BLK	ORG	CLAY	M	DEP
		5+25	Е	8+50		40	BRW	CLAY	SILT	M	DEP
	120	4+70	Е	8+30	N	35	BRW	CLAY	SILT	M	DEP
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# APPENDIX 3

SAMPLE DESCRIPTION

(ROCK SAMPLES)

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ROCK SAMPLE DESCRIPTION

**OPAP 92-233** W.BRACK

LOCATION PROJECT PURPOSE SAMPLE NUMBER

DESCRIPTION

NORWAY L./POWERL.300M EAST WORKINGS WORKINGS WORKINGS WORKINGS WORKINGS WORKINGS NORWAY L. / POWERL. 50M WEST L./OLD L./OLD L./OLD L./OLD L./OLD **L./OLD CRANBERRY LAKE** CHIPPEGO LAKE CRANBERRY CRANBERRY CRANBERRY CRANBERRY CRANBERRY CRANBERRY **2** 2 2 2 S 5 23 22 A S **4 4 4** 4 æ SHF SHF SHF SHF SHF SHF SHF SHF SHF HIN 6726 6729 6730 6732 6733 6734 6735 6763 6731 6761

GNEISS-QUARTZ BRECCIA, SULPHIDES, APLITIC GRANITE, SULPHIDE SPECS SULPHIDE IMPREGN. BRECCIA BRECCIA BRECCIA QUARZITIC GNEISS WITH SULPHIDS RUSTY, MILKY QUARTZ, SULPHIDES RUSTY, TECTONIZED GNEISS SULPHIDE IMPREGN. SULPHIDE IMPREGN. ALTERED GNEISS DIRTY MARBLE RUSTY RUSTY RUSTY

> = SHEFFIELD TOWNSHIP SHF

= HINCHINBROOKE TOWNSHIP NIH

ANALYSIS ۳ ۲

REFERENCE SAMPLE 11 പ്പാ

THIN SECTION 11

ROCK SAMPLE DESCRIPTION: ARDOCH PROJECT (CLARENDON TWP.)

OPAP 92-233 W. BRACK

DESCRIPTION	QUARTZ BOULDER	BANDED FLSP-BI GNEISS	QUARTZ BOULDER, MILKY, HEMATITE	FIED MARBLE, RUST	MARBLE, SUGGARY TEXTURE	HB-GNEISS	LAMINATED QUARTZITE	GRANITE WITH MALACHITE	GABBRO	APLITIC ROCK	DIRTY RUSTY MARBLE	RUSTY QUARTZ BOULDER	BANDED GREY MARBLY, RUSTY SPECS		MARBLE WITH SPHALERITE
LOCATION	WEBBER SHOWING 100W 125S	WEBBER SHOWING 100W 125S	500E/8+25N	600E/8+00N	800E/9+60n	500E/9+00N	PIT ,	PIT	500W/12+00N	425W/4+00S	025W/3+50N	400W/12+50N	400W/12+50N	÷.,	SPHALERITE TRENCH
PURPOSE	R	<b>6</b>	/	A / R	S	S	æ	æ	S	8	A	8	R	S	A / R
SAMPLE PROJECT NUMBER	6745 ARD	~	6747 ARD	~	•	Á	6751 ARD	~1	'n	~	~	~	0	× N	6773 ARD

ARD = ARDOCH PROJECT A = ANALYSIS R = REFERENCE SAMPLE S = THIN SECTION ARD

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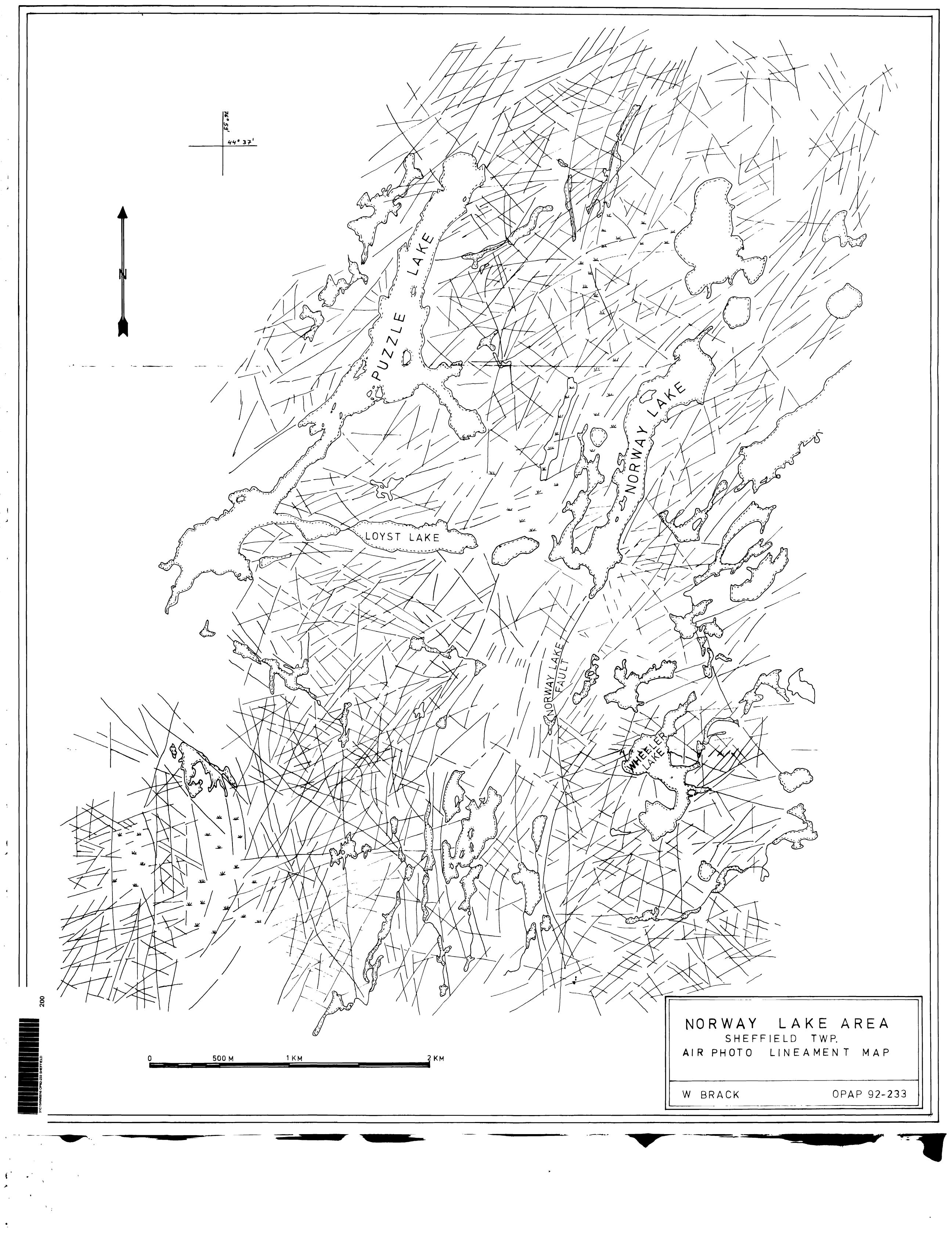
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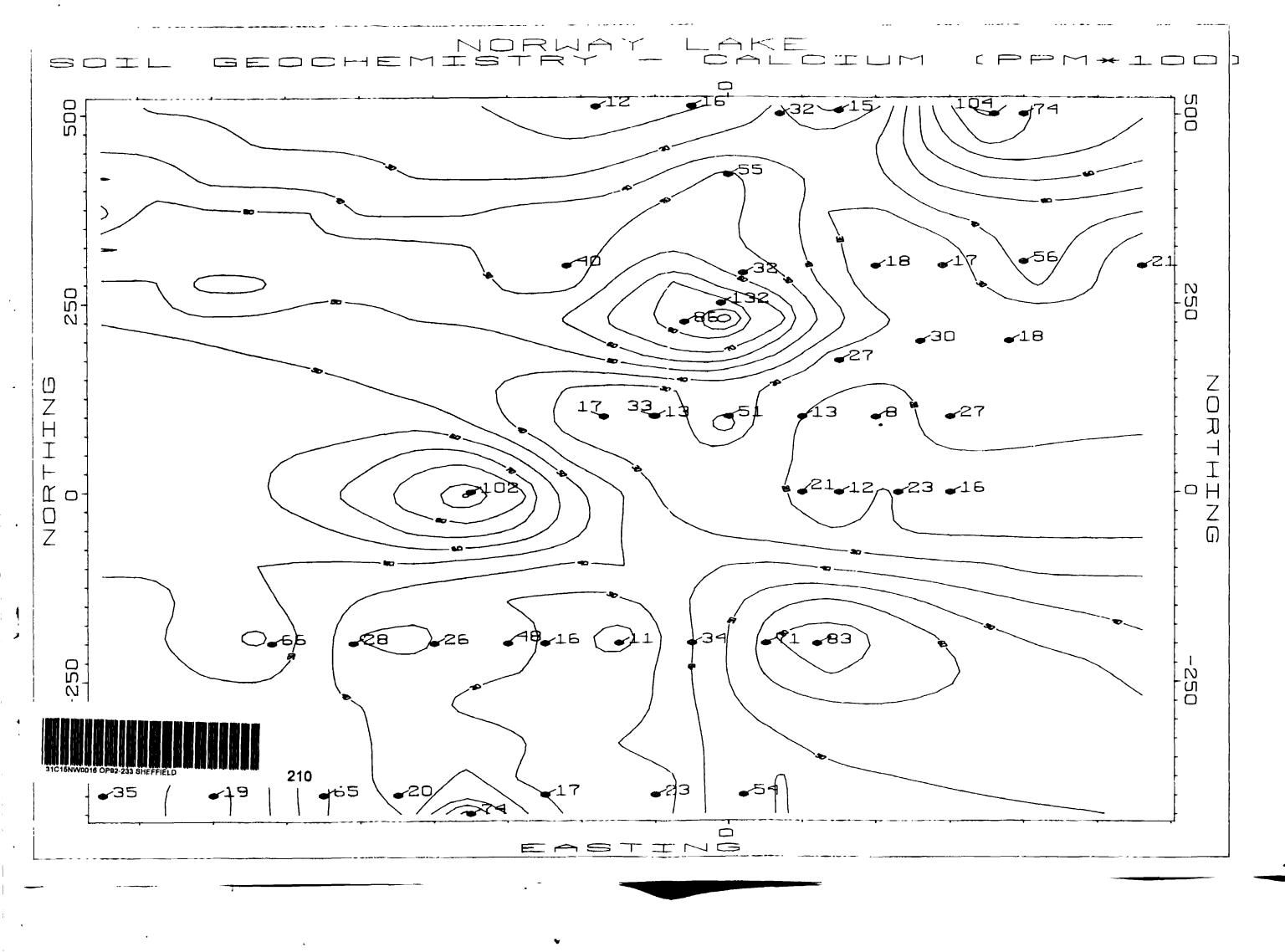
ROCK SAMPLE DESCRIPTION: KALADAR PROJECT (KALADAR TWP.)

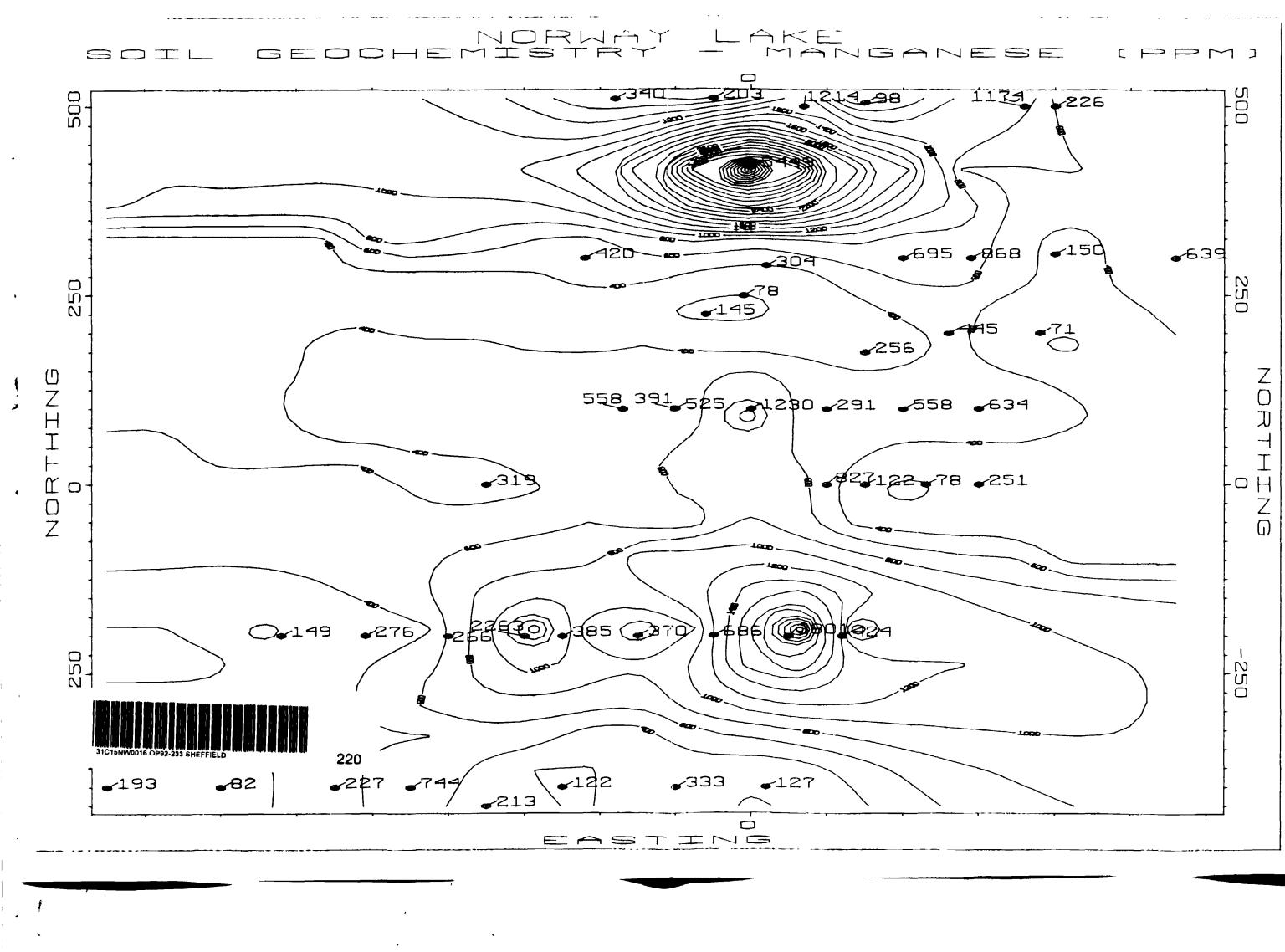
OPAP 92-233 W. BRACK

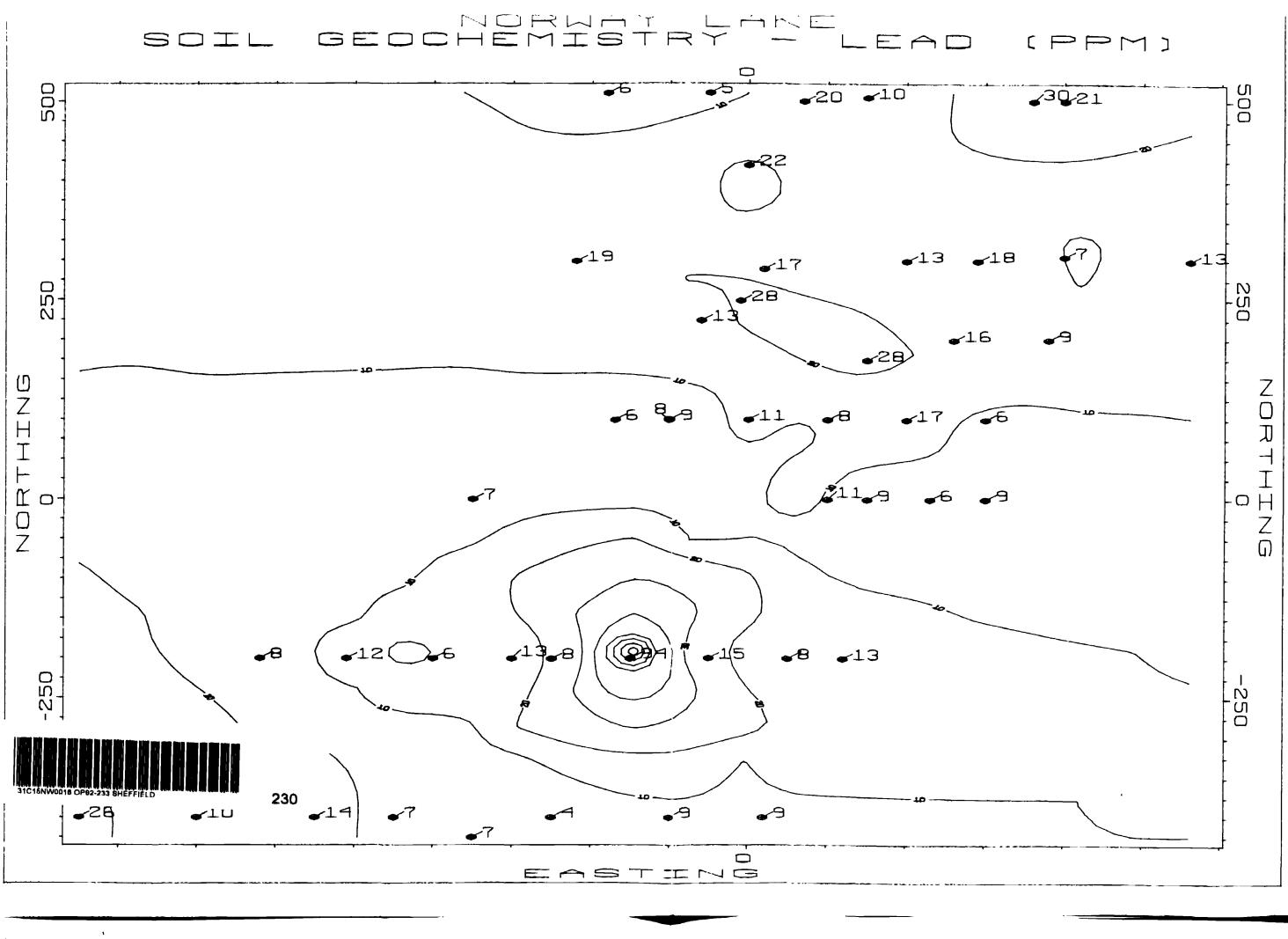
DESCRIPTION	BLENDE GNE CIOUS GNE COUARTZ V C QUARTZ V	SHEAR/RUSTY GRUS SHEAR/RUSTY GRUS QUARTZ-VEIN, COMPOSITE SAMPLE
LOCATION	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	600E/3+00S TRENCH II 600E/3+00S TRENCH II 400E/3+00S TRENCH I
PURPOSE	84448444444444 / / 8 8	A A A / R
7 6-	6738 KAL 6739 KAL 6740 KAL 6741 KAL 6742 KAL 6743 KAL 6764 KAL 6765 KAL 6766 KAL 6768 KAL 6769 KAL	810

**kal = Kaladar Project A = Analysis R = Reference Sample S = Thin Section** 





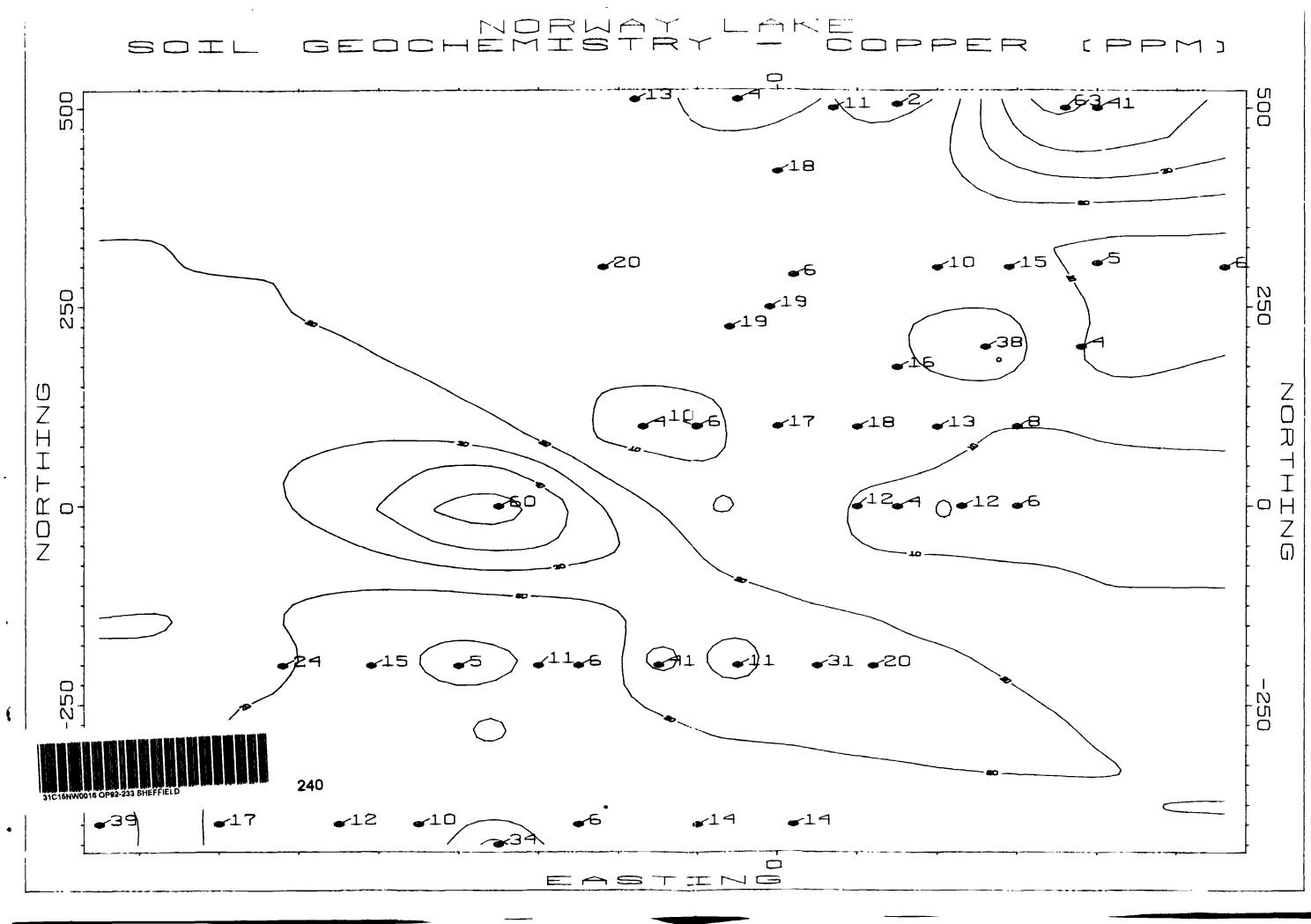


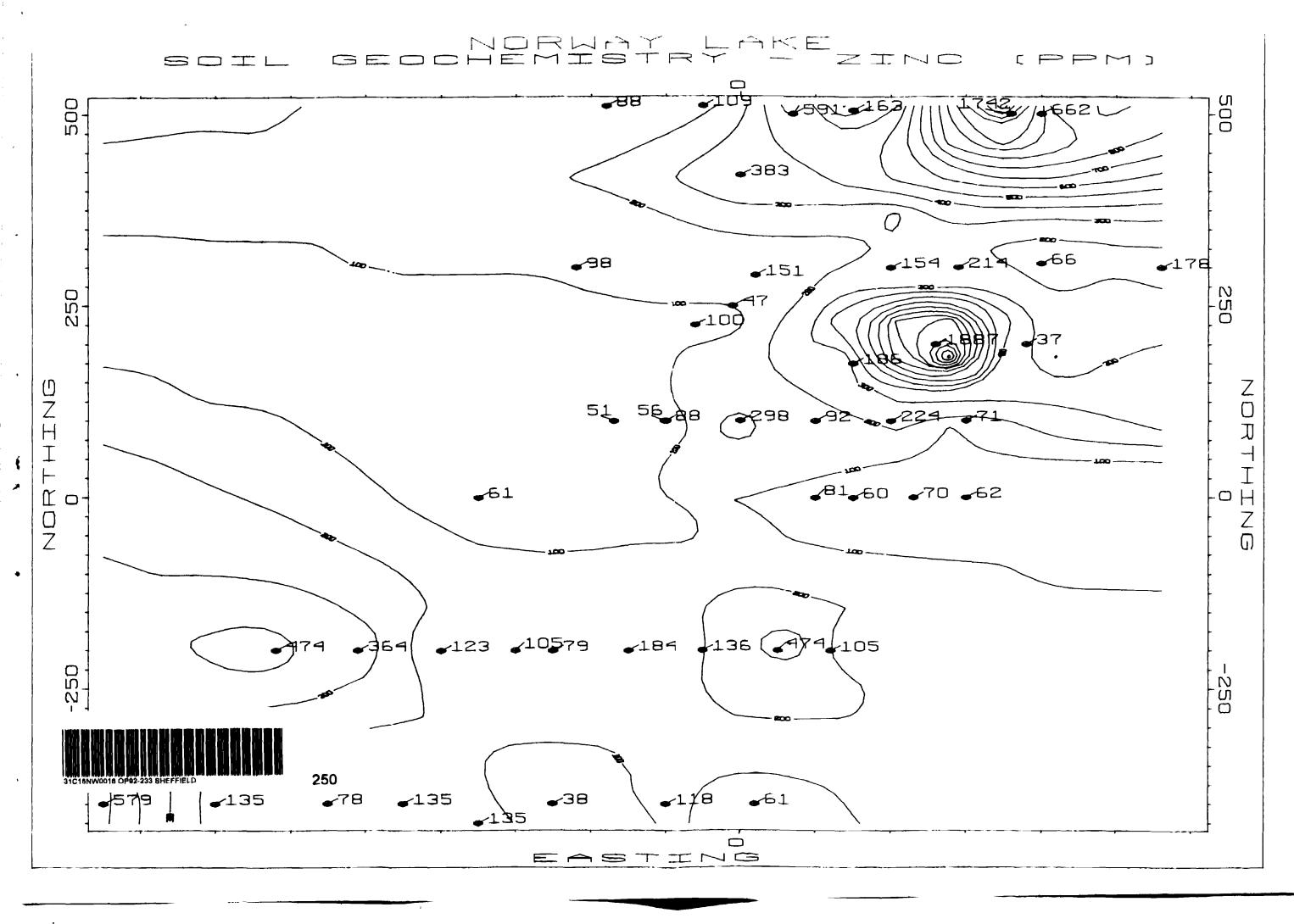


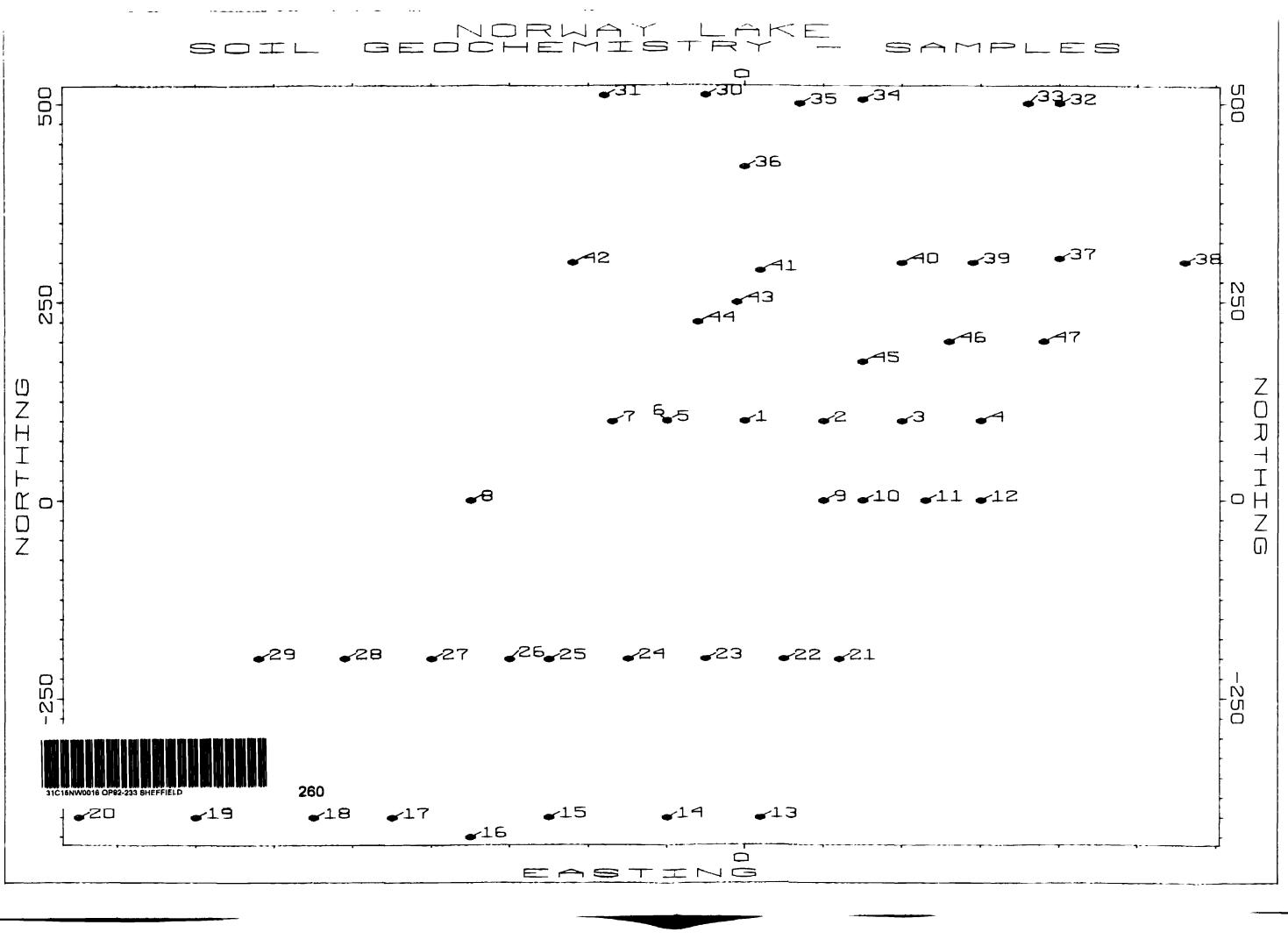
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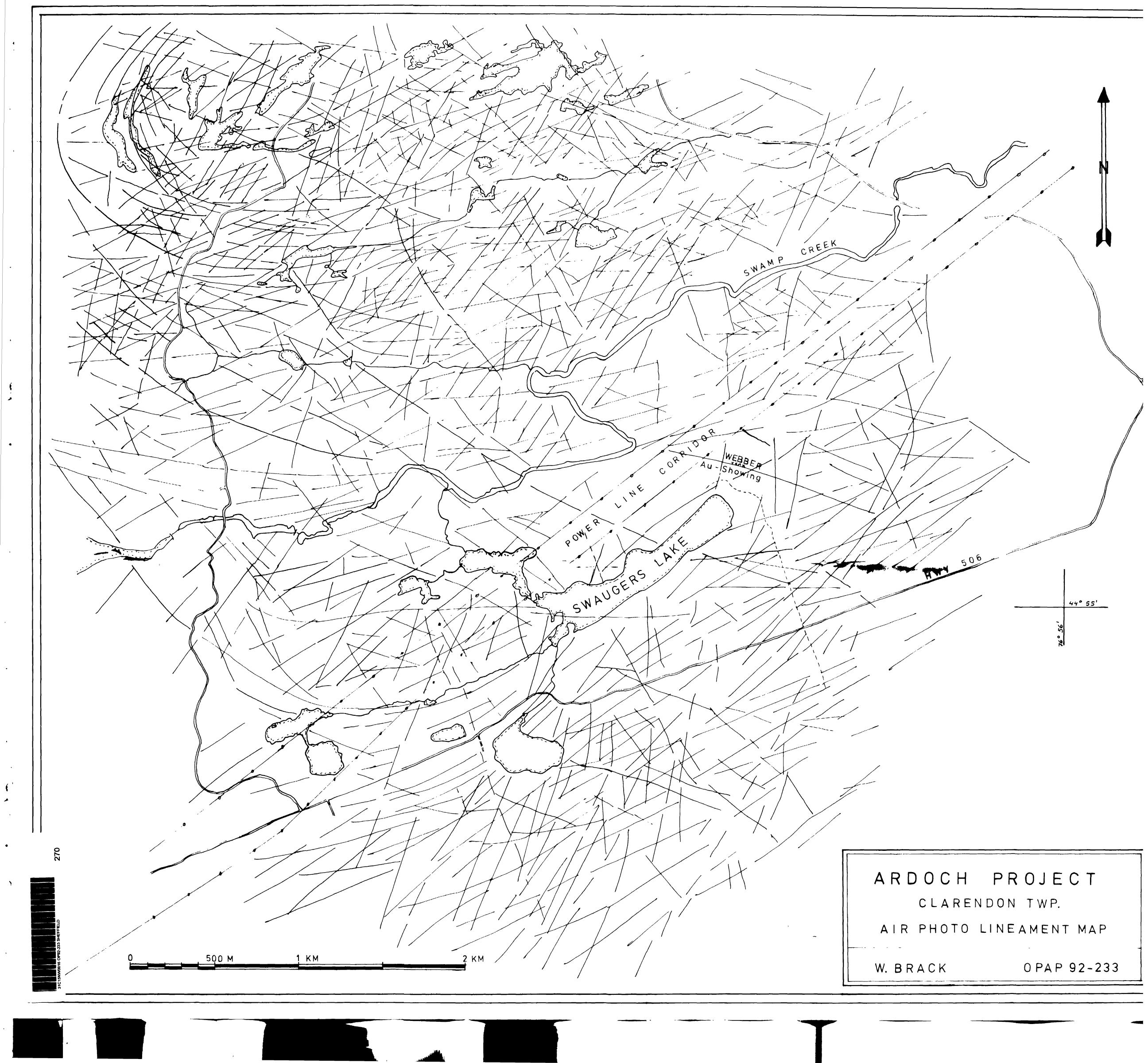
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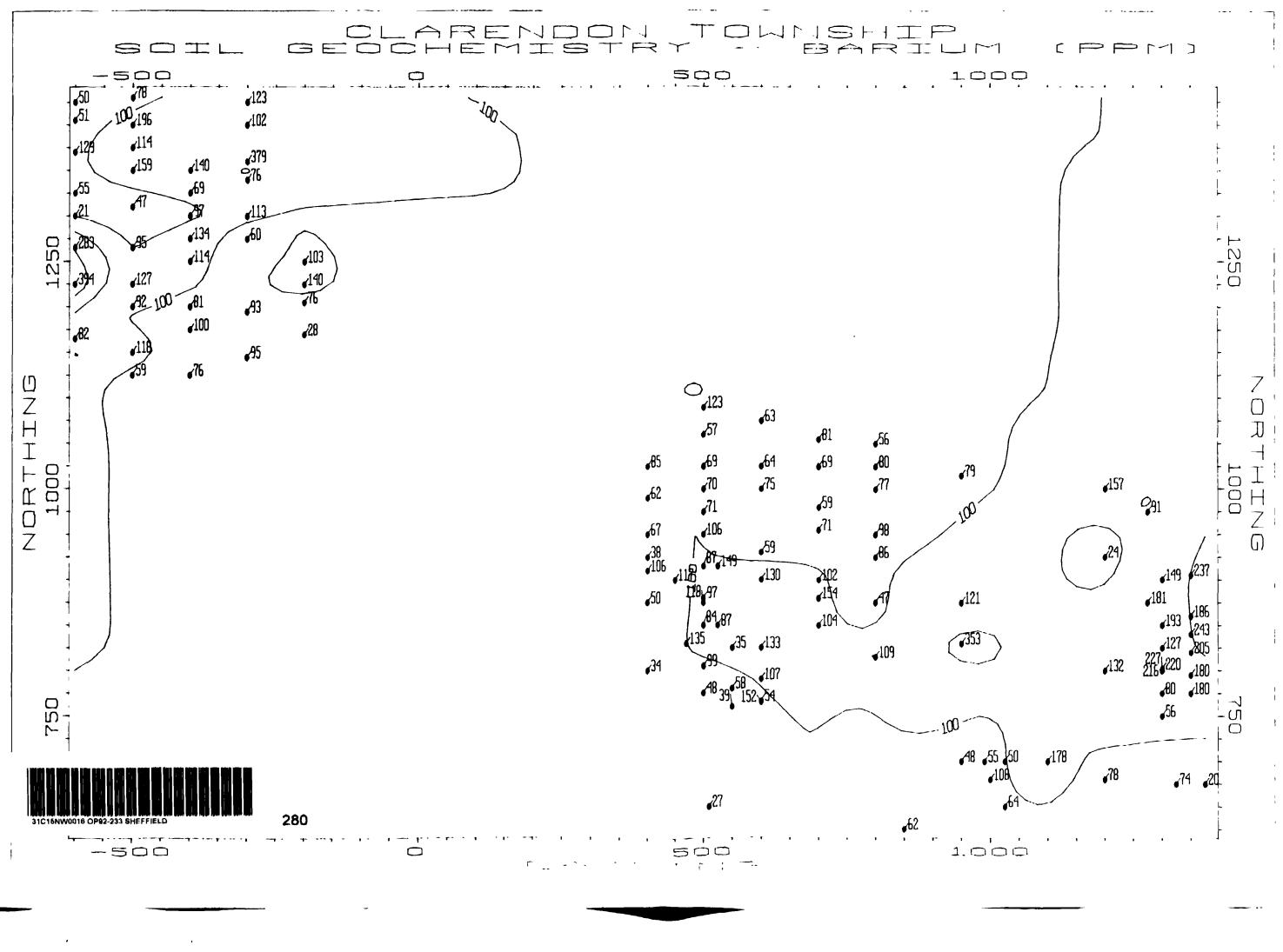






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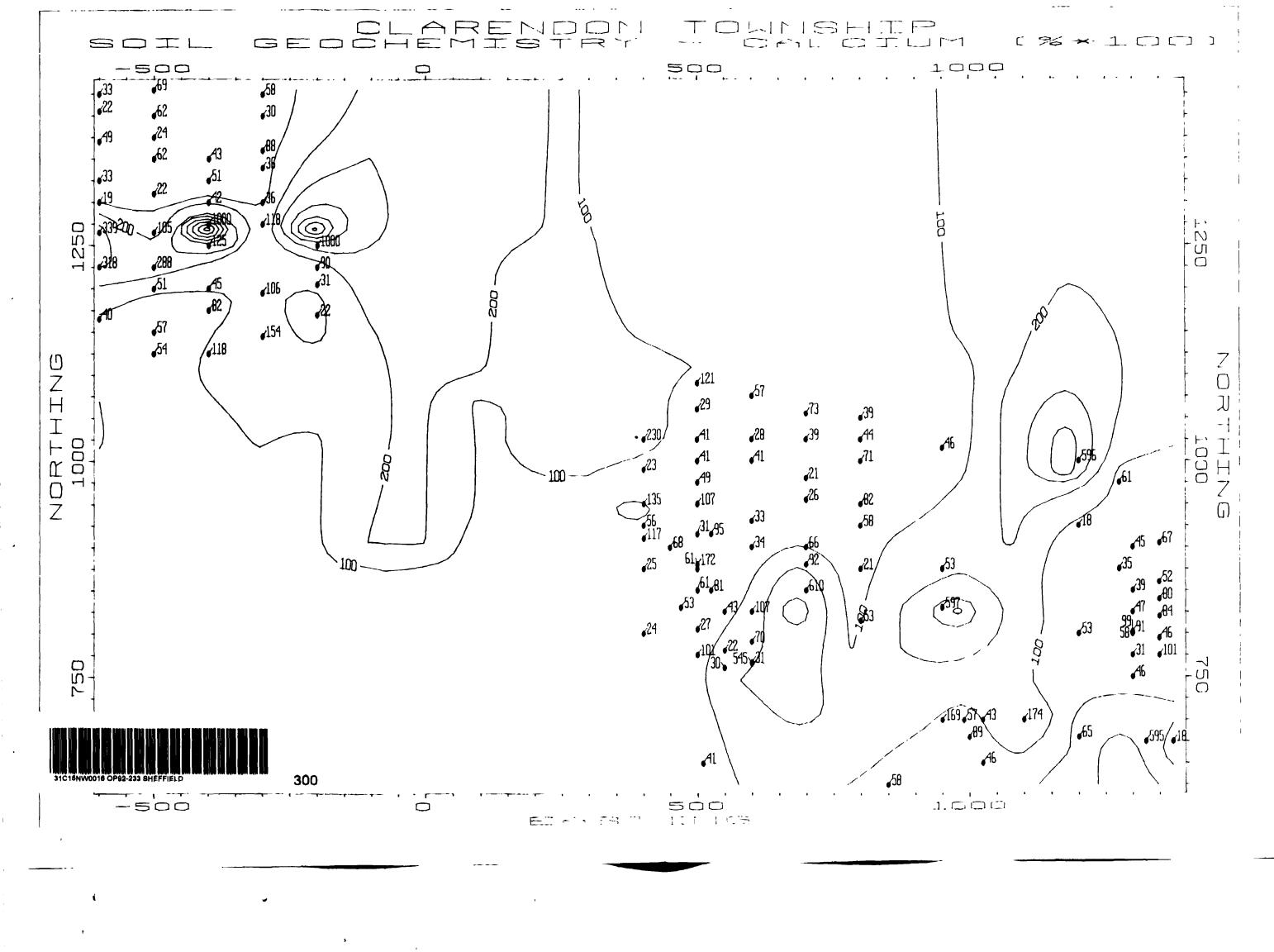


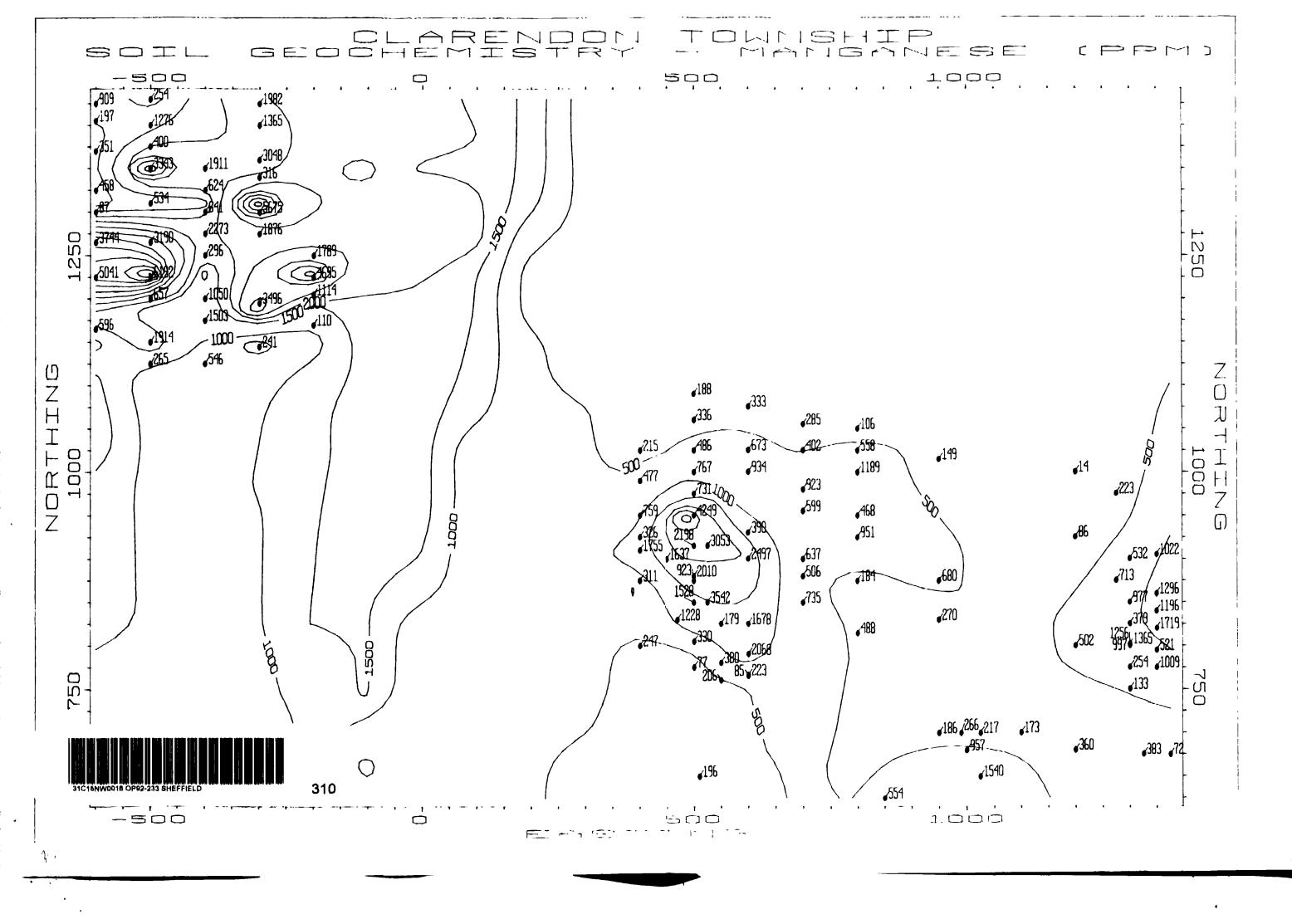


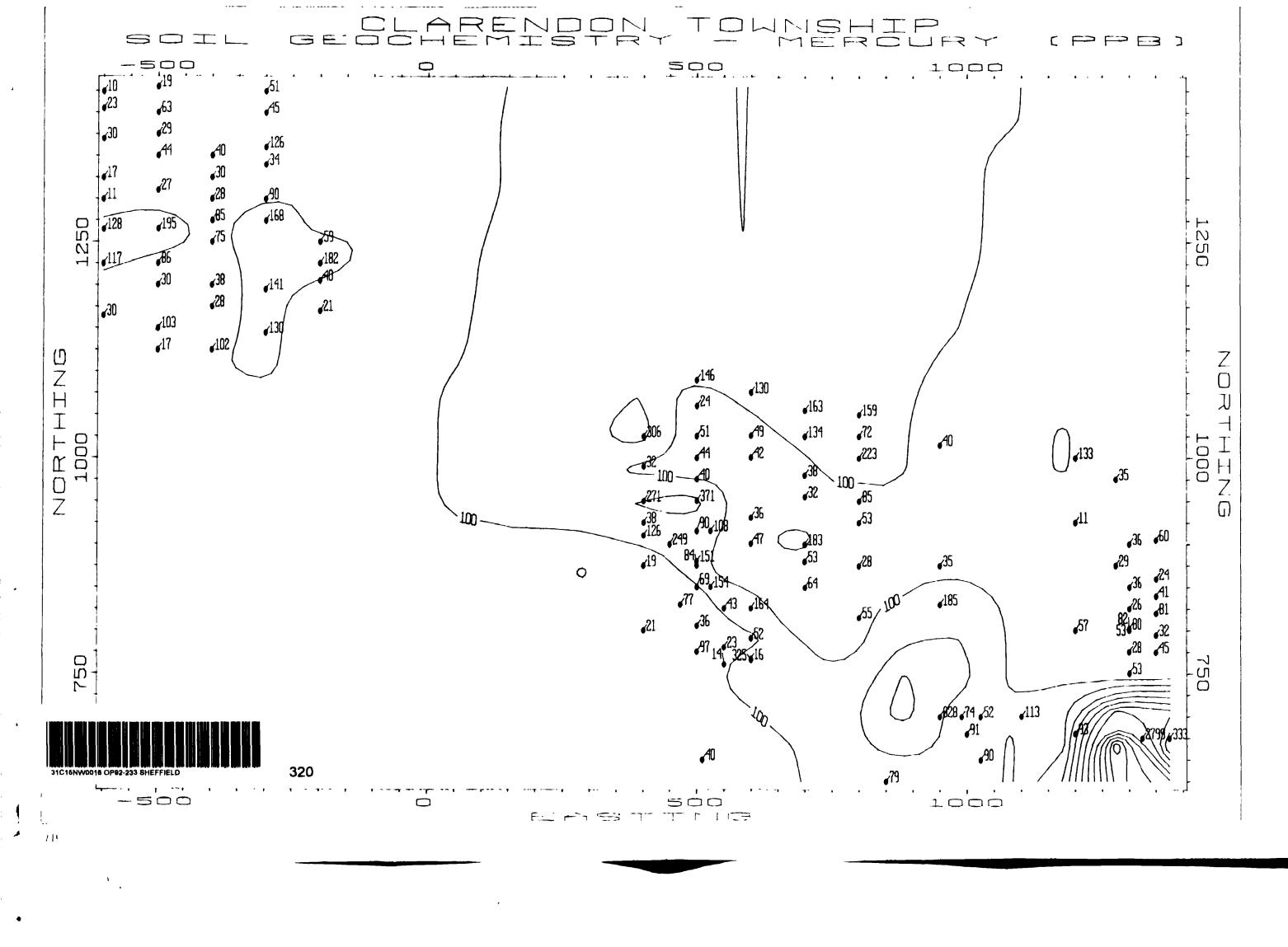


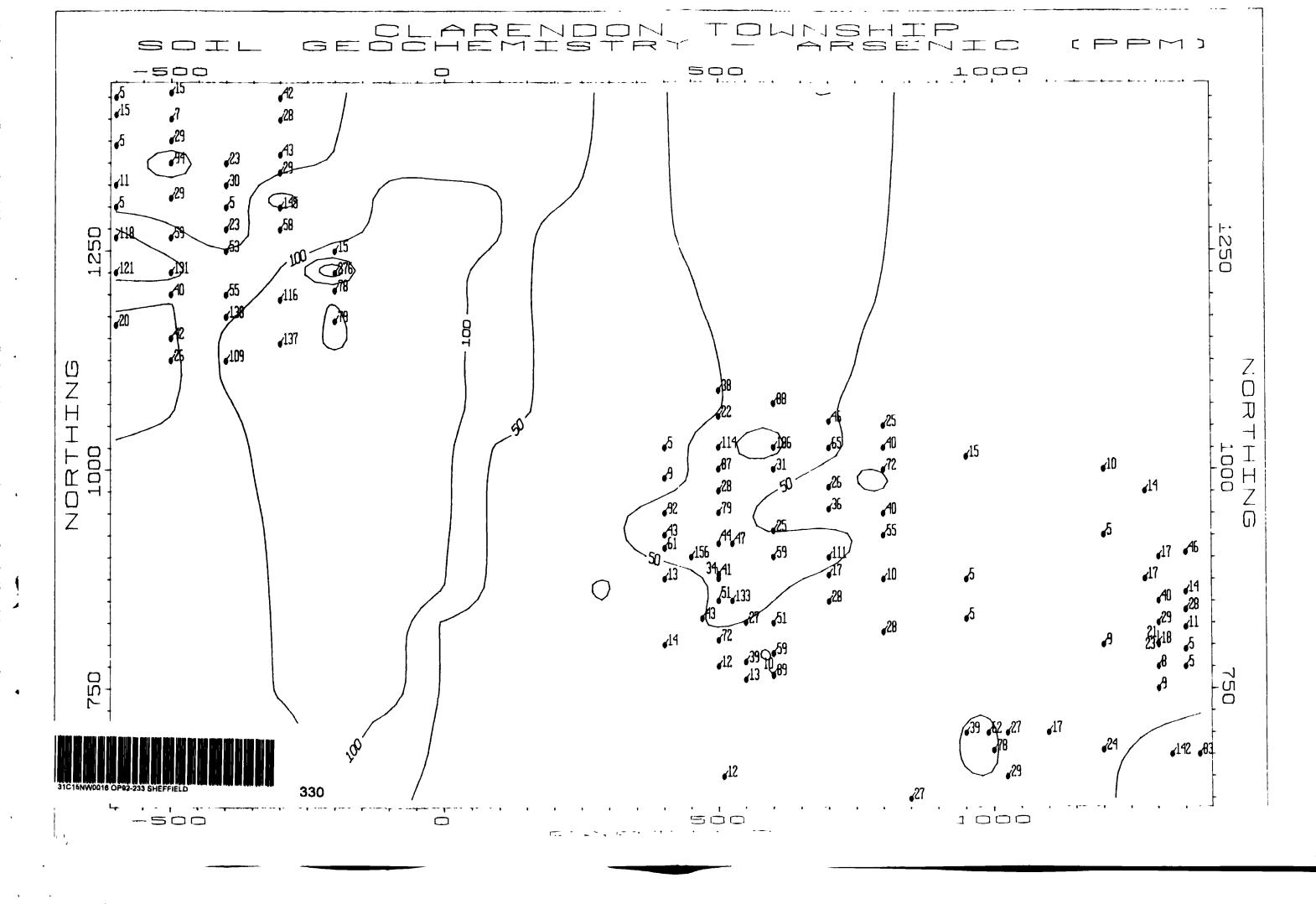
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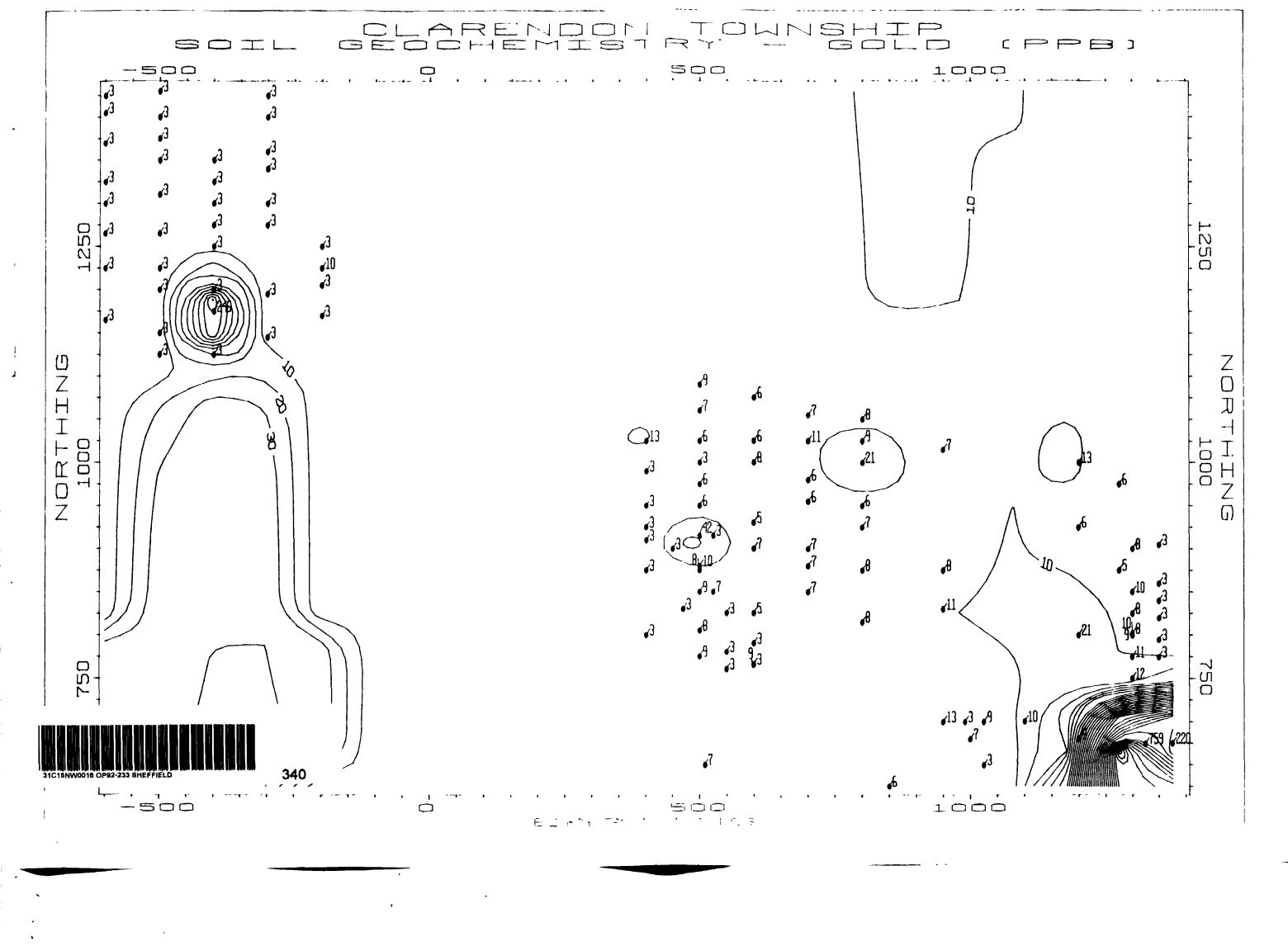
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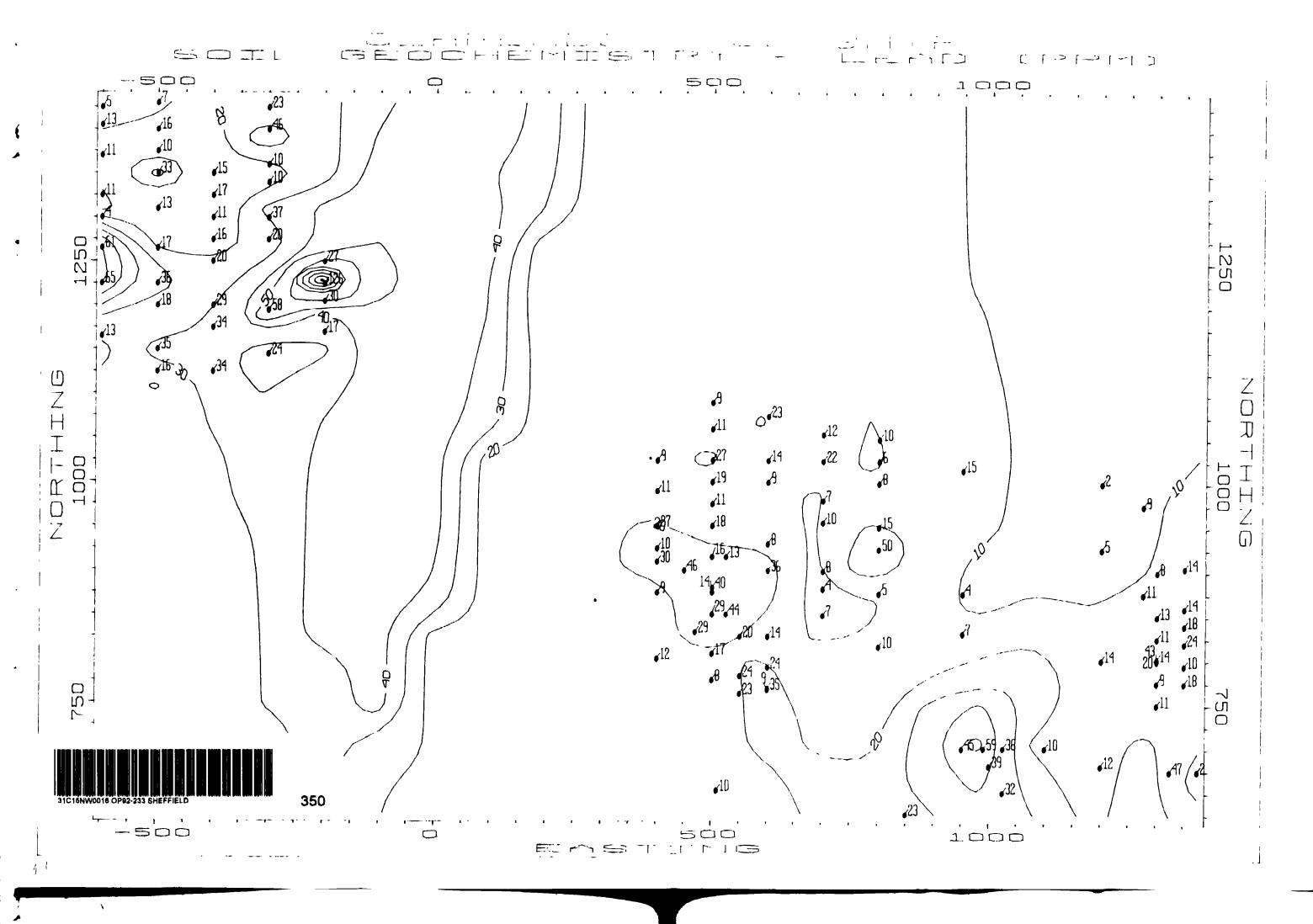




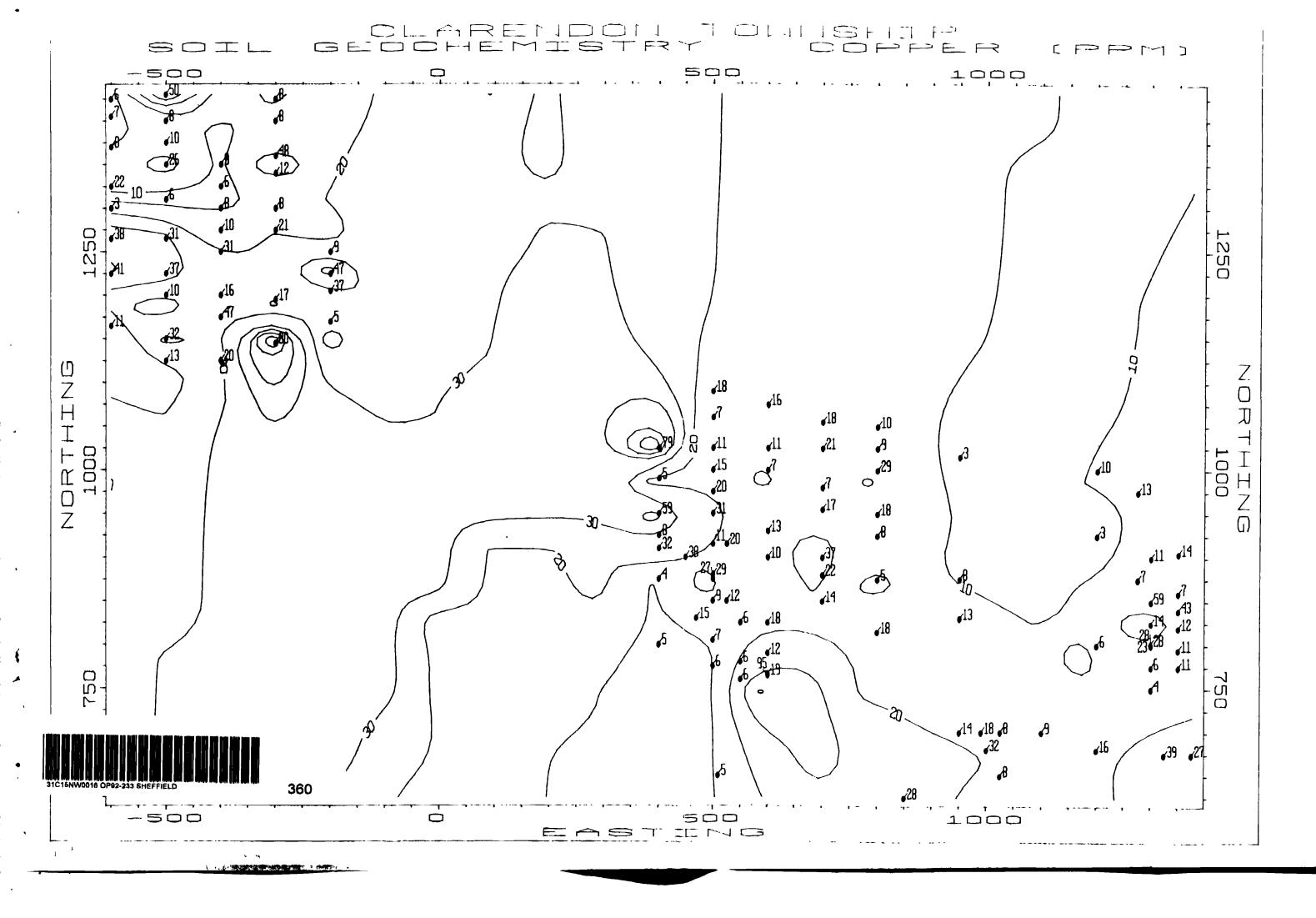








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420								112	••••		,16 ,108 ,10

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