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GEOLOGY AND GEOCHEMISTRY REPORT

on the

NAT PROPERTY

NAT 1-34 CLAIMS

Omineca Mining Division

N.T.S. 93-O-5

Latitude 55° 20'30"N Longitude 123° 43'W

Owner:
Ruanco Enterprises Ltd.

Operator:
Placer Dome Inc.

W.S. Pentland/M.B. Gareau

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

19,736
February 1990

TABLE OF CONTENTS

	Page #
1.0 INTRODUCTION	1
2.0 SUMMARY AND RECOMMENDATIONS	1
3.0 PROPERTY DEFINITION	
3.1 Location and Access	1
3.2 Physiography	3
3.3 Claim Information	3
3.4 Summary of Work	4
4.0 GEOLOGY	
4.1 Regional Setting	6
4.2 Property Geology	6
5.0 GEOCHEMISTRY	
5.1 Stream Sediments	8
5.1.1 Sample Collection	8
5.1.2 Preparation and Analysis	9
5.1.3 Discussion of Results	9
5.1.4 Interpretation	9
5.2 Soils	9
5.2.1 Sample Collection and Overburden Conditions	10
5.2.2 Preparation and Analysis	11
5.2.3 Discussion of Results	11
5.2.4 Interpretation	12
5.3 Rocks	12
5.3.1 Sample Collection, Preparation and Analysis	12
5.3.2 Discussion of Results	12
5.3.3 Interpretation	12
6.0 CONCLUSIONS	13
7.0 REFERENCES	14

APPENDICES:

- Appendix 1: Statement of Expenditures
- Appendix 2: Statement of Qualifications
- Appendix 3: Stream Sediment Sample Analytical Results
- Appendix 4: Soil Sample Analytical Results
- Appendix 5: Rock Sample Analytical Results

FIGURES:

- | | | |
|-----------|-----------------------------------|-----------|
| Figure 1: | Location of the Nat Property | Page 5 |
| Figure 2: | Claim Map | Page 2 |
| Figure 3: | Geology and Sample Locations | In Pocket |
| Figure 4: | Soil Geochemistry - Gold in ppb | In Pocket |
| Figure 5: | Soil Geochemistry - Zinc in ppm | In Pocket |
| Figure 6: | Soil Geochemistry - Copper in ppm | In Pocket |

1.0 INTRODUCTION

Precious metals, specifically gold, are the commodities of interest on the Nat Claims. The property is at an early stage of exploration. Placer Dome Inc. completed a modest program on the property in 1988. There was no previously recorded work for the area prior to 1988; and there is no current competitor activity.

Eighteen new claims were staked and added to the Nat Property in 1989. Geochemical, geophysical and geological surveys were conducted on the Nat 1 to 34 Claims in 1989 to follow-up on recommendations made from the 1988 exploration program and to investigate the new claims.

Results from the geochemical and geological work are the subject of this report. The geophysical surveys have been reported separately by H. Letient.

2.0 SUMMARY AND RECOMMENDATIONS

The 1989 geochemical surveys included stream sediment, soil and rock sampling on both the new and old claims. Soil gold Anomaly "A" and areas with outcrops of highly altered ultramafic rocks were specifically targeted for follow-up. A number of spot gold anomalies were also investigated. Geological mapping and some prospecting were conducted in conjunction with the geochemical sampling.

The geochemical results were disappointing overall and failed to identify any areas of potential mineralization. Soil Anomaly "A" is in overburden composed of sand and gravel, and may be a product of fluvial placering of gold; it is not a legitimate anomaly. The highly altered ultramafic rocks returned geochemical concentrations of gold and platinum in two samples, but no significant mineralization was found in outcrop or float.

The authors' recommendation is that Placer Dome Inc. carry out no further work on the Nat Claims; and that the property be returned to the vendor, Ruanco Enterprises Ltd.

3.0 PROPERTY DEFINITION

3.1 Location and Access

The Nat Claim Group is in the Omineca Mining Division in central British Columbia. It is approximately 175 km north of Prince George, and 39 km west of the logging community of MacKenzie (Figure 1).

Access from MacKenzie is only practical during the active logging season, at which time, a ferry servicing logging traffic provides transportation across Williston Lake. Dirt logging roads on the west side of this lake pass within one kilometre of the property boundary. The claims can also be reached by way of logging roads originating about 2.0 km south of Parsnip River on Highway 97.

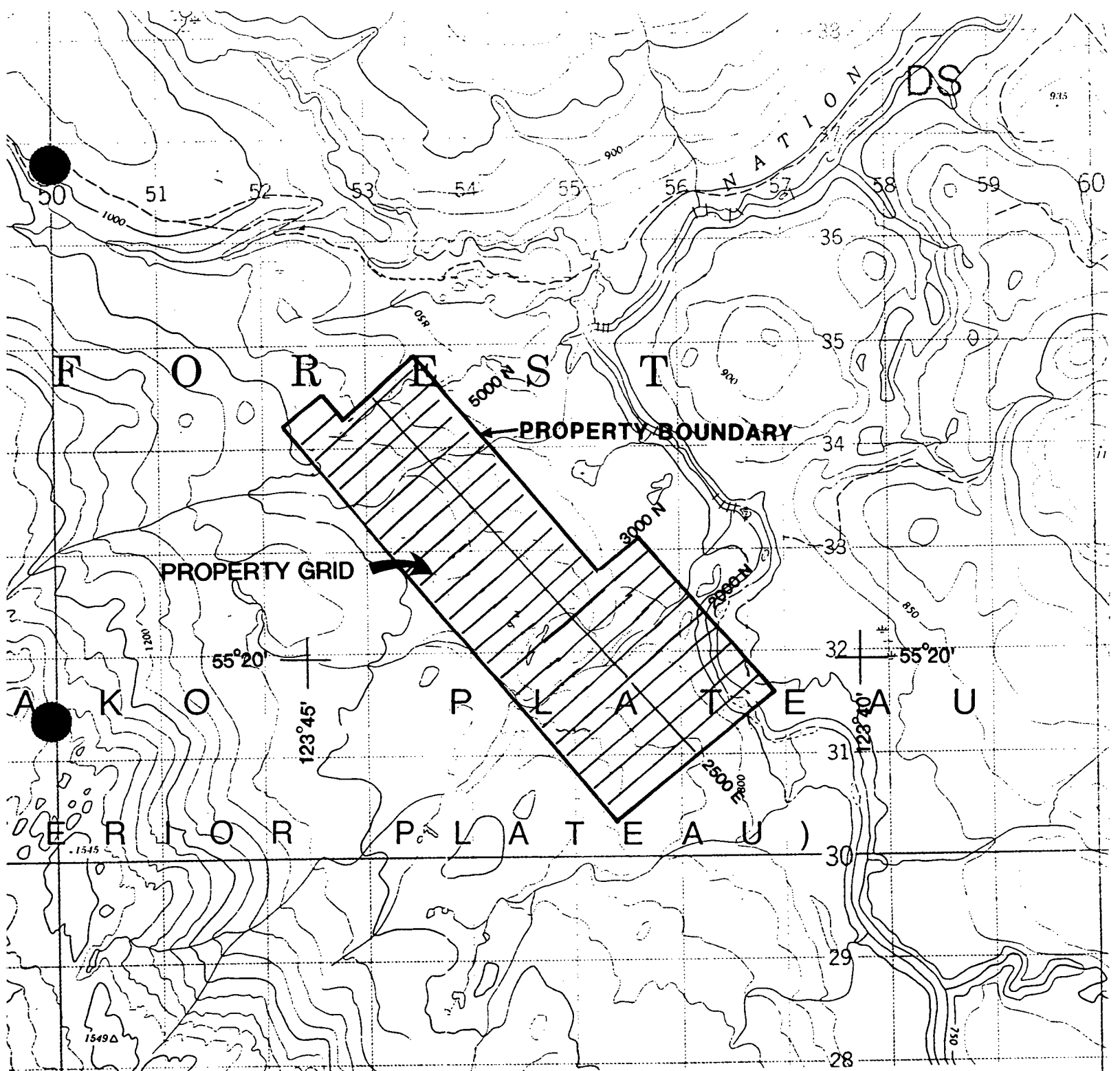


FIGURE 2

**CLAIM MAP - NAT PROPERTY
OMINECA MINING DIVISION**

N.T.S. 93-0-5

SCALE 1:50,000



3.2 Physiography

The property is immediately west of the Nation River and is in the northeastern corner of the Nechako Plateau which is here bounded to the north and east by the Omineca Mountains. Topographically the claims lie between 800 and 1000 m above mean sea level. The ground rises in a series of sand and gravel benches from the Nation River towards the claims; across the width of the property these benches give way to a continuous, moderately dipping, northeasterly facing slope.

Three creeks drain across the claims and flow into the Nation River. They have cut through the overburden cover forming steep walled gullies that are ten to twenty metres deep. Bedrock has been exposed in a few places in the gully walls and floors. Small lakes or ponds are located at the head of some of these creeks. Generally the area is well drained.

The whole area, until recently, was covered by relatively mature forests. Pine trees blanket the better drained lower benches while a mixture of spruce, balsam and pine occupy the upper slopes. Logging operations have removed trees from about one-third of the property but new vegetative growth is already well underway.

3.3 Claim Information

The Nat property consists of 34 contiguous two-post claims which will be organized to form a single group (Figure 2). Ruanco Enterprises Ltd. of Richmond, British Columbia, own the Nat claims. Placer Dome Inc. of Vancouver, British Columbia, has the claims under option from Ruanco. Information for the individual claims is tabulated below.

Claim Name	Units	Record No.	Anniv. Date
Nat 1	1	9217	Dec 21
Nat 2	1	9218	Dec 21
Nat 3	1	9219	Dec 21
Nat 4	1	9220	Dec 21
Nat 5	1	9221	Dec 21
Nat 6	1	9222	Dec 21
Nat 7	1	9223	Dec 21
Nat 8	1	9224	Dec 21
Nat 9	1	9225	Dec 21
Nat 10	1	9226	Dec 21
Nat 11	1	9227	Dec 21
Nat 12	1	9228	Dec 21
Nat 13	1	9229	Dec 21
Nat 14	1	9230	Dec 21
Nat 15	1	9231	Dec 21
Nat 16	1	9232	Dec 21
Nat 17	1	10843	Jul 09
Nat 18	1	10842	Jul 09
Nat 19	1	10841	Jul 09
Nat 20	1	10840	Jul 09
Nat 21	1	10839	Jul 09
Nat 22	1	10838	Jul 09
Nat 23	1	10837	Jul 05
Nat 24	1	10836	Jul 05
Nat 25	1	10835	Jul 05
Nat 26	1	10834	Jul 05
Nat 27	1	10833	Jul 05
Nat 28	1	10844	Jul 05
Nat 29	1	10845	Jul 07
Nat 30	1	10846	Jul 07
Nat 31	1	10847	Jul 07
Nat 32	1	10848	Jul 07
Nat 33	1	10849	Jul 07
Nat 34	1	10850	Jul 07

3.4 Summary of Work

A total of 54 person days from July 21st to 30th, 1989, was spent on sampling and geological mapping the Nat claims. Two geologists, W. Pentland and R. Hebig, with four student field assistants were responsible for the work.

Sampling on the property totalled 565 soil samples, 12 bulk stream samples, 12 stream sediment samples and 11 rock samples. All samples were analyzed for gold, silver, copper, zinc and arsenic. Rock and stream samples were also checked for lead, platinum and palladium.

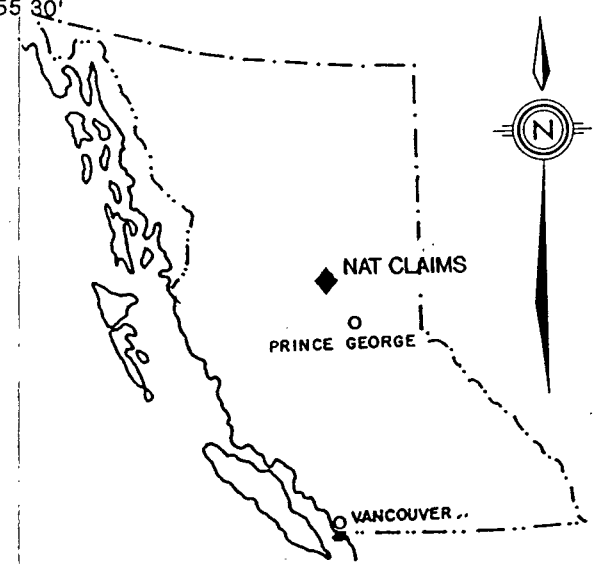
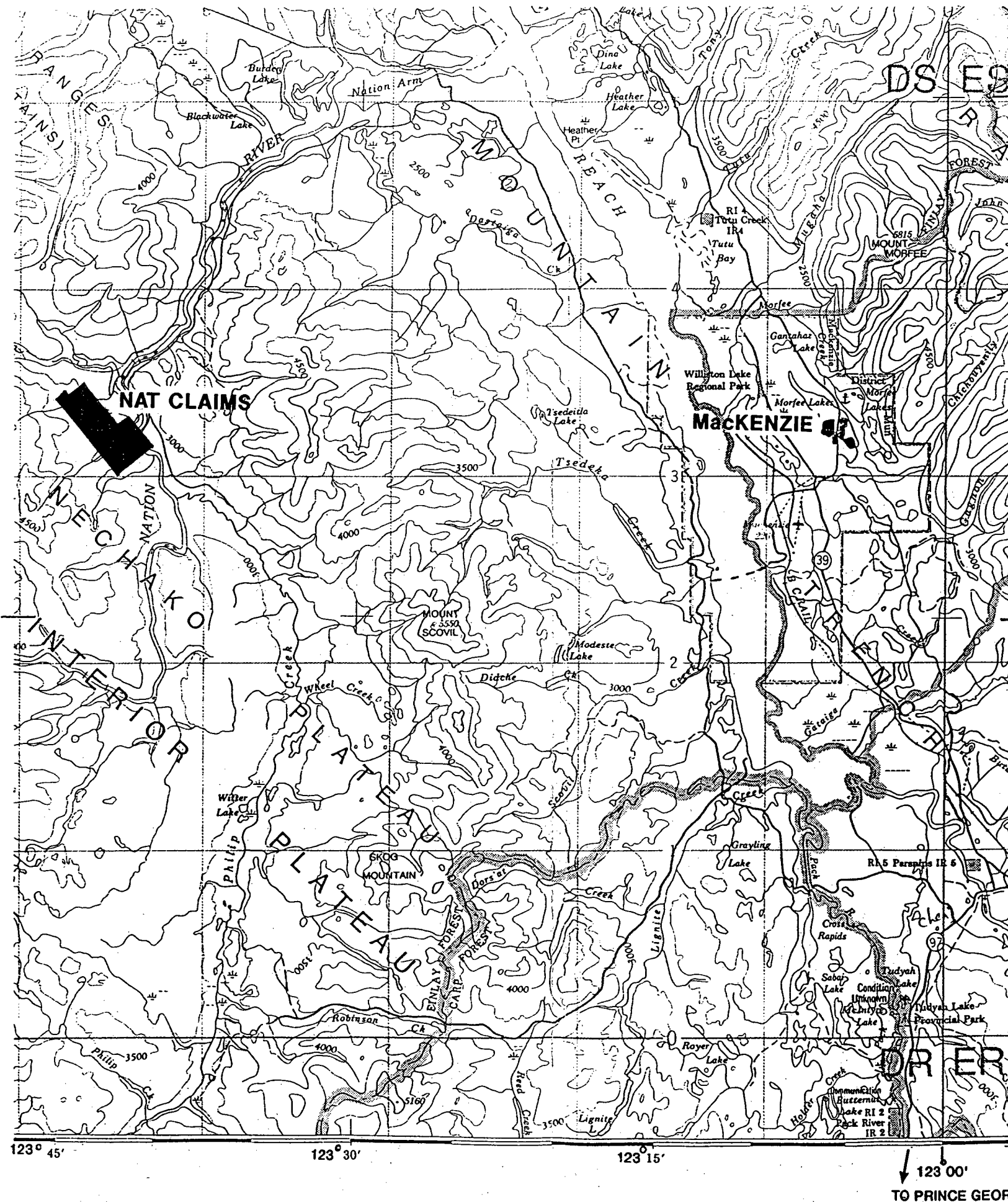


FIGURE 1

**LOCATION OF NAT PROPERTY
OMINECA MINING DIVISION
N.T.S. 93-0-5**

SCALE 1:250,000



↓ 123 00'
TO PRINCE GEORGE

Approximately 21 km of cleared, flagged and picketed line was established on the new claims for survey control. The work was done by the Hewitt Co. and Associates of Smithers, British Columbia. Soil sampling on the new claims was done at 40 m intervals on lines 200 m apart. Check sampling on the areas of interest found in 1988 was done at 20 m intervals and, in one case, at 10 m intervals on lines 50 m to 100 m apart.

Figure 3 shows the location of the survey grid, the stream sediment samples and the rock samples.

4.0 GEOLOGY

4.1 Regional Setting

The Nat claims are in a slice of Slide Mountain Terrane which forms part of the eastern assemblage of the Intermontane Superterrane (Wheeler et al, 1988). The Slide Mountain Terrane consists primarily of ocean-floor volcanic and sedimentary rocks probably deposited in an extensional marine tectonic environment. This terrane, as part of the large composite and allochthonous Intermontane Superterrane, is believed to have been abducted onto the western margin of the North American craton in the Jurassic (Monger et al, 1982).

Government regional mapping of the area (Muller, 1961) indicates extensive deposits of glacial drift with exposed bedrock essentially restricted to areas along major drainages and at elevations above approximately 1200 m. The Nat property is apparently underlain by Carboniferous volcanic and sedimentary rocks of the Slide Mountain Group or Cache Creek Group. The whole region was covered during the Pleistocene by the Cordilleran ice-sheet which moved in a northeasterly direction and deposited the unconsolidated glacial materials observed today.

Examination of the provincial government MINFILE database for N.T.S. 93-O-5 reveals that there are very few mineral occurrences present in the area surrounding the Nat Claims. Only one bedrock showing is reported, this being the Fortune's Eye molybdenum occurrence which is located approximately seven kilometres due west of the Nat property. Several placer gold occurrences are reported for channel bars along the Nation River and for a few of its large tributaries.

4.2 Property Geology

The claims are extensively covered with glacial deposits; bedrock exposures are very limited in number and extent. The southern and eastern areas of the Nat Property are overlain by widespread glaciofluvial deposits to a minimum of 60 m in thickness. The northern sector of the property is a very hummocky terrain with numerous large boulders at surface indicating an area of ablation till.

Only a few outcrops were added to the 13 found in 1988 and most of these are in the same general areas. Their locations, as well as the property geology, are shown on Figure 3. The exposures appear to be restricted to very local topographical highs (i.e. small hills), and to the banks and gully walls of the creeks crosscutting the property. Occasionally, small outcrops were found on the face of very steep slopes.

Three distinct rock units were encountered during mapping; these include bedrock exposures of argillite, ultramafic, and highly altered ultramafic rocks. Contacts between these units are buried and attempts to infer their location are handicapped by the paucity of exposures.

Exposures of medium to dark grey, fine grained argillite were encountered along the creek on L4800N, east of the baseline, and west of the baseline on L4000N. These sediments are foliated which result in a fissile and friable rock. White crystalline calcite veinlets less than 2.0 cm wide cross-cut the argillite exposed on L4800N. Bedding in the argillite gave strike/dip measurements of $075^{\circ}/54^{\circ}\text{SE}$ and $110^{\circ}/59^{\circ}\text{SW}$.

Ultramafic outcrops were only found west of the baseline within an area of high magnetic response in the geophysical survey. Outcrop surfaces are covered with lichen and are weathered; they generally appear as a medium grey colour. Fresh surfaces are variable in colour from medium green to dark grey. The ultramafic rocks are fine to medium grained and magnetic. They appear to be moderately to strongly serpentinized with minor steatitization as irregular, small patches along hairline fractures.

Highly altered ultramafic rocks form distinct, light orange-brown weathering outcrops. These rocks contain no recognizable relict minerals or textures. Their origin as ultramafic rocks is surmised from the presence of a distinct, alteration mineral- assemblage which is comprised essentially of iron-carbonate and talc with minor blebs of specular hematite. The rocks are medium to coarse grained, intensely weathered, and often appear to be sheared. A second alteration phase is superimposed on this initial suite of minerals. Pervasive silicification of variable intensity is accompanied by irregular, discontinuous, 0.5 to 3.0 cm quartz veinlets and trace disseminated, cubic pyrite. These highly altered ultramafic rocks contain the only sulphide mineralization found on the Nat Claims.

Ground magnetic results from the geophysical surveys by R. Cannon (1988) and H. Letient (1989) provide information that allows mapping of some rock units. The relatively unaltered ultramafic rock is magnetic in hand specimen and is distinguishable as a magnetic high in the geophysical results. This data is utilized on Figure 3 to interpret the distribution of the ultramafic unit. The magnetic data shows the ultramafic rocks extend from L2800N to L5600N on the west of the baseline. This magnetic anomaly trends northwest and varies in width from 150 to 400 m. It is open to the northwest but is cut-off to the southeast by a northeast striking fault inferred from the VLF-EM data.

A second, narrow magnetic high extends northwestward from L4200N to L5000N (Figure 3). It does not give as strong a response as the larger magnetic anomaly described above. There are no outcrops within this feature, and consequently, the nature of the bedrock giving rise to this magnetic response is unknown.

5.0 GEOCHEMISTRY

5.1 Stream Sediments

Two types of stream sediment samples were taken on the Nat Claims in an attempt to delimit a more restricted source area for the previously identified stream sediment gold anomalies that are located in the most southerly drainage. Placer Dome's "bulk" stream sediment sampling technique is specifically designed to follow up mechanically dispersed metallic minerals, particularly gold. Conventional silt samples were collected in conjunction with the bulks; they are designed to identify hydromorphic dispersion trains developed in clays, iron and manganese precipitates, and organic materials.

5.1.1 Sample Collection

Bulk stream sediment samples were collected from natural drop-out sites for heavy minerals in the stream channels; examples of these sites include plunge pools, riffles and the upstream side of channel bars. Clastic stream sediments from the selected sites were wet sieved through a -20 mesh stainless steel screen and caught in an aluminum basin. A steel shovel was used to dig up the sediment. Approximately two to three kilograms of sieved fraction were collected and transferred to a plastic bag to form one sample. Descriptions of each sample site were recorded for future reference.

A conventional silt sample was collected in the immediate area of each bulk sample. Material was taken from the accumulations of fine sediment in back eddies and quiet pools, usually located along the edges of the stream. A plastic spoon and a Kraft paper bag were used to obtain the silt sample.

All the creeks crossing the Nat Property are immature, abrading, first-order drainages. The stream channels are of moderate gradient; and are composed of a series of small rapids and waterfalls which provide many good sites for bulk sediment samples. Water flow appeared to be normal for summer in central British Columbia.

Stream sampling in 1989 was restricted to the southernmost creek. Anomalous sites from the 1988 program were repeated where possible and fill-in sampling was done at 150 m to 200 m intervals. Additional reconnaissance samples were collected to the westward, both on and off the Nat claims. The 1989 sample numbers are pre-fixed by the letter "A"; the 1988 numbers are designated by "NTB".

5.1.2 Preparation and Analysis

Both the bulk stream sediment samples and the silt samples were forwarded to Placer Dome's analytical laboratory in Vancouver, British Columbia. They were oven-dried and sieved to produce a -150 mesh fraction for the bulk samples and a -80 mesh fraction for the silt samples. The respective fractions were geochemically analyzed for silver, copper, zinc, lead and arsenic. Platinum and palladium concentrations were determined by fire assay. Gold in the bulk samples was analyzed geochemically; each sample was analyzed three times for gold in an attempt to address the problem of erratic gold distribution in natural materials, i.e. the "nugget-effect". Gold in the silt samples was more conveniently determined by fire assay in conjunction with the platinum and palladium analyses.

The extraction and detection procedures are summarized in Appendix 3.

5.1.3 Discussion of Results

A listing of the analytical results for the stream sediment samples is given in Appendix 3. The small number of samples precludes a statistical treatment of this data. Consequently only a visual inspection of the results is possible.

Results for the bulk samples are low for all elements except gold. The silt samples returned low results for all elements, including gold. In the bulk samples gold concentrations from 20 to 49 ppb are considered to be weakly anomalous; from 50 to 99 ppb are moderately anomalous; and > 100 ppb are highly anomalous. Three bulks (A3505, A3511, and A3581) returned highly anomalous gold values. Sites with weakly to highly anomalous gold results are scattered along the full length of the drainage.

5.1.4 Interpretation

Gold concentrations in the bulk samples are the only significant results of this survey. All remaining results for both the bulks and silts are considered to be background concentrations.

Bulk sample gold results fail to identify a single area of interest; no single input source area is defined. This might be attributed to patchy concentrations of gold throughout the overburden cover.

5.2 Soils

The 1989 soil program had several different aspects. The grid sampling was extended to provide coverage over the new claims in the search for indications of mineralization. Detailed work was carried out to investigate gold Anomaly "A" (Gareau, 1988); this entailed additional grid lines at 50 m intervals with soil samples collected every 20 m. Spot anomalies of > 60 ppb gold found in the 1988 sampling program were detailed by sampling at 20 m

stations on a square pattern at 20 m and 40 m outwards from the original anomaly. An area from L2800N to L3200N in the vicinity of the baseline was sampled at 10 m stations on lines 100 m apart. This latter area contains several outcrops of highly altered ultramafic rock and an electromagnetic anomaly (Cannon, 1988).

5.2.1 Sample Collection and Overburden Conditions

Sampling was conducted on a flagged and picketed grid with the baseline oriented 320° azimuth. The grid is perpendicular to the regional geology, but is poorly oriented with respect to regional iceflow movement which is subparallel to the direction of the grid lines. Indicators of the local glacial direction were not found.

A steel mattock, plastic spoon and Kraft paper bags were used to obtain and package the samples. B-horizon soil material was collected from most sites. Sample depth ranged from 10.0 to 65.0 cm, but more commonly averaged 20.0 to 30.0 cm. Notes on the nature of the soil material taken and on-site conditions were recorded for reference during data interpretation.

Soils on the Nat Claims are generally well drained but are poorly to moderately developed; they consist of thin organic and leached horizons over a variable thickness of B-horizon. The B-horizon, which is the zone of mineral accumulation, is medium orange-tan or tan-brown in colour at sites where a distinct, overlying leached layer is developed. Elsewhere, the leached layer is faint and the underlying B-horizon is usually medium tan to medium brown in colour and is transitional to the underlying soil parent material.

The soils have developed on a variety of parent materials that are dominated by transported overburden. Bedrock is the least common soil-forming substrate; glacial drift is the most common. Sampling of soils on basal till may identify glacial dispersion trains for gold that can be traced up-ice to their bedrock source. Glaciofluvial, hummocky moraine and ablation till have more complex transportation and deposition histories. They present an obstacle to exploration soil geochemistry because they mask bedrock and are not readily traced to source. Extensive deposits of glaciofluvial sand and gravel occur below approximately 850 m elevation along the east side of the property and along the Nation River. Till deposits are more common at higher elevations.

Downslope soil creep and recent water run-off have modified pre-existing overburden deposits and have respectively formed local accumulations of colluvium and alluvium that were derived locally upslope or updrainage.

5.2.2 Preparation and Analysis

The soil samples were forwarded to Placer Dome's analytical laboratory in Vancouver where they were oven-dried and sieved to produce a -80 mesh fraction. A subsample was weighed for geochemical analysis. All samples were analyzed for gold, copper and zinc some samples were also analyzed for silver, while others were run for arsenic. The digestion and detection techniques used for each element are given in Appendix 4.

5.2.3 Discussion of Results

A listing of the analytical results for the soil samples is given in Appendix 4. Basic statistical calculations and histogram plots were employed to examine the structure of the combined 1988 and 1989 analytical results for each element. Log-transformed data was used for construction of the histograms because a preliminary examination of the raw analytical results indicated that the distributions for each element are lognormal. Examination of the histograms led to the selection of class intervals for plotting of the gold, zinc and copper results (Figures 4, 5 and 6). Both the 1988 and 1989 soil results are plotted together. Silver and arsenic results are uniformly low and were not plotted.

Gold results >20 ppb are considered to be anomalous; concentrations from 5 to 20 ppb are threshold values; concentrations <5 ppb are the geochemical background (Figure 4). Samples with >20 ppb gold are scattered over the grid. The only apparent grouping of anomalous samples is centred on Anomaly "A" located east of the baseline between L1950N and L2200N. The anomalous samples here have an erratic distribution and do not define a clear pattern. Field examination in 1989 revealed that the soils of Anomaly "A" are developed on glaciofluvial sand and gravel.

The original 1988 single-point (spot) gold anomalies were not reproduced by the repeat sampling in 1989; and for most of these the surrounding detailed sampling also had low gold values. One exception is the spot anomaly at 3800N/2860E where two adjacent samples contained >300 ppb gold. Sampling on the new claims found several more spot gold anomalies, but did not outline areas with anomalous concentrations. Soils over the highly altered ultramafic rocks returned only low gold values.

Concentrations of zinc, copper, silver and arsenic in soils are all low and are considered to be background values. Examination of the zinc plot (Figure 5) indicates that there may be more than one background population for zinc. Many of the samples with >100 ppm zinc occur in the southwestern portion of the grid; the overburden material here is dominantly glaciofluvial sand and gravel. Copper values in soils (Figure 6) display no significant patterns.

5.2.4 Interpretation

Soil Anomaly "A" is developed on material with a complex transportation history and consequently is highly suspect. The anomalous concentrations may have originated from the placering of gold during the deposition of the glaciofluvial sand and gravel material. The source area for the gold is probably far removed from the site of deposition; it would be very difficult to trace the gold back to source.

The spot gold anomalies from 1988, which did not repeat, may have been an artifact of analytical problems or possibly a sampling problem. Follow-up sampling in 1989 failed to confirm or expand these spot highs. The 1989 spot highs for gold do not warrant follow-up.

5.3 ROCKS

5.3.1 Sample Collection, Preparation and Analysis

A total of eleven random chip and grab samples were collected from outcrop and float. Sampling was oriented, when applicable, perpendicular to recognizable geological contacts or structures. The location of each sample is given of Figure 3. The 1989 rock sample numbers are prefixed by the letter "A".

All rock samples were sent to Placer Dome's Vancouver laboratory for analysis. The samples were crushed and pulverized; a subsample was weighed; then digested; and finally analyzed geochemically for gold, silver, arsenic, copper, zinc and lead. They were also fire assayed for platinum and palladium. The extraction and detection techniques used by the laboratory are summarized in Appendix 5.

5.3.2 Discussion of Results

The analytical results for the rock samples are listed in Appendix 5. None of the results have been plotted. The small number of samples precludes a statistical treatment of the data; only a visual inspection is possible.

Sample A3515 contained 230 ppb platinum; it represents material from an outcrop of highly altered ultramafic rock that is cut by minor quartz veining. All other element concentrations in this sample are low. Sample A3630 contained 290 ppb gold but is low for all other elements; it came from an outcrop of rock similar to A3515. The remaining rock samples had low concentrations of all eight elements.

5.3.3 Interpretation

The highly altered ultramafic rocks show only very weak and erratic precious metal mineralization. No economic values were found for any of the precious or base metals analyzed.

6.0 CONCLUSIONS

Geochemical soil and rock sampling, and geological mapping has failed to identify any potential for precious metal mineralization on the Nat Claims. No further exploration work is warranted on this property.

Respectfully Submitted by,



W.S. Pentland



M.B. Gareau

7.0 REFERENCES

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Letient, H., 1989, Geophysical Report on the Nat Claims, Omineca Mining Division: Company Report

Monger, J.W.H., Price, R.A., and Tempelman-Kluit, D.J., 1982, Tectonic accretion and the origin of the two major metamorphic and plutonic belts in the Canadian Cordillera; *Geology* v.10, p.70-75.

Muller, J.E., 1961, Geology, Pine Pass, British Columbia: Geological Survey Canada, Map 11-1961.

Wheeler, J.O., Brookfield, A.J., Gabrielse, H., Monger, J.W.H., Tipper, H.W., and Woodsworth, G.J., 1988, Terrane Map of the Canadian Cordillera: Geological Survey Canada, Open File 1984.

APPENDIX 1
STATEMENT OF EXPENDITURES

STATEMENT OF EXPENDITURES

NAT PROPERTY

Labour Cost (period July 19-30, 1989)

W. Pentland (Project Geologist) 10.5 days @ \$300/day	3,150.00	
R. Hebig (Geologist) 11 days @\$250/day	2,750.00	
D. Bridges (Field Assistant) 11 days @ \$150/day	1,650.00	
S. Thomas (Field Assistant) 12 days @ \$125/day	1,500.00	
S. Stuhec (Field Assistant) 12 days @150/day	1,800.00	
T. Carriou (Field Assistant) 11 days @ \$125/day	<u>1,375.00</u>	\$12,225.00

Line Cutting

Hewitt and Co. Contractors 22 km @ \$337/km	7,414.00	
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Assay Cost

Soil 569 (Au,Ag,Cu,Zn,As) @ \$10.90/sample	6,202.00	
Rock 37 (Au,Ag,As,Cu,Zn,Pb,Pt,Pd) @ \$21.25/sample	786.00	
Stream Bulks 12 (Au,Ag,As,Cu,Zn,Pb,Pt,Pd) @ \$28.00/sample	336.00	
Stream Sediments 12 (Au,Ag,As,Cu,Zn,Pb,Pt,Pd) @ \$13.00/sample	<u>156.00</u>	\$7480.00

Camp Operation

Accommodation at MacKenzie - 4 rooms x 11 days @ \$37.50/day	1,650.00	
Meals - 66 person days @ \$30.00/person day	<u>1,980.00</u>	\$3,630.00

Vehicle Expense

1 4x4 Ford Super Cab @ \$50.00/day x 12 days	600.00	
1 4x4 Chev Suburban @ \$50.00/day x 12 days	<u>600.00</u>	\$1,200.00

Report Preparation

M. Gareau - 1 day @ \$375.00/day	375.00	
W. Pentland - 1.5 days @ \$300.00/day	450.00	
H. Goddard - .5 day @ \$200.00/day	100.00	
Typist - 1 day @ \$125.00/day	<u>125.00</u>	\$1050.00

Total Cost

\$32,999.00

APPENDIX 2
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS: M.B. GAREAU

I, M.B. Gareau, of Placer Dome Inc., Vancouver, British Columbia, do hereby certify that:

1. I am a geologist.
2. I am a graduate of the University of Dalhousie, Halifax, Nova Scotia with a Bachelor of Science in Geology dated 1977 and an Honours Certificate in Geology dated 1978.
3. I am a Fellow in good standing of the Geological Association of Canada, and a Member of the Association of Exploration Geochemists.
4. I have been engaged in mineral exploration throughout Canada since graduation in 1977.
5. I supervised the 1988 exploration program on the Nat property. I reviewed and interpreted the 1989 geochemical data and collaborated in the preparation of this report.



Michael B. Gareau

STATEMENT OF QUALIFICATIONS: W.S. PENTLAND

I, W.S. Pentland, with a residential address in Delta, British Columbia, do hereby certify that:

1. I am a geologist.
2. I am a graduate of the University of British Columbia with a Bachelor of Arts in Geology dated 1951.
3. I have been engaged in mineral exploration throughout Canada since graduation in 1951.
4. I personally supervised and participated in the 1989 exploration field program on the Nat property. I have reviewed and assessed the results of this work, and have collaborated in the preparation of this report.



W.S. Pentland

APPENDIX 3

STREAM SEDIMENT SAMPLE ANALYTICAL RESULTS

P L A C E R D O M E I N C (V A N C O U V E R L A B O R A T O R Y)

GEOCHEMICAL DATA LISTING: V230 NAT CLAIMS - SILT SAMPLE RESULTS

PDI lab data file: P9298
AREA: NAT
MAPSHEET NO: 9305
VENTURE: V230
GEOLOGIST: W PENTLAND
LAB PROJECT NO: 9298

PLEASE DISTRIBUTE RESULTS TO: WP GS LR EK MG RH LAB

STANDARD ANALYSIS METHODS USED BY PDL GEOCHEM LAB ARE LISTED BELOW:
ALL RESULTS EXPRESSED AS INDICATED IN UNITS COLUMN BELOW
ANY EXCEPTIONS FOR THIS PROJECT ARE NOTED ABOVE

REMARKS: INTERNAL LAB STANDARDS HAVE BEEN INCLUDED FOR REFERENCE.
SAMPLE NUMBERS FOLLOWED BY * ARE DUPLICATE ANALYSES.

	UNITS	WT.G	ATTACK	USED	TIME	RANGE	METHOD
AG	PPM	0.5	HClO4/HNO3		4HRS	0.2-20	A.A. BACKGROUND COR
AS	PPM	0.5	AQUA REGIA		3HRS	2-2000	DC PLASMA
AU	PPM	25.0	FIRE ASSAY		45MIN	0.01-1000	ATOMIC ABSORPTION
CU	PPM	0.5	HClO4/HNO3		4HRS	2-4000	ATOMIC ABSORPTION
PB	PPM	0.5	HClO4/HNO3		4HRS	2-3000	A.A. BACKGROUND COR.
PD	PPB	25.0	FIRE ASSAY		45MIN	DL 5	DC PLASMA
PT	PPB	25.0	FIRE ASSAY		45MIN	DL 10	DC PLASMA
ZN	PPM	0.5	HClO4/HNO3		4HRS	2-3000	ATOMIC ABSORPTION

PDI GEOCHEM SYSTEM: Data From: V230 NAT CLAIMS - SILT SAMPLE RESULTS

GRID	SAMPLE	PROJECT	Ag PPM	As PPM	Au PPM	Cu PPM	Pb PPM	Pd PPB	Pt PPB	Zn PPM
9305	A	3502 9298	<0.2	9	<0.01	22	5	<5	<10	50
9305	A	3504 9298	<0.2	<2	0.01	16	5	<5	<10	40
9305	A	3506 9298	<0.2	3	<0.01	15	4	<5	<10	38
9305	A	3508 9298	<0.2	3	0.01	14	5	<5	<10	54
9305	A	3510 9298	<0.2	6	<0.01	16	5	<5	<10	53
9305	A	3512 9298	<0.2	5	<0.01	15	7	<5	<10	51
9305	A	3578 9298	<0.2	<2	<0.01	12	5	<5	<10	57
9305	A	3582 9298	<0.2	7	<0.01	17	6	<5	<10	54
9305	A	3583 9298	<0.2	2	<0.01	13	6	<5	<10	49
test	STD P1	9298	0.3	20		22	50			105
9305	A	3584 9298	<0.2	6	<0.01	20	8	<5	<10	52
9305	A	3587 9298	<0.2	<2	<0.01	14	7	<5	<10	71
9305	A	3589 9298	<0.2	4	<0.01	13	7	<5	<10	63
9305	A	3589* 9298	<0.2	5		12	6			60

END OF LISTING - 14 RECORDS PRINTED Run on: 90:02:14 at 14:14:39

PLACER DOME INC (VANCOUVER LABORATORY)

GEOCHEMICAL DATA LISTING: V230 NAT CLAIMS - BULK SEDIMENT SAMPLE RESULTS

DATE: 90:02:14

PDI lab data file: P9300
AREA: NAT
MAPSHEET NO: 9305
VENTURE: V230
GEOLOGIST: W PENTLAND
LAB PROJECT NO: 9300

PLEASE DISTRIBUTE RESULTS TO: WF GS LR EK MG RH LAB

REMARKS:

"AU WILL BE ANALYZED 3 TIMES; ALL RESULTS WILL BE IN PPB "
"FROM THE GEOCHEM LAB"

STANDARD ANALYSIS METHODS USED BY PDI GEOCHEM LAB ARE LISTED BELOW:
ALL RESULTS EXPRESSED AS INDICATED IN UNITS COLUMN BELOW
ANY EXCEPTIONS FOR THIS PROJECT ARE NOTED ABOVE

REMARKS: INTERNAL LAB STANDARDS HAVE BEEN INCLUDED FOR REFERENCE.
SAMPLE NUMBERS FOLLOWED BY * ARE DUPLICATE ANALYSES.

	UNITS	WT.G	ATTACK	USED	TIME	RANGE	METHOD
AG	PPM	0.5	HClO ₄ /HNO ₃		4HRS	0.2-20	A.A. BACKGROUND COR
AS	PPM	0.5	AQUA REGIA		3HRS	2-2000	DC PLASMA
AU1	PPB	10.0	AQUA REGIA		3HRS	5-4000	A.A. SOLVENT EXTRACT.
CU	PPM	0.5	HClO ₄ /HNO ₃		4HRS	2-4000	ATOMIC ABSORPTION
PB	PPM	0.5	HClO ₄ /HNO ₃		4HRS	2-3000	A.A. BACKGROUND COR.
PD	PPB	25.0	FIRE ASSAY		45MIN	DL 5	DC PLASMA
PT	PPB	25.0	FIRE ASSAY		45MIN	DL 10	DC PLASMA
BN	PPM	0.5	HClO ₄ /HNO ₃		4HRS	2-3000	ATOMIC ABSORPTION

PDI GEOCHEM SYSTEM: Data From: V230 NAT CLAIMS - BULK SEDIMENT SAMPLE RESULTS

DATE: 90:02:14

PAGE: 1

GRID	SAMPLE	PROJECT	Ag PPM	As PPM	Au1 PPB	Au-A PPB	Au-B PPB	Cu PPM	Pb PPM	Pd PPB	Pt PPB	Zn PPM
9305	A3501	9300	<0.2	9	10	<5	<5	26	7	<5	<10	42
9305	A3503	9300	<0.2	5	10	<5	<5	19	5	<5	<10	38
9305	A3505	9300	<0.2	6	300	<5	385	39	6	<5	<10	41
9305	A3507	9300	<0.2	5	10	<5	45	16	6	<5	<10	28
9305	A3509	9300	<0.2	5	15	<5	<5	19	7	<5	<10	41
9305	A3511	9300	<0.2	9	800	<5	<5	18	6	<5	75	31
9305	A3576	9300	<0.2	<2	20	10	<5	15	6	<5	<10	41
9305	A3577	9300	<0.2	2	10	<5	<5	12	5	<5	18	38
9305	A3581	9300	0.2	2	50	<5	<5	12	4	<5	<10	36
9305	A3581*	9300	0.2	3		10	165	11	3			34
9305	A3585	9300	0.2	2	60	25	<5	20	5	<5	<10	43
9305	A3586	9300	0.2	3	30	40	<5	14	6	<5	<10	67
9305	A3588	9300	0.2	7	<5	25	<5	12	5	<5	<10	50
9305	A3588*	9300	0.2	7			60	12	6			48

END OF LISTING - 14 RECORDS PRINTED Run on: 90:02:14 at 14:14:39

APPENDIX 4
SOIL SAMPLE ANALYTICAL RESULTS

P L A C E R D O M E I N C (V A N C O U V E R L A B O R A T O R Y)

GEOCHEMICAL DATA LISTING: V230 NAT CLAIMS - SOIL SAMPLE RESULTS

PDI lab data file: P9294
AREA: NAT
MAPSHEET NO: 9305
VENTURE: V230
GEOLOGIST: W PENTLAND
LAB PROJECT NO: 9294

PLEASE DISTRIBUTE RESULTS TO: WP GS LR EK MG RH LAB

PDI lab data file: P9295
AREA: NAT
MAPSHEET NO: 9305
VENTURE: V230
GEOLOGIST: W PENTLAND
LAB PROJECT NO: 9295

PLEASE DISTRIBUTE RESULTS TO: WP GS LR EK MG RH LAB

PDI lab data file: P9297
AREA: NAT
MAPSHEET NO: 9303
VENTURE: V230
GEOLOGIST: W PENTLAND
LAB PROJECT NO: 9297

PLEASE DISTRIBUTE RESULTS TO: WP GS LR EK MG RH LAB

STANDARD ANALYSIS METHODS USED BY PDL GEOCHEM LAB ARE LISTED BELOW:
ALL RESULTS EXPRESSED AS INDICATED IN UNITS COLUMN BELOW
ANY EXCEPTIONS FOR THIS PROJECT ARE NOTED ABOVE

REMARKS: INTERNAL LAB STANDARDS HAVE BEEN INCLUDED FOR REFERENCE.
SAMPLE NUMBERS FOLLOWED BY * ARE DUPLICATE ANALYSES.

	UNITS	WT.G	ATTACK USED	TIME	RANGE	METHOD
AG	PPM	0.5	HClO ₄ /HNO ₃	4HRS	0.2-20	A.A. BACKGROUND COR
AS	PPM	0.5	AQUA REGIA	3HRS	2-2000	DC PLASMA
AU1	PPB	10.0	AQUA REGIA	3HRS	5-4000	A.A. SOLVENT EXTRACT.
CU	PPM	0.5	HClO ₄ /HNO ₃	4HRS	2-4000	ATOMIC ABSORPTION
ZN	PPM	0.5	HClO ₄ /HNO ₃	4HRS	2-3000	ATOMIC ABSORPTION

PDI GEOCHEM SYSTEM: Data From: V230 NAT CLAIMS - SOIL SAMPLE RESULTS

GRID	SAMPLE	PROJECT	Ag PPM	As PPM	Au1 PPB	Cu PPM	Zn PPM
9305	L2200N	1700E	9294	<0.2	<5	14	65
9305	L2200N	1740E	9294	<0.2	<5	11	52
9305	L2200N	1780E	9294	<0.2	<5	9	41
9305	L2200N	1820E	9294	<0.2	<5	13	41
9305	L2200N	1900E	9294	<0.2	20	15	37
9305	L2200N	1940E	9294	<0.2	10	20	37
9305	L2200N	1980E	9294	<0.2	15	14	71
9305	L2200N	2020E	9294	<0.2	10	15	70
9305	L2400N	1680E	9294	<0.2	15	9	80
9305	L2400N	1680E*	9294	<0.2	15	8	80
9305	L2400N	1720E	9294	<0.2	10	17	41
9305	L2800N	1660E	9294	<0.2	10	14	38
9305	L2800N	1680E	9294	<0.2	<5	9	60
9305	L2800N	1700E	9294	<0.2	10	12	38
9305	L2800N	1740E	9294	<0.2	820	10	49
9305	L2800N	1780E	9294	<0.2	10	15	46
9305	L2800N	1900E	9294	<0.2	10	16	26
9305	L2800N	1940E	9294	<0.2	10	11	27
9305	L2900N	2500E	9294	<0.2	20	11	27
test	STD P1		9294	0.2		22	108
9305	L2900N	2510E	9294	<0.2	5	14	30
9305	L2900N	2520E	9294	<0.2	<5	10	39
9305	L2900N	2530E	9294	<0.2	<5	5	22
9305	L2900N	2540E	9294	<0.2	10	8	47
9305	L2900N	2550E	9294	<0.2	15	13	101
9305	L2900N	2560E	9294	<0.2	15	6	128
9305	L2900N	2580E	9294	<0.2	50	7	66
9305	L2900N	2590E	9294	<0.2	20	4	32
9305	L2900N	2600E	9294	0.2	25	10	56
9305	L2900N	2600E*	9294	0.2	25	9	56
9305	L2900N	2610E	9294	0.2	45	7	66
9305	L2900N	2620E	9294	0.2	10	4	21
9305	L2900N	2630E	9294	0.2	10	9	65
9305	L3000N	2410E	9294	<0.2	15	10	43
9305	L3000N	2420E	9294	<0.2	10	12	64
9305	L3000N	2430E	9294	<0.2	25	6	50
9305	L3000N	2450E	9294	<0.2	<5	8	42
9305	L3000N	2460E	9294	<0.2	30	11	43
9305	L3000N	2470E	9294	<0.2	15	9	57
9305	L3000N	2470E*	9294	<0.2	30	8	57
9305	L3000N	2490E	9294	0.2	25	7	70
9305	L3000N	2510E	9294	0.2	<5	<2	35
9305	L3000N	2520E	9294	<0.2	15	7	43
9305	L3000N	2530E	9294	<0.2	<5	3	44
9305	L3000N	2550E	9294	<0.2	<5	6	42
9305	L3000N	2570E	9294	<0.2	<5	4	32
9305	L3000N	2590E	9294	0.2	<5	6	23
9305	L3000N	2600E	9294	0.4	<5	13	37
9305	L3100N	2380E	9294	0.2	<5	12	43
test	STD P1		9294	0.2		22	105
9305	L3100N	2400E	9294	<0.2	<5	10	33
9305	L3110N	2390E	9294	<0.2	<5	13	48
9305	L3200N	2360E	9294	<0.2	<5	11	30
9305	L3200N	2370E	9294	<0.2	<5	8	55
9305	L3200N	2390E	9294	<0.2	<5	14	46
9305	L3200N	2400E	9294	<0.2	<5	17	44
9305	L3200N	2430E	9294	<0.2	<5	12	36

PDI GEOCHEM SYSTEM: Data From: V230 NAT CLAIMS - SOIL SAMPLE RESULTS

GRID	SAMPLE	PROJECT	Ag PPM	As PPM	Au1 PPB	Cu PPM	Zn PPM	
9305	L3200N	2500E	9294	<0.2	10	13	34	
9305	L3200N	2510E	9294	<0.2	5	8	45	
9305	L3200N	2510E*	9294	<0.2	10	8	48	
9305	L3200N	2520E	9294	0.3	<5	15	49	
9305	L3200N	2530E	9294	<0.2	<5	6	37	
9305	L3200N	2550E	9294	0.2	<5	11	63	
9305	L3200N	2560E	9294	<0.2	<5	6	57	
9305	L3560N	2500E	9294	<0.2	<5	3	31	
9305	L3560N	2520E	9294	<0.2	<5	6	41	
9305	L3560N	2540E	9294	0.2	<5	8	38	
9305	L3580N	2500E	9294	<0.2	<5	8	40	
9305	L3580N	2520E	9294	0.2	<5	18	43	
9305	L3580N	2520E*	9294	0.2	<5	18	43	
9305	L3580N	2540E	9294	<0.2	<5	6	36	
9305	L3580N	2560E	9294	<0.2	<5	2	25	
9305	L3580N	2580E	9294	0.2	<5	10	44	
9305	L3620N	2500E	9294	<0.2	<5	7	43	
9305	L3620N	2520E	9294	<0.2	<5	8	30	
9305	L3620N	2540E	9294	0.2	<5	6	30	
9305	L3620N	2560E	9294	<0.2	<5	6	34	
9305	L3620N	2580E	9294	<0.2	<5	6	39	
9305	L3760N	2820E	9294	0.4	<5	9	100	
9305	L3760N	2820E*	9294	0.3	<5	10	110	
9305	L3760N	2840E	9294	<0.2	10	10	45	
9305	L3760N	2860E	9294	0.2	25	14	38	
9305	L3780N	2840E	9294	0.3	30	30	65	
9305	L3780N	2860E	9294	<0.2	40	18	46	
9305	L3780N	2880E	9294	<0.2	300	11	37	
9305	L3800N	2840E	9294	<0.2	10	9	27	
9305	L3800N	2860E	9294	0.2	15	14	52	
9305	L3800N	2880E	9294	<0.2	10	9	36	
9305	L3820N	2820E	9294	<0.2	350	16	76	
9305	L3820N	2820E*	9294	<0.2	20	16	73	
9305	L3820N	2840E	9294	<0.2	5	15	86	
9305	L3820N	2860E	9294	<0.2	<5	7	37	
9305	L3820N	2880E	9294	<0.2	5	8	37	
9305	L3820N	2900E	9294	0.4	10	6	52	
9305	L3840N	2820E	9294	<0.2	<5	6	38	
9305	L3840N	2840E	9294	0.2	<5	6	26	
9305	L3840N	2860E	9294	0.3	<5	17	103	
9305	L3840N	2880E	9294	<0.2	<5	11	50	
9305	L3840N	2900E	9294	<0.2	10	12	90	
9305	L3840N	2900E*	9294	<0.2	20	12	93	
test	STD AU5		9294		460			
test	STD AU5		9294		450			
9305	L1200N	2300E	9295		4	<5	19	70
9305	L1200N	2380E	9295		7	<5	19	131
9305	L1200N	2460E	9295		10	<5	25	87
9305	L1200N	2500E	9295		5	<5	24	38
9305	L1200N	2540E	9295		14	<5	28	97
9305	L1200N	2660E	9295		10	<5	31	93
9305	L1200N	2700E	9295		6	<5	13	37
9305	L1200N	2740E	9295		11	<5	21	101
9305	L1240N	2500E	9295		10	<5	28	146
9305	L1240N	2500E*	9295		12	<5	28	147
9305	L1280N	2500E	9295		13	<5	22	102
9305	L1320N	2500E	9295		8	<5	29	38

PDI GEOCHEM SYSTEM: Data From: V230 NAT CLAIMS - SOIL SAMPLE RESULTS

GRID	SAMPLE	PROJECT	Ag PPM	As PPM	Au1 PPB	Cu PPM	Zn PPM
9305	L1360N	2500E		6	<5	19	36
9305	L1400N	1780E		3	<5	14	39
9305	L1400N	1880E		7	<5	15	87
9305	L1400N	1920E		3	<5	12	58
9305	L1400N	2060E		4	<5	18	66
9305	L1400N	2100E		4	<5	11	76
9305	L1400N	2180E		<2	<5	11	42
test	STD P1			20		26	106
9305	L1400N	2380E		6	<5	16	47
9305	L1400N	2500E		7	<5	22	102
9305	L1400N	2660E		6	<5	32	100
9305	L1400N	2740E		16	235	43	79
9305	L1400N	2780E		3	<5	25	35
9305	L1400N	2820E		<2	50	11	41
9305	L1520N	2500E		3	15	16	134
9305	L1560N	2500E		6	<5	14	65
9305	L1600N	1780E		<2	<5	21	53
9305	L1600N	1780E*		2	<5	20	53
9305	L1600N	1880E		3	<5	15	48
9305	L1600N	1980E		4	<5	16	46
9305	L1600N	2020E		7	<5	21	40
9305	L1600N	2140E		<2	160	12	44
9305	L1600N	2180E		2	<5	11	42
9305	L1600N	2300E		5	<5	17	47
9305	L1600N	2340E		4	10	9	42
9305	L1600N	2500E		10	<5	20	117
9305	L1600N	2580E		8	25	28	95
9305	L1600N	2580E*		8	20	26	92
9305	L1600N	2620E		12	<5	39	58
9305	L1600N	2700E		13	<5	33	57
9305	L1600N	2780E		8	5	17	85
9305	L1600N	2820E		8	150	11	34
9305	L1600N	2900E		6	75	21	76
9305	L1640N	2500E		8	20	13	51
9305	L1680N	2500E		10	10	11	64
9305	L1720N	2500E		9	20	13	45
9305	L1760N	2500E		10	20	16	66
test	STD P1			20		25	102
9305	L1800N	1660E		5	<5	13	59
9305	L1800N	1980E		7	<5	17	38
9305	L1800N	2020E		6	<5	11	34
9305	L1800N	2060E		5	<5	19	49
9305	L1800N	2260E		4	<5	16	67
9305	L1800N	2420E		9	<5	27	75
9305	L1800N	2500E		11	<5	20	73
9305	L1800N	2660E		9	<5	25	62
9305	L1800N	2860E		10	<5	33	58
9305	L1800N	2860E*		12	<5	32	56
9305	L1800N	2900E		4	<5	17	62
9305	L1800N	3020E		7	<5	45	46
9305	L1840N	2500E		9	<5	25	74
9305	L1940N	2500E		10	20	20	88
9305	L1950N	2520E		5	10	16	62
9305	L1950N	2540E		10	50	33	80
9305	L1950N	2560E		3	<5	27	60
9305	L1950N	2580E		12	15	32	72
9305	L1950N	2660E		6	420	25	62

PDI GEOCHEM SYSTEM: Data From: V230 NAT CLAIMS - SOIL SAMPLE RESULTS

GRID	SAMPLE	PROJECT	Ag PPM	As PPM	Au1 PPB	Cu PPM	Zn PPM
9305	L1950N	2660E*	9295	7	25	24	59
9305	L1950N	2700E	9295	10	15	46	70
9305	L1950N	2720E	9295	13	15	53	64
9305	L1950N	2740E	9295	11	180	27	85
9305	L1950N	2760E	9295	12	25	36	67
9305	L1950N	2800E	9295	9	<5	30	98
9305	L1950N	2820E	9295	6	20	24	135
9305	L1950N	2840E	9295	12	<5	33	96
9305	L1950N	2860E	9295	2	<5	13	67
9305	L1950N	2880E	9295	4	<5	14	44
9305	L1950N	2880E*	9295	5	<5	15	46
9305	L1950N	2940E	9295	7	230	33	69
9305	L1950N	2980E	9295	4	<5	14	61
9305	L1950N	3000E	9295	13	850	59	72
9305	L1960N	2500E	9295	4	70	23	56
9305	L1980N	2500E	9295	7	<5	24	76
9305	L2000N	1660E	9295	3	<5	11	16
9305	L2000N	1740E	9295	3	<5	25	32
9305	L2000N	1780E	9295	<2	<5	11	33
9305	L2000N	1900E	9295	4	<5	14	36
9305	L2000N	1900E*	9295	3	<5	14	35
9305	L2000N	1980E	9295	4	<5	27	33
9305	L2000N	2020E	9295	2	<5	22	41
9305	L2000N	2560E	9295	7	<5	21	58
9305	L2000N	2600E	9295	8	300	38	70
9305	L2000N	2640E	9295	6	<5	37	67
9305	L2000N	2680E	9295	6	<5	35	56
9305	L2000N	2720E	9295	7	10	24	105
9305	L2000N	2800E	9295	5	35	21	54
9305	L2000N	2880E	9295	5	<5	36	45
9305	L2000N	2880E*	9295	5	<5	35	43
9305	L2000N	2920E	9295	8	<5	32	59
9305	L2000N	2960E	9295	<2	<5	21	58
9305	L2000N	2980E	9295	<2	<5	24	64
9305	L2020N	2500E	9295	4	<5	9	52
9305	L2050N	2500E	9295	2	250	29	49
9305	L2050N	2520E	9295	2	<5	19	46
9305	L2050N	2540E	9295	2	5	16	47
9305	L2050N	2560E	9295	4	15	19	45
9305	L2050N	2580E	9295	2	<5	44	50
test	STD P1	9295		19		27	115
9305	L2050N	2600E	9295	2	50	22	62
9305	L2050N	2660E	9295	5	<5	15	60
9305	L2050N	2680E	9295	7	<5	36	111
9305	L2050N	2700E	9295	2	<5	17	77
9305	L2050N	2760E	9295	3	<5	31	93
9305	L2050N	2780E	9295	2	50	15	70
9305	L2050N	2860E	9295	5	<5	35	44
9305	L2050N	2900E	9295	2	<5	15	59
9305	L2050N	2920E	9295	4	<5	28	62
9305	L2050N	2920E*	9295	6	<5	29	61
9305	L2050N	2960E	9295	<2	<5	10	63
9305	L2050N	2980E	9295	<2	15	15	63
9305	L2050N	3000E	9295	3	<5	27	79
9305	L2100N	2500E	9295	2	5	27	98
9305	L2100N	2520E	9295	<2	<5	43	40
9305	L2100N	2540E	9295	4	<5	43	42

PDI GEOCHEM SYSTEM: Data From: V230 NAT CLAIMS - SOIL SAMPLE RESULTS

GRID	SAMPLE	PROJECT	Ag PPM	As PPM	Au1 PPB	Cu PPM	Zn PPM
9305	L2100N	2580E	9295	16	<5	79	79
9305	L2100N	2600E	9295	3	<5	39	67
9305	L2100N	2620E	9295	3	<5	26	79
9305	L2100N	2620E*	9295	5	175	24	77
9305	L2100N	2640E	9295	11	<5	76	70
9305	L2100N	2660E	9295	8	<5	36	90
9305	L2100N	2680E	9295	13	15	59	64
9305	L2100N	2700E	9295	5	5	26	85
9305	L2100N	2720E	9295	6	15	38	51
9305	L2100N	2740E	9295	3	<5	33	54
9305	L2100N	2760E	9295	7	<5	55	49
9305	L2100N	2780E	9295	8	<5	50	111
9305	L2100N	2800E	9295	3	75	19	39
9305	L2100N	2800E*	9295	2	<5	15	37
9305	L2100N	2820E	9295	9	170	26	70
9305	L2100N	2860E	9295	5	<5	30	47
9305	L2100N	2880E	9295	3	<5	21	103
9305	L2100N	2900E	9295	10	<5	27	83
9305	L2100N	2920E	9295	4	<5	28	48
9305	L2100N	2940E	9295	7	40	43	31
9305	L2100N	2960E	9295	9	<5	109	62
9305	L2100N	2980E	9295	12	10	51	83
9305	L2100N	3000E	9295	6	10	28	98
9305	L2100N	3000E*	9295	5	100	28	97
9305	L2140N	2500E	9295	<2	<5	14	85
9305	L2150N	2520E	9295	5	<5	48	98
9305	L2150N	2560E	9295	3	<5	34	36
9305	L2150N	2760E	9295	<2	<5	17	89
9305	L2150N	2780E	9295	<2	<5	18	141
9305	L2150N	2800E	9295	<2	<5	16	148
9305	L2150N	2820E	9295	3	<5	22	92
9305	L2150N	2840E	9295	<2	<5	17	100
9305	L2150N	2860E	9295	6	<5	31	67
test	STD P1		9295	17		25	115
9305	L2150N	2880E	9295	5	<5	29	75
9305	L2150N	2900E	9295	<2	<5	14	69
9305	L2150N	2920E	9295	2	<5	34	85
9305	L2150N	2940E	9295	2	<5	30	106
9305	L2150N	2960E	9295	<2	<5	33	88
9305	L2150N	2980E	9295	<2	25	14	88
9305	L2150N	3000E	9295	6	25	28	95
9305	L2200N	2600E	9295	3	10	12	71
9305	L2200N	2640E	9295	7	<5	25	67
9305	L2200N	2640E*	9295	5	<5	23	67
9305	L2200N	2840E	9295	<2	25	18	46
9305	L2200N	2880E	9295	<2	15	25	66
9305	L2200N	3180E	9295	<2	50	32	44
9305	L2200N	3220E	9295	2	5	28	46
9305	L2400N	1760E	9295	5	<5	13	49
9305	L2400N	1800E	9295	<2	5	17	29
9305	L2400N	1840E	9295	<2	5	15	41
9305	L2400N	1880E	9295	<2	<5	13	61
9305	L2400N	1920E	9295	<2	<5	35	43
test	STD P1		9295	17		26	117
9305	L2400N	1960E	9295	4	<5	17	57
9305	L2400N	2000E	9295	6	<5	12	23
9305	L2600N	1620E	9295	9	<5	8	25

PDI GEOCHEM SYSTEM: Data From: V230 NAT CLAIMS - SOIL SAMPLE RESULTS

GRID	SAMPLE	PROJECT	Ag PPM	As PPM	Au1 PPB	Cu PPM	Zn PPM
9305	L2600N	1660E		6	<5	16	53
9305	L2600N	1700E		8	<5	11	29
9305	L2600N	1740E		7	<5	18	29
9305	L2600N	1780E		5	<5	12	36
9305	L2600N	1810E		3	<5	9	44
9305	L2600N	1860E		6	<5	19	28
9305	L2600N	1860E*		3	<5	18	26
9305	L2600N	1890E		4	<5	15	29
9305	L2600N	1940E		3	<5	14	25
9305	L2600N	1980E		7	<5	27	29
9305	L2600N	2020E		5	<5	25	49
9305	L2800N	2520E		5	<5	18	30
9305	L2800N	2530E		3	<5	17	37
9305	L2800N	2550E		5	<5	15	24
9305	L2800N	2560E		3	<5	13	29
9305	L2800N	2570E		4	<5	20	32
9305	L2800N	2570E*		3	<5	19	30
9305	L2800N	2590E		3	<5	14	30
9305	L2800N	2600E		3	<5	10	32
9305	L2800N	2610E		7	<5	6	37
9305	L2800N	2630E		11	<5	4	27
9305	L2800N	2640E		5	<5	15	38
9305	L2800N	2650E		6	<5	11	26
9305	L2900N	2460E		3	<5	13	29
9305	L2900N	2470E		3	<5	8	34
9305	L2900N	2480E		<2	<5	12	44
test	STD P1	9295		19		25	117
9305	L2900N	2490E		<2	<5	6	32
9305	L3000N	1620E		3	<5	14	45
9305	L3000N	1640E		3	<5	44	74
9305	L3000N	1700E		<2	<5	15	37
9305	L3000N	1740E		2	<5	9	24
9305	L3000N	1780E		2	<5	12	30
9305	L3000N	1820E		4	<5	21	42
9305	L3160N	2700E		<2	<5	4	21
9305	L3160N	2720E		<2	<5	8	64
9305	L3160N	2720E*		3	<5	8	65
9305	L3160N	2740E		5	<5	22	49
9305	L3160N	2760E		4	<5	8	48
9305	L3180N	2780E		2	<5	14	52
9305	L3200N	1620E		4	<5	17	61
9305	L3200N	1660E		6	<5	10	28
9305	L3200N	1700E		<2	<5	11	24
9305	L3200N	1740E		<2	50	15	28
9305	L3200N	1780E		<2	40	23	41
9305	L3200N	1820E		<2	20	12	34
9305	L3200N	1820E*		3	15	11	33
9305	L3200N	1860E		<2	<5	27	41
9305	L3200N	1900E		<2	10	15	36
9305	L3200N	1940E		<2	<5	12	27
9305	L3200N	1980E		<2	<5	16	56
9305	L3200N	2020E		5	<5	17	42
9305	L3200N	2720E		<2	<5	9	54
9305	L3200N	2740E		<2	<5	17	27
9305	L3200N	2760E		<2	<5	9	30
9305	L3220N	2700E		3	<5	20	42
9305	L3220N	2700E*		3	<5	20	42

PDI GEOCHEM SYSTEM: Data From: V230 NAT CLAIMS - SOIL SAMPLE RESULTS

GRID	SAMPLE	PROJECT	Ag PPM	As PPM	Au1 PPB	Cu PPM	Zn PPM
9305	L3220N	2760E	9295	<2	5	7	27
9305	L3220N	2780E	9295	<2	<5	11	44
9305	L3250N	2700E	9295	<2	5	22	29
9305	L3250N	2720E	9295	6	115	74	60
9305	L3250N	2740E	9295	<2	<5	28	42
9305	L3250N	2760E	9295	<2	10	14	48
9305	L3250N	2780E	9295	<2	10	25	41
9305	L3400N	1620E	9295	<2	5	15	36
9305	L3400N	1660E	9295	<2	45	8	26
9305	L3400N	1660E*	9295	<2	10	7	25
9305	L3400N	1700E	9295	5	<5	17	41
9305	L3400N	1740E	9295	5	5	11	33
9305	L3400N	1780E	9295	<2	<5	20	45
9305	L3400N	1820E	9295	<2	<5	18	46
9305	L3400N	1860E	9295	<2	<5	14	30
9305	L3400N	1900E	9295	4	<5	22	58
9305	L3400N	1940E	9295	<2	5	15	34
9305	L3400N	1980E	9295	<2	15	12	35
9305	L3400N	2020E	9295	<2	<5	17	40
test	STD P1		9295	16		26	117
9305	L3600N	1620E	9295	<2	<5	12	55
9305	L3600N	1660E	9295	<2	<5	8	26
9305	L3600N	1700E	9295	<2	<5	4	18
9305	L3600N	1740E	9295	<2	<5	3	11
9305	L3600N	1820E	9295	<2	10	14	24
9305	L3600N	1860E	9295	<2	10	10	30
9305	L3600N	1940E	9295	3	10	13	47
9305	L3600N	2020E	9295	<2	35	12	22
9305	L3600N	2520E	9295	3	<5	10	26
9305	L3600N	2520E*	9295	<2	<5	9	24
9305	L3600N	2540E	9295	<2	<5	17	28
9305	L3640N	2500E	9295	3	<5	8	29
9305	L3640N	2520E	9295	10	<5	10	36
9305	L3640N	2540E	9295	4	<5	7	38
9305	L3640N	2580E	9295	<2	<5	6	16
9305	L3800N	1700E	9295	<2	<5	14	35
9305	L3800N	1820E	9295	<2	<5	15	29
9305	L3800N	1860E	9295	<2	<5	16	39
9305	L3800N	1900E	9295	<2	<5	14	49
9305	L3800N	1900E*	9295	<2	<5	14	47
9305	L3800N	1940E	9295	<2	<5	9	49
9305	L3800N	1980E	9295	3	10	16	58
9305	L3800N	2020E	9295	<2	15	3	45
9305	L4000N	1660E	9295	5	<5	14	81
9305	L4000N	1700E	9295	5	10	18	70
9305	L4000N	1820E	9295	4	<5	16	62
9305	L4000N	1860E	9295	<2	<5	15	100
9305	L4000N	1900E	9295	<2	5	20	75
9305	L4000N	1940E	9295	3	10	8	43
test	STD P1		9295	15		25	110
9305	L4000N	1980E	9295	<2	<5	12	68
9305	L4000N	2020E	9295	<2	<5	8	31
9305	L4200N	1780E	9295	<2	<5	21	74
9305	L4200N	1820E	9295	<2	<5	9	28
9305	L4200N	1860E	9295	<2	<5	4	22
9305	L4200N	1900E	9295	2	<5	20	55
9305	L4200N	1940E	9295	6	<5	10	33

PDI GEOCHEM SYSTEM: Data From: V230 NAT CLAIMS - SOIL SAMPLE RESULTS

GRID	SAMPLE	PROJECT	Ag PPM	As PPM	Au1 PPB	Cu PPM	Zn PPM
9305	L4200N	1980E	9295	<2	<5	5	23
9305	L4200N	2020E	9295	<2	5	9	29
9305	L4200N	2020E*	9295	<2	<5	9	29
9305	L4360N	2520E	9295	<2	<5	17	48
9305	L4360N	2540E	9295	<2	<5	11	46
9305	L4360N	2560E	9295	<2	<5	17	48
9305	L4360N	2580E	9295	<2	<5	17	45
9305	L4380N	2500E	9295	<2	<5	22	59
9305	L4380N	2520E	9295	<2	<5	14	39
9305	L4380N	2540E	9295	<2	<5	14	43
9305	L4380N	2560E	9295	<2	<5	11	38
9305	L4380N	2580E	9295	<2	<5	12	29
9305	L4380N	2580E*	9295	<2	<5	13	30
9305	L4400N	1740E	9295	<2	<5	9	31
9305	L4400N	1780E	9295	<2	10	19	53
9305	L4400N	1820E	9295	<2	<5	21	38
9305	L4400N	1860E	9295	<2	10	17	49
9305	L4400N	1900E	9295	<2	10	12	42
9305	L4400N	1940E	9295	<2	10	8	33
9305	L4400N	1980E	9295	<2	<5	15	52
9305	L4400N	2020E	9295	<2	<5	9	25
9305	L4400N	2520E	9295	<2	65	10	48
9305	L4400N	2520E*	9295	<2	<5	12	51
9305	L4400N	2540E	9295	2	<5	7	78
9305	L4400N	2560E	9295	<2	<5	8	54
9305	L4420N	2500E	9295	3	<5	26	33
9305	L4420N	2520E	9295	<2	<5	6	22
9305	L4420N	2540E	9295	<2	10	11	27
9305	L4440N	2560E	9295	4	15	14	70
9305	L4440N	2580E	9295	5	5	16	72
9305	L4600N	1660E	9295	7	<5	12	38
9305	L4600N	1700E	9295	12	<5	15	85
9305	L4600N	1700E*	9295	10	<5	14	83
9305	L4600N	1820E	9295	5	<5	10	29
9305	L4600N	1860E	9295	6	<5	10	33
9305	L4600N	1900E	9295	7	<5	22	43
9305	L4600N	1940E	9295	10	<5	22	43
9305	L4600N	1980E	9295	6	<5	23	54
9305	L4600N	2020E	9295	5	<5	11	43
9305	L4600N	2480E	9295	5	<5	14	62
9305	L4620N	2460E	9295	6	<5	11	51
9305	L4620N	2480E	9295	4	10	15	37
9305	L4620N	2480E*	9295	6	<5	16	39
9305	L4620N	2500E	9295	7	<5	14	44
9305	L4620N	2520E	9295	4	<5	5	24
9305	L4620N	2540E	9295	3	<5	14	27
9305	L4640N	2460E	9295	6	<5	13	37
9305	L4640N	2480E	9295	6	<5	9	33
9305	L4640N	2500E	9295	5	<5	12	26
9305	L4640N	2520E	9295	<2	<5	11	34
9305	L4660N	2460E	9295	6	<5	8	52
9305	L4660N	2480E	9295	12	<5	16	45
test	STD P1	9295		17		25	118
9305	L4660N	2520E	9295	4	<5	10	35
9305	L4680N	2460E	9295	2	<5	11	44
9305	L4680N	2480E	9295	4	<5	12	41
9305	L4680N	2520E	9295	2	<5	12	43

PDI GEOCHEM SYSTEM: Data From: V230 NAT CLAIMS - SOIL SAMPLE RESULTS

GRID	SAMPLE	PROJECT	Ag PPM	As PPM	Au1 PPB	Cu PPM	Zn PPM
9305	L4680N	2540E 9295		5	<5	21	33
9305	L4760N	2080E 9295		3	<5	11	53
9305	L4760N	2100E 9295		5	<5	8	35
9305	L4780N	2060E 9295		4	<5	9	31
9305	L4780N	2100E 9295		3	<5	6	37
9305	L4780N	2100E* 9295		6	<5	6	36
9305	L4780N	2120E 9295		8	<5	15	46
9305	L4780N	2140E 9295		<2	<5	7	28
9305	L4800N	1660E 9295		6	<5	10	33
9305	L4800N	1740E 9295		3	<5	13	42
9305	L4800N	1780E 9295		<2	<5	8	21
9305	L4800N	1820E 9295		4	5	10	29
9305	L4800N	1860E 9295		4	<5	14	37
9305	L4800N	1900E 9295		4	<5	8	27
9305	L4800N	1940E 9295		5	<5	15	32
9305	L4800N	1940E* 9295		5	<5	16	32
9305	L4800N	1980E 9295		<2	<5	11	27
9305	L4800N	2020E 9295		<2	<5	10	27
9305	L4800N	2080E 9295		<2	<5	15	43
9305	L4800N	2100E 9295		9	<5	13	52
9305	L4800N	2120E 9295		2	<5	14	43
9305	L4820N	2060E 9295		2	<5	13	32
9305	L4820N	2080E 9295		2	<5	12	47
9305	L4820N	2100E 9295		2	<5	12	29
9305	L4820N	2120E 9295		4	10	21	45
9305	L4820N	2120E* 9295		3	<5	21	46
9305	L4820N	2140E 9295		<2	<5	16	33
9305	L4840N	2060E 9295		<2	<5	14	42
9305	L4840N	2080E 9295		3	<5	10	32
9305	L4840N	2100E 9295		3	<5	14	39
9305	L4840N	2120E 9295		4	15	18	43
9305	L4840N	2140E 9295		<2	10	14	34
9305	L4960N	2300E 9295		<2	10	16	31
9305	L4960N	2320E 9295		4	40	13	31
9305	L4960N	2340E 9295		<2	10	13	27
9305	L4960N	2340E* 9295		<2	160	14	27
9305	L4960N	2360E 9295		4	<5	20	40
9305	L4960N	2380E 9295		3	<5	4	18
9305	L4980N	2340E 9295		3	<5	9	19
9305	L5000N	1700E 9295		7	<5	7	36
9305	L5000N	1740E 9295		6	<5	33	54
9305	L5000N	1780E 9295		2	<5	9	31
9305	L5000N	1820E 9295		6	<5	9	24
9305	L5000N	1860E 9295		3	<5	19	39
9305	L5000N	1900E 9295		3	<5	15	24
test	STD P1	9295		16		27	117
9305	L5000N	1940E 9295		5	5	14	31
9305	L5000N	1980E 9295		3	5	2	22
9305	L5000N	2020E 9295		7	<5	15	33
9305	L5000N	2320E 9295		4	10	9	27
9305	L5000N	2340E 9295		5	15	16	58
9305	L5000N	2360E 9295		5	<5	10	33
9305	L5020N	2300E 9295		<2	<5	8	44
9305	L5020N	2340E 9295		3	<5	18	53
9305	L5020N	2360E 9295		4	<5	12	30
9305	L5020N	2360E* 9295		2	<5	13	31
9305	L5020N	2380E 9295		3	<5	17	47

PDI GEOCHEM SYSTEM: Data From: V230 NAT CLAIMS - SOIL SAMPLE RESULTS

GRID	SAMPLE	PROJECT	Ag PPM	As PPM	Au1 PPB	Cu PPM	Zn PPM
9305	L5040N	2300E		5	<5	17	62
9305	L5040N	2320E		7	<5	13	61
9305	L5040N	2340E		3	<5	15	39
9305	L5040N	2360E		5	<5	13	49
9305	L5040N	2380E		<2	<5	9	34
9305	L5160N	2740E		2	<5	7	30
9305	L5160N	2760E		4	<5	11	34
9305	L5160N	2780E		<2	<5	9	46
test	STD P1			17		26	118
9305	L5160N	2800E		<2	<5	8	52
9305	L5160N	2820E		2	<5	13	49
9305	L5180N	2740E		<2	<5	17	37
9305	L5180N	2760E		<2	<5	17	69
9305	L5180N	2780E		<2	<5	15	47
9305	L5180N	2820E		4	<5	6	28
9305	L5200N	1700E		4	<5	19	55
9305	L5200N	1740E		<2	10	14	31
9305	L5200N	1780E		3	10	4	15
9305	L5200N	1780E*		2	5	4	14
9305	L5200N	1820E		4	<5	12	33
9305	L5200N	1860E		<2	<5	14	33
9305	L5200N	1900E		<2	<5	11	32
9305	L5200N	1940E		<2	<5	7	27
9305	L5200N	1980E		<2	<5	11	42
9305	L5200N	2020E		2	<5	13	39
9305	L5200N	2760E		2	<5	19	40
9305	L5200N	2780E		<2	<5	12	42
9305	L5200N	2800E		7	<5	33	61
9305	L5200N	2800E*		5	<5	31	59
9305	L5220N	2800E		5	<5	12	48
9305	L5220N	2820E		6	<5	27	53
9305	L5240N	2740E		<2	5	14	37
9305	L5240N	2760E		2	<5	15	31
9305	L5240N	2780E		<2	50	22	49
9305	L5240N	2800E		2	<5	25	38
9305	L5240N	2820E		2	10	7	17
9305	L5360N	2240E		6	<5	13	30
9305	L5360N	2260E		<2	<5	43	49
test	STD P1			17		28	119
9305	L5360N	2280E		3	<5	68	75
9305	L5360N	2300E		2	<5	12	30
9305	L5380N	2240E		4	<5	27	46
9305	L5380N	2280E		<2	<5	11	24
9305	L5380N	2300E		2	<5	30	53
9305	L5400N	1700E		2	<5	19	38
9305	L5400N	1740E		7	<5	14	42
9305	L5400N	1780E		<2	<5	19	42
9305	L5400N	1820E		2	<5	20	47
9305	L5400N	1820E*		3	<5	21	49
9305	L5400N	1860E		2	<5	18	58
9305	L5400N	1900E		10	<5	11	35
9305	L5400N	1980E		2	<5	7	17
9305	L5400N	2020E		5	<5	13	45
9305	L5400N	2240E		6	<5	15	29
9305	L5400N	2260E		5	<5	16	41
9305	L5400N	2280E		2	<5	9	28
9305	L5410N	2280E		<2	<5	9	34

PDI GEOCHEM SYSTEM: Data From: V230 NAT CLAIMS - SOIL SAMPLE RESULTS

GRID	SAMPLE	PROJECT	Ag PPM	As PPM	Au1 PPB	Cu PPM	Zn PPM
9305	L5420N	2220E		6	10	12	36
9305	L5420N	2220E*		3	20	12	40
9305	L5420N	2240E		2	15	17	35
9305	L5420N	2260E		2	<5	13	44
9305	L5420N	2280E		6	<5	15	38
9305	L5420N	2300E		<2	<5	18	36
9305	L5440N	2220E		3	<5	11	29
9305	L5440N	2240E		2	<5	13	35
9305	L5440N	2260E		7	<5	14	35
9305	L5440N	2280E		2	<5	13	39
9305	L5440N	2300E		<2	<5	12	29
9305	L5440N	2300E*		2	<5	12	28
9305	L5560N	2100E		<2	5	15	29
9305	L5560N	2120E		4	5	23	47
9305	L5560N	2140E		7	30	12	36
9305	L5560N	2160E		13	30	19	43
9305	L5560N	2180E		4	20	7	28
9305	L5580N	2140E		7	10	13	40
9305	L5580N	2160E		7	10	11	44
9305	L5580N	2180E		6	15	7	27
9305	L5600N	1700E		6	40	29	54
9305	L5600N	1700E*		4	30	31	58
9305	L5600N	1740E		4	<5	9	23
9305	L5600N	1780E		7	<5	20	45
9305	L5600N	1820E		7	<5	14	28
9305	L5600N	1860E		6	<5	10	31
9305	L5600N	1900E		8	<5	11	37
9305	L5600N	1940E		2	<5	22	41
9305	L5600N	2020E		3	<5	7	34
9305	L5600N	2120E		3	15	28	53
9305	L5600N	2140E		6	10	31	57
9305	L5600N	2140E*		5	10	30	59
9305	L5620N	2100E		8	<5	13	48
9305	L5620N	2120E		7	<5	18	51
9305	L5620N	2180E		11	<5	21	52
9305	L5640N	2100E		6	<5	18	50
9305	L5640N	2120E		9	30	26	84
9305	L5640N	2140E		2	30	18	29
9305	L5640N	2180E		2	30	8	46
9305	L5800N	1790E		4	30	14	38
9305	L5800N	1940E		5	<5	19	36
test	STD P1			20		28	116
9305	L5800N	1980E		<2	<5	14	29
9305	L5800N	2020E		9	5	32	54
9305	L5800N	2060E		6	10	13	46
9305	L5800N	2100E		3	<5	11	42
9305	L5800N	2140E		<2	10	14	49
9305	L5800N	2180E		4	10	14	46
9305	L5800N	2220E		4	10	12	46
9305	L5800N	2260E		6	5	16	48
9305	L5800N	2300E		4	<5	12	33
9305	L5800N	2300E*		4	5	13	34
9305	L5800N	2340E		3	<5	14	42
9305	L5800N	2380E		6	35	15	49
9305	L5800N	2420E		<2	<5	11	42
9305	L5800N	2460E		<2	<5	10	46
9305	L5800N	2500E		3	10	18	50

PDI GEOCHEM SYSTEM: Data From: V230 NAT CLAIMS - SOIL SAMPLE RESULTS

GRID	SAMPLE	PROJECT	Ag PPM	As PPM	Au1 PPB	Cu PPM	Zn PPM
9305	L3000N	1860E	9295	3	<5	7	17
9305	L3000N	1900E	9295	<2	<5	23	35
9305	L3000N	1900E*	9295	2	<5	23	36
test	STD AU5	9295			455		
test	STD AU5	9295			425		
test	STD AU5	9295			400		
test	STD AU5	9295			410		
test	STD AU5	9295			400		
test	STD AU5	9295			460		
test	STD AU5	9295			405		
test	STD AU5	9295			410		
test	STD AU5	9295			400		
test	STD AU5	9295			450		
test	STD AU5	9295			480		
test	STD AU5	9295			470		
9303	A	3526	9297	3	<5	10	41
9303	A	3527	9297	<2	<5	20	43
9303	A	3528	9297	2	<5	10	31
9303	A	3529	9297	<2	<5	10	44
9303	A	3579	9297	<2	<5	7	40
9303	A	3580	9297	<2	<5	17	41
9303	A	3580*	9297	<2	<5		

END OF LISTING - 649 RECORDS PRINTED Run on: 90:02:14 at 14:14:39

APPENDIX 5
ROCK SAMPLE ANALYTICAL RESULTS

GEOCHEMICAL DATA LISTING: V230 NAT CLAIMS - ROCK SAMPLE RESULTS

PDI lab data file: P9299
 AREA: NAT
 MAPSHEET NO: 9305
 VENTURE: V230
 GEOLOGIST: W PENTLAND
 LAB PROJECT NO: 9299

PLEASE DISTRIBUTE RESULTS TO: WP GS LR EK MG RH LAB

REMARKS:
 "AU RESULTS IN PPB"

STANDARD ANALYSIS METHODS USED BY PDL GEOCHEM LAB ARE LISTED BELOW:
 ALL RESULTS EXPRESSED AS INDICATED IN UNITS COLUMN BELOW
 ANY EXCEPTIONS FOR THIS PROJECT ARE NOTED ABOVE

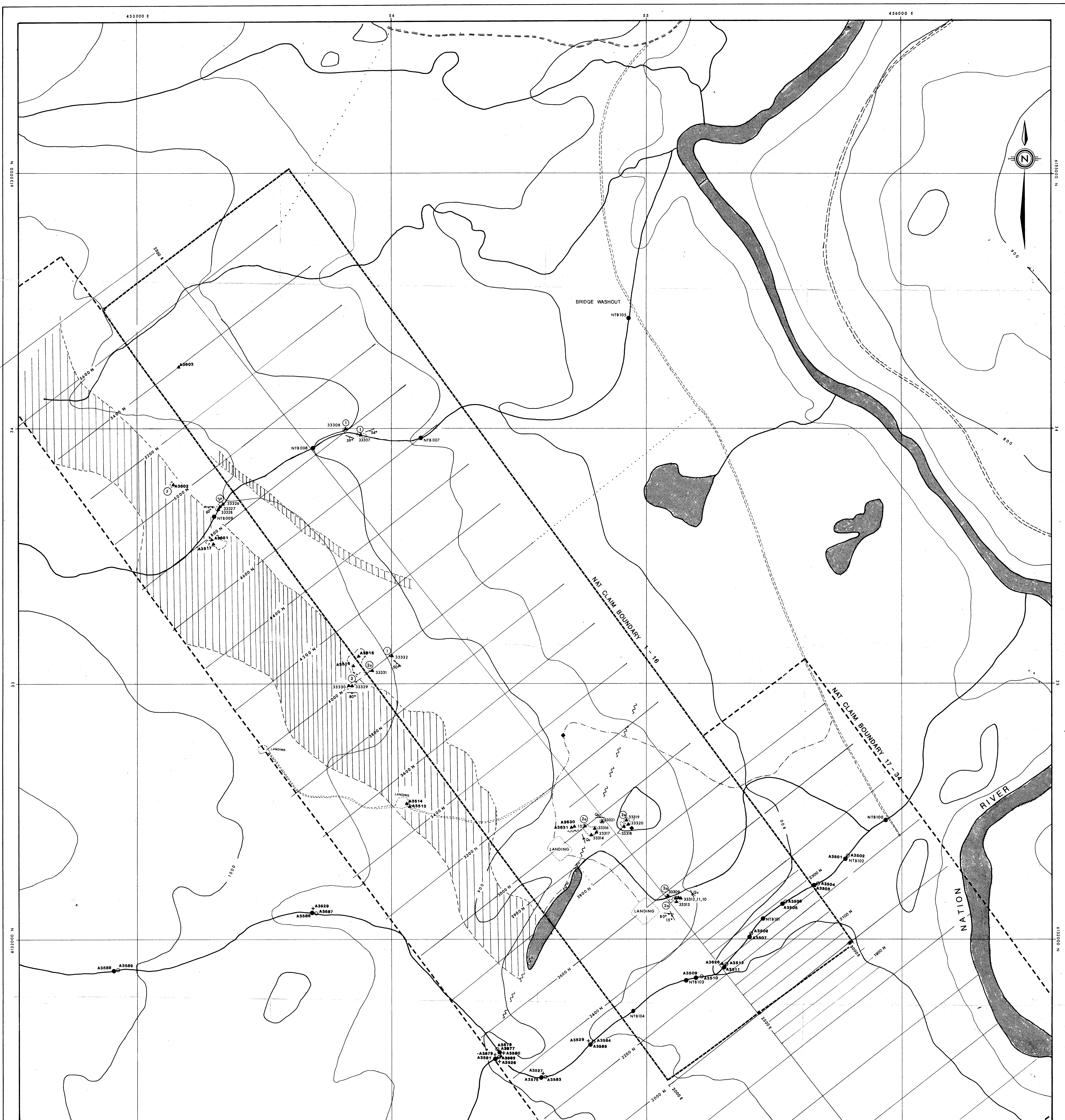
REMARKS: INTERNAL LAB STANDARDS HAVE BEEN INCLUDED FOR REFERENCE.
 SAMPLE NUMBERS FOLLOWED BY * ARE DUPLICATE ANALYSES.

	UNITS	WT.G	ATTACK	USED	TIME	RANGE	METHOD
AG	PPM	0.5	HClO ₄ /HNO ₃		4HRS	0.2-20	A.A. BACKGROUND COR
AS	PPM	0.5	AQUA REGIA		3HRS	2-2000	DC PLASMA
AU1	PPB	10.0	AQUA REGIA		3HRS	5-4000	A.A. SOLVENT EXTRACT.
CU	PPM	0.5	HClO ₄ /HNO ₃		4HRS	2-4000	ATOMIC ABSORPTION
PB	PPM	0.5	HClO ₄ /HNO ₃		4HRS	2-3000	A.A. BACKGROUND COR.
PD	PPB	25.0	FIRE ASSAY		45MIN	DL 5	DC PLASMA
PT	PPB	25.0	FIRE ASSAY		45MIN	DL 10	DC PLASMA
ZN	PPM	0.5	HClO ₄ /HNO ₃		4HRS	2-3000	ATOMIC ABSORPTION

PDI GEOCHEM SYSTEM: Data From: V230 NAT CLAIMS - ROCK SAMPLE RESULTS

GRID	SAMPLE	PROJECT	Ag PPM	As PPM	Au1 PPB	Cu PPM	Pb PPM	Pd PPB	Pt PPB	Zn PPM
9305	A3513	9299	<0.2	3	10	14	2	<5	<10	16
9305	A3514	9299	<0.2	6	10	6	<2	<5	<10	12
9305	A3515	9299	<0.2	3	<5	5	<2	15	230	28
9305	A3516	9299	<0.2	2	5	8	<2	<5	<10	20
9305	A3517	9299	<0.2	25	<5	<2	2	<5	<10	30
9305	A3601	9299	<0.2	8	5	<2	<2	<5	<10	20
9305	A3602	9299	<0.2	6	10	<2	<2	<5	<10	16
9305	A3603	9299	<0.2	<2	<5	3	<2	<5	<10	5
9305	A3626	9299	0.2	11	20	12	10	<5	<10	20
9305	A3626*	9299	0.2	12		12	10			21
9305	A3630	9299	<0.2	<2	290	2	<2	<5	<10	16
9305	A3631	9299	<0.2	<2	20	2	<2	<5	<10	3
test	STD P1	9299	0.2	21		22	50			105

END OF LISTING - 13 RECORDS PRINTED Run on: 90:02:14 at 14:14:39



GEOLOGICAL LEGEND

- ② ULTRAMAFIC ROCK - AGE UNKNOWN
- ②Ⓢ CARBONITIZED AND SILICIFIED ULTRAMAFIC ROCK
- ① CARBONIFEROUS SLIDE MOUNTAIN OR CACHE CREEK GROUP ARGILLITE

GEOLOGICAL UNITS WITH HIGH MAGNETIC SIGNATURES FROM GROUND MAGNETIC SURVEY (R. CANNON 1986). H. LETIEN 1989

FAULT (INFERRED)

SYMBOLS

- QUARTZ VEIN
- JOINTING
- BEDDING
- FOLIATION
- CONTOUR INTERVAL 50 meters
- 0 100 250 500 Meters
- CLAIM POST
- FLAGGED TIE LINE
- ROUGH LOGGING ROAD
- FORESTRY SERVICE ROAD
- ▲ A3601 ROCK SAMPLE SITE
- A3626 BULK SEDIMENT SAMPLE SITE
- A3527 SILT SAMPLE SITE
- + SOIL SAMPLE SITE

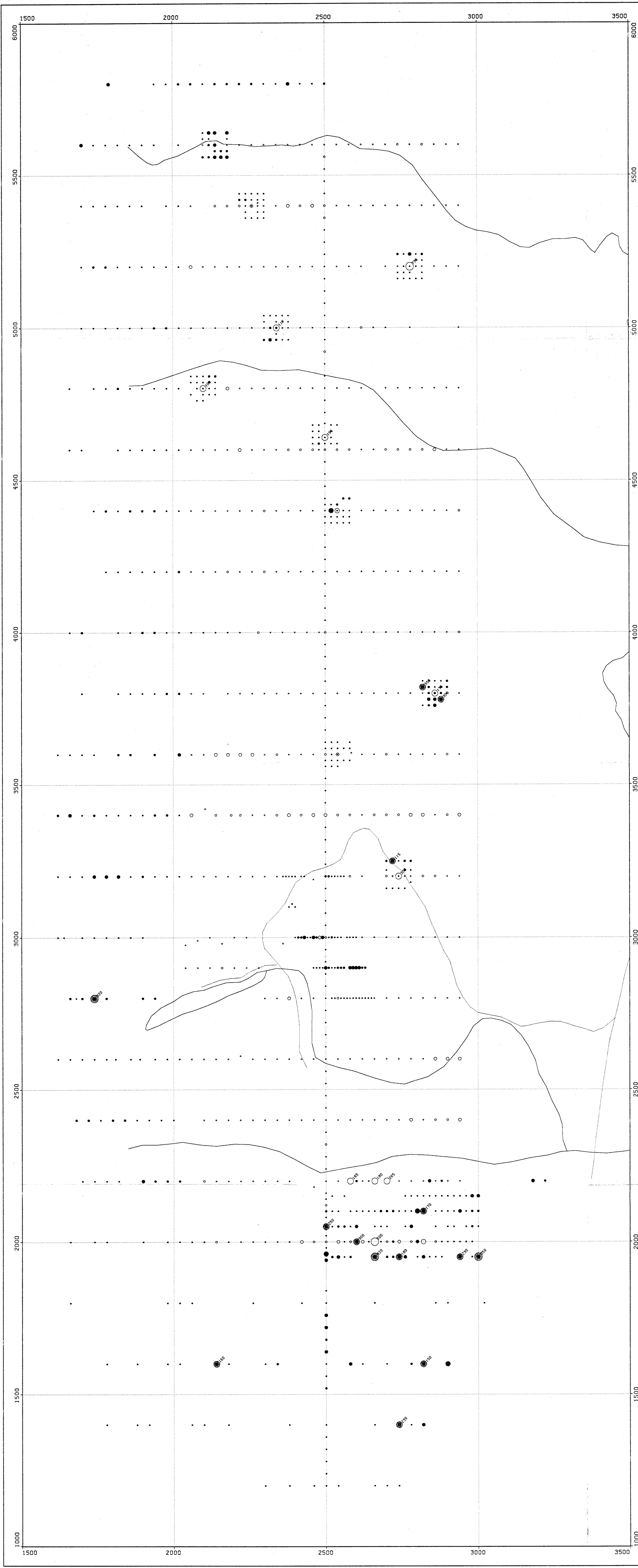
GEOLOGICAL BRANCH ASSESSMENT REPORT

19,736

FIGURE 3

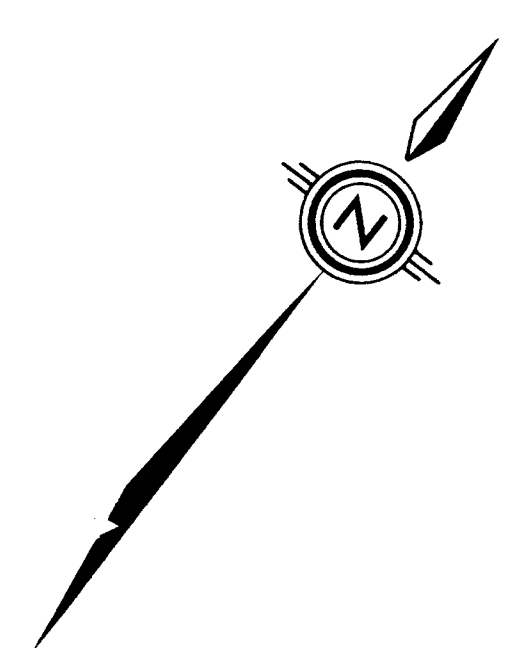
PLACER DOME INC.

DRAWN: S.P.		NAT 1-34 CLAIMS	
SCALE: 1:5000		GEOLOGY and SAMPLE LOCATIONS	
DATE: Oct. 88		REVISOR: W.P. 1989	
REVISED: W.P. 1989		FILE No. 930/5	



NAT CLAIMS
SOIL GEOCHEMISTRY
GOLD IN PPB

- LEGEND
- 1989 GOLD RESULTS
 - 1988 GOLD RESULTS
 - <5 PPB GOLD
 - 5 - 19
 - 20 - 59
 - 60 - 99
 - 100 - 399
 - >400 PPB GOLD



GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,736

DATA PLOTTED ON THIS MAP:
DIRECTORY: 8EXPL/NAT/GCHM

POINTS:	FIELD	FILE
POINTS:	AU1	89SOIL.LOCASY
POINTS:	AU1	88SOIL.GCHM
POINTS:	AU1	89SOIL.LOCASY
POINTS:	AU1	88SOIL.GCHM
POINTS:	SEG	NAT.ROADS
POINTS:	SEG	NAT.CREEKS



FIGURE 4

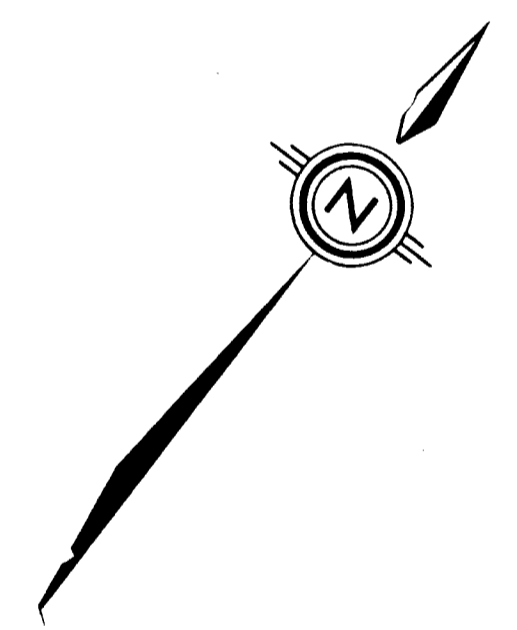
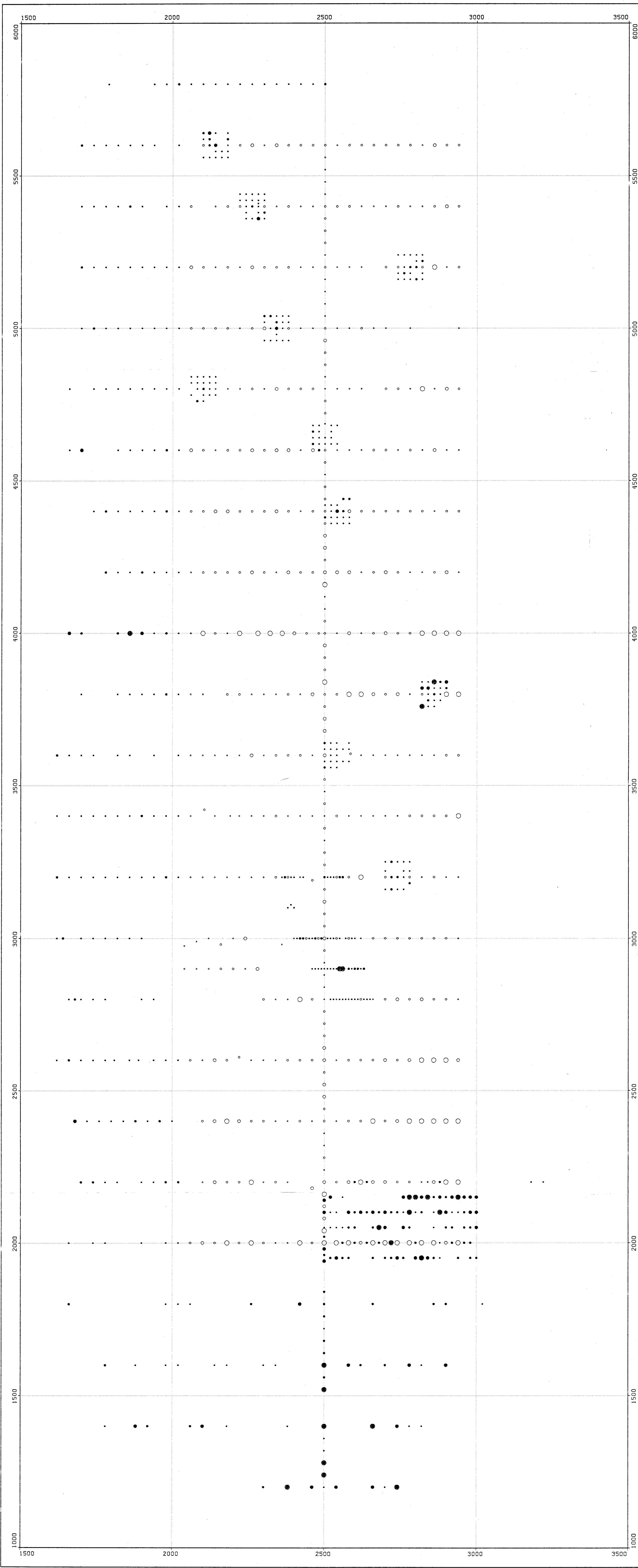
DRAWN		MG	
DATE		90:01:08	
SCALE		1:5000	
NO.		PLATE	

PLACER DOME INC.
NAT CLAIMS
SOIL GEOCHEMISTRY
GOLD IN PPB

NAT CLAIMS
SOIL GEOCHEMISTRY
ZINC IN PPM

LEGEND

- 1989 ZINC RESULTS
- 1988 ZINC RESULTS
- <50 PPM ZINC
- 50 - 74
- 75 - 99
- >100 PPM ZINC



GEOLOGICAL BRANCH
ASSESSMENT REPORT

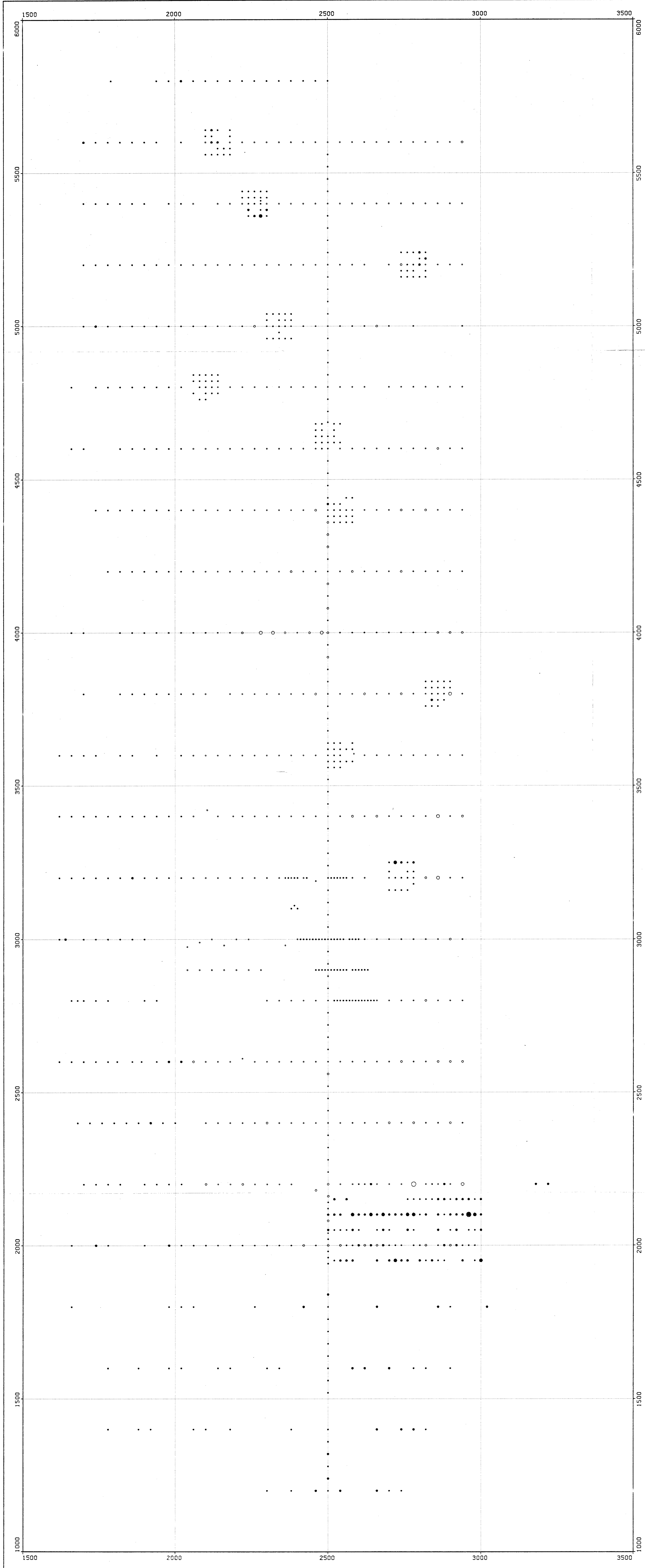
19,736

DATA PLOTTED ON THIS MAP:
DIRECTORY: 8EXPL/NAT/GCHM
FIELD FILE
POINTS: ZN 89SOIL.LOCASY
POINTS: ZN 88SOIL.GCHM



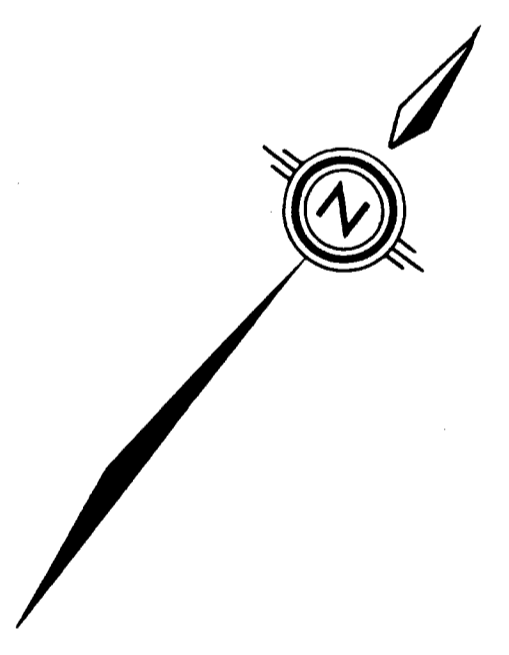
FIGURE 5

DRAWN MG		PLACER DOME INC.	
DATE 90:01:08		NAT CLAIMS	
SCALE 1:5000		SOIL GEOCHEMISTRY	
		ZINC IN PPM	
NO.		PLATE	



NAT CLAIMS
SOIL GEOCHEMISTRY
COPPER IN PPM

- LEGEND
- 1989 COPPER RESULTS
 - 1988 COPPER RESULTS
 - <25 PPM COPPER
 - 25 - 49
 - ◐ 50 - 99
 - ◑ >100 PPM COPPER



GEOLOGICAL BRANCH
ASSESSMENT REPORT
19,736

DATA PLOTTED ON THIS MAP:
 DIRECTORY: SEXPL/NAT/GCHM
 FIELD FILE
 POINTS: CU 89SOIL.LOCASY
 POINTS: CU 88SOIL.GCHM



FIGURE 6

DRAWN: MG		PLACER DOME INC.	
DATE: 90:01:08		NAT CLAIMS	
SCALE: 1:5000		SOIL GEOCHEMISTRY	
		COPPER IN PPM	
NO.			PLATE