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Assessment Report  
**GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL  
 SURVEYS ON THE LO CLAIMS**

Omineca Mining Division, British Columbia

NTS: 93N/03

UTM: 35800E 611800N

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**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

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## **1.0 Introduction**

The Tchentlo Claims (LO 1 to LO 11) were staked in 1988 to cover an area of anomalous gold-in-silt samples that are located along a splay of the Pinchi Fault.

This report deals with the follow-up work that was conducted on the property from August 19 to September 23, 1988 by G. Shevchenko, assisted by D. Travers. The exploration program was designed to define the geology and mineralizing environment and follow-up the existing gold-in-silt anomalies with the aim of better defining areas anomalous in gold.

The geophysical portion of the report is written by R. Cannon, while the remainder of the report is written by G. Shevchenko.

### **1.1 Location and Access (Figure #1)**

The property, centred at UTM coordinates 35800E 611800N, is located on the south shore of Tchentlo Lake, approximately 106 kilometres northwest of Fort St. James, British Columbia.

Access from Fort St. James is provided by the Tachie, Leo Creek and Leo-Tchentlo logging roads. The Leo-Tchentlo Road, which is currently under construction, affords direct access onto the claims. The condition of the roads are excellent as logging in the area is currently under way.

### **1.2 Topography and Physiography**

The property is situated on the Nechako Plateau which is defined by rolling terrain that has elevations varying from 900 to 1525 meters above sea level. The ridges and lakes generally have a northwesterly grain, and the areas between the ridges can be swamp-filled or thickly covered with overburden. Hence rock exposure in the plateau is usually at a minimum.

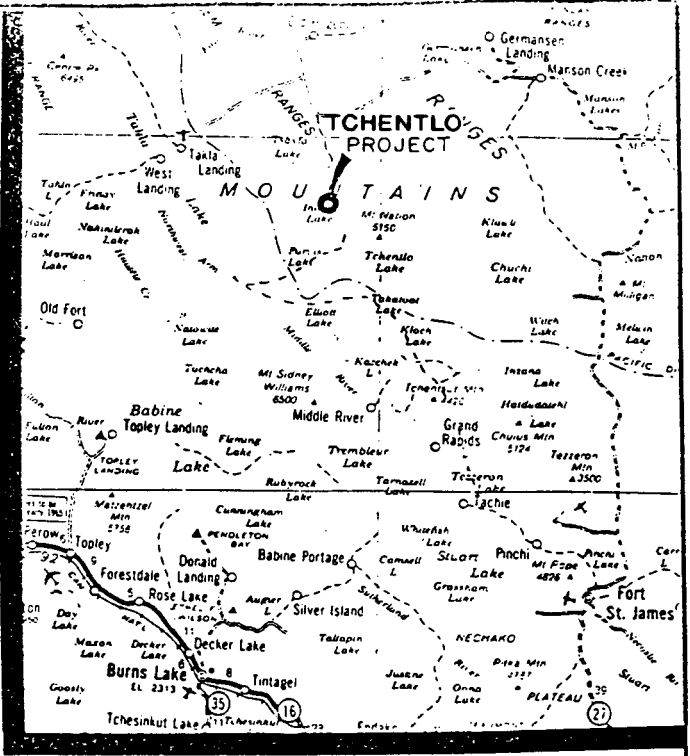
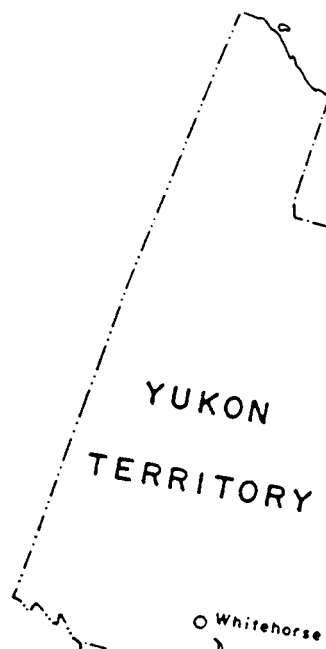
Timber in the vicinity is mostly lodgepole pine and spruce. The forests vary from open to heavily underbrushed with alder and devils club.

### **1.3 Work History**

There is no record of exploration having been done on the claims prior to 1988. However, the areas north and northwest of the property has had extensive porphyry copper and some epithermal gold exploration.

### **1.4 Summary of Work Done**

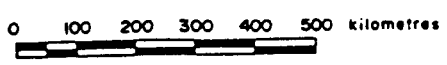
The exploration program consisted of bulk sediment and heavy mineral sampling (44 bulk samples, 3 heavy mineral samples) along creeks, sampling of rock outcrop and float (28 samples), geological mapping (the property at a scale of 1:10,000, the

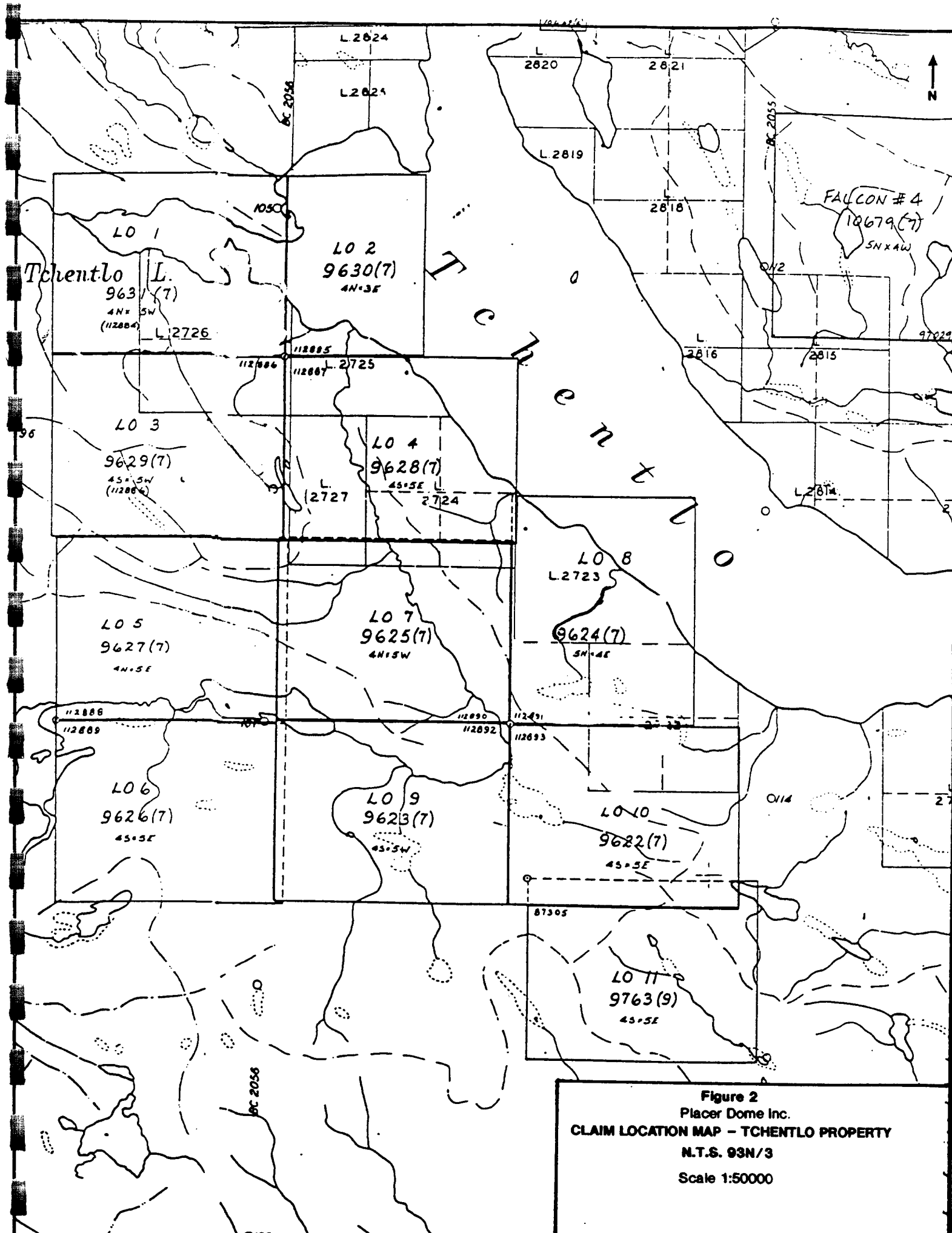


TCHENTLO PROJECT

Figure 1

PROPERTY LOCATION MAP





**Figure 2**  
 Placer Dome Inc.  
**CLAIM LOCATION MAP - TCHENTLO PROPERTY**  
 N.T.S. 93N/3  
 Scale 1:50000

grid at a scale of 1:2,500), line cutting (6.7 line-kilometres), a VLF-EM survey (5.78 line-kilometres) and a soil orientation survey (318 samples).

### **1.5 Claim Status (Figure #2)**

The claims are wholly owned by Placer Dome Inc. of Vancouver, British Columbia. The following table outlines the specifics for each of the claims:

<b>Claim Name</b>	<b>Record No.</b>	<b>Units</b>	<b>Record Date</b>	<b>Expiry Date</b>
Lo 1	9631	20	July 29/88	July 29/90
Lo 2	9630	12	"	"
Lo 3	9629	20	"	"
Lo 4	9628	20	"	"
Lo 5	9627	20	"	"
Lo 6	9626	20	"	"
Lo 7	9625	20	"	"
Lo 8	9624	20	"	July 29/91
Lo 9	9623	20	"	July 29/90
Lo 10	9622	20	"	July 29/91
Lo 11	9763	20	Sept. 1/88	Sept. 1/91

### **2.0 Geology**

#### **2.1 Regional Geology (Figure #3)**

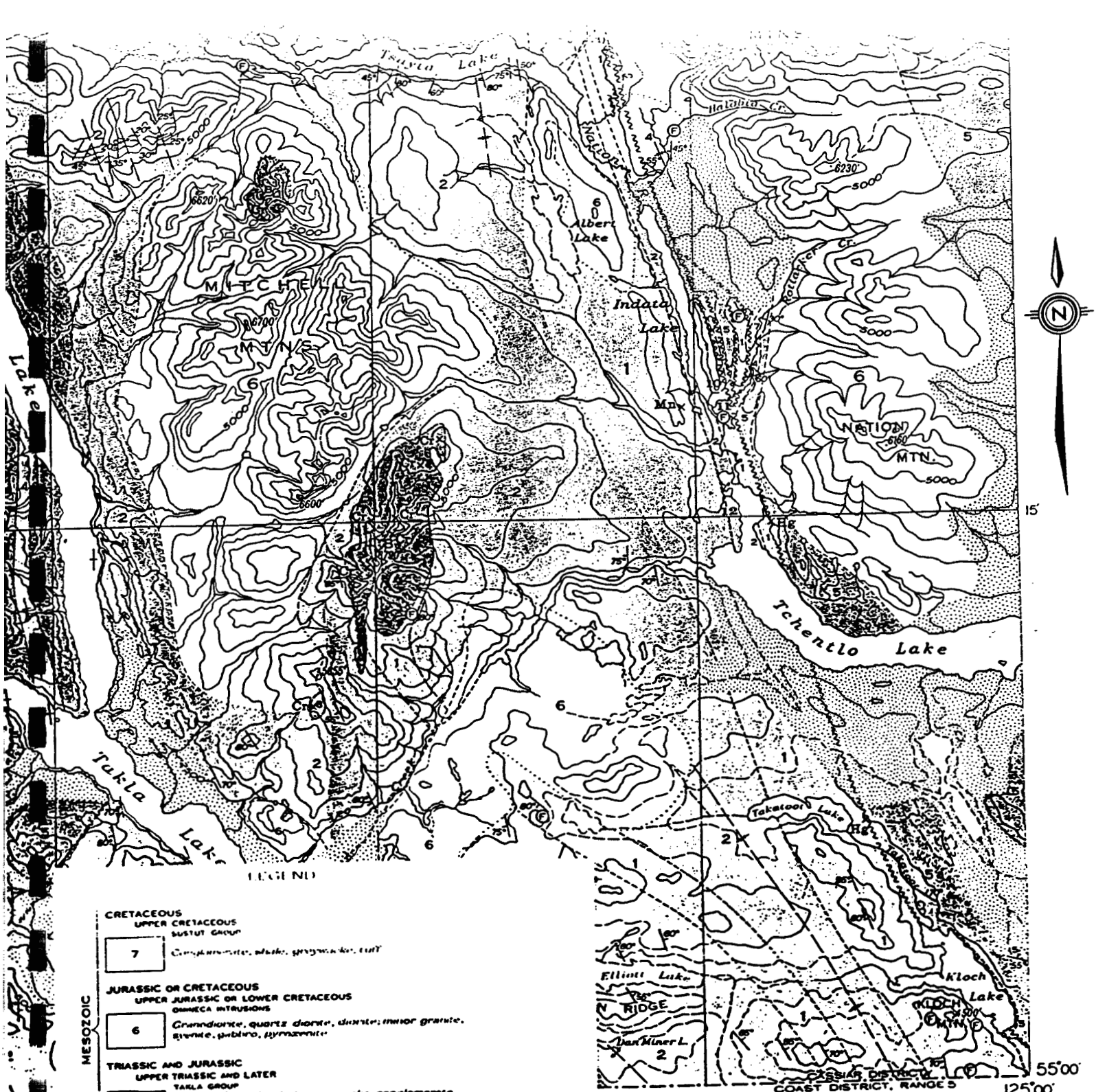
The Tchentlo Property is located near the northern end of the Pinchi Fault which separates the Upper Paleozoic metavolcanic and sedimentary strata of the Cache Creek Group to the west from the Mesozoic volcanic strata of the Takla Group to the east.

"The presence of ultramafic bodies along the regional structure infers a zone of deep crustal weakness favourable for the generation of hydrothermal-related precious metal deposits. A linear belt of mercury occurrences, including the Pinchi Lake and Bralorne Takla Mines, coincides with the trace of the fault. The mercury and placer gold bearing streams substantiate that the geological environment along the Pinchi Fault has the potential to host precious metal deposits. A hot spring situated at the north end of Tchentlo Lake is currently depositing mercury-laden mud, illustrating that geothermal cells are still active along the fault."<sup>1</sup>

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<sup>1</sup> Rebagliati, C.M., March 31, 1987, Report on the Indata Property, page 7, lines 17 to 25.





LEGEND

- CRETACEOUS**  
**UPPER CRETACEOUS**  
 SUSUT GROUP
- 7 Conglomerate, shale, greywacke, tuff
- JURASSIC OR CRETACEOUS**  
**UPPER JURASSIC OR LOWER CRETACEOUS**  
 OMEGA INTRUSIONS
- 6 Gneiss, quartz diorite, diorite; minor granite, syenite, gabbro, pyroxenite
- TRASSIC AND JURASSIC**  
**UPPER TRIASSIC AND LATER**  
 TAKLA GROUP
- 4 Upper Triassic: shale, greywacke, conglomerate, tuff, and limestone  
 5, Upper Triassic and Jurassic: andesitic and basaltic flows; tuffs, breccias, and agglomerates; interbedded conglomerate, shale, greywacke, limestone, and coal
- PERMIAN AND(?) EARLIER**  
 CACHE CREEK GROUP
- Greenstone (andesitic flows, tuffs, and breccias with minor basic intrusive rocks), chlorite and hornblende schists; minor argillite and chert. May include some Takla group (5)
- 2 Argillaceous quartzite, chert, argillite, slate, greywacke, conglomerate; minor greenstone and limestone; related schists. In part older than 1
- Massive limestone; minor argillaceous and cherty sedimentary rocks, and greenstone
- Peridotite, pyroxenite, diorite, serpentine, gabbro, and carbonatised alteration products. Age uncertain, may be pre-Jurassic

Scale = 1:253,440

**PLACER DOME INC.**

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**Property Geology**

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Figure #3 NTS 93N

## **2.2 Property Geology (Figure #4 & #5)**

Exposure on the property is quite limited (less than 5%) with outcrops mainly occurring along creeks, road cuts and ridge tops.

Geological mapping has been restricted to the central portion of the property and was conducted at a scale of 1:10,000.

The claims are underlain by a north-northwesterly trending package of Upper Paleozoic Cache Creek rocks (consisting of massive limestone with lesser sandstone and chert), which has been intruded by Mesozoic ultramafic rocks (mainly pyroxenite). Structural measurements on the attitude of these units are generally unattainable.

Local brecciation and shearing occurs within both the ultramafic and Cache Creek rocks, and is a result of a moderate to steeply dipping north-northwesterly trending shear that is parallel to the strike of the Pinchi Fault. Hydrothermal fluids have resulted in local listwanitic and quartz-carbonate alteration of the ultramafic rocks. The minimal percentage of quartz, carbonate and chalcedonic veinlets suggests that the system was rather dry after the initial stage of shearing and alteration.

Sulphides along the structure are rare, however, local disseminations of pyrite and trace cinnabar do occur with the quartz, carbonate and chalcedonic veinlets.

A central north-norhtwesterly striking shear structure lines up quite nicely with the hot springs to the north, the main creek in the centre, and various alteration and shear textures occurring on the Bar Grid in the south part of the property. As a result the overall structure may have a strike length of some 7 kilometres.

## **2.3 Grid Geology (Figure #6)**

The grid, located in the southeastern corner of the property (see figure #5), trends at 150 degrees true north and totals 6.7 line-kilometres. The baseline is 1 kilometre long and has six crosslines spaced 200 meters apart with a station interval of 20 meters.

Geological mapping was carried out at a scale of 1:2,500. Rock exposure on the grid is limited, hence the geological interpretation is based upon mapping as well as the results from the VLF-EM survey.

The primary rock types which underlie the grid are comprised of a northwest trending package of pyroxenite and olivine basalt intercalated with a thin slice of immature sandstone. In the central portion of the grid just east of the baseline the rocks have been sheared and hydrothermally altered resulting in a zone of listwanitic and quartz-carbonate altered mylonite of varying degree. The altered area may vary in width from 140 to 240 meters.

As interpreted from the VLF-EM map, there appears to be evidence of

northeast cross faulting around lines 5100N and 4900N.

Sulphide mineralization is rare with 1% to 2% very fine grained pyrite occurring in the area of line 4600N, station 10240E, while trace amounts of cinnabar (4800N, 10230E and 5050N, 10060E) occur within the quartz and chalcedonic veinlets which are hosted in the listwanitically altered pyroxenite unit (A-1).

In conclusion, the minimal percentage of quartz, carbonate and chalcedonic veinlets within the listwanitic zone, the trace presence of cinnabar, and the general lack of sulphides indicates that the system was rather dry after the initial stage of shearing and alteration. This suggests that the area would be high up within an epithermal model.

### **3.0 Geochemistry**

Bulk sediment, heavy mineral, lithochemical and soil orientation sampling surveys were conducted over various portions of the property. The following sections (3.1 to 3.4) deals individually with each of the type surveys.

#### **3.1 Bulk Sediment Sampling Survey**

A sampling technique called bulk stream sediment sampling was developed "in-house" by Placer Dome's exploration personnel. It is specifically designed for use in detailed and semi-detailed stream sediment geochemical surveys where gold mineralization is the target of interest. This exploration technique was employed on the Tchentlo property.

A total of 44 bulk samples were taken on the property, resulting in the main creeks being sampled at an interval of 250 to 500 meters and the tributaries sampled just upstream from the mouth.

##### **3.1.1 Bulk Sample Collection, Preparation and Analyses**

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. A single deep excavation is preferable to take advantage of multiple depositional cycles and to avoid undue influence from very local additions to the stream bed load. Approximately two to three kilograms of sieved fraction were collected.

The bulk stream sediment samples were forwarded to Placer Dome's analytical laboratory in Vancouver, British Columbia, where they were oven-dried and sieved to produce a -150 mesh fraction. This fraction was geochemically analyzed for Au, Ag, As, Cu, Zn, Pb, Mo, Ni, and in some cases Ba and Sb. 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"). The table in Appendix 5 summarizes the extraction and detection techniques used by the laboratory.

### **3.1.2 Discussion of Bulk Sediment Results**

Upon review of the results, the only elements of significance are gold (Au) and arsenic (As). The results are tabled in Appendix 1, as well they may be viewed on figures #7 and #8, where gold and arsenic values are plotted along with the sample number.

#### **Gold**

Out of 44 samples taken, only 6 samples returned gold values which were within detection limits, and are tabled as follows:

<b>Sample Number</b>	<b>Au Value (ppb)</b>
BS-11	10
BS-21	15
BS-22	15
BS-26	1480
BS-27	85
BS-37	205

Although the anomalous samples are few, the area of greatest significance, which is outlined by samples BS-21, BS-22, BS-26 and BS-27, is located in the central portion of the property where the main creek makes a sharp turn to the west.

Sample BS-37 is situated close to the mouth of a creek that is located just west of the hot springs. This is the only anomaly on this creek, as samples further upstream did not produce any anomalous gold values.

#### **Arsenic**

The arsenic values are generally quite low as they range from less than 2 parts per million to 18 parts per million (ppm). Values of 12 ppm and greater are considered anomalous, and hence only four anomalous sample sites occur:

<b>Sample Number</b>	<b>Value (ppm)</b>
BS-11	15
BS-17	12
BS-18	18
BS-26	14

Although the relationship is somewhat tenuous, there is a partial correlation of increased arsenic values with increased gold values, as indicated by BS-11 and BS-26.

Samples BS-11, BS-17 and BS-18 occur in an area where minor northwesterly shearing and/or listwanitic alteration have been mapped. Sample BS-26 occurs along the inferred main northwesterly shear structure.

### **3.1.3 Interpretation of Bulk Sample Results**

There appears to be a correlation of increased gold and arsenic values in areas of shearing or inferred shearing. The large anomalous area on the main creek, which was discussed above, may be a result of an east-west cross structure intersecting the main northwesterly shear (as defined by the trend of the main creek). This intersection of structures may act as a structural trap for mineralizing fluids.

## **3.2 Heavy Mineral Sampling Survey**

### **3.2.1 Heavy Mineral Sample Collection, Preparation and Analysis**

Heavy mineral samples were collected by wet sieving clastic material through a -20 mesh stainless steel screen. A steel shovel was used to obtain the raw material. The sieved fraction was retained in a large plastic bag. Approximately 7-8 kilograms of sieved material was collected for each heavy mineral sample. Sample sites were chosen to take advantage of nature's concentration of heavy minerals (i.e. native gold, sulphides within specific flow regimes of the active streams).

The heavy mineral samples were shipped to C.F. Minerals in Kelowna, B.C. for preparation in to 18 different fractions for each sample. These fractions were made from the original samples by separation first on size (sieving), second on specific gravity (heavy liquid) and finally on magnetic susceptibility (electro magnetic separator). Explanation of the code for heavy mineral separates is given with the results in Appendix 2. The heavy mineral fractions were shipped to Activation Laboratories Ltd. in Brantford, Ontario.

The entire sample fractions were irradiated for four hours at a thermal neutron flux of  $1 \times 10^{12} \text{ n cm}^{-2}\text{s}^{-1}$ . After a decay period of seven days, to allow for the activity from Na-24 to decay, the samples were then counted on a high purity germanium detector and the gamma spectrum then analyzed on line by computer. Samples deemed to be anomalous and random samples were then remeasured as a quality control feature. Multi-element reports were then generated for the elements required automatically by computer.

### **3.2.2 Discussion of Heavy Mineral Results**

The sample location and gold results are plotted on Figure #7, as well they are tabled in Appendix 2. Two out of the 18 sample fractions analyzed are anomalous in gold, HM-1351 (-150 HN) is 2510 parts per billion (ppb), and, HM-1352 (-150 HN) is 823 ppb.

### **3.2.3 Interpretation of Heavy Mineral Results**

Both of the anomalous sample fractions are located in creeks that drain the main northwesterly shear, and are in the vicinity of the area of anomalous gold-in-bulk samples.

## **3.3 Lithogeochemical Sampling Survey**

### **3.3.1 Rock Sample Collection, Preparation and Analysis**

Grab samples were collected from float and bedrock exposures and 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 Mo, Cu, Zn, Pb, Ni, Ag, As and Au, and in some cases Ba and Sb. The table in appendix 5 summarizes the extraction and detection techniques used by the laboratory.

### **3.3.2 Discussion of Lithogeochemical Results**

The analytical results and rock sample descriptions are found in Appendix 3.

None of the rock samples collected turned out to be anomalous in Au, Ag, Ba, Mo, Cu, Zn or Pb.

The nickel values range from 18 ppm to 0.25 %. The high nickel values are not considered anomalous, as they occur in the ultramafic rocks, or altered facies thereof, and thus are a result of the inherent high nickel content of them.

The arsenic values range from less than detection limits to 450 ppm, while the antimony values range from 1 to 32 ppm. In all cases, the elevated arsenic and antimony values occur in the altered facies (listwanitic and/or quartz carbonate) of the ultramafic rocks.

### **3.3.3 Interpretation of Lithogeochemical Results**

The anomalous arsenic and antimony values found within the listwanitic and quartz-carbonate altered rocks suggest that an epithermal process has been active.

Thus, these two elements should be good pathfinder elements for a soil geochemical survey.

### **3.4 Soil Geochemical Orientation Survey**

A soil geochemical orientation survey was conducted on lines 5000N, 4800N and a portion of 4600N of the Bar Grid, which is located in the southeastern area of the claims. The purpose was decide which soil horizon and size fraction is most suited for the concentration of gold, arsenic and antimony, and thus govern the procedures for future soil sampling surveys on the grid.

#### **3.4.1 Soil Sample Collection, Preparation and Analysis**

Soil samples were obtained by digging holes with a shovel to depths of 80 to 120 centimetres. Wherever possible, Ao, B and C horizons were sampled and placed in "Hi Wet Strength Kraft 3.5 inch x 6 inch Open End envelopes". Horizon type and grid co-ordinates were marked on the envelopes with a permanent ink felt marker.

The B and C-horizon soil samples were prepared and analyzed by Placer Dome's Geochemical Laboratory at Vancouver, B.C. The A-horizon soil samples were prepared and analyzed by Activation Laboratories Limited at Brantford, Ontario.

The B and C-horizon soil samples are first dried in a hot air dryer and then separated by sieving to coarse (-10 to +80 mesh) and fine (-80 mesh) fractions. The table in Appendix 5 summarizes the extraction and detection techniques used by the laboratory.

The Ao-horizon samples were dried at 60 degrees centigrade for 24 hours or longer depending on how wet the samples were. The dried material was then macerated in a Wyllie mill. Eight grams were then weighed on a Kimwipe which was placed into a briquetting press and compressed under 30,000 PSI to form a wafer enclosed in a Kimwipe. The briquettes were then irradiated for four hours at a thermal neutron flux of  $1 \times 10^{12} \text{ n cm}^{-2}\text{s}^{-1}$ . After a decay period of seven days, to allow for the activity from Na-24 to decay, the samples were then counted on a high purity germanium detector and the gamma spectrum then analyzed on line by computer. Samples deemed to be anomalous and random samples were then remeasured as a quality control feature. Multi-element reports were then generated for the elements required automatically by computer.

#### **3.4.2 Discussion of Soil Orientation Survey Results**

The analytical results are tabled in Appendix 4, as well, the profiles are plotted on figures #9 to #17 (incl.).

For the purposes of this survey, only gold, arsenic and antimony were deemed

significant and thus are discussed.

The following table summarizes the statistical analysis for the gold, arsenic and antimony content in each of the soil horizon/fractions:

Element	Horizon	#Samples	Min Value	Max Value	Mean	Std. Dev.
Au	Ao	120	<1 ppb	8.0 ppb	0.7	0.8
Au	B-Coarse	93	<5 ppb	20.0 ppb	3.2	3.3
Au	B-Fine	93	<5 ppb	20.0 ppb	3.0	2.4
Au	C-Coarse	105	<5 ppb	50.0 ppb	4.7	5.9
Au	C-Fine	105	<5 ppb	75.0 ppb	4.4	8.0
As	Ao	120	<1 ppm	40.0 ppm	1.5	3.9
As	B-Coarse	93	<2 ppm	56.0 ppm	8.5	11.1
As	B-Fine	93	<2 ppm	63.0 ppm	9.9	10.6
As	C-Coarse	105	<2 ppm	550.0 ppm	14.8	54.5
As	C-Fine	105	<2 ppm	1020.0 ppm	20.6	99.5
Sb	Ao	120	<0.1 ppm	14.0 ppm	0.9	2.4
Sb	B-Coarse	93	<2 ppm	35.0 ppm	2.2	5.1
Sb	B-Fine	93	<2 ppm	16.0 ppm	1.6	2.5
Sb	C-Coarse	105	<2 ppm	30.0 ppm	2.0	3.9
Sb	C-Fine	105	<2 ppm	23.0 ppm	1.8	2.8

#### Gold (Figures #9, #12 & #15)

The Ao-horizon and the coarse and fine fractions of the B-horizon yielded only spot anomalies and/or anomalies of very low order.

On line 4800N both the coarse and fine fractions of the C-horizon produced multiple station anomalies of moderate order, however, on lines 4600N and 5000N the fine fraction did not host any gold anomalies whereas the coarse fraction at least had some gold response. Thus it is found that the coarse fraction of the C-horizon produced the best overall response with respect to the concentration of gold.

#### Arsenic (Figures #10, #13 & #16)

The Ao-horizon generated only small anomalies of low magnitude.

The coarse and fine fractions of both the B and C-horizons had very similar responses with respect to the concentration of arsenic. The resulting anomalies are quite widespread (ie: up to 350 metres in width) and generally moderate to high in magnitude. Although the arsenic anomalies are coincident with respect to each of the horizon-fractions, it is found that the fine fraction of the C-horizon has a marginally better response as the magnitude of the anomalies are slightly greater.



### **Antimony (Figures #11, #14 & #17)**

The Ao-horizon consistently hosts multiple station antimony anomalies on all three lines. Though the anomalies are subtle, as the Ao-horizon would inherently have a lower background than the corresponding B and C-horizons, they are quite anomalous in nature.

The coarse and fine fractions of the B-horizon host moderate intensity anomalies, however they do not depict all of the anomalous areas, and the ones which are delineated are not as widespread as the corresponding anomalies that are hosted in the Ao and C-horizons.

The coarse and fine fractions of the C-horizon depict most of the anomalies on lines 4800N and 5000N, however on line 4600N only the coarse fraction hosts areas of anomalous antimony. The anomalies are generally of moderate magnitude.

It would appear that the Ao-horizon is best suited for hosting antimony anomalies, with the coarse fraction of the C-horizon being a close second choice.

### **3.4.3 Interpretation of the Soil Orientation Survey**

Overall, the coarse fraction of the C-horizon is best suited to host anomalous concentrations of gold, arsenic and antimony.

### **4.0 VLF-EM Survey (Figures #18 & #19)**

A VLF-EM survey was conducted along 5.78 km of line and covered six lines. This survey used the Seattle transmitting station NLK (24.8 kHz) with readings being taken at 20 m stations. The direction to the Seattle station was 165° Az and therefore readings were taken facing 075°. The grid lines were at 060° Az.

### **4.1 Instrumentation and Procedure**

The VLF-EM survey was conducted using a Geonics EM-16 which used the Seattle transmitting station. VLF readings were recorded in a notebook and subsequently entered onto the Sun Microsystems work station for final processing and plotting.

### **4.2 Survey Results**

The VLF survey results were plotted as stacked In-phase, Quadrature and Fraser Filter profiles on a plan map at a scale of 1:2500. Contoured Fraser Filter data has also been presented as a plan map. The Fraser Filter data was calculated

as per the method put forth by D.C. Fraser (1969, Contouring of VLF-EM data: Geophysics, v.34, p. 958-967). See maps in the folder at the back of report.

#### **4.3 Discussion of VLF-EM Results**

Numerous conductors were detected by the VLF survey. These conductors, as seen on the accompanying plates, trend at approximately right angles to the grid lines (330° Az). The conductor axes tend to be offset by two major breaks which trend at approximately 095° true azimuth.

#### **5.0 Conclusions**

The property, which covers a north-northwest trending splay of the Pinchi Fault, is underlain by Cache Creek sediments that have been intruded by later stage ultramafic sills. The main shear structure, which represents a conduit for an epithermal system, appears to be defined by the main central creek and lines up with the hot springs and various alteration and shear textures that have been mapped. As a result the overall structure may have a strike length of some 12 kilometres. Listwanitic alteration, minor quartz-carbonate and chalcedonic veining, trace to occasional occurrences of cinnabar and pyrite, and, anomalous concentrations of arsenic and antimony suggest that an epithermal process has been active along the shear zone. However, the minimal amount of veining, the trace presence of cinnabar, and the general lack of sulphides indicates that the system was rather dry after the initial stage of shearing and alteration and that the areas exposed so far are rather high up in an epithermal system.

The bulk and heavy mineral sampling survey outlined an area of anomalous gold values which is located in the central portion of the property where the main creek makes a sharp turn to the west. This area may be a result of an east-west cross structure intersecting the main northwesterly shear (as defined by the trend of the main creek). This intersection of structures may act as a structural trap for mineralizing fluids.

The soil orientation survey results indicate that, overall, the coarse fraction of the C-horizon is best suited to host anomalous concentrations of gold, arsenic and antimony.

The area of the Bar Grid that is located east of the baseline is much more geochemically anomalous than that which is located west of the baseline.

The gold-in-soil anomalies are coincident with the area of listwanitic alteration, as well as with some of the VLF conductors.

The antimony-in-soil anomalies generally occur in areas in between the VLF conductors (ie: areas of relative non-conductivity).

The arsenic-in-soil anomalies occur over VLF conductors as well as in between

them. The anomalies are also coincident with areas of listwanitic alteration.

The VLF-EM survey has defined numerous bedrock conductors which trend parallel to the baseline. The conductor axes mainly occur in areas of topographic lows, and may be partially coincident with zones of listwanitic alteration and shearing.

## **6.0 Recommendations**

The Bar Grid should be extended to the northwest for a distance of 2.5 kilometres to cover the area of anomalous gold that was outlined in the bulk and heavy mineral sampling surveys. It should also be extended to the southeast for a distance of 0.5 kilometres to cover any strike extensions of the listwanitically altered rock. The lines should be spaced 100 meters apart with a station interval of 20 meters.

Geological mapping, soil sampling, VLF-EM and magnetometer surveys should be carried out on the entire grid.

Reconnaissance mapping should be conducted on the remainder of the property.

## **7.0 Bibliography**

- |                   |  |
|-------------------|--|
| Rebagliati, C.M., | March 31, 1987, Prospectus Report on the Indata Property for Eastfield Resources.    |
| Armstrong, J.E.,  | 1945, Department of Mines and Resources, Geological Map 844A, Takla Sheet (93N west) |

**APPENDIX I**  
**Bulk Sample Analytical Results**

PLACER DOME INC (VANCOUVER LABORATORY)

GEOCHEMICAL DATA LISTING: BC GEN EXPL LO

DATE: 98:10:04

PDL lab data file: P8319  
 AREA: LO  
 MAPSHEET NO: 93M03W  
 VENTURE: BC GEN EXPL  
 GEOLOGIST: G SHEVCHENKO  
 LAB PROJECT NO: 8319

LO

PLEASE DISTRIBUTE RESULTS TO: G SHEVCHENKO  
 B. HODGSON M. GAREAU E. KIMURA L. REINERTSON

REMARKS:  
 "ALL AU RESULTS REPORTED IN PPB; 3 AU ANALYSES PER SAMPLE"  
 "SAMPLE BS-12 IS MISSING; AND THERE ARE TWO SAMPLES WITH THE NUMBER BS-13"  
 "THEY HAVE BEEN CALLED BS-13A & BS-13B"

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.

MO	UNITS	WT.G	ATTACK USED	TIME	RANGE	METHOD
CU	PPM	0.5	HClO4/HNO3	4HRS	1-1000	ATOMIC ABSORPTION
ZN	PPM	0.5	HClO4/HNO3	4HRS	2-4000	ATOMIC ABSORPTION
PB	PPM	0.5	HClO4/HNO3	4HRS	2-3000	ATOMIC ABSORPTION
CD	PPM	0.5	HClO4/HNO3	4HRS	2-3000	A.A. BACKGROUND COR.
NI	PPM	0.5	HClO4/HNO3	4HRS	0.2-200	A.A. BACKGROUND COR.
CO	PPM	0.5	HClO4/HNO3	4HRS	2-2000	ATOMIC ABSORPTION
AG	PPM	0.5	HClO4/HNO3	4HRS	2-2000	ATOMIC ABSORPTION
AU	PPM	10.0	AQUA REGIA	4HRS	0.2-20	A.A. BACKGROUND COR
AU1	PPB	10.0	AQUA REGIA	3HRS	0.01-4.00	A.A. SOLVENT EXTRACT.
U	PPM	0.25	DIL HNO3	2HRS	5-4000	A.A. SOLVENT EXTRACT.
V	PPM	0.5	HF/HClO4/HNO3/HCL	2HRS	1.0-1000	FLOURIMETRY SOLV. EX.
W	PPM	0.5	HClO4/H3PO4	6HRS	5-1000	ATOMIC ABSORPTION
F	PPM	0.25	Na2CO3/KNO3 FUSION	2HRS	2-1000	DC PLASMA
AS	PPM	0.5	AQUA REGIA	30MIN	40-4000	SPECIFIC ION ELECTRODE
SB	PPM	0.5	HCL/HNO3	3HRS	2-2000	DC PLASMA
BI	PPM	0.5	HClO4/HNO3	3HRS	2-2000	DC PLASMA
MN	PPM	0.5	HClO4/HNO3	4HRS	2-2000	A.A. BACKGROUND COR.
FE	%	0.5	HF/HClO4/HNO3/HCL	4HRS	2-2000	ATOMIC ABSORPTION
HG	PPB	0.25	DIL HNO3/HCL	6HRS	0.02-20%	DC PLASMA
BA	%	0.25	HF/HI/OXALIC	2HRS	5-2000PPB	A.A. COLD VAPOR GEN.
NA	%	0.5	HF/HClO4/HNO3/HCL	4HRS	0.02-20%	ATOMIC ABSORPTION
K	%	0.5	HF/HClO4/HNO3/HCL	6HRS	0.2-20%	DC PLASMA
CA	%	0.5	HF/HClO4/HNO3/HCL	6HRS	0.2-20%	DC PLASMA
SR	PPM	0.5	HF/HClO4/HNO3/HCL	6HRS	0.02-20%	DC PLASMA
MG	%	0.5	HF/HClO4/HNO3/HCL	6HRS	10-2000	DC PLASMA
SN	PPM	1.0	NH4I FUSION	6HRS	0.2-20%	DC PLASMA
PT	PPB	25.0	FIRE ASSAY	15MIN	5-500	A.A. SOLVENT EXTRACT.
PD	PPB	25.0	FIRE ASSAY	45MIN	DL 10PPB	DC PLASMA
LOI	%	1.0	ASH 600 DEG C	45MIN	DL 5PPB	DC PLASMA
				2HRS	0.02-99%	WEIGH RESIDUE

PLACER GEOCHEM ASSAY SYSTEM: DATA FROM BC GEN EXPL LO

DATE: 88:10:04

PAGE: 1

GRID	SAMPLE	PROJECT	MO	CU	ZN	PB	NI	AG	AU	AS	AU-A	AU-B
93N03W	93N03W	BS-01	8319	<1	13	60	3	107	0.2	<5	7	<5
93N03W	93N03W	BS-02	8319	<1	13	82	7	190	<0.2	<5	11	<5
93N03W	93N03W	BS-03	8319	<1	19	68	7	161	<0.2	<5	10	<5
93N03W	93N03W	BS-04	8319	<1	14	67	6	160	<0.2	<5	9	<5
93N03W	93N03W	BS-05	8319	<1	17	72	7	145	<0.2	<5	9	<5
93N03W	93N03W	BS-06	8319	<1	17	75	6	180	<0.2	<5	9	<5
93N03W	93N03W	BS-07	8319	<1	12	64	5	137	<0.2	<5	6	<5
93N03W	93N03W	BS-08	8319	<1	22	63	5	50	<0.2	<5	5	<5
93N03W	93N03W	BS-09	8319	<1	13	57	5	45	<0.2	<5	5	<5
93N03W	93N03W	BS-09*	8319	<1	12	58	6	44	<0.2	<5	4	<5
93N03W	93N03W	BS-10	8319	<1	6	44	3	37	<0.2	<5	3	<5
93N03W	93N03W	BS-11	8319	7	26	127	10	104	<0.2	<5	15	<5
93N03W	93N03W	BS-13A	8319	1	12	64	6	73	<0.2	<5	5	<5
93N03W	93N03W	BS-13B	8319	1	10	64	5	80	<0.2	<5	11	NSS
93N03W	93N03W	BS-14	8319	<1	31	75	6	57	<0.2	<5	2	<5
93N03W	93N03W	BS-15	8319	3	23	137	9	123	<0.2	<5	11	<5
93N03W	93N03W	BS-16	8319	<1	8	48	6	60	<0.2	<5	4	<5
93N03W	93N03W	BS-17	8319	<1	15	61	8	70	<0.2	<5	12	<5
93N03W	93N03W	BS-18	8319	<1	17	80	5	84	<0.2	<5	18	<5
93N03W	93N03W	BS-18*	8319	<1	16	74	5	78	<0.2	<5	17	NSS
93N03W	93N03W	BS-19	8319	<1	13	50	7	55	<0.2	<5	12	<5
93N03W	93N03W	BS-20	8319	1	11	58	6	45	<0.2	<5	2	<5
93N03W	93N03W	BS-21	8319	<1	13	54	5	42	<0.2	<5	4	<5
93N03W	93N03W	BS-22	8319	<1	17	71	4	47	<0.2	<5	15	<5
93N03W	93N03W	BS-23	8319	<1	13	81	6	120	<0.2	<5	9	<5
93N03W	93N03W	BS-24	8319	<1	10	80	7	86	<0.2	<5	5	<5
93N03W	93N03W	BS-25	8319	<1	17	48	7	78	<0.2	<5	5	<5
93N03W	93N03W	BS-26	8319	<1	22	84	7	110	<0.2	<5	14	<5
93N03W	93N03W	BS-27	8319	<1	14	61	5	115	<0.2	<5	6	<5
test	STD P	8319	14	130	96	100	27	1.5		76		
test	STD AU	8319							350			340

END OF LISTING - 31 RECORDS PRINTED  
GCLIST RUN AT: 11:14:34

PLACER DEVELOPMENT LIMITED: GEOCHEM ASSAY SYSTEM

Following elements needed some values adjusted:

ELEMENT	NSS	LOW	HI	%	BLNK	NVAL
MO	0	20	0	0	0	27
AG	0	17	0	0	0	27
AU	0	25	0	0	0	27
AS	0	3	0	0	0	27
AU-A	0	24	0	0	0	27
AU-B	1	26	0	0	0	26

4 records skipped: tests, duplicate analyses

SUMMARY OF GEOCHEM DATA: BC GEN EXPL LD

ITEM	# VALUES	MISSING	MINIMUM	MAXIMUM	AVERAGE	STD. DEV.
GRID	27	0	93N03W	93N03W		
SAMP	27	0	93N03W	93N03W		
PROJ	27	0	8319	8319		
AG	27	0	0.10	0.20	0.14	0.05
AS	27	0	1.00	18.00	7.26	4.55
AU	27	0	2.50	85.00	5.83	15.89
AU-A	27	0	2.50	1480.00	58.15	284.18
AU-B	26	1	2.50	2.50	2.50	0.00
CU	27	0	6.00	31.00	15.48	5.58
MO	27	0	0.50	7.00	0.93	1.31
NI	27	0	37.00	190.00	94.85	45.13
PB	27	0	3.00	10.00	5.96	1.58
ZN	27	0	44.00	137.00	70.19	21.03

END OF GCHSCAN: DATE: 88:10:04 time: 11:14:34 27 RECORDS PROCESSED

PLACER DOME INC (VANCOUVER LABORATORY)  
 GEOCHEMICAL DATA LISTING: BC GEN EXPL LO CLAIMS

DATE: 88:12:06

PDL lab data file: 1  
 AREA: LO CLAIMS  
 MAPSHEET NO: 93N03W  
 VENTURE: BC GEN EXPL  
 GEOLOGIST: G SHEVCHENKO  
 LAB PROJECT NO: 8360

PLEASE DISTRIBUTE RESULTS TO: G SHEVCHENKO  
 B. HODGSON M. GAREAU E. KIMURA L. REINERTSON

REMARKS:  
 "ALL AU RESULTS REPORTED IN PPB; 3 AU ANALYSES PER SAMPLE"

PDL lab data file: P8360

PDL lab data file: P8360 no header information available

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
MO	PPM	0.5	HClO4/HNO3	4HRS	1-1000	ATOMIC ABSORPTION
CU	PPM	0.5	HClO4/HNO3	4HRS	2-4000	ATOMIC ABSORPTION
ZN	PPM	0.5	HClO4/HNO3	4HRS	2-3000	ATOMIC ABSORPTION
PB	PPM	0.5	HClO4/HNO3	4HRS	2-3000	A.A. BACKGROUND COR.
CD	PPM	0.5	HClO4/HNO3	4HRS	0.2-200	A.A. BACKGROUND COR.
NI	PPM	0.5	HClO4/HNO3	4HRS	2-2000	ATOMIC ABSORPTION
CO	PPM	0.5	HClO4/HNO3	4HRS	2-2000	ATOMIC ABSORPTION
AG	PPM	0.5	HClO4/HNO3	4HRS	0.2-20	A.A. BACKGROUND COR
AU	PPM	10.0	AQUA REGIA	3HRS	0.01-4.00	A.A. SOLVENT EXTRACT.
AU1	PPB	10.0	AQUA REGIA	3HRS	5-4000	A.A. SOLVENT EXTRACT.
U	PPM	0.25	DIL HNO3	2HRS	1.0-1000	FLOURIMETRY SOLV. EX.
V	PPM	0.5	HF/HClO4/HNO3/HCL	6HRS	5-1000	ATOMIC ABSORPTION
W	PPM	0.5	HClO4/H3PO4	2HRS	2-1000	DC PLASMA
F	PPM	0.25	NA2CO3/KNO3 FUSION	30MIN	40-4000	SPECIFIC ION ELECTRODE
AS	PPM	0.5	AQUA REGIA	3HRS	2-2000	DC PLASMA
SB	PPM	0.5	HCL/HNO3	3HRS	2-2000	DC PLASMA
BI	PPM	0.5	HClO4/HNO3	4HRS	2-2000	A.A. BACKGROUND COR.
MN	PPM	0.5	HClO4/HNO3	4HRS	2-2000	ATOMIC ABSORPTION
FE	%	0.5	HF/HClO4/HNO3/HCL	6HRS	0.02-20%	DC PLASMA
HG	PPB	0.25	DIL HNO3/HCL	2HRS	5-2000PPB	A.A. COLD VAPOR GEN.
BA	%	0.25	HF/HI/OXALIC	4HRS	0.02-20%	ATOMIC ABSORPTION
NA	%	0.5	HF/HClO4/HNO3/HCL	6HRS	0.2 -20%	DC PLASMA
K	%	0.5	HF/HClO4/HNO3/HCL	6HRS	0.2 -20%	DC PLASMA
CA	%	0.5	HF/HClO4/HNO3/HCL	6HRS	0.02-20%	DC PLASMA
SR	PPM	0.5	HF/HClO4/HNO3/HCL	6HRS	10-2000	DC PLASMA
MG	%	0.5	HF/HClO4/HNO3/HCL	6HRS	0.2-20%	DC PLASMA
SN	PPM	1.0	NH4I FUSION	15MIN	5-500	A.A. SOLVENT EXTRACT.
PT	PPB	25.0	FIRE ASSAY	45MIN	DL 10PPB	DC PLASMA
PD	PPB	25.0	FIRE ASSAY	45MIN	DL 5PPB	DC PLASMA
LGI	%	1.0	ASH 600 DEG C	2HRS	0.02-99%	WEIGH RESIDUE



PLACER GEOCHEM ASSAY SYSTEM: DATA FROM BC GEN EXPL LD CLAIMS

DATE: 88:12:06

PAGE: 1

GRID	SAMPLE	PROJECT	MO	CU	ZN	PB	NI	AG	AU	AS	BA	SB	AU-A	AU-B
93N03W	93N03W	B528	8360	1	26	56	7	107	0.2	<5	<2	0.03	<2	<5
93N03W	93N03W	B529	8360	<1	24	69	4	75	0.3	<5	<2	0.06	<2	<5
93N03W	93N03W	B530	8360	<1	31	88	6	103	0.4	<5	5	0.06	<2	<5
93N03W	93N03W	B531	8360	1	130	93	7	125	0.3	<5	<2	0.07	<2	<5
93N03W	93N03W	B532	8360	<1	17	65	5	91	<0.2	<5	<2	0.05	<2	<5
93N03W	93N03W	B533	8360	<1	27	65	5	87	0.2	<5	3	0.07	<2	<5
93N03W	93N03W	B534	8360	<1	13	45	4	68	0.2	<5	5	0.04	<2	<5
93N03W	93N03W	B535	8360	<1	14	68	4	99	<0.2	<5	5	0.04	<2	N55
93N03W	93N03W	B536	8360	<1	14	62	4	80	0.2	<5	4	0.04	<2	<5
93N03W	93N03W	B536*	8360	<1	14	61	4	81	0.2	<5	2	N55	<2	N55
93N03W	93N03W	B537	8360	<1	31	60	6	116	<0.2	<5	7	0.07	<2	205
93N03W	93N03W	B538	8360	1	21	35	5	95	0.2	<5	3	0.05	<2	<5
93N03W	93N03W	B539	8360	<1	34	91	6	124	0.3	<5	3	0.06	<2	<5
93N03W	93N03W	B540	8360	<1	28	81	6	106	0.3	<5	4	0.07	<2	<5
93N03W	93N03W	B541	8360	<1	28	68	6	105	0.3	<5	<2	0.06	<2	<5
93N03W	93N03W	B542	8360	<1	22	68	7	89	0.2	<5	3	0.05	<2	<5
93N03W	93N03W	B543	8360	<1	25	74	6	101	0.2	<5	5	0.06	<2	<5
93N03W	93N03W	B544	8360	<1	31	73	6	105	0.2	<5	4	0.06	<2	<5
93N03W	93N03W	B544*	8360	<1	31	71	7	105	0.3	<5		0.06	<2	<5
test	STD P	8360									76			
test	STD AU	8360							400					370
test	STD BA	8360									0.64			

END OF LISTING - 22 RECORDS PRINTED  
 GCLIST RUN AT: 16:41:22

PLACER DEVELOPMENT LIMITED: GEOCHEM ASSAY SYSTEM

Following elements needed some values adjusted:

ELEMENT	NSS	LOW	HI	%	BLNK	NVAL
MO	0	14	0	0	0	17
AG	0	3	0	0	0	17
AU	0	16	0	0	0	17
AS	0	5	0	0	0	17
SB	0	17	0	0	0	17
AU-A	0	16	0	0	0	17
AU-B	1	15	0	0	0	16

5 records skipped: tests, duplicate analyses

SUMMARY OF GEOCHEM DATA: BC GEN EXPL LO CLAIMS

ITEM	# VALUES	MISSING	MINIMUM	MAXIMUM	AVERAGE	STD. DEV.
GRID	17	0	93N03W	93N03W		
SAMP	17	0	93N03W	93N03W		
PROJ	17	0	8360	8360		
AG	17	0	0.10	0.40	0.22	0.08
AS	17	0	1.00	7.00	3.29	1.83
AU	17	0	2.50	5.00	2.65	0.61
AU-A	17	0	2.50	5.00	2.65	0.61
AU-B	16	1	2.50	205.00	15.16	50.63
BA	17	0	0.03	0.07	0.06	0.01
CU	17	0	13.00	130.00	30.35	26.49
MU	17	0	0.50	1.00	0.59	0.20
NI	17	0	68.00	125.00	98.59	15.84
PB	17	0	4.00	7.00	5.53	1.07
SB	17	0	1.00	1.00	1.00	0.00
ZN	17	0	35.00	93.00	68.29	15.13

END OF GCHSCAN: DATE: 88:12:06 time: 16:41:22 17 RECORDS PROCESSED

**APPENDIX II**

**Heavy Mineral Sample Analytical Results**

**Legend**

1351, 1352 or 1353

-35+150 or -150

HN

HP

HM

Sample number

Size fraction

Non magnetic fraction

Para magnetic fraction

Magnetic fraction

Activation Laboratories Ltd. Work Order: 856 Report: 842

Sample description	AU PPB	AG PPM	AS PPM	BA PPM	BR PPM	CA %	CO PPM	CR PPM	CS PPM	FE %	HF PPM	HG PPM	IR PPB	MO PPM	NA PPM	NI PPM	RB PPM	SB PPM	SC PPM	SE PPM	SR %	TA PPM
--------------------	-----------	-----------	-----------	-----------	-----------	---------	-----------	-----------	-----------	---------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	---------	-----------

1351-35+150 HM	<5	<5	3	<200	14	<2	96	20000	<2	48.0	10	<5	<40	<20	686	320	53	0.6	5.6	<20	<0.2	1
1351-35+150 HP	<7	<5	<2	<200	12	<3	26	4300	<2	24.2	12	<5	<40	<20	2080	<200	<50	0.8	31	<20	<0.2	12
1351-35+150 HN	6	<5	<2	<200	<5	<2	<5	270	<2	2.39	110	<5	<40	<20	2030	<200	<50	1.5	27	<20	<0.2	95
1351-150 HM	<7	<5	8	540	24	<4	130	26000	<2	75.4	25	<5	<40	50	1090	1800	<50	1.7	8.7	<20	<0.2	<1
1351-150 HP	22	<5	<2	<200	25	<1	32	2100	<2	15.7	6	<5	<40	<20	5020	<200	<50	0.7	59	<20	<0.2	<1
1351-150 HN	2510	<5	<2	<200	34	7	6	190	<2	1.38	1000	<5	<40	<20	8580	<200	<50	2.3	29	<20	<0.2	23
1352-35+150 HM	<8	<5	<5	<200	<5	<5	120	27000	<2	62.4	7	<5	<40	<20	<500	490	<50	<0.2	5.9	<20	<0.2	<1
1352-35+150 HP	<8	<5	15	<200	19	<3	26	3700	<2	23.6	10	<5	<40	<20	2060	<200	<50	2.4	37	<20	<0.2	13
1352-35+150 HN	<12	<5	<6	<200	<5	<2	<5	110	<2	1.36	90	<5	<40	130	<737	<200	<50	2.1	17	<20	<0.2	100
1352-150 HM	<5	<5	4	<200	24	<2	100	17000	<2	58.8	11	<5	<40	<20	1080	730	<50	0.8	7.7	<20	<0.2	2
1352-150 HP	<5	<5	6	<200	23	<3	32	3100	<2	27.7	6	<5	<40	<20	3530	<200	<50	1.3	40	<20	<0.2	7
1352-150 HN	823	<5	<2	550	26	4	16	790	<2	8.42	210	<5	<40	<20	8300	<200	<50	1.0	34	<20	<0.2	12
1353-35+150 HM	<5	<5	8	<200	26	<2	160	36000	<2	34.5	3	<5	<40	<20	<500	870	<50	1.9	5.9	<20	<0.2	4
1353-35+150 HP	<5	<5	10	350	14	<1	26	8800	<2	17.0	4	<5	<40	<20	1360	<200	<50	1.8	26	<20	<0.2	<1
1353-35+150 HN	<7	<5	<2	1100	<5	9	11	370	<2	4.09	86	<5	<40	<20	1930	<200	<50	1.2	43	<20	<0.2	47
1353-150 HM	<5	<5	8	<200	25	<4	150	23000	<2	67.2	7	<5	<40	<20	<500	900	<50	2.5	6.5	<20	<0.2	<1
1353-150 HP	7	<5	8	<200	25	3	43	8900	<2	23.6	7	<5	<40	<20	3080	<200	<50	2.3	42	<20	<0.2	5
1353-150 HN	30	<5	8	380	29	4	14	250	<2	3.36	320	<5	<40	<20	9980	<200	<50	3.5	38	<20	<0.2	14

Sample description	TH	U	W	ZN	LA	CE	ND	SM	EU	TB	YB	LU	Mass
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	g

1351-35+150 HM	7.7	5.2	<4	510	22	46	16	3.5	0.8	<2	2.5	0.4	2.510
1351-35+150 HP	100	7.9	<4	<200	670	810	250	27	4.8	<2	12.4	2.2	7.030
1351-35+150 HN	160	89	<4	<200	550	1500	1200	220	49.8	36	115	10.9	4.577
1351-150 HM	5.3	7.0	28	450	14	41	<10	3.0	<0.2	<2	3.0	<0.1	0.2233
1351-150 HP	14	3.6	<4	210	110	160	66	11	2.2	<2	6.3	0.6	1.865
1351-150 HN	110	100	47	<100	280	650	440	86	20.1	13	66.3	4.4	0.9062
1352-35+150 HM	3.0	<1.4	<6	640	9	29	<10	1.6	<0.2	<2	<0.2	<0.1	3.637
1352-35+150 HP	89	10	<4	<200	690	760	230	28	4.6	<2	13.8	2.4	16.38
1352-35+150 HN	190	120	<9	<200	630	1600	1300	240	56.3	40	130	8.2	6.039
1352-150 HM	3.1	2.1	<4	420	13	19	12	2.2	0.5	<2	1.6	0.3	0.8850
1352-150 HP	11	<0.6	<4	<200	96	150	51	7.8	1.9	<2	6.4	<0.1	3.135
1352-150 HN	35	16	10	<200	180	350	180	33	8.0	<2	24.2	3.8	5.297
1353-35+150 HM	<0.5	1.9	<4	1100	10	<3	<10	1.0	0.3	<2	0.8	0.2	2.694
1353-35+150 HP	30	3.7	<4	110	230	260	63	9.2	1.9	<2	6.4	1.0	14.56
1353-35+150 HN	81	48	<4	<200	310	800	590	120	26.1	22	70.1	6.5	5.436
1353-150 HM	<0.5	<0.7	12	470	8	26	<10	1.4	0.6	<2	<0.2	0.40	1.936
1353-150 HP	11	6.4	<4	<100	87	120	50	8.3	1.9	<2	6.8	1.10	7.524
1353-150 HN	43	41	<4	<100	160	340	190	43	8.3	6	33.0	6.10	4.090

**APPENDIX III**  
**Rock Sample Analytical Results**  
**and**  
**Rock Sample Descriptions**

PLACER DOME INC (VANCOUVER LABORATORY)  
 GEOCHEMICAL DATA LISTING: BC GEN EXPL LO

DATE: 88:10:04

PDL lab data file: P8318  
 AREA: LD  
 MAPSHEET NO: 93N03W  
 VENTURE: BC GEN EXPL  
 GEOLOGIST: G SHEVCHENKO  
 LAB PROJECT NO: 8318

PLEASE DISTRIBUTE RESULTS TO: G SHEVCHENKO  
 B. HODGSON M. GAREAU E. KIMURA L. REINERTSON

REMARKS:  
 "AUI RESULTS REPORTED IN PPB"  
 ""  
 ""  
 ""

LO

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
MO	PPM	0.5	HClO4/HNO3	4HRS	1-1000	ATOMIC ABSORPTION
CU	PPM	0.5	HClO4/HNO3	4HRS	2-4000	ATOMIC ABSORPTION
ZN	PPM	0.5	HClO4/HNO3	4HRS	2-3000	ATOMIC ABSORPTION
PB	PPM	0.5	HClO4/HNO3	4HRS	2-3000	A.A. BACKGROUND COR.
CD	PPM	0.5	HClO4/HNO3	4HRS	0.2-200	A.A. BACKGROUND COR.
NI	PPM	0.5	HClO4/HNO3	4HRS	2-2000	ATOMIC ABSORPTION
CO	PPM	0.5	HClO4/HNO3	4HRS	2-2000	ATOMIC ABSORPTION
AG	PPM	0.5	HClO4/HNO3	4HRS	0.2-20	A.A. BACKGROUND COR.
AU	PPM	10.0	AQUA REGIA	3HRS	0.01-4.00	A.A. SOLVENT EXTRACT.
AUI	PPB	10.0	AQUA REGIA	3HRS	5-4000	A.A. SOLVENT EXTRACT.
U	PPM	0.25	DIL HNO3	2HRS	1.0-1000	FLOURIMETRY SOLV. EX.
V	PPM	0.5	HF/HClO4/HNO3/HCL	6HRS	5-1000	ATOMIC ABSORPTION
W	PPM	0.5	HClO4/H3PO4	2HRS	2-1000	DC PLASMA
F	PPM	0.25	NA2CO3/KNO3 FUSION	30MIN	40-4000	SPECIFIC ION ELECTRODE
AS	PPM	0.5	AQUA REGIA	3HRS	2-2000	DC PLASMA
SB	PPM	0.5	HCL/HNO3	3HRS	2-2000	DC PLASMA
BI	PPM	0.5	HClO4/HNO3	4HRS	2-2000	A.A. BACKGROUND COR.
MN	PPM	0.5	HClO4/HNO3	4HRS	2-2000	ATOMIC ABSORPTION
FE	%	0.5	HF/HClO4/HNO3/HCL	6HRS	0.02-20%	DC PLASMA
HG	PPB	0.25	DIL HNO3/HCL	2HRS	5-2000PPB	A.A. COLD VAPOR GEN.
BA	%	0.25	HF/HI/OXALIC	4HRS	0.02-20%	ATOMIC ABSORPTION
NA	%	0.5	HF/HClO4/HNO3/HCL	6HRS	0.2-20%	DC PLASMA
K	%	0.5	HF/HClO4/HNO3/HCL	6HRS	0.2-20%	DC PLASMA
CA	%	0.5	HF/HClO4/HNO3/HCL	6HRS	0.02-20%	DC PLASMA
SR	PPM	0.5	HF/HClO4/HNO3/HCL	6HRS	10-2000	DC PLASMA
MG	%	0.5	HF/HClO4/HNO3/HCL	6HRS	0.2-20%	DC PLASMA
SN	PPM	1.0	NH4I FUSION	15MIN	5-500	A.A. SOLVENT EXTRACT.
PT	PPB	25.0	FIRE ASSAY	45MIN	DL 10PPB	DC PLASMA
PD	PPB	25.0	FIRE ASSAY	45MIN	DL 5PPB	DC PLASMA
LOI	%	1.0	ASH 600 DEG C	2HRS	0.02-99%	WEIGH RESIDUE

PLACER GEOCHEM ASSAY SYSTEM: DATA FROM BC GEN EXPL LD

DATE: 88:10:04

PAGE: 1

GRID	SAMPLE	PROJECT	MO	CU	ZN	PB	NI	AG	AS	AU1
93N03W		34251 8318	3	8	43	9	18	<0.2	4	<5
93N03W		34252 8318	1	28	82	6	174	<0.2	4	<5
93N03W		34253 8318	<1	5	30	5	0.25%	<0.2	4	<5
93N03W		34254 8318	2	5	35	7	43	<0.2	3	<5
93N03W		34255 8318	<1	113	35	3	90	<0.2	2	<5
93N03W		34256 8318	1	7	14	3	640	<0.2	360	<5
93N03W		34257 8318	2	7	25	8	50	<0.2	20	<5
93N03W		34258 8318	2	11	26	8	59	<0.2	47	<5
93N03W		34259 8318	<1	50	55	9	740	<0.2	110	<5
93N03W		34259* 8318	<1	50	55	8	740	<0.2	113	<5
93N03W		34260 8318	<1	116	60	14	95	<0.2	14	<5
93N03W		34261 8318	<1	13	33	2	1260	<0.2	84	<5
93N03W		34262 8318	<1	7	26	2	1480	<0.2	19	<5
93N03W		34263 8318	<1	4	23	3	1250	<0.2	23	<5
93N03W		34264 8318	<1	5	25	2	1110	<0.2	74	<5
93N03W		34265 8318	<1	42	49	6	800	<0.2	134	<5
test	STD P	8318	13	127	92	107	26	1.5	68	
test	STD AU	8318								400

END OF LISTING - 18 RECORDS PRINTED  
 GCLIST RUN AT: 11:14:34



PLACER DEVELOPMENT LIMITED: GEOCHEM ASSAY SYSTEM

Following elements needed some values adjusted:

ELEMENT	NSS	LOW	HI	%	BLNK	NVAL
MO	0	9	0	0	0	15
NI	0	0	0	1	0	15
AG	0	15	0	0	0	15
AU1	0	15	0	0	0	15

3 records skipped: tests, duplicate analyses

SUMMARY OF GEOCHEM DATA: BC GEN EXPL LD

ITEM	# VALUES	MISSING	MINIMUM	MAXIMUM	AVERAGE	STD. DEV.
GRID	15	0	93N03W	93N03W		
SAMP	0	15				
PROJ	15	0	8318	8318		
AG	15	0	0.10	0.10	0.10	0.00
AS	15	0	2.00	360.00	60.13	93.24
AU1	15	0	2.50	2.50	2.50	0.00
CU	15	0	4.00	116.00	28.07	37.84
MO	15	0	0.50	3.00	1.03	0.81
NI	15	0	18.00	2500.00	687.20	725.62
PB	15	0	2.00	14.00	5.80	3.45
ZN	15	0	14.00	82.00	37.40	17.70

END OF\_GCHSCAN: DATE: 88:10:04 time: 11:14:34 15 RECDRJS PROCESSED

P L A C E K 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: BC GEN EXPL LU CLAIMS

DATE: 88:12:07

PDL lab data file: P8370  
AREA: LU CLAIMS  
MAPSHEET NO: 93N03  
VENTURE: BC GEN EXPL  
GEOLOGIST: G SHEVCHENKO  
LAB PROJCT NU: 8370

PLEASE DISTRIBUTE RESULTS TO: G SHEVCHENKO  
B. HODGSON M. GAREAU E. KIMURA L. KEINERTSON

REMARKS:  
"AUI RESULTS REPORTED IN PPB"

## PLACER GEOCHEM ASSAY SYSTEM: DATA FROM BC GEN EXPL LN CLAIMS

DATE: 88:12:07

PAGE: 1

GPID	SAMPLE	PROJECT	MC	CU	ZN	PB	NI	AG	AS	BA	SB	AU1
Q3N03	34274	8370	1	60	65	12	51	0.2	10	0.11	<2	<5
Q3N03	34280	8370	1	62	56	10	34	<0.2	19	0.06	<2	<5
Q3N03	34281	8370	6	152	60	10	30	0.2	38	0.07	3	<5
Q3N03	34282	8370	<1	60	58	9	28	<0.2	34	0.11	<2	<5
Q3N03	34282*	8370	<1	64	60	8	29	<0.2	37	0.12	<2	<5

END OF LISTING - 5 RECORDS PRINTED  
GCLIST RUN AT: 16:27:14

PLACER DEVELOPMENT LIMITED: GEOCHEM ASSAY SYSTEM

Following elements needed some values adjusted:

ELEMENT	NSS	LOW	HI	%	BLNK	NVAL
MO	0	1	0	0	U	4
AG	0	2	0	0	U	4
SB	0	3	0	0	U	4
AU1	0	4	0	0	U	4

1 records skipped: tests, duplicate analyses

SUMMARY OF GEOCHEM DATA: BC GEN EXPL LD CLAIMS

ITEM	# VALUES	MISSING	MINIMUM	MAXIMUM	AVERAGE	STD. DEV.
GRID	4	0	93N03	93N03		
SAMP	0	4				
PROJ	4	0	8370	8370		
AG	4	0	0.10	0.20	0.15	0.06
AS	4	0	10.00	38.00	25.25	13.05
AU1	4	0	2.50	2.50	2.50	0.00
RA	4	0	0.06	0.11	0.09	0.03
CU	4	0	60.00	152.00	88.50	43.28
MO	4	0	0.50	6.00	2.13	2.59
NI	4	0	28.00	51.00	35.75	10.47
PB	4	0	4.00	12.00	10.25	1.26
SB	4	0	1.00	3.00	1.50	1.00
ZN	4	0	56.00	65.00	59.75	3.86

END OF GCHSCAN: DATE: 86:12:07 time: 16:27:14 4 RECORDS PROCESSED

SAMPLE #	ROCK DESCRIPTION	ANALYSES				
		Au (ppb)	Cu (ppm)	As (ppm)	Ba (%)	Sb (ppm)
34264	Grab sample - listwanitically altered pyroxenite, as above.	<5	5	74	na	na
34266	Grab sample - listwanitically altered pyroxenite, minor quartz and chalcedonic veining.	<5	5	114	<0.02	8
34267	Grab sample - quartz vein breccia hosted in listwanitically altered pyroxenite.	<5	4	11	<0.02	6
34268	Grab sample - listwanitically altered pyroxenite, minor quartz veining.	<5	7	253	<0.02	4
34269	Grab sample - listwanitically altered pyroxenite, as above.	<5	4	98	<0.02	11
34270	Grab sample - pyroxenite with weak listwanitic alteration, up to 5% quartz and chalcedonic veinlets hosts trace amounts of very fine grained pyrite and cinnabar.	<5	3	123	<0.02	13
34271	Grab sample - immature sandstone with hematite alteration, 3% quartz veinlets and 1% very fine grained disseminated pyrite.	<5	42	4	0.02	2
34272	Grab sample - highly weathered, sheared and altered mafic volcanic.	<5	15	6	0.04	<2
34274	Grab sample - listwanitically altered pyroxenite, sheared, siliceous, 1 to 2% very fine grained disseminated pyrite.	<5	6	450	<0.02	32
34275	Grab sample - listwanitically altered pyroxenite, 5 to 15% vuggy quartz veinlets.	<5	7	130	<0.02	24
34276	Grab sample - sheared and brecciated pyroxenite exhibiting quartz-carbonate alteration.	<5	8	240	<0.02	8
34277	Grab sample - sheared and siliceous pyroxenite, up to 5% pyrite and occasional chalcopryrite.	<5	8	182	<0.02	6
34278	Grab sample - pyroxenite, sheared and partially siliceous with minor quartz and chalcedonic veining.	<5	5	190	<0.02	4

SAMPLE #	ROCK DESCRIPTION	ANALYSES				
		Au (ppb)	Cu (ppm)	As (ppm)	Ba (%)	Sb (ppm)
34251	Grab sample - bleached volcanic with occasional fluorite	<5	8	4	na	na
34252	Discontinuous chip sample (3 meters width) - sheared and altered volcanic with calcite veinlets and 5 to 10% pyrite.	<5	28	4	na	na
34253	Grab sample - sheared limestone	<5	5	4	na	na
34254	Grab sample - sheared serpentinite with minor rusty weathering, weakly calcareous.	<5	5	3	na	na
34255	Discontinuous chip sample (approx. 4 metres wide) - sheared porphyritic feldspar volcanic with strong hematite alteration.	<5	113	2	na	na
34256	Grab sample - listwanitically altered pyroxenite with 10 to 20% quartz veinlets in a stockwork-type texture.	<5	7	360	na	na
34257	Grab sample - sheared and brecciated limestone	<5	7	20	na	na
34258	Grab sample - sheared and brecciated limestone with rusty weathering along fractures.	<5	11	47	na	na
34259	Grab sample - listwanitically altered pyroxenite with 3 to 5% quartz veinlets hosting occasional very fine grained pyrite.	<5	50	110	na	na
34260	Grab sample - listwanitically altered pyroxenite, as above.	<5	116	14	na	na
34261	Grab sample - listwanitically altered pyroxenite, as above.	<5	13	84	na	na
34262	Grab sample - listwanitically altered pyroxenite, 5 to 15% fuchsite, 5 to 15% quartz veinlets.	<5	7	19	na	na
34263	Grab sample - listwanitically altered pyroxenite, as above.	<5	4	23	na	na

SAMPLE #	ROCK DESCRIPTION	ANALYSES				
		Au (ppb)	Cu (ppm)	As (ppm)	Ba (%)	Sb (ppm)
34279	Grab sample - siliceous fine grained sandstone with strong hematite alteration, up to 5% quartz veinlets.	<5	60	10	0.11	<2
34280	Grab sample - siliceous fine grained sandstone with strong hematite alteration, up to 5% quartz veinlets	<5	62	19	0.06	<2
34281	Grab sample - siliceous fine grained sandstone with strong hematite alteration, up to 5% quartz veinlets.	<5	152	38	0.07	3
34282	Grab sample - siliceous fine grained sandstone with strong hematite alteration, up to 5% quartz veinlets.	<5	84	37	0.12	<2
34445	Character chip sample - chert with 1 to 2% very fine grained disseminated pyrite and 1 to 2% calcite along fractures.	<5	10	<2	0.12	<2
34446	Character chip sample - chert, as above	<5	18	4	0.60	<2

**APPENDIX IV**  
**Soil Sample Analytical Results**



P L C E D U I A N U R B T Y )  
GEOCHEMICAL DATA LISTING: BC GEN EXPL LO

DATE: 88:12:07

PDL lab data file: P8363  
AREA: LO  
MAPSHEET NO: 93N03  
VENTURE: BC GEN EXPL  
GEOLOGIST: G SHEVCHENKO  
LAB PROJECT NO: 8363

PLEASE DISTRIBUTE RESULTS TO: G SHEVCHENKO  
B. HODGSON M. GAREAU E. KIMURA L. REINERTSON

REMARKS:  
"SAMPLES FROM THE A HORIZON; ANALYSES FROM ACTIVATION LABORATORIES"

ID	SAM	PRD				A	AU					CP	B						
93N03	4800N	9400EA	8363	<0.5	<20	2	<2	2	0.6	<1	2	0.37	<100	34	0.3	<0.5	<2	0.6	2
93N03	4800N	9420EA	8363	0.6	26	<1	<2	<1	<0.1	<1	<1	0.09	<100	7	<0.1	<0.5	<2	<0.5	2
93N03	4800N	9440EA	8363	0.5	30	<1	<2	<1	<0.1	<1	<1	0.09	<100	6	<0.1	<0.5	<2	<0.5	2
93N03	4800N	9480EA	8363	<0.5	23	<1	<2	<1	0.3	<1	<1	0.14	<100	17	0.1	<0.5	<2	<0.5	2
93N03	4800N	9500EA	8363	<0.5	<20	<1	<2	<1	4.4	<1	<1	0.06	<100	4	0.3	<0.5	<2	<0.5	2
93N03	4800N	9520EA	8363	1.2	<20	<1	<2	<1	<0.1	<1	<1	<0.05	<100	1	<0.1	<0.5	<2	<0.5	2
93N03	4800N	9540EA	8363	2.2	23	<1	<2	<1	<0.1	<1	<1	<0.05	<100	2	<0.1	<0.5	<2	<0.5	2
93N03	4800N	9560EA	8363	0.6	<20	1	<2	<1	<0.1	<1	<1	0.13	<100	3	0.1	<0.5	<2	<0.5	2
93N03	4800N	9560EA*	8363																
93N03	4800N	9580EA	8363	0.9	<20	<1	<2	<1	<0.1	<1	<1	0.08	<100	3	0.1	<0.5	<2	<0.5	4
93N03	4800N	9600EA	8363	0.5	<20	<1	<2	<1	<0.1	<1	<1	0.15	<100	14	0.1	<0.5	<2	<0.5	1
93N03	4800N	10020EA	8363	0.5	<20	<1	<2	<1	<0.1	<1	<1	<0.05	<100	2	<0.1	<0.5	<2	<0.5	2
93N03	4800N	10040EA	8363	1.2	<20	<1	<2	<1	<0.1	<1	<1	0.12	<100	21	<0.1	<0.5	<2	<0.5	2
93N03	4800N	10060EA	8363	<0.5	20	<1	<2	<1	<0.1	<1	<1	<0.05	<100	3	<0.1	<0.5	<2	<0.5	2
93N03	4800N	10100EA	8363	0.6	28	2	<2	<1	0.1	<1	<1	0.27	260	20	<0.1	<0.5	<2	<0.5	2
93N03	4800N	10120EA	8363	<0.5	43	1	<2	<1	<0.1	<1	<1	0.09	120	15	0.1	<0.5	<2	<0.5	2
93N03	4800N	10140EA	8363	0.6	26	<1	<2	<1	<0.1	<1	<1	0.08	110	9	0.2	<0.5	<2	<0.5	2
93N03	4800N	10160EA	8363	0.7	29	1	<2	<1	<0.1	<1	<1	0.11	<100	34	0.2	<0.5	<2	<0.5	2
93N03	4800N	10160EA*	8363																
93N03	4800N	10180EA	8363	0.6	<20	8	<2	<1	0.2	<1	9	0.71	130	290	1.7	<0.5	<2	<0.5	<1
93N03	4800N	10200EA	8363	<0.5	33	24	<2	<1	<0.1	<1	9	1.80	120	950	3.8	<0.5	<2	<0.5	<1
93N03	4800N	10220EA	8363	<0.5	20	4	<2	<1	<0.2	<1	2	0.28	140	100	0.8	<0.5	<2	<0.5	<1
93N03	4800N	10240EA	8363	<0.5	37	24	<2	<1	<0.1	<1	40	1.44	160	640	13	<0.5	<2	<0.5	<1
93N03	4800N	10260EA	8363	0.5	21	3	<2	<1	<0.2	<1	4	0.40	150	130	1.3	<0.5	<2	<0.5	2
93N03	4800N	10280EA	8363	0.7	23	2	<2	<1	<0.1	<1	1	0.10	110	23	0.2	<0.5	<2	<0.5	2
93N03	4800N	10300EA	8363	0.9	22	<1	<2	<1	<0.1	<1	<1	0.06	100	6	0.2	<0.5	<2	<0.5	2
93N03	4800N	10320EA	8363	<0.5	23	2	<2	<1	0.2	<1	2	0.26	120	20	2.8	<0.5	<2	<0.5	2
93N03	4800N	10340EA	8363	<0.5	64	2	<2	1	0.2	<1	2	0.40	240	6	3.9	<0.5	<2	<0.5	2
93N03	4800N	10340EA*	8363																
93N03	4800N	10360EA	8363	<0.5	<20	2	<2	3	0.2	<1	2	0.63	160	52	9.4	<0.5	<2	0.6	<1
93N03	4800N	10380EA	8363	<0.5	20	3	<2	2	<0.1	<1	3	0.72	330	58	14	<0.5	<2	0.6	1
93N03	4800N	10400EA	8363	<0.5	30	2	<2	<1	<0.1	<1	<1	0.11	220	6	0.9	<0.5	<2	<0.5	2
93N03	4800N	10420EA	8363	<0.5	<20	1	<2	<1	0.2	<1	<1	0.21	140	20	1.5	<0.5	<2	<0.5	2
93N03	4800N	10440EA	8363	<0.5	<20	2	<2	<1	0.2	<1	2	0.43	240	30	6.1	<0.5	<2	0.5	1
93N03	4800N	10460EA	8363	<0.5	24	2	<2	<1	<0.1	<1	<1	0.31	190	29	0.9	<0.5	<2	0.5	1
93N03	4800N	10480EA	8363	0.8	31	2	<2	<1	<0.1	<1	2	0.16	210	7	2.0	<0.5	<2	0.5	1
93N03	4800N	10500EA	8363	<0.5	<20	2	<2	<1	0.2	<1	<1	0.39	230	40	1.9	<0.5	<2	0.5	2
93N03	5000N	9700EA	8363	<0.5	<20	<1	<2	<1	<0.1	<1	<1	0.66	<100	10	<0.1	<0.5	<2	<0.5	2
93N03	5000N	9700EA*	8363																
93N03	5000N	9720EA	8363	<0.5	30	6	<2	<1	3.0	<1	2	1.32	170	92	0.4	<0.5	<2	2.0	2
93N03	5000N	9740EA	8363	<0.5	<20	6	<2	<1	0.1	<1	<1	0.46	<100	110	0.1	<0.5	<2	<0.5	2
93N03	5000N	9760EA	8363	<0.5	27	<1	<2	<1	<0.1	<1	<1	0.05	<100	7	<0.1	<0.5	<2	<0.5	2
93N03	5000N	9780EA	8363	<0.5	20	1	<2	<1	<0.1	<1	<1	0.09	110	15	<0.1	<0.5	<2	<0.5	2
93N03	5000N	9800EA	8363	<0.5	20	<1	<2	<1	<0.1	<1	<1	0.08	<100	7	<0.1	<0.5	<2	<0.5	2
93N03	5000N	9820EA	8363	<0.5	<20	<1	<2	<1	<0.1	<1	<1	<0.05	<100	4	0.1	<0.5	<2	<0.5	2
93N03	5000N	9840EA	8363	<0.5	<20	<1	<2	<1	<0.1	<1	<1	<0.05	<100	9	<0.1	<0.5	<2	<0.5	2
93N03	5000N	9860EA	8363	<0.5	26	2	<2	<1	<0.1	<1	<1	0.22	110	13	<0.1	<0.5	<2	<0.5	2
93N03	5000N	9880EA	8363	0.5	21	<1	<2	<1	<0.1	<1	<1	0.09	<100	5	<0.1	<0.5	<2	<0.5	2
93N03	5000N	9880EA*	8363																
93N03	5000N	9900EA	8363	0.9	25	<1	<2	<1	<0.1	<1	<1	0.05	<100	2	<0.1	<0.5	<2	<0.5	3
93N03	5000N	9920EA	8363	<0.5	21	<1	<2	<1	<0.1	<1	<1	0.07	<100	4	0.1	<0.5	<2	<0.5	2
93N03	5000N	9940EA	8363	<0.5	33	<1	<2	<1	<0.1	<1	<1	0.07	<100	4	<0.1	<0.5	<2	<0.5	2
93N03	5000N	9980EA	8363	<0.5	<20	<1	<2	<1	<0.1	<1	<1	0.05	110	3	<0.1	<0.5	<2	<0.5	3
93N03	5000N	9980EA*	8363																

END OF LISTING - 54 RECORDS PRINTED  
 GCLIST RUN AT: 16:27:14

GR	LE	ACT	SC	
93N03	4800N	9400EA	8363	1.5
93N03	4800N	9420EA	8363	0.4
93N03	4800N	9440EA	8363	0.4
93N03	4800N	9480EA	8363	0.8
93N03	4800N	9500EA	8363	0.3
93N03	4800N	9520EA	8363	0.1
93N03	4800N	9540EA	8363	0.2
93N03	4800N	9560EA	8363	0.2
93N03	4800N	9560EA*	8363	
93N03	4800N	9580EA	8363	0.3
93N03	4800N	9600EA	8363	1.0
93N03	4800N	10020EA	8363	0.1
93N03	4800N	10040EA	8363	0.4
93N03	4800N	10060EA	8363	0.2
93N03	4800N	10100EA	8363	1.4
93N03	4800N	10120EA	8363	0.4
93N03	4800N	10140EA	8363	0.4
93N03	4800N	10160EA	8363	0.5
93N03	4800N	10160EA*	8363	
93N03	4800N	10180EA	8363	2.2
93N03	4800N	10200EA	8363	2.1
93N03	4800N	10220EA	8363	0.9
93N03	4800N	10240EA	8363	3.0
93N03	4800N	10260EA	8363	1.7
93N03	4800N	10280EA	8363	0.4
93N03	4800N	10300EA	8363	0.3
93N03	4800N	10320EA	8363	0.9
93N03	4800N	10340EA	8363	0.8
93N03	4800N	10340EA*	8363	
93N03	4800N	10360EA	8363	3.1
93N03	4800N	10380EA	8363	2.1
93N03	4800N	10400EA	8363	0.5
93N03	4800N	10420EA	8363	1.0
93N03	4800N	10440EA	8363	1.7
93N03	4800N	10460EA	8363	1.4
93N03	4800N	10480EA	8363	0.8
93N03	4800N	10500EA	8363	2.1
93N03	5000N	9700EA	8363	0.3
93N03	5000N	9700EA*	8363	
93N03	5000N	9720EA	8363	4.6
93N03	5000N	9740EA	8363	1.1
93N03	5000N	9760EA	8363	0.3
93N03	5000N	9780EA	8363	0.5
93N03	5000N	9800EA	8363	0.4
93N03	5000N	9820EA	8363	0.2
93N03	5000N	9840EA	8363	0.3
93N03	5000N	9860EA	8363	0.4
93N03	5000N	9880EA	8363	0.4
93N03	5000N	9880EA*	8363	
93N03	5000N	9900EA	8363	0.2
93N03	5000N	9920EA	8363	0.3
93N03	5000N	9940EA	8363	0.3
93N03	5000N	9980EA	8363	0.2
93N03	5000N	9980EA*	8363	

END OF LISTING - 54 RECORDS PRINTED  
 GCLIST RUN AT: 16:27:14

PLACER DEVELOPMENT LIMITED: GEOCHEM ASSAY SYSTEM

Following elements needed some values adjusted:

ELEMENT	NSS	LOW	HI	%	BLNK	NVAL
MO	0	29	0	0	0	48
ZN	0	18	0	0	0	48
CO	0	23	0	0	0	48
AG	0	48	0	0	0	48
AU	0	43	0	0	0	48
U	0	31	0	0	0	48
W	0	48	0	0	0	48
AS	0	34	0	0	0	48
FE	0	6	0	0	0	48
BA	0	24	0	0	0	48
SB	0	18	0	0	0	48
TA	0	48	0	0	0	48
SE	0	48	0	0	0	48
TH	0	42	0	0	0	48

6 records skipped: tests, duplicate analyses

SUMMARY OF GEOCHEM DATA: BC GEN EXPL LO

ITEM	# VALUES	MISSING	MINIMUM	MAXIMUM	AVERAGE	STD. DEV.
GRID	48	0	93N03	93N03		
SAMP	48	0	4800N	5000N		
PRDJ	48	0	8363	8363		
AG	48	0	1.00	1.00	1.00	0.00
AS	48	0	0.50	40.00	2.06	5.88
AU	48	0	0.50	3.00	0.64	0.47
BA	48	0	50.00	330.00	107.92	72.43
BR	48	0	0.00	0.00	0.00	0.00
CU	48	0	0.50	24.00	2.47	4.81
CR	48	0	1.00	950.00	60.17	165.39
FE	48	0	0.03	1.80	0.27	0.37
MO	48	0	0.25	2.20	0.46	0.37
SB	48	0	0.05	14.00	1.41	3.10
SC	48	0	0.00	0.00	0.00	0.00
SE	48	0	1.00	1.00	1.00	0.00
TA	48	0	0.25	0.25	0.25	0.00
TH	48	0	0.25	2.00	0.32	0.27
U	48	0	0.05	4.40	0.26	0.75
W	48	0	0.50	0.50	0.50	0.00
ZN	48	0	10.00	64.00	20.81	10.98

END OF GCHSCAN: DATE: 88:12:07 time: 16:27:14 48 RECORDS PROCESSED

PDL lab data file: P8361  
AREA: LU  
MAPSHEET NO: 93N03  
VENTURE: BC GEN EXPL  
GEOLOGIST: G SHEVCHENKU  
LAB PROJECT NU: 8361

PLEASE DISTRIBUTE RESULTS TO: G SHEVCHENKU  
B. HODGSON M. GAREAU E. KIMURA L. REINERTSON

REMARKS:  
"AUI RESULTS REPORTED IN PPB; B HORIZON SAMPLES"  
"SIFT SAMPLE TO COARSE (-10 +80 MESH) AND FINE (-80) MESH FRACTION"  
"ANALYZE BOTH FRACTIONS"

PLACER GEUCHEM ASSAY SYSTEM: DATA FROM BC GEN EXPL LO

DATE: 88

GRID	SAMPLE	PROJECT	MO	CU	ZN	PB	NI	AG	AS	BA	SB	AU1	
93N03	4800N	9400EF	8361	1	9	110	12	54	<0.2	16	0.02	<2	<5
93N03	4800N	9420EF	8361	1	25	90	10	68	<0.2	8	0.05	<2	<5
93N03	4800N	9440EF	8361	1	12	160	8	48	<0.2	4	0.03	<2	<5
93N03	4800N	9460EF	8361	1	14	172	12	44	0.2	6	0.02	<2	<5
93N03	4800N	9480EF	8361	1	9	30	8	34	<0.2	7	0.05	<2	<5
93N03	4800N	9560EF	8361	<1	9	35	6	42	<0.2	4	0.05	<2	<5
93N03	4800N	9580EF	8361	<1	17	54	6	43	0.3	4	0.05	<2	<5
93N03	4800N	9600EF	8361	<1	9	54	5	32	<0.2	6	0.04	<2	<5
93N03	4800N	9600EF*	8361	<1	9	55	6	34	<0.2	6	0.03	<2	<5
93N03	4800N	9620EF	8361	<1	17	72	8	71	<0.2	8	0.03	<2	<5
93N03	4800N	9660EF	8361	<1	10	80	6	78	<0.2	5	0.03	<2	<5
93N03	4800N	9700EF	8361	<1	6	35	4	105	<0.2	2	0.03	<2	<5
93N03	4800N	9720EF	8361	<1	11	44	5	107	<0.2	<2	0.03	<2	<5
93N03	4800N	9740EF	8361	<1	17	70	9	580	<0.2	7	0.05	<2	<5
93N03	4800N	9760EF	8361	<1	14	53	7	93	<0.2	7	0.04	<2	<5
93N03	4800N	9800EF	8361	<1	13	70	7	61	<0.2	<2	0.04	<2	<5
93N03	4800N	9820EF	8361	<1	16	90	8	62	<0.2	5	0.04	<2	<5
93N03	4800N	9840EF	8361	<1	21	115	9	270	0.2	7	0.05	<2	<5
test	STD P		8361	16	126	95	107	25	1.4	80		31	
93N03	4800N	9860EF	8361	1	12	185	8	170	<0.2	7	0.04	<2	<5
93N03	4800N	9880EF	8361	<1	10	174	7	84	<0.2	4	0.04	<2	<5
93N03	4800N	9900EF	8361	1	16	65	8	142	<0.2	8	0.04	<2	<5
93N03	4800N	9920EF	8361	<1	9	111	8	66	<0.2	4	0.03	<2	<5
93N03	4800N	9940EF	8361	1	15	92	8	67	<0.2	4	0.03	<2	<5
93N03	4800N	10040EF	8361	1	8	111	6	42	<0.2	3	0.03	<2	<5
93N03	4800N	10060EF	8361	<1	18	70	8	67	0.4	6	0.03	<2	<5
93N03	4800N	10100EF	8361	<1	13	94	5	55	<0.2	4	0.05	<2	<5
93N03	4800N	10100EF*	8361	<1	13	95	6	53	<0.2	5	0.05	<2	<5
93N03	4800N	10120EF	8361	<1	13	75	6	126	<0.2	16	0.05	<2	<5
93N03	4800N	10140EF	8361	<1	12	64	5	173	<0.2	10	0.04	<2	<5
93N03	4800N	10160EF	8361	<1	14	74	5	310	<0.2	19	0.04	<2	<5
93N03	4800N	10180EF	8361	1	8	60	4	153	<0.2	19	0.03	<2	<5
93N03	4800N	10200EF	8361	<1	14	72	6	910	<0.2	32	0.05	<2	<5
93N03	4800N	10220EF	8361	<1	14	72	6	330	<0.2	36	0.04	<2	<5
93N03	4800N	10240EF	8361	<1	15	88	6	660	<0.2	45	0.05	<2	<5
93N03	4800N	10260EF	8361	<1	14	70	5	150	<0.2	17	0.03	<2	<5
93N03	4800N	10280EF	8361	<1	16	82	7	260	<0.2	46	0.05	<2	<5
test	STD P		8361	17	126	100	102	25	1.4	74		30	
93N03	4800N	10300EF	8361	<1	33	177	6	210	0.2	27	0.05	<2	<5
93N03	4800N	10320EF	8361	<1	35	98	7	176	0.3	21	0.04	<2	<5
93N03	4800N	10340EF	8361	<1	20	89	6	77	0.3	10	0.04	<2	<5
93N03	4800N	10380EF	8361	<1	115	102	12	150	0.2	63	0.14	15	<5
93N03	4800N	10400EF	8361	<1	20	71	5	58	0.3	11	0.05	2	5
93N03	4800N	10420EF	8361	<1	20	96	5	80	<0.2	13	0.05	<2	<5
93N03	4800N	10440EF	8361	<1	31	101	5	62	0.3	17	0.06	<2	5
93N03	4800N	10460EF	8361	<1	24	90	3	150	0.4	14	0.05	<2	<5
93N03	4800N	10480EF	8361	<1	20	125	6	83	0.2	3	0.06		<5
test	STD P		8361	16	121	104	98	28	1.5	65		29	
93N03	4800N	10500EF	8361	1	22	140	6	88	0.3	6	0.05	11	<5
93N03	5000N	9700EF	8361	1	18	75	6	205	<0.2	<2	0.04	<2	<5
93N03	5000N	9740EF	8361	<1	17	83	5	680	0.2	4	0.03	2	<5
93N03	5000N	9760EF	8361	1	15	96	6	470	0.2	<2	0.02	<2	15
93N03	5000N	9780EF	8361	<1	18	78	5	730	0.2	6	0.04	<2	<5
93N03	5000N	9800EF	8361	1	12	38	3	106	<0.2	3	0.03	<2	<5
93N03	5000N	9820EF	8361	1	19	94	6	90	<0.2	4	0.03	2	5
93N03	5000N	9840EF	8361	1	16	100	6	55	<0.2	<2	0.03	2	<5
93N03	5000N	9860EF	8361	<1	11	37	4	47	<0.2	3	0.04	2	<5
93N03	5000N	9860EF*	8361	<1	11	35	3	45	<0.2	<2	0.03	<2	<5
93N03	5000N	9880EF	8361	<1	15	157	8	52	<0.2	<2	0.02	<2	<5
93N03	5000N	9900EF	8361	<1	15	169	6	60	0.2	<2	0.02	<2	<5

PLACER GEOCHEM ASSAY SYSTEM: DATA FROM BC GEN EXPL LO

DATE:

GRID	SAMPLE	PROJECT	MU	CU	ZN	PB	NI	AG	AS	BA	SB	AUI	
93N03	5000N	9920EF	8361	<1	23	141	6	105	<0.2	4	0.03	<2	<5
93N03	5000N	9940EF	8361	<1	16	104	5	64	0.3	2	0.02	<2	<5
93N03	5000N	9960EF	8361	<1	14	51	5	92	0.3	<2	0.03	<2	20
93N03	5000N	9980EF	8361	<1	12	58	4	55	<0.2	2	0.02	<2	<5
93N03	5000N	10020EF	8361	<1	13	48	5	70	<0.2	8	0.03	<2	<5
93N03	5000N	10040EF	8361	<1	21	106	8	174	0.3	17	NSS	<2	<5
93N03	5000N	10060EF	8361	<1	13	140	6	570	<0.2	22	0.04	<2	<5
test	STD P		8361	15	121	103	99	27	1.5	79		33	
93N03	5000N	10080EF	8361	<1	18	112	14	160	<0.2	10	0.04	<2	<5
93N03	5000N	10100EF	8361	<1	36	176	9	310	0.2	7	0.04	<2	<5
93N03	5000N	10120EF	8361	<1	18	91	6	162	0.2	4	0.03	<2	<5
93N03	5000N	10140EF	8361	<1	21	134	6	110	0.3	11	0.03	<2	<5
93N03	5000N	10380EF	8361	<1	25	53	4	34	0.2	<2	NSS	16	<5
93N03	5000N	10400EF	8361	<1	24	69	6	72	<0.2	3	0.04	<2	<5
93N03	5000N	10420EF	8361	<1	29	91	5	82	<0.2	4	0.02	<2	<5
93N03	5000N	10440EF	8361	<1	23	60	4	60	<0.2	3	0.03	<2	<5
93N03	5000N	10460EF	8361	<1	13	68	5	40	0.2	4	0.03	<2	<5
93N03	5000N	10460EF*	8361	<1	12	70	6	40	<0.2	3	0.04	<2	<5
93N03	5000N	10480EF	8361	<1	22	81	8	88	<0.2	2	0.05	<2	<5
93N03	5000N	10500EF	8361	1	52	92	8	85	<0.3	<2	0.05	11	<5
93N03	4800N	9400EC	8361	6	10	71	12	50	<0.2	6	0.04	<2	<5
93N03	4800N	9420EC	8361	4	16	58	16	55	<0.2	4	0.04	<2	<5
93N03	4800N	9440EC	8361	6	11	130	9	50	<0.2	<2	0.04	<2	<5
93N03	4800N	9460EC	8361	4	10	135	10	41	<0.2	5	0.03	<2	<5
93N03	4800N	9480EC	8361	5	9	24	8	40	<0.2	<2	0.04	<2	<5
93N03	4800N	9560EC	8361	4	12	40	7	53	<0.2	<2	0.04	<2	<5
93N03	4800N	9560EC*	8361	4	11	40	7	51	<0.2	2	0.04	<2	<5
93N03	4800N	9580EC	8361	6	18	62	9	53	<0.3	<2	0.04	<2	<5
93N03	4800N	9600EC	8361	5	10	46	7	41	<0.2	<2	0.04	<2	<5
93N03	4800N	9620EC	8361	4	15	61	8	72	<0.2	2	0.05	<2	<5
93N03	4800N	9660EC	8361	4	11	67	9	84	<0.2	5	0.04	<2	<5
93N03	4800N	9700EC	8361	2	6	35	5	106	<0.2	<2	0.03	<2	<5
93N03	4800N	9720EC	8361	2	11	37	6	105	<0.2	<2	0.04	<2	<5
93N03	4800N	9740EC	8361	3	13	54	10	530	<0.2	4	0.03	<2	<5
93N03	4800N	9760EC	8361	5	10	40	7	66	<0.2	<2	0.04	<2	<5
93N03	4800N	9800EC	8361	3	9	48	7	53	<0.2	<2	0.04	<2	<5
93N03	4800N	9800EC*	8361	3	9	50	7	58	<0.2	<2	0.03	<2	<5
93N03	4800N	9820EC	8361	3	13	73	7	64	<0.2	<2	0.04	<2	<5
93N03	4800N	9840EC	8361	3	17	94	9	190	<0.2	<2	0.05	<2	<5
93N03	4800N	9860EC	8361	2	7	98	6	100	<0.2	<2	0.04	<2	<5
93N03	4800N	9880EC	8361	6	6	65	6	55	<0.2	4	0.04	<2	<5
93N03	4800N	9900EC	8361	4	12	43	9	106	<0.2	<2	0.04	<2	<5
93N03	4800N	9920EC	8361	4	5	66	9	46	<0.2	<2	0.03	<2	<5
93N03	4800N	9940EC	8361	5	9	42	7	50	<0.2	<2	0.05	<2	<5
93N03	4800N	10040EC	8361	5	6	72	7	37	<0.2	3	0.04	<2	<5
test	STD P		8361	17	130	95	104	26	1.3	73		31	
93N03	4800N	10060EC	8361	4	14	56	10	73	0.3	2	0.05	<2	<5
93N03	4800N	10100EC	8361	5	10	70	6	54	<0.2	<2	0.04	<2	<5
93N03	4800N	10120EC	8361	4	9	51	6	85	<0.2	11	0.03	<2	<5
93N03	4800N	10140EC	8361	4	11	51	6	154	<0.2	3	0.03	<2	<5
93N03	4800N	10160EC	8361	5	12	55	8	300	<0.2	14	0.04	<2	<5
93N03	4800N	10180EC	8361	3	9	51	7	156	0.2	22	0.05	<2	<5
93N03	4800N	10200EC	8361	2	14	68	8	1100	<0.2	29	0.03	<2	20
93N03	4800N	10220EC	8361	5	15	67	8	360	<0.2	33	0.04	<2	20
93N03	4800N	10240EC	8361	2	13	82	8	700	<0.2	50	0.05	<2	<5
test	STD P		8361	18	126	100	100	27	1.3	67		29	
93N03	4800N	10260EC	8361	2	15	76	7	177	<0.2	21	0.05	<2	<5
93N03	4800N	10280EC	8361	3	15	76	7	260	<0.2	45	0.04	<2	<5
93N03	4800N	10300EC	8361	4	27	153	8	300	<0.2	23	0.04	<2	<5
93N03	4800N	10320EC	8361	5	24	62	7	136	<0.2	16	0.04	9	<5

PLACER GEOCHEM ASSAY SYSTEM: DATA FROM BC GEN EXPL LO

DATE: 8

GRID	SAMPLE	PROJECT	MO	CU	ZN	PB	NI	AG	AS	BA	SB	AU1	
93N03	4800N	10340EC	8361	4	15	48	6	66	<0.2	6	0.03	<2	<5
93N03	4800N	10380EC	8361	3	110	78	17	150	<0.2	56	0.12	35	<5
93N03	4800N	10400EC	8361	2	16	44	6	52	<0.2	13	0.04	28	<5
93N03	4800N	10420EC	8361	4	16	61	8	73	<0.2	11	0.03	<2	<5
93N03	4800N	10440EC	8361	4	32	70	8	56	<0.2	23	0.05	22	<5
test	STD P	8361	8361	16	130	94	100	27	1.7	68		29	
93N03	4800N	10460EC	8361	5	20	58	7	142	<0.2	12	0.05	2	<5
93N03	4800N	10480EC	8361	3	18	90	6	82	<0.2	3	0.04	3	<5
93N03	4800N	10500EC	8361	4	16	90	6	80	<0.2	7	0.04	2	<5
93N03	5000N	9700EC	8361	5	18	60	7	300	<0.2	4	0.02	<2	<5
93N03	5000N	9740EC	8361	4	11	47	6	640	<0.2	<2	0.03	<2	10
93N03	5000N	9760EC	8361	5	10	48	6	320	<0.2	<2	0.03	<2	<5
93N03	5000N	9780EC	8361	5	11	40	5	430	<0.2	<2	0.04	<2	<5
93N03	5000N	9800EC	8361	4	9	20	5	70	<0.2	2	0.04	<2	<5
93N03	5000N	9820EC	8361	4	9	32	4	53	<0.2	2	0.03	<2	<5
test	STD P	8361	8361	17	130	98	102	28	1.5	69		30	
93N03	5000N	9840EC	8361	4	10	52	6	52	<0.2	2	0.03	<2	<5
93N03	5000N	9860EC	8361	4	10	28	4	53	<0.2	<2	0.03	<2	<5
93N03	5000N	9880EC	8361	5	9	70	7	40	<0.2	<2	0.03	<2	<5
93N03	5000N	9900EC	8361	6	10	88	7	53	<0.2	<2	0.02	<2	<5
93N03	5000N	9920EC	8361	5	11	50	6	65	<0.2	<2	0.03	<2	<5
93N03	5000N	9940EC	8361	9	15	50	7	94	<0.2	6	0.03	3	<5
93N03	5000N	9960EC	8361	7	14	40	6	93	<0.2	<2	0.03	<2	<5
93N03	5000N	9980EC	8361	5	10	36	4	52	<0.2	2	0.03	<2	<5
93N03	5000N	10020EC	8361	5	12	32	5	82	<0.2	3	0.03	<2	<5
93N03	5000N	10020EC*	8361	5	12	33	5	84	<0.2	5	0.04	<2	<5
93N03	5000N	10040EC	8361	4	20	75	9	193	<0.2	9	0.05	<2	5
93N03	5000N	10060EC	8361	4	13	110	7	610	<0.2	27	0.04	<2	<5
93N03	5000N	10080EC	8361	4	16	80	8	162	<0.2	10	0.05	<2	<5
93N03	5000N	10100EC	8361	4	24	112	9	166	<0.2	4	0.04	<2	<5
93N03	5000N	10120EC	8361	5	17	65	7	193	<0.2	6	0.04	<2	<5
93N03	5000N	10140EC	8361	5	16	73	7	98	<0.2	4	0.06	<2	<5
93N03	5000N	10380EC	8361	6	30	45	6	43	<0.2	<2	0.05	9	<5
93N03	5000N	10400EC	8361	5	26	48	9	77	<0.2	8	0.04	<2	<5
93N03	5000N	10420EC	8361	6	24	60	8	82	<0.2	3	0.05	<2	<5
93N03	5000N	10420EC*	8361	5	24	60	8	81	<0.2	4	0.05	<2	<5
93N03	5000N	10440EC	8361	<1	20	45	7	65	<0.2	3	0.04	<2	<5
93N03	5000N	10460EC	8361	3	18	37	6	61	<0.2	3	0.05	<2	<5
93N03	5000N	10480EC	8361	5	12	53	6	50	<0.2	4	0.05	<2	<5
93N03	5000N	10500EC	8361	4	20	60	8	80	0.2	<2	0.05	10	<5
93N03	5000N	10500EC*	8361	4	32	76	7	77	0.2	<2	0.05	8	<5
test	STD AU	8361	8361										445
test	STD AU	8361	8361										365
test	STD AU	8361	8361										415
test	STD AU	8361	8361										450
test	STD BA	8361	8361							0.60			
test	STD BA	8361	8361							0.58			
test	STD BA	8361	8361							0.56			
test	STD BA	8361	8361							0.60			
test	STD BA	8361	8361							0.55			
test	STD BA	8361	8361							0.60			
test	STD BA	8361	8361							0.56			
test	STD BA	8361	8361							0.56			
test	STD BA	8361	8361							0.58			
test	STD BA	8361	8361							0.56			



Following elements needed some values adjusted:

ELEMENT	NSS	LOW	HI	%	BLNK	NVAL
MO	0	56	0	0	0	144
AG	0	112	0	0	0	144
AS	0	36	0	0	0	144
BA	2	0	0	0	0	142
SB	0	124	0	0	0	144
AU1	0	135	0	0	0	144

31 records skipped: tests, duplicate analyses

SUMMARY OF GEOCHEM DATA: BC GEN EXPL LO

ITEM	# VALUES	MISSING	MINIMUM	MAXIMUM	AVERAGE	STD. DEV.
GRID	144	0	93N03	93N03		
SAMP	144	0	4800N	5000N		
PROJ	144	0	8361	8361		
AG	144	0	0.10	0.40	0.13	0.07
AS	144	0	1.00	63.00	8.72	11.60
AU1	144	0	2.50	20.00	3.07	2.78
BA	142	2	0.02	0.14	0.04	0.01
CU	144	0	5.00	115.00	16.95	13.26
MO	144	0	0.50	9.00	2.42	2.05
NI	144	0	32.00	1100.00	155.83	182.86
PB	144	0	3.00	17.00	6.94	2.17
SB	144	0	1.00	35.00	2.17	4.56
ZN	144	0	20.00	185.00	76.79	35.27

END OF GCHSCAN: DATE: 88:12:07 time: 16:27:14 144 RECORDS PROCESSED

GEOCHEMICAL DATA LISTING: BC GEN EXPL LO

DATE: 88:12:09

PDL lab data file: P8362  
AREA: LO  
MAPSHEET NO: 93N03  
VENTURE: BC GEN EXPL  
GEOLOGIST: G SHEVCHENKO  
LAB PROJECT NO: 8362

PLEASE DISTRIBUTE RESULTS TO: G SHEVCHENKU  
B. HODGSON M. GAREAU E. KIMURA L. REINERTSON

REMARKS:  
"AUI RESULTS REPORTED IN PPB; SAMPLES FROM THE C HORIZON"  
"SIFT SAMPLE TO COARSE (-10 +80) AND FINE (-80) MESH FRACTION"  
"ANALYZE BOTH FRACTIONS"

GRID	SAMPLE	PROJECT	MO	CU	ZN	PB	NI	AG	AS	BA	SB	AU1	
93N03	4800N	9540EF	8362	<1	19	77	4	41	<0.2	18	0.03	<2	<5
93N03	4800N	9600EF	8362	<1	10	40	3	40	<0.2	11	0.05	<2	<5
93N03	4800N	9620EF	8362	<1	14	44	4	73	<0.2	11	0.05	<2	<5
93N03	4800N	9640EF	8362	<1	22	46	5	63	<0.2	10	0.04	<2	<5
93N03	4800N	9660EF	8362	<1	17	77	5	120	<0.2	12	0.04	<2	<5
93N03	4800N	9680EF	8362	1	30	40	7	134	<0.2	8	0.05	<2	<5
93N03	4800N	9700EF	8362	1	10	38	2	110	<0.2	<2	0.03	<2	10
93N03	4800N	9720EF	8362	<1	10	37	2	143	<0.2	<2	0.04	<2	<5
93N03	4800N	9740EF	8362	1	11	62	5	162	<0.2	3	0.05	<2	<5
93N03	4800N	9740EF*	8362	1	11	60	6	160	<0.2	5	0.05	<2	<5
93N03	4800N	9760EF	8362	1	13	33	4	70	<0.2	8	0.04	<2	15
93N03	4800N	9780EF	8362	1	15	78	5	300	<0.2	5	0.04	<2	<5
93N03	4800N	9800EF	8362	1	14	45	4	80	<0.2	3	0.04	<2	<5
93N03	4800N	9820EF	8362	1	23	80	5	132	<0.2	8	0.04	<2	<5
93N03	4800N	9840EF	8362	1	13	64	4	64	<0.2	6	0.04	<2	<5
93N03	4800N	9860EF	8362	<1	14	106	4	118	<0.2	7	0.04	<2	10
93N03	4800N	9880EF	8362	1	13	54	3	80	<0.2	5	0.04	<2	<5
93N03	4800N	9900EF	8362	1	18	51	4	141	<0.2	2	0.03	<2	<5
93N03	4800N	9920EF	8362	1	12	58	7	143	<0.2	5	0.03	<2	<5
test	STD P		8362	15	130	91	100	28	1.4	81		29	
93N03	4800N	9940EF	8362	1	13	80	6	80	<0.2	<2	0.02	<2	<5
93N03	4800N	9960EF	8362	1	12	36	4	77	<0.2	4	0.03	<2	10
93N03	4800N	10020EF	8362	1	35	44	6	82	<0.2	6	0.04	<2	<5
93N03	4800N	10040EF	8362	1	13	71	6	82	<0.2	5	0.04	<2	<5
93N03	4800N	10060EF	8362	1	11	37	5	45	<0.2	6	0.04	<2	<5
93N03	4800N	10100EF	8362	1	13	40	4	51	<0.2	<2	0.04	<2	<5
93N03	4800N	10140EF	8362	1	19	54	4	270	<0.2	25	0.06	<2	<5
93N03	4800N	10160EF	8362	1	15	50	4	320	<0.2	23	0.04	<2	20
93N03	4800N	10180EF	8362	1	11	37	4	147	<0.2	11	0.03	<2	<5
93N03	4800N	10180EF*	8362	1	11	35	3	142	<0.2	13	0.05	<2	<5
93N03	4800N	10200EF	8362	<1	15	45	4	1750	<0.2	16	<0.02	<2	<5
93N03	4800N	10220EF	8362	<1	21	58	6	1200	<0.2	24	0.04	<2	<5
93N03	4800N	10240EF	8362	<1	14	48	6	1630	<0.2	52	<0.02	<2	75
93N03	4800N	10260EF	8362	1	14	41	5	165	<0.2	13	0.03	<2	20
93N03	4800N	10280EF	8362	1	17	54	6	320	<0.2	53	0.04	<2	<5
93N03	4800N	10300EF	8362	1	27	102	6	270	<0.2	20	0.03	<2	15
93N03	4800N	10320EF	8362	1	31	69	7	168	<0.2	14	0.04	<2	10
93N03	4800N	10340EF	8362	1	19	53	7	116	<0.2	13	0.02	<2	<5
93N03	4800N	10380EF	8362	1	14	58	5	62	<0.2	9	0.02	<2	<5
test	STD P		8362	15	126	90	105	27	1.6	70		28	
93N03	4800N	10400EF	8362	<1	20	52	5	83	<0.2	9	0.04	12	<5
93N03	4800N	10420EF	8362	1	65	63	12	91	<0.2	44	0.03	2	<5
93N03	4800N	10440EF	8362	1	34	67	5	60	<0.2	33	0.06	14	<5
93N03	4800N	10460EF	8362	<1	20	57	5	123	<0.2	11	0.06	6	10
93N03	4800N	10480EF	8362	<1	20	62	5	108	<0.2	8	0.06	4	<5
93N03	4800N	10500EF	8362	<1	18	63	4	94	<0.2	9	0.06	5	<5
93N03	5000N	9700EF	8362	<1	10	33	4	134	<0.2	<2	0.04	2	<5
93N03	5000N	9740EF	8362	1	9	31	3	350	<0.2	<2	0.03	<2	<5
93N03	5000N	9760EF	8362	<1	12	58	4	300	<0.2	8	0.04	5	<5
test	STD P		8362	16	130	94	106	28	1.6	79		29	
93N03	5000N	9780EF	8362	1	18	55	6	640	<0.2	7	0.05	<2	<5
93N03	5000N	9800EF	8362	<1	8	20	3	50	<0.2	3	0.04	<2	<5
93N03	5000N	9820EF	8362	<1	12	37	4	70	<0.2	5	0.04	<2	<5
93N03	5000N	9840EF	8362	1	30	78	7	91	<0.2	9	0.03	<2	<5
93N03	5000N	9860EF	8362	1	13	23	3	37	<0.2	<2	0.04	<2	<5
93N03	5000N	9880EF	8362	<1	13	50	5	58	<0.2	4	0.03	<2	<5
93N03	5000N	9900EF	8362	1	27	94	4	90	<0.2	5	0.04	<2	<5
93N03	5000N	9920EF	8362	1	25	87	6	87	<0.2	6	0.05	<2	<5
93N03	5000N	9940EF	8362	1	23	60	6	66	<0.2	4	0.05	2	<5
93N03	5000N	9940EF*	8362	1	21	58	5	64	<0.2	3	0.05	<2	<5



GRID	SAMPLE	PROJECT	MO	CU	ZN	PB	NI	AG	AS	BA	SB	AUI
test	STD P	8362	15	127	90	100	28	1.6	80		33	
93N03	4800N 10380EC	8362	5	12	46	5	53	<0.2	8	0.03	7	<5
93N03	4800N 10400EC	8362	4	17	43	5	78	<0.2	7	0.04	14	<5
93N03	4800N 10420EC	8362	3	72	63	12	61	<0.2	32	0.03	23	<5
93N03	4800N 10440EC	8362	4	37	57	7	50	<0.2	39	0.05	30	<5
93N03	4800N 10460EC	8362	4	17	44	5	105	<0.2	11	0.04	<2	<5
93N03	4800N 10480EC	8362	4	18	52	5	88	<0.2	3	0.06	<2	15
93N03	4800N 10500EC	8362	5	16	50	6	76	<0.2	4	0.06	<2	<5
93N03	5000N 9700EC	8362	6	10	32	7	150	<0.2	3	0.05	<2	<5
93N03	5000N 9740EC	8362	5	9	27	5	420	<0.2	<2	0.04	<2	<5
test	STD P	8362	15	130	97	110	28	1.5	68		30	
93N03	5000N 9760EC	8362	4	9	30	8	210	<0.2	<2	0.05	<2	<5
93N03	5000N 9780EC	8362	6	10	34	5	390	<0.2	<2	0.04	<2	5
93N03	5000N 9800EC	8362	5	8	20	4	53	<0.2	<2	0.03	<2	<5
93N03	5000N 9820EC	8362	5	8	20	4	43	<0.2	<2	0.04	<2	10
93N03	5000N 9840EC	8362	5	13	38	4	51	<0.2	4	0.04	<2	<5
93N03	5000N 9860EC	8362	6	13	23	5	40	<0.2	6	0.06	<2	<5
93N03	5000N 9880EC	8362	6	8	24	4	36	<0.2	<2	0.04	<2	<5
93N03	5000N 9900EC	8362	4	15	51	5	60	<0.2	<2	0.04	<2	<5
93N03	5000N 9920EC	8362	4	10	33	5	50	<0.2	<2	0.03	<2	<5
test	STD P	8362	14	130	100	110	27	1.4	78		31	
93N03	5000N 9940EC	8362	6	11	26	5	46	<0.2	2	0.05	<2	<5
93N03	5000N 9980EC	8362	5	13	43	5	43	<0.2	<2	0.05	<2	5
93N03	5000N 10020EC	8362	5	30	64	9	113	<0.2	8	0.06	<2	<5
93N03	5000N 10040EC	8362	3	23	68	8	144	<0.2	12	0.05	<2	<5
93N03	5000N 10060EC	8362	2	31	77	7	680	<0.2	47	0.07	<2	15
93N03	5000N 10080EC	8362	2	26	58	7	1200	<0.2	550	0.05	8	15
93N03	5000N 10100EC	8362	3	20	50	5	104	<0.2	7	0.04	<2	5
93N03	5000N 10120EC	8362	2	18	42	7	176	<0.2	12	0.05	<2	50
93N03	5000N 10140EC	8362	2	17	50	8	134	<0.2	35	0.05	<2	5
93N03	5000N 10140EC*	8362	2	18	50	6	134	<0.2	33	0.05	<2	<5
93N03	5000N 10160EC	8362	4	15	52	6	98	<0.2	7	0.03	<2	10
93N03	5000N 10180EC	8362	7	24	63	8	95	0.3	5	0.03	<2	5
93N03	5000N 10200EC	8362	3	75	103	12	240	0.5	15	0.07	<2	5
93N03	5000N 10220EC	8362	5	20	47	7	80	<0.2	3	0.04	<2	10
93N03	5000N 10240EC	8362	5	25	70	8	118	0.2	6	0.04	<2	5
93N03	5000N 10380EC	8362	3	17	35	7	80	<0.2	5	0.04	<2	<5
93N03	5000N 10400EC	8362	3	33	42	9	70	<0.2	12	0.04	<2	<5
93N03	5000N 10420EC	8362	3	41	41	9	62	<0.2	9	0.06	<2	<5
93N03	5000N 10440EC	8362	4	17	33	6	71	<0.2	7	0.05	<2	<5
93N03	5000N 10440EC*	8362	4	17	32	6	73	<0.2	4	0.04	<2	<5
93N03	5000N 10460EC	8362	2	25	37	6	83	<0.2	22	0.07	<2	<5
93N03	5000N 10480EC	8362	3	25	44	6	79	0.2	8	0.05	<2	<5
93N03	5000N 10500EC	8362	4	15	48	6	57	<0.2	<2	0.05	<2	<5
test	STD P	8362	13	120	88	100	25	1.8	61		31	
test	STD AU	8362										480
test	STD AU	8362										390
test	STD AU	8362										435
test	STD AU	8362										380
test	STD AU	8362										435
test	STD BA	8362							0.55			
test	STD BA	8362							0.60			
test	STD BA	8362							0.60			
test	STD BA	8362							0.56			
test	STD BA	8362							0.50			
test	STD BA	8362							0.50			

Following elements needed some values adjusted:

ELEMENT	NSS	LOW	HI	%	BLNK	NVAL
MO	0	19	0	0	0	148
AG	0	130	0	0	0	148
AS	0	28	0	0	0	148
BA	1	4	0	0	0	147
SB	0	119	0	0	0	148
AU1	0	110	0	0	0	148

28 records skipped: tests, duplicate analyses

SUMMARY OF GEOCHEM DATA: BC GEN EXPL LO

ITEM	# VALUES	MISSING	MINIMUM	MAXIMUM	AVERAGE	STD. DEV.
GRID	148	0	93N03	93N03		
SAMP	148	0	4800N	5000N		
PROJ	148	0	8362	8362		
AG	148	0	0.10	0.50	0.12	0.06
AS	148	0	1.00	1020.00	20.54	94.62
AU1	148	0	2.50	75.00	5.27	8.17
BA	147	1	0.01	0.08	0.04	0.01
CU	148	0	7.00	80.00	18.58	11.65
MU	148	0	0.50	10.00	2.65	2.10
NI	148	0	33.00	1850.00	200.88	345.16
PB	148	0	2.00	12.00	5.44	1.68
SB	148	0	1.00	30.00	2.16	3.98
ZN	148	0	20.00	106.00	50.66	18.20

END OF GCHSCAN: DATE: 88:12:09 time: 16:11:55 148 RECORDS PROCESSED

PLACER DOME INC (VANCOUVER LABORATORY)  
 GEOCHEMICAL DATA LISTING: BC GEN EXPL LO

DATE: 88:12:07

PDL lab data file: P8375  
 AREA: LO  
 MAP SHEET NO: 93N03  
 VENTURE: BC GEN EXPL  
 GEOLOGIST: G SHEVCHENKO  
 LAB PROJECT NO: 8375

PLEASE DISTRIBUTE RESULTS TO: G SHEVCHENKO  
 B. HODGSON M. GAREAU E. KIMURA L. REINERTSON

REMARKS:  
 "A HORIZON SAMPLES; ANALYSES FROM ACTIVATION LABORATORIES"

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
MO	PPM	0.5	HClO4/HNO3	4HRS	1-1000	ATOMIC ABSORPTION
CU	PPM	0.5	HClO4/HNO3	4HRS	2-4000	ATOMIC ABSORPTION
ZN	PPM	0.5	HClO4/HNO3	4HRS	2-3000	ATOMIC ABSORPTION
PB	PPM	0.5	HClO4/HNO3	4HRS	2-3000	A.A. BACKGROUND COR.
CD	PPM	0.5	HClO4/HNO3	4HRS	0.2-200	A.A. BACKGROUND COR.
NI	PPM	0.5	HClO4/HNO3	4HRS	2-2000	ATOMIC ABSORPTION
CO	PPM	0.5	HClO4/HNO3	4HRS	2-2000	ATOMIC ABSORPTION
AG	PPM	0.5	HClO4/HNO3	4HRS	0.2-20	A.A. BACKGROUND COR.
AU	PPM	10.0	AQUA REGIA	3HRS	0.01-4.00	A.A. SOLVENT EXTRACT.
AU1	PPB	10.0	AQUA REGIA	3HRS	5-4000	A.A. SOLVENT EXTRACT.
U	PPM	0.25	DIL HNO3	2HRS	1.0-1000	FLOURIMETRY SOLV. EX.
V	PPM	0.5	HF/HClO4/HNO3/HCL	6HRS	5-1000	ATOMIC ABSORPTION
W	PPM	0.5	HClO4/H3PO4	2HRS	2-1000	DC PLASMA
F	PPM	0.25	NA2CO3/KNO3 FUSION	30MIN	40-4000	SPECIFIC ION ELECTRODE
AS	PPM	0.5	AQUA REGIA	3HRS	2-2000	DC PLASMA
SB	PPM	0.5	HCL/HNO3	3HRS	2-2000	DC PLASMA
BI	PPM	0.5	HClO4/HNO3	4HRS	2-2000	A.A. BACKGROUND COR.
MN	PPM	0.5	HClO4/HNO3	4HRS	2-2000	ATOMIC ABSORPTION
FE	%	0.5	HF/HClO4/HNO3/HCL	6HRS	0.02-20%	DC PLASMA
HG	PPB	0.25	DIL HNO3/HCL	2HRS	5-2000PPB	A.A. COLD VAPOR GEN.
RA	%	0.25	HF/HI/OXALIC	4HRS	0.02-20%	ATOMIC ABSORPTION
NA	%	0.5	HF/HClO4/HNO3/HCL	6HRS	0.2-20%	DC PLASMA
K	%	0.5	HF/HClO4/HNO3/HCL	6HRS	0.2-20%	DC PLASMA
CA	%	0.5	HF/HClO4/HNO3/HCL	6HRS	0.02-20%	DC PLASMA
SR	PPM	0.5	HF/HClO4/HNO3/HCL	6HRS	10-2000	DC PLASMA
MG	%	0.5	HF/HClO4/HNO3/HCL	6HRS	0.2-20%	DC PLASMA
SN	PPM	1.0	NH4I FUSION	15MIN	5-500	A.A. SOLVENT EXTRACT.
PT	PPR	25.0	FIRE ASSAY	45MIN	DL 10PPB	DC PLASMA
PD	PPB	25.0	FIRE ASSAY	45MIN	DL 5PPB	DC PLASMA
LUI	%	1.0	ASH 600 DEG C	2HRS	0.02-94%	WEIGH RESIDUE





PLACER GEUCHEM ASSAY SYSTEM: DATA FROM BC GEN EXPL LO

DATE: 88:12:07

PAGE: 2

GRID	SAMPLE	PROJECT	MO	ZN	CO	AG	AU	U	W	AS	FE	BA	CR	SB	TA	SE	T-1	BR
93N03	5000N	10160E	8375	<0.5	28	3	<2	<1	<0.1	<1	0.27	210	20	0.2	<0.5	<2	<0.5	2
93N03	5000N	10180E	8375	0.5	34	3	<2	<1	0.8	<1	0.41	160	17	0.7	<0.5	<2	0.5	8
93N03	5000N	10200E	8375	1.0	<20	<1	<2	<1	<0.1	<1	<0.05	<100	2	<0.1	<0.5	<2	<0.5	6
93N03	5000N	10220E	8375	0.8	<20	2	<2	<1	0.3	<1	0.36	110	25	0.2	<0.5	<2	0.5	2
93N03	5000N	10240E	8375	3.4	<20	4	<2	<1	2.2	<1	0.74	180	40	0.3	<0.5	<2	0.9	6
93N03	5000N	10260E	8375	0.8	32	<1	<2	<1	0.3	<1	0.38	<100	9	0.3	<0.5	<2	<0.5	9
93N03	5000N	10280E	8375	1.3	32	2	<2	<1	0.4	<1	0.37	<100	6	1.5	<0.5	<2	<0.5	7
93N03	5000N	10300E	8375	<0.5	27	1	<2	<1	<0.1	<1	0.44	<100	3	1.6	<0.5	<2	<0.5	8
93N03	5000N	10320E	8375	0.7	31	1	<2	<1	0.1	<1	0.47	130	6	1.1	<0.5	<2	<0.5	11
93N03	5000N	10320E*	8375															
93N03	5000N	10340E	8375	0.7	<20	<1	<2	<1	<0.1	<1	0.18	110	4	4.8	<0.5	<2	<0.5	9
93N03	5000N	10360E	8375	<0.5	25	<1	<2	<1	<0.1	<1	0.07	<100	4	13	<0.5	<2	<0.5	10
93N03	5000N	10380E	8375	0.7	25	<1	<2	<1	<0.1	<1	0.05	110	1	4.7	<0.5	<2	<0.5	8
93N03	5000N	10400E	8375	<0.5	<20	<1	<2	<1	<0.1	<1	0.13	<100	10	0.5	<0.5	<2	<0.5	2
93N03	5000N	10420E	8375	<0.5	<20	1	<2	1	<0.1	<1	0.13	240	11	0.3	<0.5	<2	<0.5	2
93N03	5000N	10440E	8375	<0.5	27	<1	<2	<1	<0.1	<1	<0.05	<100	2	<0.1	<0.5	<2	<0.5	4
93N03	5000N	10460E	8375	<0.5	<20	2	<2	<1	0.2	<1	0.40	170	45	0.8	<0.5	<2	0.5	<1
93N03	5000N	10480E	8375	<0.5	<20	<1	<2	<1	<0.1	<1	0.07	<100	8	0.1	<0.5	<2	<0.5	3
93N03	5000N	10500E	8375	<0.5	<20	<1	<2	<1	<0.1	<1	0.09	<100	6	1.2	<0.5	<2	<0.5	3
93N03	5000N	10500E*	8375															

END OF LISTING - 80 RECORDS PRINTED  
 GCLIST RUN AT: 16:27:14

PLACER GEOCHEM ASSAY SYSTEM: DATA FROM BC GEN EXPL LD

GRID	SAMPLE	PROJECT	SC	
) 93N03	4600N	10000E	8375	1.1
93N03	4600N	10020E	8375	0.1
93N03	4600N	10040E	8375	<0.1
93N03	4600N	10060E	8375	0.2
) 93N03	4600N	10080E	8375	0.1
93N03	4600N	10100E	8375	0.1
93N03	4600N	10120E	8375	0.1
93N03	4600N	10140E	8375	<0.0
) 93N03	4600N	10160E	8375	0.6
93N03	4600N	10160E*	8375	
93N03	4600N	10180E	8375	0.2
93N03	4600N	10200E	8375	0.2
) 93N03	4600N	10220E	8375	0.4
93N03	4600N	10240E	8375	0.7
93N03	4600N	10260E	8375	0.4
93N03	4600N	10280E	8375	0.1
) 93N03	4600N	10300E	8375	1.3
93N03	4600N	10320E	8375	6.0
93N03	4600N	10340E	8375	3.8
93N03	4600N	10340E*	8375	
) 93N03	4600N	10360E	8375	0.3
93N03	4600N	10380E	8375	0.4
93N03	4600N	10400E	8375	2.0
) 93N03	4600N	10420E	8375	2.1
93N03	4600N	10440E	8375	0.2
93N03	4600N	10460E	8375	0.5
93N03	4600N	10480E	8375	0.2
) 93N03	4600N	10500E	8375	0.4
93N03	4800N	9620E	8375	0.4
93N03	4800N	9620E*	8375	
93N03	4800N	9640E	8375	0.3
) 93N03	4800N	9660E	8375	0.2
93N03	4800N	9680E	8375	0.6
93N03	4800N	9700E	8375	0.1
93N03	4800N	9720E	8375	0.3
) 93N03	4800N	9740E	8375	1.0
93N03	4800N	9760E	8375	0.4
93N03	4800N	9780E	8375	2.3
93N03	4800N	9800E	8375	0.2
) 93N03	4800N	9800E*	8375	
93N03	4800N	9820E	8375	0.3
93N03	4800N	9840E	8375	0.3
93N03	4800N	9860E	8375	0.9
) 93N03	4800N	9880E	8375	0.5
93N03	4800N	9900E	8375	1.1
93N03	4800N	9920E	8375	0.4
93N03	4800N	9940E	8375	1.9
) 93N03	4800N	9960E	8375	0.5
93N03	4800N	9980E	8375	0.1
93N03	4800N	9980E*	8375	
93N03	4800N	10000E	8375	0.2
) 93N03	5000N	10000E	8375	0.5
93N03	5000N	10020E	8375	2.6
93N03	5000N	10040E	8375	3.7
) 93N03	5000N	10060E	8375	1.0
93N03	5000N	10080E	8375	0.8
93N03	5000N	10100E	8375	1.5
93N03	5000N	10120E	8375	1.0
) 93N03	5000N	10140E	8375	0.1
93N03	5000N	10140E*	8375	

## PLACER GEOCHEM ASSAY SYSTEM: DATA FROM BC GEN EXPL LO

DATE: 88:12:07

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GRID	SAMPLE	PROJECT	SC	
93N03	5000N	10160E	8375	1.3
93N03	5000N	10180E	8375	1.3
93N03	5000N	10200E	8375	0.2
93N03	5000N	10220E	8375	1.6
93N03	5000N	10240E	8375	3.0
93N03	5000N	10260E	8375	0.9
93N03	5000N	10280E	8375	0.3
93N03	5000N	10300E	8375	0.3
93N03	5000N	10320E	8375	0.4
93N03	5000N	10320E*	8375	
93N03	5000N	10340E	8375	0.4
93N03	5000N	10360E	8375	0.3
93N03	5000N	10380E	8375	0.2
93N03	5000N	10400E	8375	0.6
93N03	5000N	10420E	8375	0.7
93N03	5000N	10440E	8375	0.2
93N03	5000N	10460E	8375	2.0
93N03	5000N	10480E	8375	0.4
93N03	5000N	10500E	8375	0.4
93N03	5000N	10500E*	8375	

END OF LISTING - 80 RECORDS PRINTED  
GCLIST RUN AT: 16:27:14

PLACER DEVELOPMENT LIMITED: GEOCHEM ASSAY SYSTEM

Following elements needed some values adjusted:

ELEMENT	NSS	LOW	HI	X	BLNK	NVAL
MO	0	32	0	0	0	72
ZN	0	32	0	0	0	72
CO	0	43	0	0	0	72
AG	0	72	0	0	0	72
AU	0	57	0	0	0	72
U	0	50	0	0	0	72
W	0	72	0	0	0	72
AS	0	51	0	0	0	72
FE	0	17	0	0	0	72
BA	0	45	0	0	0	72
SB	0	28	0	0	0	72
TA	0	72	0	0	0	72
SE	0	72	0	0	0	72
TH	0	60	0	0	0	72

8 records skipped: tests, duplicate analyses

SUMMARY OF GEOCHEM DATA: BC GEN EXPL LD

ITEM	# VALUES	MISSING	MINIMUM	MAXIMUM	AVERAGE	STD. DEV.
GRID	72	0	93N03	93N03		
SAMP	72	0	4600N	5000N		
PROJ	72	0	8375	8375		
AG	72	0	1.00	1.00	1.00	0.00
AS	72	0	0.50	10.00	1.17	1.70
AU	72	0	0.50	8.00	0.83	1.01
BA	72	0	50.00	340.00	90.28	65.82
BR	72	0	0.00	0.00	0.00	0.00
CO	72	0	0.50	12.00	1.42	1.99
CR	72	0	1.00	170.00	20.19	31.63
FE	72	0	0.03	1.28	0.22	0.27
MO	72	0	0.25	3.40	0.57	0.46
SB	72	0	0.05	13.00	0.64	1.78
SC	72	0	0.00	0.00	0.00	0.00
SE	72	0	1.00	1.00	1.00	0.00
TA	72	0	0.25	0.25	0.25	0.00
TH	72	0	0.25	1.70	0.35	0.27
U	72	0	0.05	2.20	0.19	0.38
W	72	0	0.50	0.50	0.50	0.00
ZN	72	0	10.00	48.00	21.31	11.54

END OF GCHSCAN:

DATE: 88:12:07 time: 16:27:14

72 RECORDS PROCESSED

GEOCHEMICAL DATA LISTING: BC GEN EXPL LO

DATE: 88:12:0

PDL lab data file: P8373  
AREA: LO  
MAPSHEET NO: 93N03  
VENTURE: BC GEN EXPL  
GEOLOGIST: G SHEVCHENKO  
LAB PROJECT NO: 8373

PLEASE DISTRIBUTE RESULTS TO: G SHEVCHENKO  
B. HODGSON M. GAREAU E. KIMURA L. REINERTSON

REMARKS:  
"AUI RESULTS REPORTED IN PPB; B HORIZON SAMPLES"  
"SIFT SAMPLE TO COARSE (-10 +80 MESH) AND FINE (-80 MESH) FRACTIONS"  
"ANALYZE BOTH FRACTIONS"

PLACER GEOCHEM ASSAY SYSTEM: DATA FROM 3C GEN EXPL LO

DATE

GRID	SAMPLE	PROJECT	MO	CU	ZN	PB	NI	AG	AS	BA	SB	AU1	
93N03	4600N	10000EF	8373	2	20	132	9	140	<0.2	6	0.03	<2	<5
93N03	4600N	10020EF	8373	2	17	98	9	150	<0.2	8	0.04	<2	<5
93N03	4600N	10120EF	8373	1	34	58	10	150	0.3	13	0.07	<2	<5
93N03	4600N	10140EF	8373	2	25	42	7	94	0.4	20	0.06	<2	<5
93N03	4600N	10160EF	8373	2	25	105	10	175	<0.2	11	0.05	<2	<5
93N03	4600N	10180EF	8373	2	12	61	5	81	<0.2	4	0.04	<2	<5
93N03	4600N	10200EF	8373	1	11	55	5	116	<0.2	3	0.04	<2	<5
93N03	4600N	10220EF	8373	2	14	71	7	162	<0.2	20	0.05	<2	<5
93N03	4600N	10240EF	8373	2	16	117	7	185	<0.2	26	0.05	<2	10
test	STD P	8373	18	130	100	110	27	1.4	80		32		
93N03	4600N	10260EF	8373	2	10	44	6	80	<0.2	12	0.04	4	<5
93N03	4600N	10280EF	8373	1	8	65	5	48	<0.2	<2	0.03	<2	<5
93N03	4600N	10300EF	8373	1	26	152	7	178	<0.2	4	0.05	<2	<5
93N03	4600N	10320EF	8373	2	19	73	7	300	0.2	13	0.04	<2	<5
93N03	4600N	10340EF	8373	1	16	58	6	270	<0.2	12	0.04	<2	<5
93N03	4600N	10360EF	8373	1	10	60	5	126	<0.2	15	0.04	<2	<5
93N03	4600N	10380EF	8373	2	14	60	6	120	<0.2	11	0.04	<2	<5
93N03	4600N	10400EF	8373	1	24	88	8	202	<0.2	13	0.05	<2	<5
93N03	4600N	10420EF	8373	2	27	173	8	320	<0.2	16	0.03	<2	<5
93N03	4600N	10420EF*	8373	2	27	174	8	310	<0.2	16	0.03	<2	<5
93N03	4600N	10440EF	8373	1	13	73	8	168	<0.2	6	0.03	<2	<5
93N03	4600N	10500EF	8373	1	18	57	7	110	<0.2	10	0.04	<2	<5
93N03	5000N	10000EF	8373	1	16	70	6	77	<0.2	4	0.03	<2	<5
93N03	4600N	10000EC	8373	5	13	71	6	84	<0.2	<2	0.04	<2	<5
93N03	4600N	10020EC	8373	5	10	50	6	92	<0.2	4	0.03	<2	<5
93N03	4600N	10120EC	8373	5	31	55	9	154	0.4	11	0.07	<2	<5
93N03	4600N	10140EC	8373	6	20	34	7	74	0.3	14	0.06	<2	20
93N03	4600N	10160EC	8373	5	11	35	5	73	<0.2	3	0.05	<2	10
93N03	4600N	10180EC	8373	5	13	57	5	96	<0.2	4	0.05	<2	<5
test	STD P	8373	15	126	95	104	26	1.4	77		35		
93N03	4600N	10200EC	8373	4	13	56	6	120	0.2	8	0.04	<2	<5
93N03	4600N	10220EC	8373	4	16	74	7	160	<0.2	28	0.06	<2	<5
93N03	4600N	10240EC	8373	8	18	105	8	188	0.2	32	0.05	<2	<5
93N03	4600N	10260EC	8373	8	11	41	6	91	<0.2	22	0.04	3	<5
93N03	4600N	10280EC	8373	7	12	70	7	63	<0.2	<2	0.05	<2	<5
93N03	4600N	10300EC	8373	5	27	140	10	172	0.2	7	0.05	<2	<5
93N03	4600N	10320EC	8373	5	16	53	7	166	<0.2	15	0.06	<2	<5
93N03	4600N	10340EC	8373	6	14	46	7	162	<0.2	14	0.07	<2	<5
93N03	4600N	10360EC	8373	6	11	55	7	124	<0.2	16	0.05	<2	<5
93N03	4600N	10360EC*	8373	6	11	55	7	126	<0.2	17	0.04	<2	<5
93N03	4600N	10380EC	8373	4	15	50	6	133	<0.2	8	0.04	<2	<5
93N03	4600N	10400EC	8373	2	23	80	8	198	<0.2	13	0.05	<2	<5
93N03	4600N	10420EC	8373	2	21	130	8	190	<0.2	13	0.05	<2	<5
93N03	4600N	10440EC	8373	2	14	66	7	166	<0.2	4	0.06	<2	<5
93N03	4600N	10500EC	8373	3	20	53	8	104	<0.2	13	0.05	<2	<5
93N03	5000N	10000EC	8373	3	14	47	6	68	<0.2	3	0.04	<2	<5
test	STD P	8373	15	130	100	100	28	1.7	80		29		
test	STD AU	8373											395
test	STD AU	8373											425
test	STD BA	8373								0.63			
test	STD BA	8373								0.55			
test	STD BA	8373								0.55			

Following elements needed some values adjusted:

ELEMENT	NSS	LOW	HI	%	BLNK	NVAL
AG	0	34	0	0	0	42
AS	0	3	0	0	0	42
SB	0	40	0	0	0	42
AU1	0	39	0	0	0	42

10 records skipped: tests, duplicate analyses

SUMMARY OF GEOCHEM DATA: BC GEN EXPL LO

ITEM	# VALUES	MISSING	MINIMUM	MAXIMUM	AVERAGE	STD. DEV.
GRID	42	0	93N03	93N03		
SAMP	42	0	4600N	5000N		
PROJ	42	0	8373	8373		
AG	42	0	0.10	0.40	0.13	0.08
AS	42	0	1.00	32.00	11.00	7.40
AU1	42	0	2.50	20.00	3.27	3.10
BA	42	0	0.03	0.07	0.05	0.01
CU	42	0	8.00	34.00	17.10	6.18
MO	42	0	1.00	8.00	3.14	2.08
NI	42	0	48.00	320.00	141.19	60.87
PB	42	0	5.00	10.00	7.00	1.40
SB	42	0	1.00	4.00	1.12	0.55
ZN	42	0	34.00	173.00	73.33	32.85

END OF GCHSCAN: DATE: 88:12:07 time: 16:27:14 42 RECORDS PROCESSED

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: n

DATE: 88:12:09

PDL lab data file: P8374  
AREA: LO  
MAPSHEET NO: 93N03  
VENTURE: BC GEN EXPL  
GEOLOGIST: G SHEVCHENKO  
LAB PROJECT NU: 8374

PLEASE DISTRIBUTE RESULTS TO: G SHEVCHENKU  
B. HODGSON M. GAREAU E. KIMURA L. REINERTSON

REMARKS:  
"AUI RESULTS REPORTED IN PPB; C HORIZON SAMPLES"  
"SIFT SMPLE TO COARSE (010 +80 MESH) AND FINE (-80 MESH) FRACTIONS"  
"ANALYZE BOTH FRACTIONS"



PLACER GEOCHEM ASSAY SYSTEM: DATA FROM n

DATE: 88:12:09

PAGE: 1

GRID	SAMPLE	PROJECT	MO	CU	ZN	PB	NI	AG	AS	BA	SB	AU1	
93N03	4600N	10000EF	8374	1	23	62	7	114	<0.2	5	0.03	<2	<5
93N03	4600N	10020EF	8374	<1	20	84	8	178	<0.2	6	0.05	<2	<5
93N03	4600N	10040EF	8374	<1	23	82	8	350	0.4	2	0.04	<2	<5
93N03	4600N	10120EF	8374	<1	15	50	7	90	0.3	9	0.04	<2	<5
93N03	4600N	10140EF	8374	1	11	33	5	63	<0.2	19	0.05	<2	<5
93N03	4600N	10160EF	8374	<1	23	52	7	105	<0.2	12	0.05	<2	<5
93N03	4600N	10180EF	8374	1	15	33	6	87	<0.2	6	0.05	<2	<5
93N03	4600N	10200EF	8374	1	33	63	7	260	<0.2	24	0.11	<2	<5
93N03	4600N	10220EF	8374	1	26	68	6	620	<0.2	114	0.07	<2	<5
93N03	4600N	10220EF*	8374	1	24	68	6	610	<0.2	112	0.07	2	<5
93N03	4600N	10240EF	8374	1	13	58	6	127	<0.2	8	0.05	<2	<5
93N03	4600N	10260EF	8374	1	16	64	6	165	<0.2	18	0.04	<2	<5
93N03	4600N	10280EF	8374	<1	16	42	6	114	<0.2	7	0.06	<2	<5
93N03	4600N	10300EF	8374	<1	14	46	6	118	<0.2	8	0.05	<2	<5
93N03	4600N	10320EF	8374	<1	25	52	7	420	<0.2	15	0.06	<2	<5
93N03	4600N	10340EF	8374	<1	18	50	6	240	<0.2	14	0.05	<2	<5
93N03	4600N	10360EF	8374	<1	10	46	7	120	<0.2	6	0.04	<2	<5
93N03	4600N	10380EF	8374	<1	15	43	7	127	<0.2	9	0.03	<2	<5
93N03	4600N	10400EF	8374	<1	15	36	4	110	<0.2	10	0.04	<2	<5
93N03	4600N	10400EF*	8374	<1	15	36	5	110	<0.2	12	0.04	<2	<5
93N03	4600N	10420EF	8374	<1	20	58	5	166	<0.2	8	0.05	<2	<5
93N03	4600N	10440EF	8374	1	13	35	6	110	<0.2	4	0.05	<2	<5
93N03	4600N	10460EF	8374	1	31	56	6	66	<0.2	3	0.06	<2	<5
93N03	4600N	10480EF	8374	1	28	55	6	67	<0.2	5	0.07	<2	<5
93N03	4600N	10500EF	8374	1	40	53	7	260	<0.2	22	0.06	<2	<5
93N03	4800N	9400EF	8374	1	6	30	10	34	<0.2	4	<0.02	<2	<5
93N03	4800N	9440EF	8374	1	11	50	8	42	<0.2	2	<0.04	<2	<5
93N03	4800N	9480EF	8374	1	5	20	7	25	<0.2	<2	<0.02	<2	<5
93N03	4800N	9500EF	8374	1	15	33	5	33	<0.2	5	0.05	<2	<5
test	STD P	8374		13	126	88	100	25	1.3	78		28	
93N03	4800N	9520EF	8374	1	8	27	6	30	<0.2	2	0.02	<2	<5
93N03	4800N	9560EF	8374	2	10	33	5	33	<0.2	2	0.04	<2	<5
93N03	4800N	9580EF	8374	1	12	33	5	32	<0.2	<2	0.04	<2	<5
93N03	5000N	10000EF	8374	1	30	72	9	106	<0.2	<2	0.07	<2	<5
93N03	4600N	10000EC	8374	7	13	36	5	80	<0.2	2	0.05	<2	10
93N03	4600N	10020EC	8374	8	11	32	6	41	<0.2	3	0.06	<2	<5
93N03	4600N	10040EC	8374	6	11	35	5	133	<0.2	3	0.06	<2	<5
93N03	4600N	10120EC	8374	6	13	38	7	60	<0.2	2	0.07	<2	<5
93N03	4600N	10140EC	8374	7	11	27	5	60	<0.2	15	0.07	<2	<5
test	STD P	8374		14	120	88	100	26	1.3	71		29	
93N03	4600N	10160EC	8374	5	12	25	2	65	0.2	<2	0.05	<2	<5
93N03	4600N	10180EC	8374	5	20	36	2	120	<0.2	4	0.04	<2	<5
93N03	4600N	10200EC	8374	4	37	63	6	240	<0.2	32	0.11	<2	<5
93N03	4600N	10220EC	8374	5	28	63	4	500	<0.2	92	0.08	9	<5
93N03	4600N	10240EC	8374	4	14	48	4	124	0.2	11	0.04	<2	<5
93N03	4600N	10260EC	8374	6	16	54	4	170	0.2	24	0.05	7	<5
93N03	4600N	10280EC	8374	4	18	40	3	138	<0.2	6	0.03	<2	<5
93N03	4600N	10300EC	8374	5	17	50	4	148	<0.2	13	0.04	<2	<5
93N03	4600N	10320EC	8374	3	27	43	6	350	0.2	16	0.04	<2	<5
test	STD P	8374		16	125	88	106	26	1.3	71		33	
93N03	4600N	10340EC	8374	3	18	40	4	230	<0.2	13	0.05	<2	<5
93N03	4600N	10360EC	8374	6	12	44	3	148	<0.2	10	0.03	<2	<5
93N03	4600N	10380EC	8374	6	15	40	2	121	<0.2	6	0.03	<2	<5
93N03	4600N	10400EC	8374	6	18	42	5	136	<0.2	11	0.04	<2	<5
93N03	4600N	10420EC	8374	6	20	52	4	162	<0.2	9	0.04	<2	<5
93N03	4600N	10440EC	8374	5	14	40	4	124	<0.2	8	0.05	<2	<5
93N03	4600N	10460EC	8374	5	27	50	3	72	<0.2	2	0.04	<2	<5
93N03	4600N	10480EC	8374	2	33	68	7	93	<0.2	5	0.06	<2	<5
93N03	4600N	10500EC	8374	4	36	56	4	240	<0.2	17	0.06	<2	<5
test	STD P	8374		16	120	95	100	26	1.4	71		32	

PLACER GEOCHEM ASSAY SYSTEM: DATA FROM n

DATE: 88:12:09

PAGE: 2

GRID	SAMPLE	PROJECT	MD	CU	ZN	PB	NI	AG	AS	BA	SB	AU1	
93N03	4800N	9400EC	8374	3	4	17	6	24	<0.2	<2	<0.02	<2	5
93N03	4800N	9440EC	8374	4	10	35	6	40	<0.2	3	0.04	<2	10
93N03	4800N	9480EC	8374	4	4	18	5	27	<0.2	<2	<0.02	<2	<5
93N03	4800N	9500EC	8374	5	15	35	8	45	<0.2	2	0.04	<2	<5
93N03	4800N	9520EC	8374	4	7	23	5	33	<0.2	<2	<0.02	<2	5
93N03	4800N	9560EC	8374	8	14	33	5	44	<0.2	2	0.02	<2	<5
93N03	4800N	9580EC	8374	5	16	42	5	46	0.2	2	0.03	<2	<5
93N03	5000N	10000EC	8374	7	21	45	3	87	<0.2	<2	0.04	<2	<5
93N03	5000N	10000EC*	8374	8	21	45	3	81	<0.2	<2	0.03	<2	<5
test	STD AU		8374										405
test	STD AU		8374										450
test	STD BA		8374										
test	STD BA		8374							0.54			
test	STD BA		8374							0.55			
test	STD BA		8374							0.60			

END OF LISTING - 74 RECORDS PRINTED  
 GCLIST RUN AT: 16:11:55

PLACER DEVELOPMENT LIMITED: GEOCHEM ASSAY SYSTEM

Following elements needed some values adjusted:

ELEMENT	NSS	LOW	HI	%	BLNK	NVAL
MO	0	12	0	0	0	62
AG	0	55	0	0	0	62
AS	0	8	0	0	0	62
BA	0	5	0	0	0	62
SB	0	59	0	0	0	62
AU1	0	58	0	0	0	62

12 records skipped: tests, duplicate analyses

SUMMARY OF GEOCHEM DATA: n

ITEM	# VALUES	MISSING	MINIMUM	MAXIMUM	AVERAGE	STD. DEV.
GRID	62	0	93N03	93N03		
SAMP	62	0	4600N	5000N		
PROJ	62	0	8374	8374		
AG	62	0	0.10	0.40	0.12	0.05
AS	62	0	1.00	114.00	10.82	18.40
AU1	62	0	2.50	10.00	2.82	1.39
BA	62	0	0.01	0.11	0.05	0.02
CU	62	0	4.00	40.00	17.61	8.31
MU	62	0	0.50	8.00	2.97	2.39
NI	62	0	24.00	620.00	135.21	115.46
PB	62	0	2.00	10.00	5.53	1.68
SB	62	0	1.00	9.00	1.24	1.26
ZN	62	0	17.00	84.00	44.98	14.69

END OF GCHSCAN: DATE: 88:12:09 time: 16:11:55 62 RECORDS PROCESSED

**APPENDIX V**

**Analytical Extraction and Detection Techniques**

**Analytical Extraction and Detection Techniques used by Placer Dome's  
Vancouver Geochemical Laboratory**

<b>Element</b>	<b>Units</b>	<b>Wt(g)</b>	<b>Attack Used</b>	<b>Time</b>	<b>Range</b>	<b>Method</b>
Mo	ppm	0.5	HCL04/HN03	4Hrs	1-1000	Atomic Absorption
Au1	ppb	10.0	Aqua Regia	3Hrs	5-4000	A.A. Solvent Extract
Ag	ppm	0.5	HCL04/HN03	4Hrs	0.2-20	A.A. Background Correction
Cu	ppm	0.5	HCL04/HN03	4Hrs	2-4000	Atomic Absorption
Pb	ppm	0.5	HCL04/HN03	4Hrs	2-3000	A.A. Background Correction
Zn	ppm	0.5	HCL04/HN03	4Hrs	2-3000	Atomic Absorption
Ni	ppm	0.5	HCL04/HN03	4Hrs	2-2000	Atomic Absorption
As	ppm	0.5	Aqua Regia	3Hrs	2-2000	DC Plasma
Sb	ppm	0.5	HCL/HN03	3Hrs	2-2000	DC Plasma
Ba	%	0.25	HF,HI,OXALIC	4Hrs	0.02-20%	Atomic Absorption

**APPENDIX VI**  
**Statement of Expenditures**

## TCHENTLO STATEMENT OF COST

### Labour (Salary and Benefits)

G. Shevchenko - Geologist 37 days @ \$350/day	\$ 12,950.00
D. Traverse - Field Assistant 37 days @ \$200/day	7,400.00

### Accommodation

37 days @ \$40/day	1,480.00
--------------------	----------

### Food

74 Mandays @ \$25/Manday	1,850.00
--------------------------	----------

### Transportation (Truck Rental, gas, oil, etc.)

37 days @ \$55/day	2,035.00
--------------------	----------

### Communication (Radio rental)

147.77

### Freight

63.06

### Field Supplied (Thread, flagging tape, samples bags, etc.)

500.00

### Analytical (See attached for details)

5,000.00

### Report Preparation

Writing	1,000.00
Drafting	500.00
Typing	<u>150.00</u>

**GRAND TOTAL      \$ 33,075.83**

## ANALYTICAL CHARGES

### Soil Samples

	<u>Cost</u>
Sample Prep.	0.90
Mo	2.00
Cu	1.00
Zn	1.00
Pb	1.00
Ni	1.00
Ag	1.00
As	0.50
Sb	0.50
Ba	4.50
Au	<u>5.00</u>

Cost per sample \$14.40 x 260 (# of samples) = \$ 3,744.00

### Bulk Samples

Sample Prep.	0.90
Mo	2.00
Cu	1.00
Zn	1.00
Pb	1.00
Ni	1.00
Ag	1.00
As	0.50
Au	5.00
Au	5.00
Au	<u>5.00</u>

Cost sample \$19.40 x 44 samples = \$ 853.60

### Rock

Mo	3.25
Cu	2.00
Zn	1.00
Pb	1.00
Ni	1.00
Ag	1.00
As	0.50
Au	<u>5.00</u>

Cost per sample \$11.77 x 14 samples = \$ 164.50

### Heavy Mineral

3 samples @ \$130/sample = \$ 390.00

**TOTAL ANALYTICAL = \$ 5,152.10**



**APPENDIX VII**  
**Statement of Qualifications**

## STATEMENT OF QUALIFICATIONS

I, Glenn Shevchenko, of the municipality of Surrey, British Columbia, do hereby certify that:

1. I am a graduate of Concordia University where I received a B.Sc. in Geology in May 1982.
2. I have practiced my profession part-time since 1977, and full-time since 1984.
3. I am a member in good standing with the Geological Association of Canada.
4. I am currently employed by Placer Dome Incorporated and was responsible for the field exploration on the Tchentlo property.

Oct 24, 1989  
Date

  
Glenn Shevchenko

## STATEMENT OF QUALIFICATIONS

I, Richard W. Cannon, of the City of Vancouver, Province of British Columbia, hereby certify as follows:

1. I am a graduate of the University of British Columbia where I received a B. A. Sc. in Geological Engineering (Geophysics Option) in May 1966.
2. I am a member of the Association of Professional Engineers of British Columbia and have been so since 1968. Registration No. 6742.
3. I am a member of the Canadian Institute of Mining and Metallurgy, Society of Exploration Geophysicists, and the B. C. Geophysical Society.
4. I have practiced my profession since 1966.

Date

89/10/24

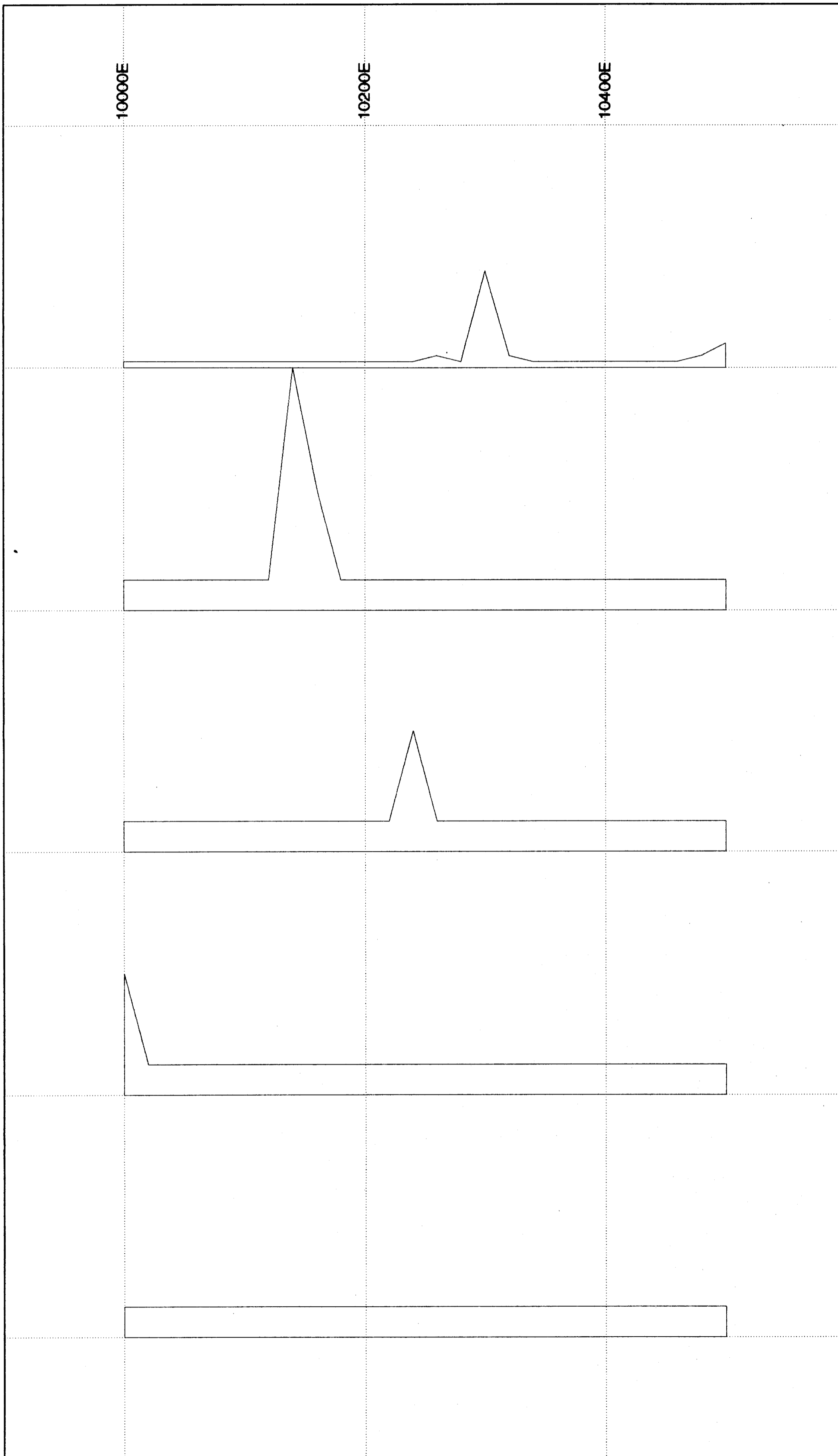
R.W. Cannon, P. Eng.



LO CLAIMS SOIL ORIENTATION  
 LINE 46 N  
 AU

PROFILES PLOTTED:

- A HORIZON
- B HORIZON COARSE FRACTION
- B HORIZON FINE FRACTION
- C HORIZON COARSE FRACTION
- C HORIZON FINE FRACTION



DATA PLOTTED ON THIS MAP:  
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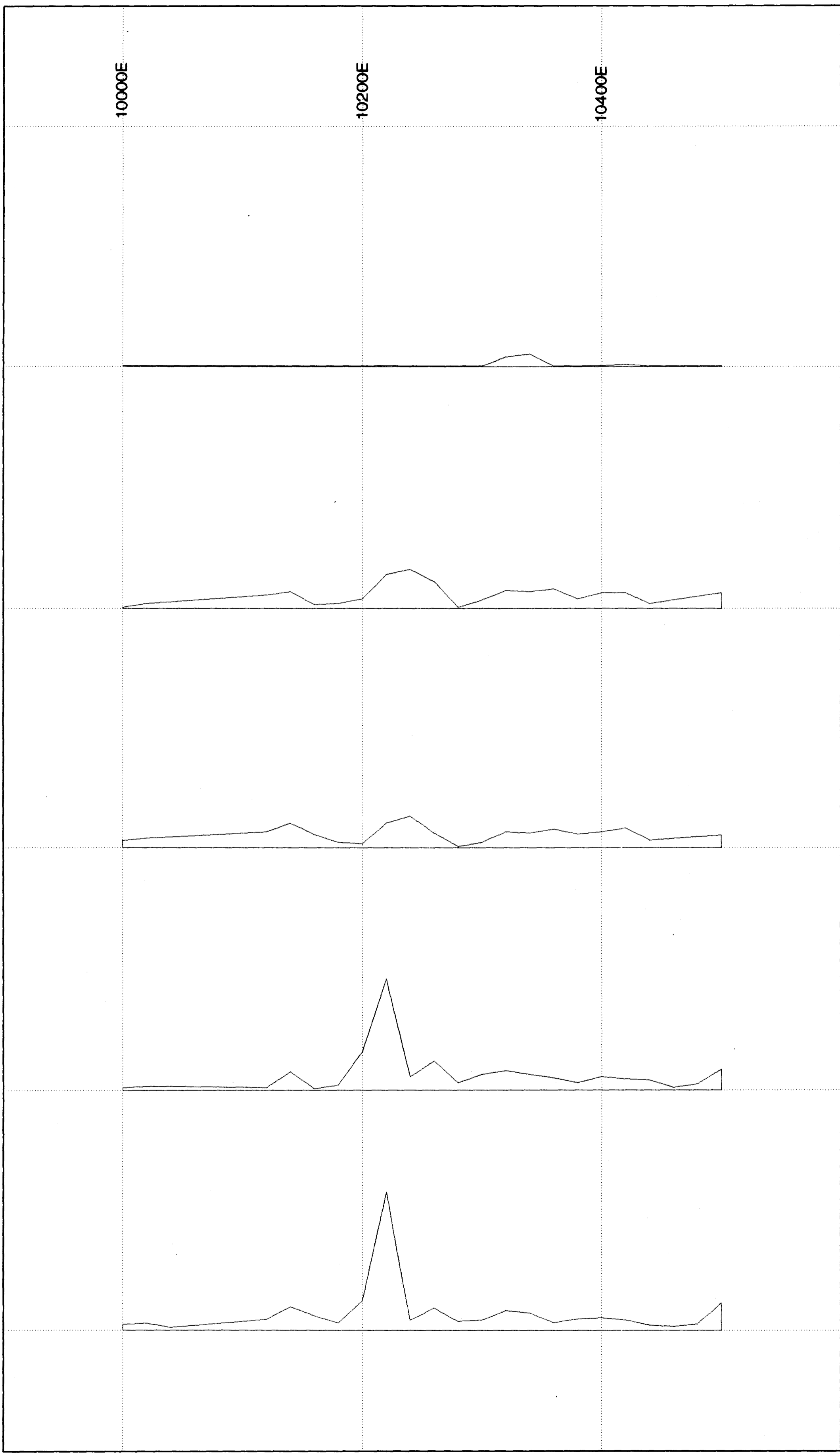
FIELD FILE  
 AU 46.GCHM  
 SCALE: 2.5 UNITS / CM  
 BASE LEVEL: 0.0

GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

19,223



DRAWN SMP		PLACER DOME INC.	
DATE 89:04:25		LO CLAIMS SOIL ORIENTATION	
SCALE 1:2500		LINE 46 N	
FIGURE 9		AU	
NO.		PLATE	



LO CLAIMS SOIL ORIENTATION  
LINE 46 N  
AS

PROFILES PLOTTED:

- A HORIZON
- B HORIZON COARSE FRACTION
- B HORIZON FINE FRACTION
- C HORIZON COARSE FRACTION
- C HORIZON FINE FRACTION

DATA PLOTTED ON THIS MAP:  
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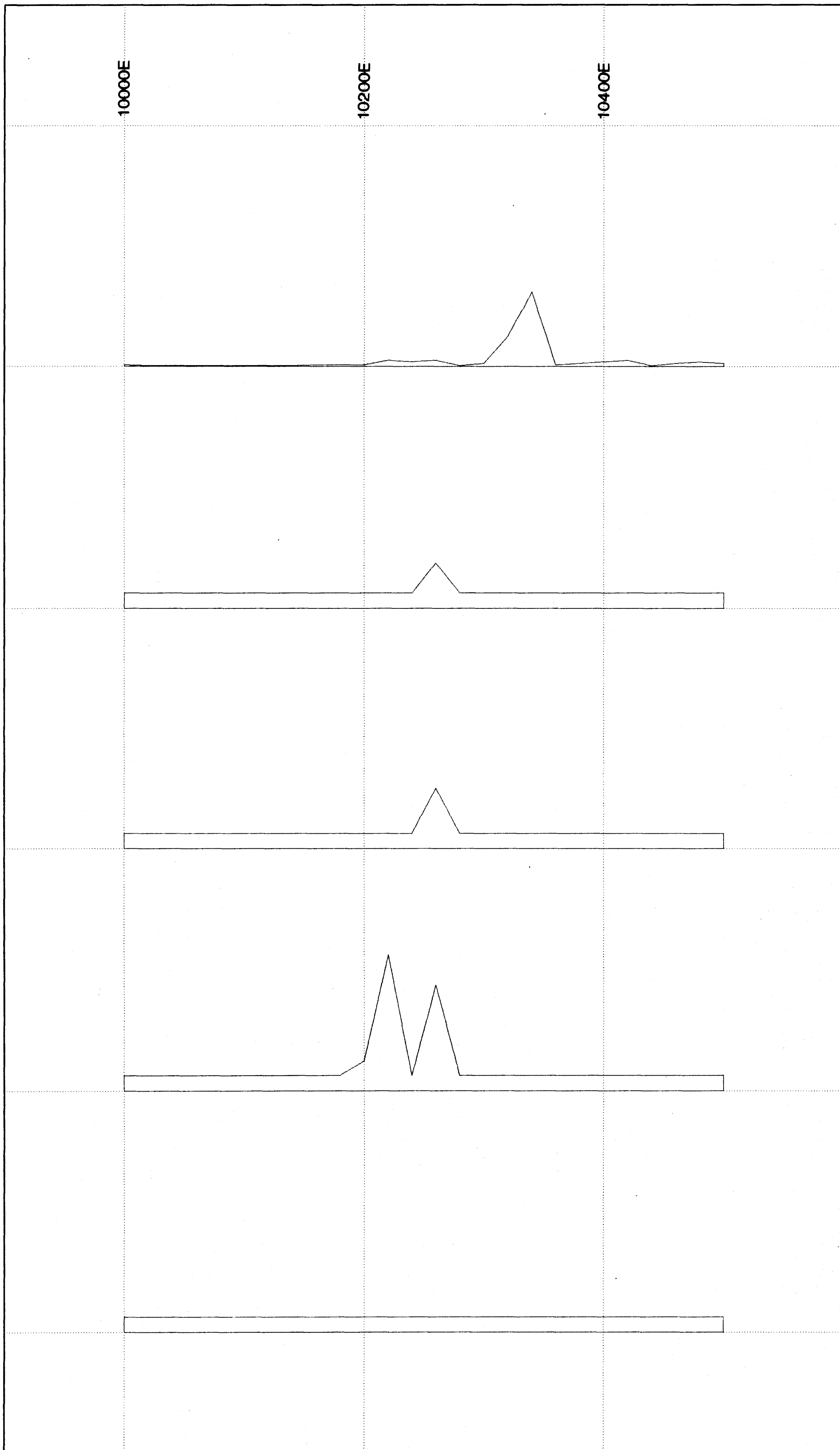
FIELD FILE  
AS 46.GCHM  
SCALE: 25.0 UNITS / CM  
BASE LEVEL: 0.0

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

N  
**19,223**



<b>PLACER DOME INC.</b>	
DRAWN SMP	LO CLAIMS SOIL ORIENTATION
DATE 89:04:25	LINE 46 N
SCALE 1:2500	AS
FIGURE 10	NO. PLATE



LO CLAIMS SOIL ORIENTATION  
LINE 46 N  
SB

PROFILES PLOTTED:

- A HORIZON
- B HORIZON COARSE FRACTION
- B HORIZON FINE FRACTION
- C HORIZON COARSE FRACTION
- C HORIZON FINE FRACTION

DATA PLOTTED ON THIS MAP:  
DIRECTORY: %EXPL/TCHENTLO/GCHM

FIELD FILE  
SB 46.GCHM  
SCALE: 2.0 UNITS / CM  
BASE LEVEL: 0.0

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

19,223

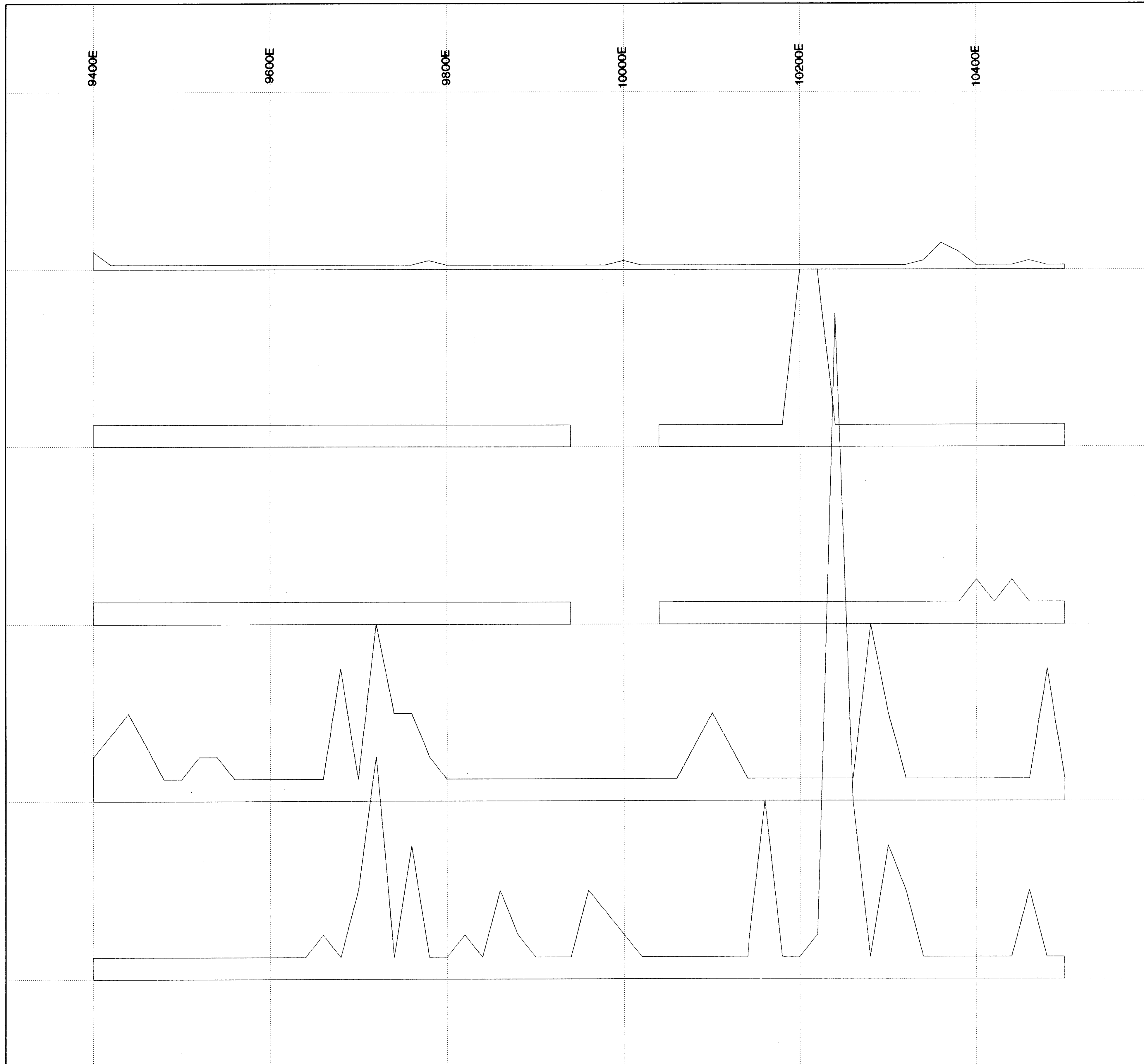


DRAWN SMP		PLACER DOME INC.	
DATE 89:04:25		LO CLAIMS SOIL ORIENTATION	
SCALE 1:2500		LINE 46 N	
FIGURE 11		SB	
NO.		PLATE	

LO CLAIMS SOIL ORIENTATION  
LINE 48 N  
AU

PROFILES PLOTTED:


- A HORIZON
- B HORIZON COARSE FRACTION
- B HORIZON FINE FRACTION
- C HORIZON COARSE FRACTION
- C HORIZON FINE FRACTION



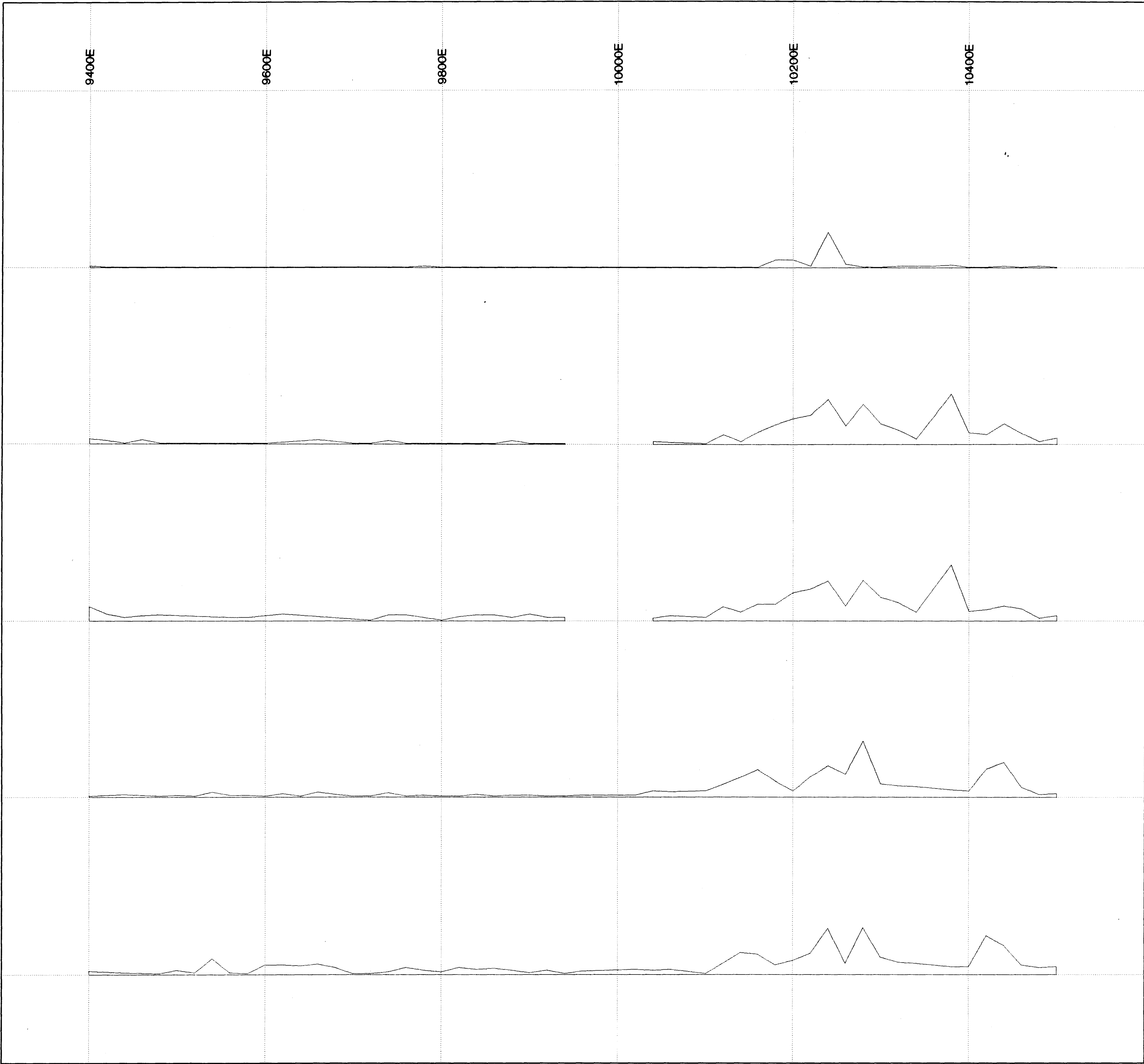
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DIRECTORY: 8EXPL/TCHENTLO/GCHM

FIELD FILE  
AU 48.GCHM  
SCALE: 2.5 UNITS / CM  
BASE LEVEL: 0.0  
**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**

**19,223**




DRAWN SMP		PLACER DOME INC.	
DATE 89:04:25		LO CLAIMS SOIL ORIENTATION	
SCALE 1:2500		LINE 48 N	
FIGURE 12		AU	
		NO.	PLATE



LO CLAIMS SOIL ORIENTATION  
LINE 48 N  
AS

PROFILES PLOTTED:

- A HORIZON
- B HORIZON COARSE FRACTION
- B HORIZON FINE FRACTION
- C HORIZON COARSE FRACTION
- C HORIZON FINE FRACTION

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

FIELD FILE  
AS 48.GCHM  
SCALE: 25.0 UNITS / CM  
BASE LEVEL: 0.0

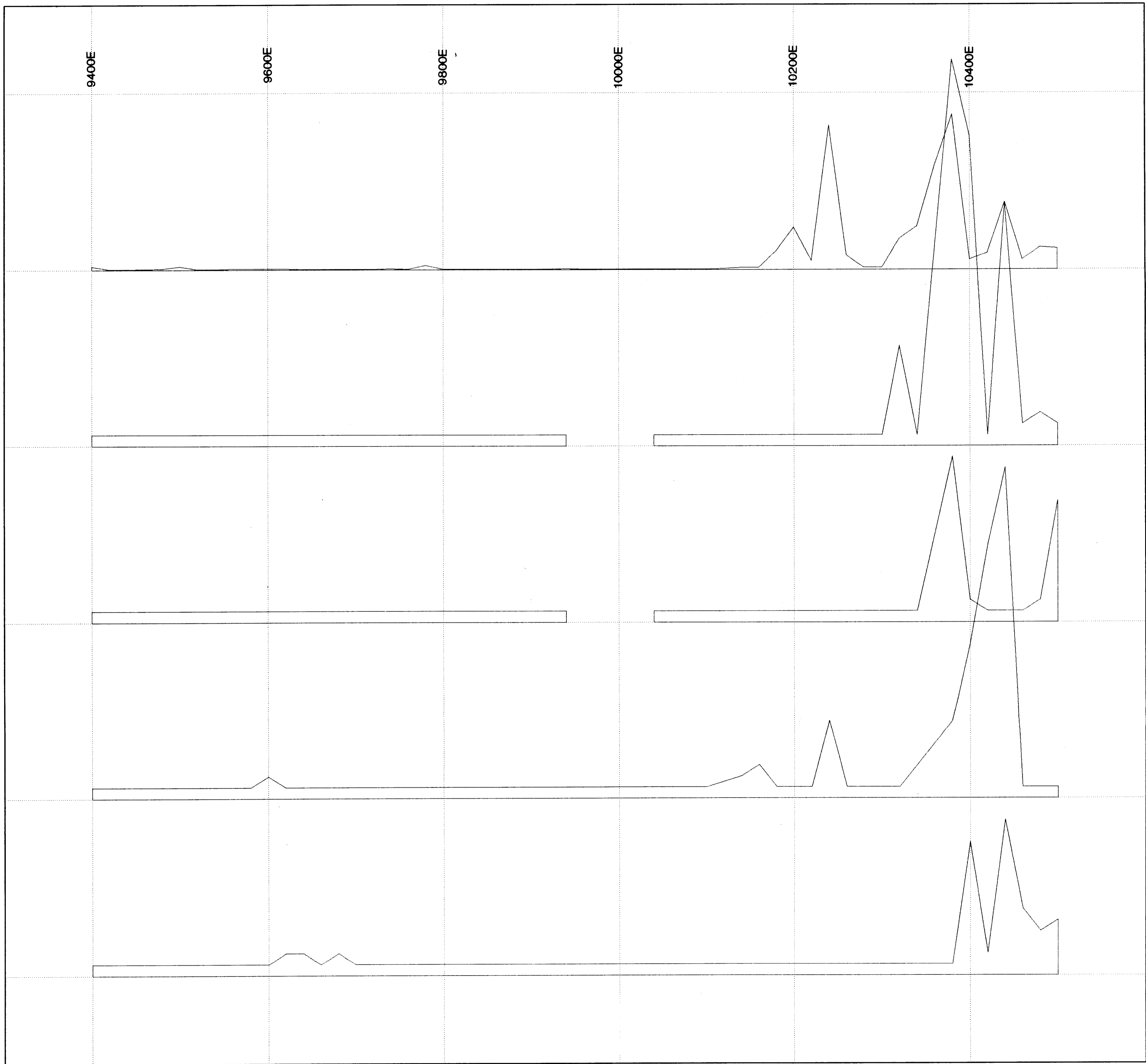
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

19,223  
N



DRAWN SHP		PLACER DOME INC.
DATE 89:04:25		LO CLAIMS SOIL ORIENTATION
SCALE 1:2500		LINE 48 N
FIGURE 13		AS
NO.		PLATE





LO CLAIMS SOIL ORIENTATION  
LINE 48 N  
SB

PROFILES PLOTTED:

- A HORIZON
- B HORIZON COARSE FRACTION
- B HORIZON FINE FRACTION
- C HORIZON COARSE FRACTION
- C HORIZON FINE FRACTION

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

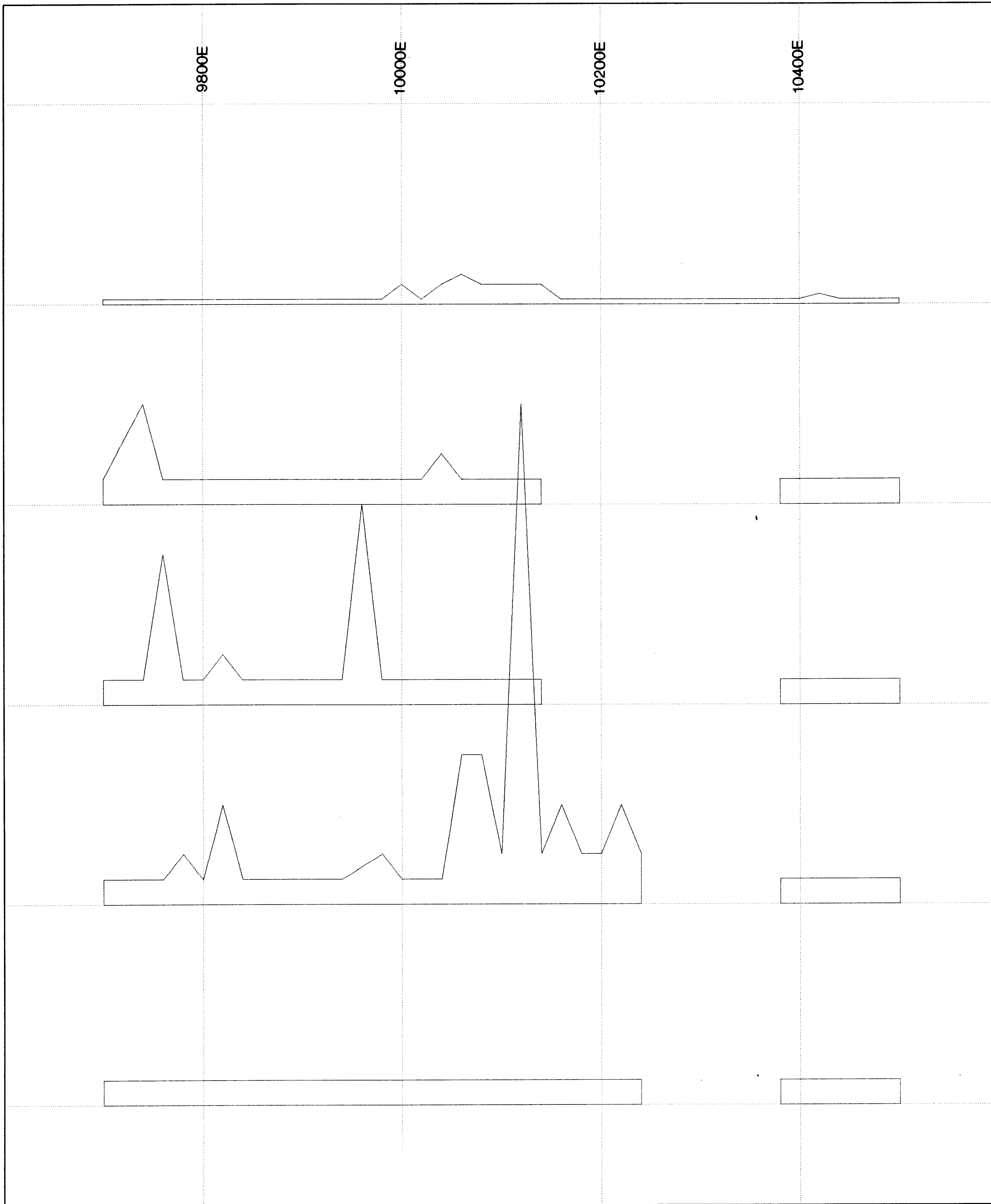
FIELD FILE  
SB 48.GCHM  
SCALE: 2.0 UNITS / CM  
BASE LEVEL: 0.0

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

19,223



DRAWN SMP		PLACER DOME INC.	
DATE 89:04:25		LO CLAIMS SOIL ORIENTATION	
SCALE 1:2500		LINE 48 N	
FIGURE 14		SB	
NO.		PLATE	



LO CLAIMS SOIL ORIENTATION  
LINE 50 N  
AU

PROFILES PLOTTED:

- A HORIZON
- B HORIZON COARSE FRACTION
- B HORIZON FINE FRACTION
- C HORIZON COARSE FRACTION
- C HORIZON FINE FRACTION

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

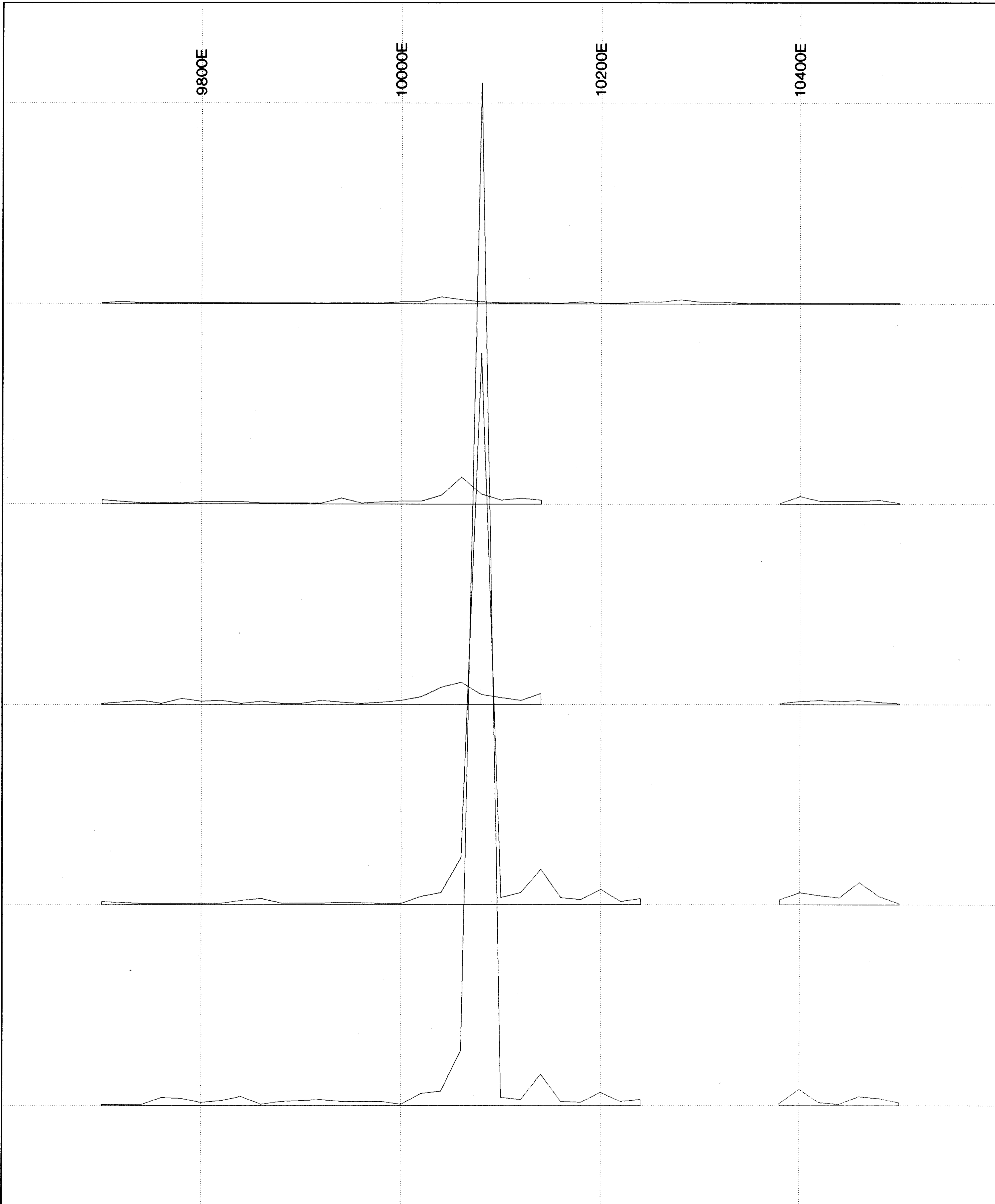
FIELD FILE  
AU 50.GCHM  
SCALE: 2.5 UNITS / CM  
BASE LEVEL: 0.0

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

19,223



DRAWN SMP		PLACER DOME INC.	
DATE 89:04:25		LO CLAIMS SOIL ORIENTATION	
SCALE 1:2500		LINE 50 N	
FIGURE 15	NO.	AU	
		PLATE	



LO CLAIMS SOIL ORIENTATION  
LINE 50 N  
AS

PROFILES PLOTTED:

A HORIZON

B HORIZON COARSE FRACTION

B HORIZON FINE FRACTION

C HORIZON COARSE FRACTION

C HORIZON FINE FRACTION

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

FIELD FILE  
AS 50.GCHM  
SCALE: 25.0 UNITS / CM  
BASE LEVEL: 0.0

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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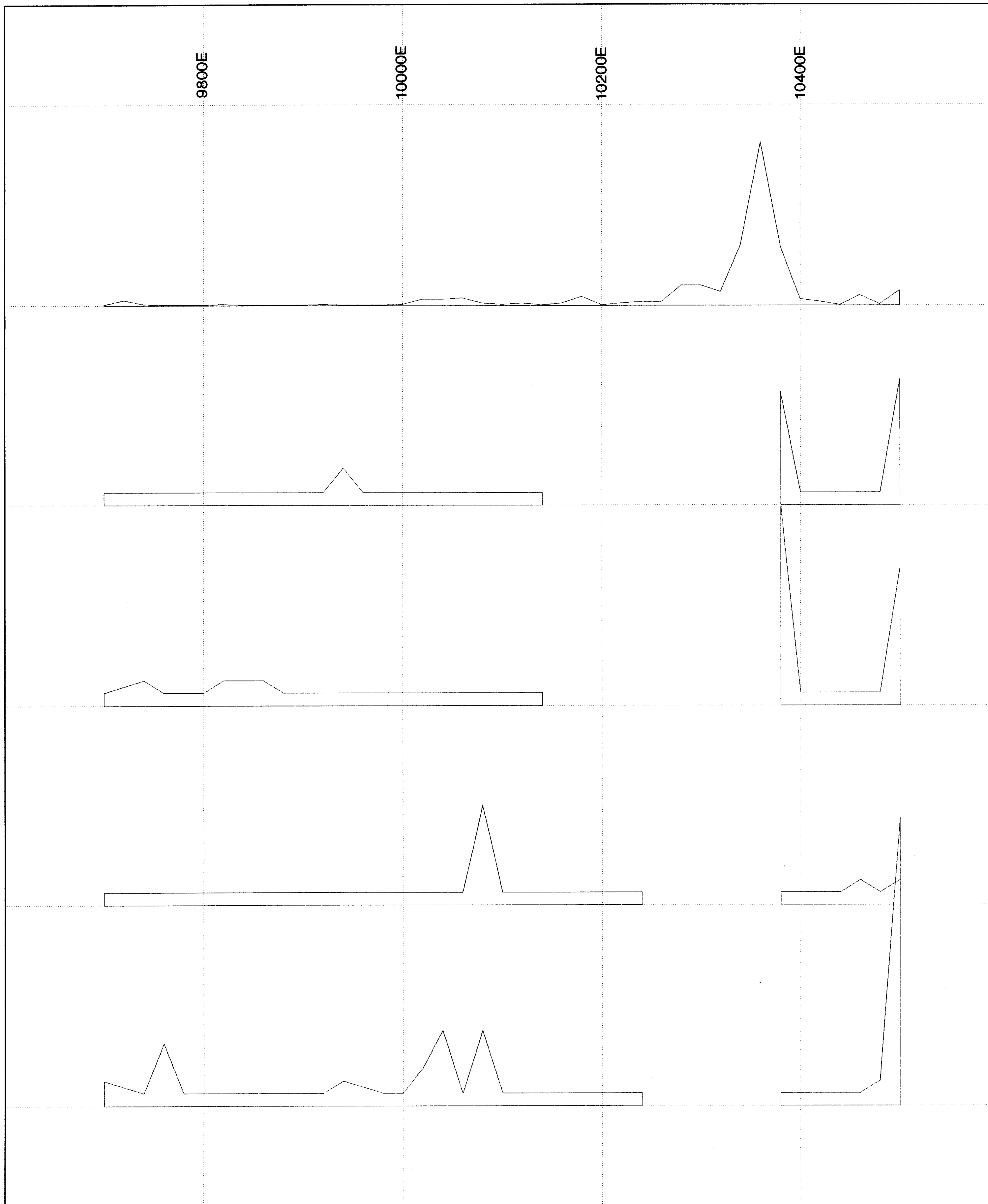
0 100 200 300  
METRES

DRAWN SMP		PLACER DOME INC.	
DATE 89:04:25		LO CLAIMS SOIL ORIENTATION	
SCALE 1:2500		LINE 50 N	
FIGURE 16		AS	
NO.		PLATE	

LO CLAIMS SOIL ORIENTATION  
 LINE 50 N  
 SB

PROFILES PLOTTED:

- A HORIZON
- B HORIZON COARSE FRACTION
- B HORIZON FINE FRACTION
- C HORIZON COARSE FRACTION
- C HORIZON FINE FRACTION



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

FIELD FILE  
 SB 50.GCHM  
 SCALE: 2.0 UNITS / CM  
 BASE LEVEL: 0.0

GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

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DRAWN SMP		PLACER DOME INC.	
DATE 89:04:25		LO CLAIMS SOIL ORIENTATION	
SCALE 1:2500		LINE 50 N	
FIGURE 17		SB	
NO.		PLATE	

TCHENTLO PROPERTY-BAR GRID  
 STACKED VLF PROFILES  
 READINGS TAKEN FACING GRID EAST  
 SEATTLE STATION USED AS TX.  
 DARK LINE = FRASER FILTER  
 MEDIUM LINE = IN-PHASE  
 LIGHT LINE = QUADRATURE

--- CONDUCTOR AXES  
 — MAJOR BREAK  
 — CLAIM BOUNDARY

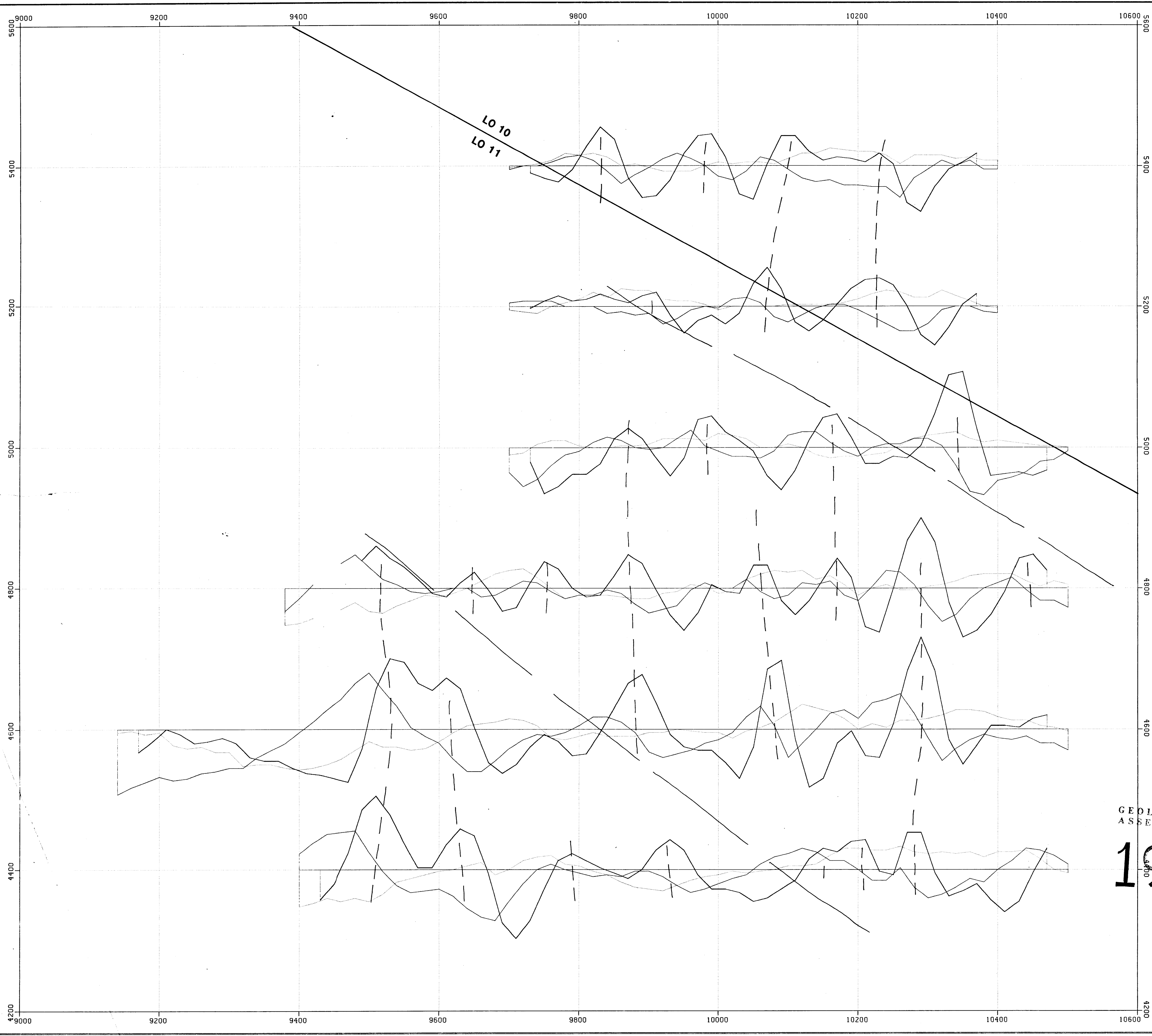
DATA PLOTTED ON THIS MAP:  
 DIRECTORY: /PLACER1\_1E/EXPL/TCHENTLO/GP  
 FIELD FILE  
 PROFILES: IP BAR.IP  
 SCALE: 10.0 UNITS / CM  
 BASE LEVEL: 0.0  
 PROFILES: QD BAR.QD  
 SCALE: 10.0 UNITS / CM  
 BASE LEVEL: 0.0  
 PROFILES: FF BAR.FF  
 SCALE: 10.0 UNITS / CM  
 BASE LEVEL: 0.0

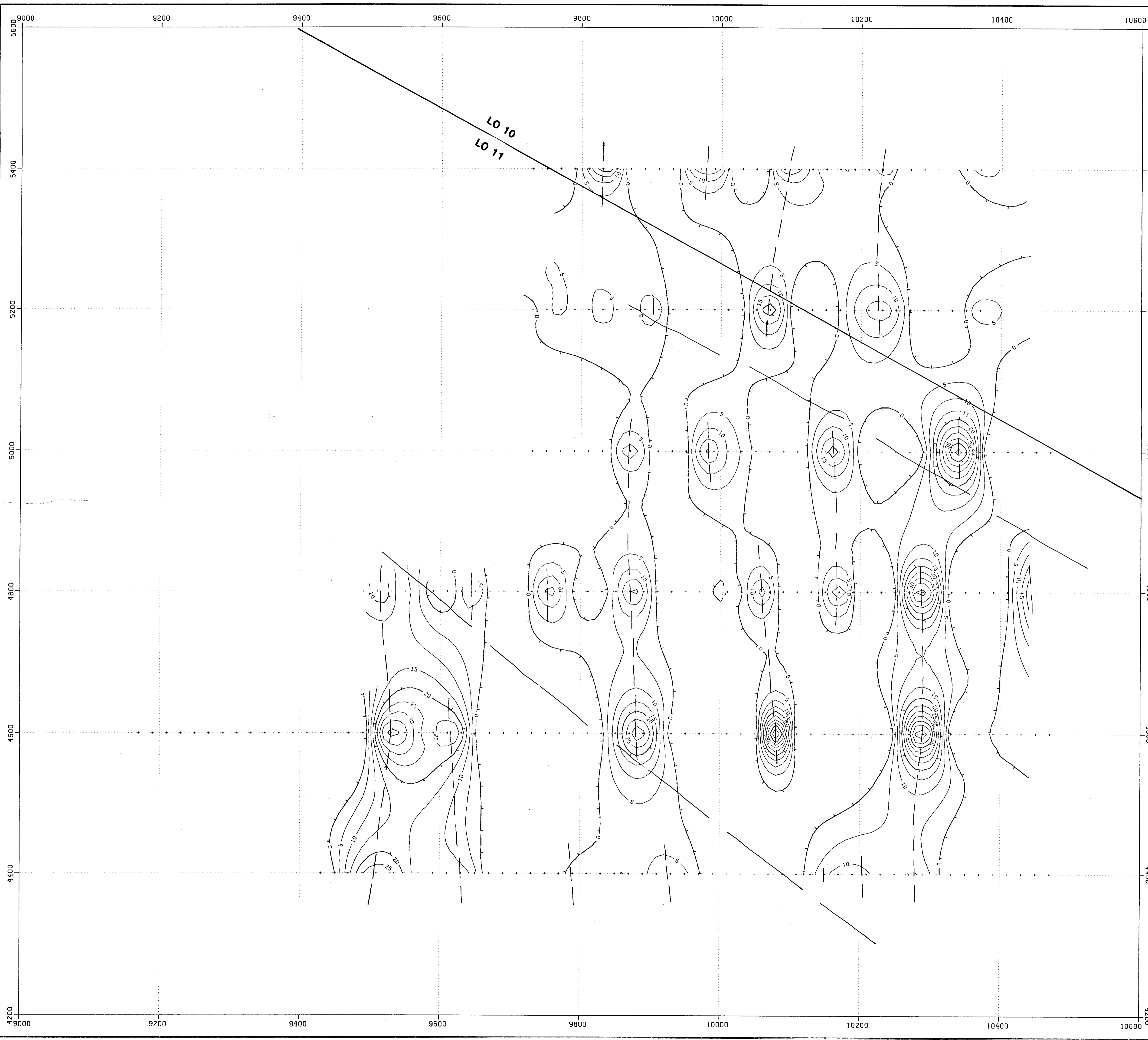
GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

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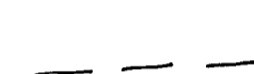




DRAWN RWC		TCHENTLO PROPERTY-BAR GRID	
DATE 88:11:28		STACKED VLF PROFILES	
SCALE 1:2500		FIGURE 18	PLATE





TCHENTLO PROPERTY-BAR GRID  
 CONTOURED FRASER FILTER DATA  
 READINGS TAKEN FACING GRID EAST  
 SEATTLE STATION USED AS TX.  
 CONTOUR INTERVAL = 5

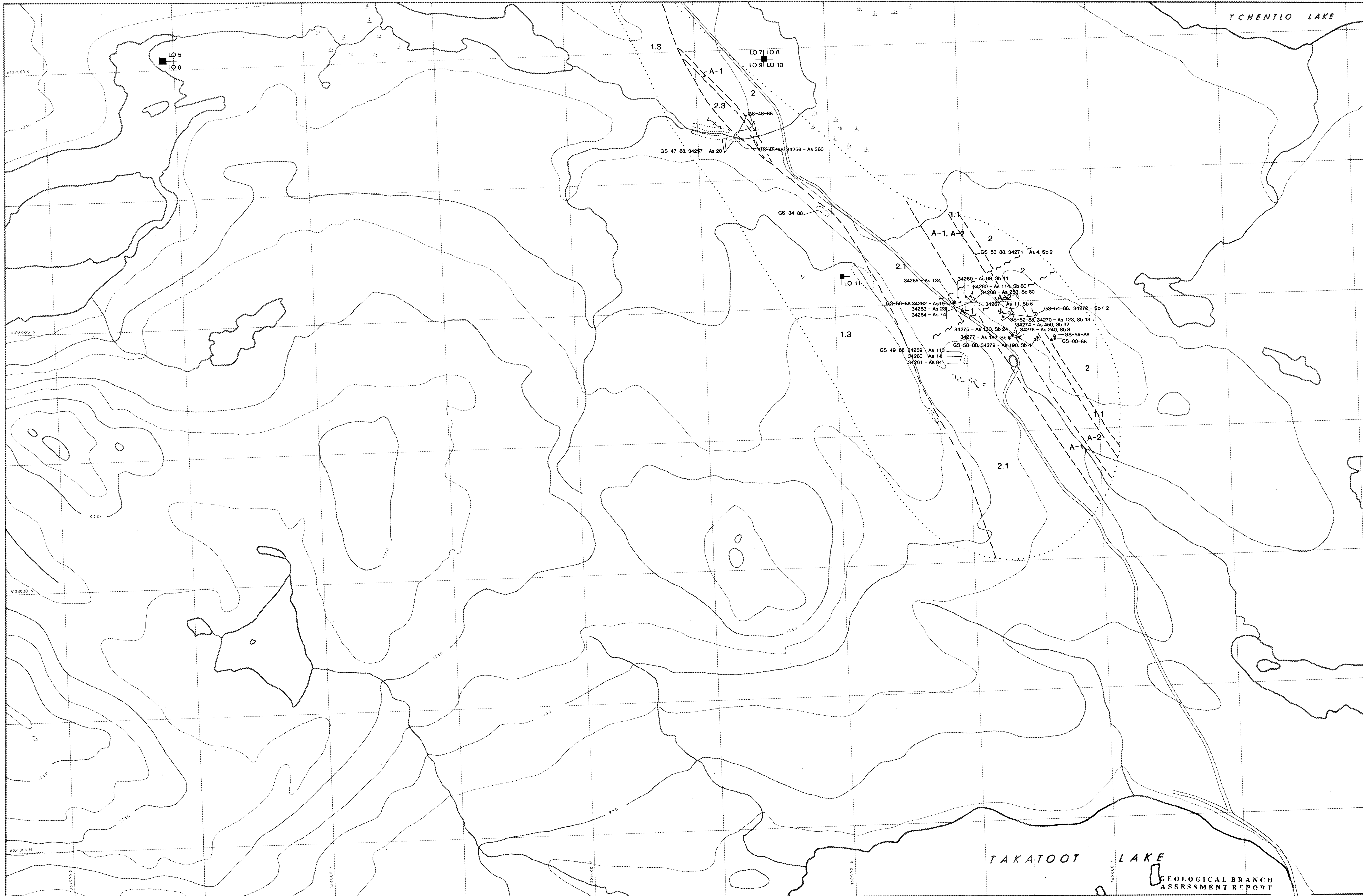
-  CONDUCTOR AXES
-  MAJOR BREAK
-  CLAIM BOUNDARY

DATA PLOTTED ON THIS MAP:  
 DIRECTORY: /PLACER1\_1E/EXPL/TCHENTLO/GP  
 FIELD FILE  
 + CONTOURS: FF BAR.FFS

GEOLOGICAL BRANCH  
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DRAWN RMC		TCHENTLO PROPERTY-BAR GRID CONTOURED FRASER FILTER DATA	
DATE 88:11:28		FIGURE 19	
SCALE 1:2500		PLATE	



TCHENTLO LAKE

TAKATOOT LAKE

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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LEGEND

LITHOLOGIES

Mesozoic

2 Ultramafic Rocks

**2 Olivine Basalt** - medium grey with beige, pink and olive green spots, weathering to a maroon - Inequigranular, porphyritic, amygdaloidal and massive - 5 to 20% phenocrysts comprised of aggregates of very fine grained olivine, set in an aphanitic matrix of colour index 10 - The rock also contains up to 20% amygdalites (0.2 to 1.0 mm in diameter) comprised of silica and occasional calcite.

**1 Pyroxenite** - medium to dark green with olive green spots, weathering to a medium grey - Essentially equigranular and massive - Comprised of medium grained subhedral augite (75 to 90%) and fine grained anhedral olivine (10 to 25%).

Cache Creek

3 Sedimentary Rocks

**3 Limestone** - Medium grey, weathering to a light grey colour. Massive with occasional thick bedding.

**2 Chert** - Light to medium grey, weathering to a medium grey - Equigranular and aphanitic with a distinct rock cleavage - Comprised of cryptocrystalline silica (97%), very fine grained pyrite (1 to 2%) occurring as disseminations and fracture fillings and 1 to 2% calcite along fractures.

**1 Feldspathic Sandstone** - Maroon with occasional beige bands, weathering to a dark brown with some rusty areas - Thinly bedded with fine grained sand - sand particles set in an aphanitic, terrigenous, calcic matrix - The sand is comprised of subangular feldspar, quartz, and amphibole.

ALTERATION / SHEAR ZONE FACIES

**A-1 Listwanitic Alteration** - Mottled medium grey, dark grey and beige - Grey with green spots, weathering to a beige or orange beige colour - May be inequigranular with a distinct sheared appearance - The phenocrysts (up to 20%) range from 2 to 8mm in size and are comprised of fuchsite. In some cases there is only partial alteration of pyroxene to fuchsite. The phenocrysts are set in an aphanitic matrix (colour index 30 to 40) which may have an indistinct banding - May contain up to 5% quartz and chlorite with occasional very fine grained cinnabar.

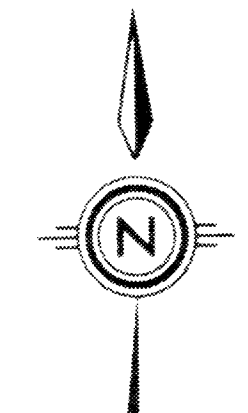
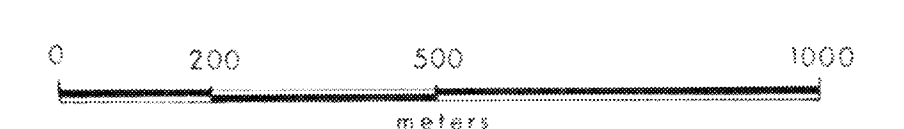
**A-2 Quartz - Carbonate Alteration** - Same as rock type A-1, but no fuchsite present.

**A-3 Limestone Breccia** - Medium grey, weathering to a light grey. Massive with a moderate to distinct brecciated appearance - Clasts are angular and range from less than 1cm to 15cm in length - Calcite (10 to 50%) infills fractures between clasts.

**A-4 Serpentine** - Medium to dark green, weathering to a medium grey to greenish grey - Equigranular to inequigranular - Contains 50 to 100% serpentine - The serpentine is a result of shearing in an ultramafic rock, thus depending on the degree of shearing clasts of pyroxene may remain.

SYMBOLS

- Geological boundary (if defined, assumed)
- Fault (inferred)
- Shear plane (inclined, vertical)
- Bedding plane (inclined)
- Area of outcrop, spot of outcrop, float
- Limit of geological interpretation
- Bulk sample site
- Heavy mineral sample site
- Sample number
- Legal corner post and claim name
- Road

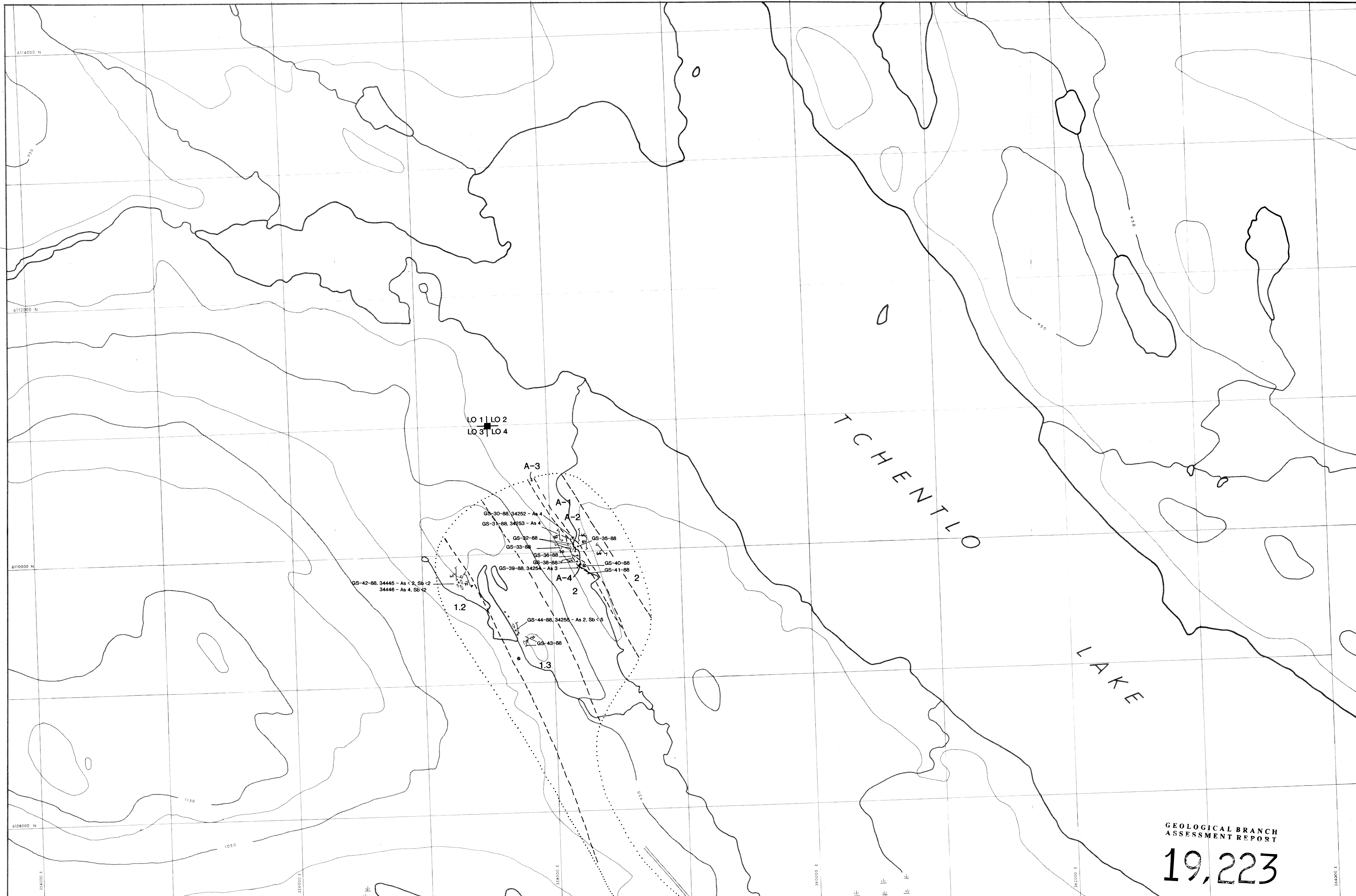


PLACER DOME INC.  
TCHENTLO PROPERTY

PROPERTY GEOLOGY MAP

DRAWN G.S.  
DATE Oct. 1988  
SCALE 1:10,000  
FIGURE 5

FILE No. SOUTH SHEET 93N/3



GEOLOGICAL BRANCH  
ASSESSMENT REPORT  
**19,223**

**LEGEND**

**LITHOLOGIES.**

**Mesozoic**

**2 Ultramafic Rocks**

**2 Olivine Basalt** - medium grey with beige, pink and olive green spots, weathering to a maroon. Inequigranular, porphyritic, amygdaloidal and massive. 5 to 20% phenocrysts comprised of aggregates of very fine grained olivine are set in an aphanitic matrix of colour index 70. The rock also contains up to 20% amygdales (0.2 to 1.0 mm in diameter) comprised of silica and occasional calcite.

**1 Pyroxenite** - medium to dark green with olive green spots, weathering to a medium grey. Essentially equigranular and massive. Composed of medium grained subhedral augite (75 to 90%) and fine grained anhedral olivine (10 to 25%).

**Cache Creek**

**1 Sedimentary Rocks**

**2 Limestone** - Medium grey, weathering to a light grey colour. Massive with occasional thick bedding.

**2 Chert** - Light to medium grey, weathering to a medium grey. Equigranular and aphanitic with a distinct rock cleavage. Composed of cryptocrystalline silica (93%), very fine grained pyrite (1 to 2%) occurring as disseminations and fracture fillings, and 5 to 7% calcite along fractures.

**1 Felspathic Sandstone** - Maroon with occasional beige bands, weathering to a dark brown with some rusty areas. Thru bedded with fine grained sand - sized particles set in an aphanitic, terrigenous matrix. The sand is comprised of subangular feldspar, quartz, and amphibole.

**ALTERATION / SHEAR ZONE FACIES**

**A-1 Listwanitic Alteration** - Mottled medium grey, dark grey and beige grey with green spots, weathering to a beige or orange beige colour. May be micropagular with a distinct sheared appearance. The phenocrysts (up to 20%) range from 2 to 8mm in size and are comprised of fuchsite. In some cases there is only partial alteration of pyroxene to fuchsite. The phenocrysts are set in an aphanitic matrix (colour index 30 to 40) which may have an indistinct banding. May contain up to 5% quartz and chlorite with occasional very fine grained cinnabar.

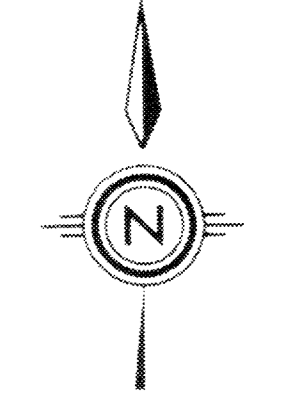
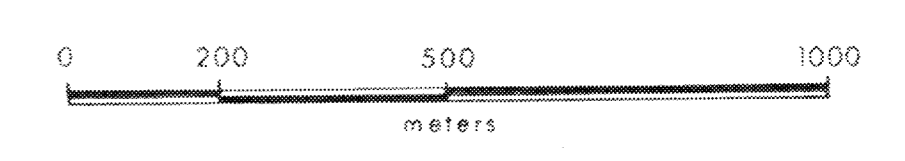
**A-2 Quartz - Carbonate Alteration** - Same as rock type A-1, but no fuchsite present.

**A-3 Limestone Breccia** - Medium grey, weathering to a light grey. Massive with a moderate to distinct brecciated appearance. Clasts are angular and range from less than 1cm to 15cm in length. Calcite (10 to 60%) fills fractures between clasts.

**A-4 Serpentinite** - Medium to dark green, weathering to a medium grey to greenish grey. Equigranular to inequigranular. Contains 50 to 100% serpentine. The serpentine is a result of shearing in an ultramafic rock, thus depending on the degree of shearing clasts of pyroxene may remain.

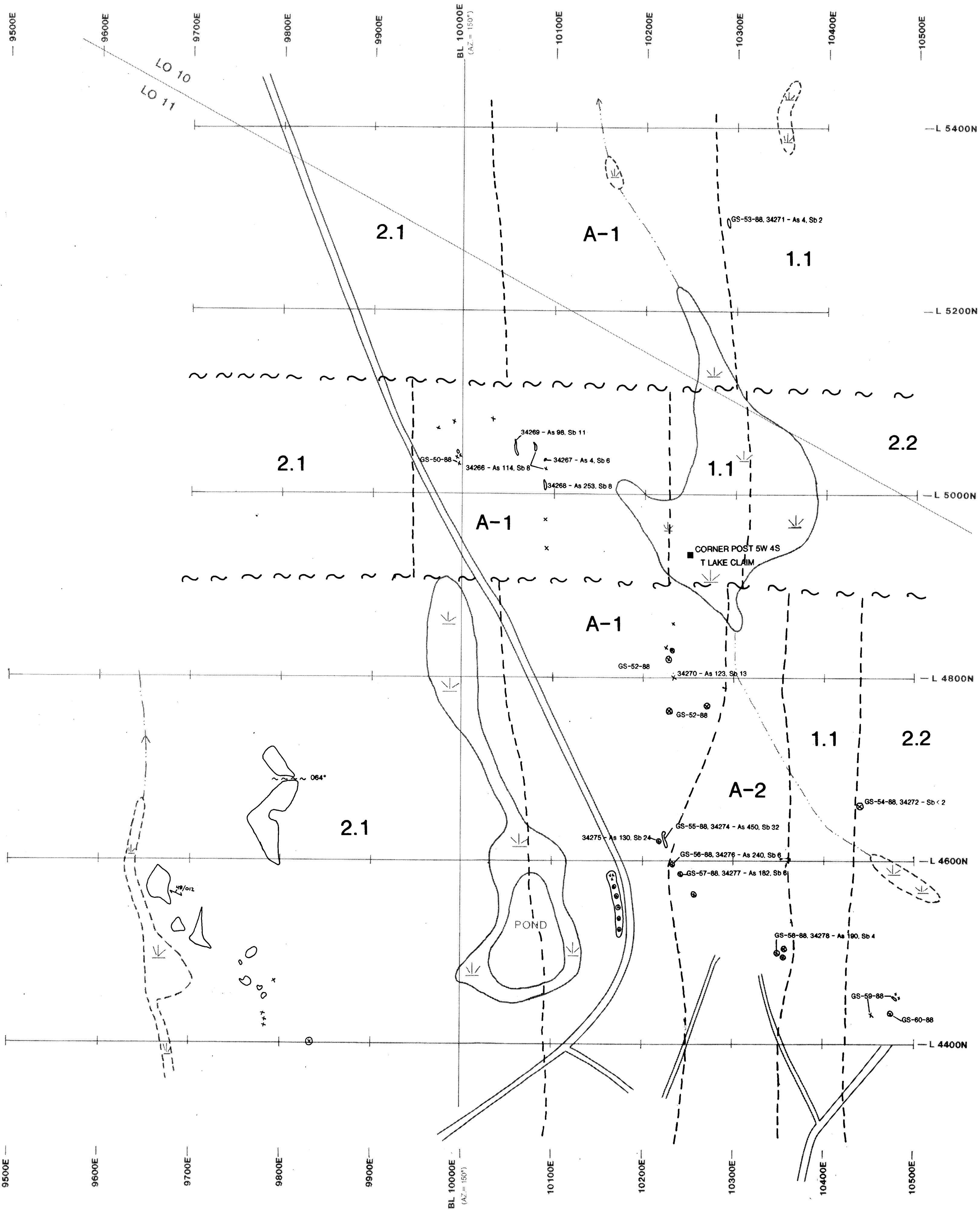
**SYMBOLS**

- Geological boundary (defined, assumed)
- Fault (interrud)
- Shear plane (inclined, vertical)
- Bedding plane (inclined)
- Area of outcrop, spot of outcrop, float
- Limit of geological interpretation
- Bulk sample site
- Heavy mineral sample site
- Sample number
- Legal corner post and claim name
- Road



<b>PLACER DOME INC.</b>		<b>TCHENTLO PROPERTY</b>	
DRAWN	G.S.	<b>PROPERTY GEOLOGY MAP</b>	
DATE	Oct. 1988		
SCALE	1:10,000		
FIGURE 4	FILE No. NORTH SHEET	93N/73	





**LEGEND**

**LITHOLOGIES**

**Mesozoic**

**2 Ultramafic Rocks**

**2 Olivine Basalt** - medium grey with beige, pink and olive green spots, weathering to a maroon. - Inequigranular, porphyritic, amygduloidal and massive. - 5 to 20% phenocrysts comprised of aggregates of very fine grained olivine are set in an aphanitic matrix of colour index 70. - The rock also contains up to 20% amygdules (0.2 to 1.0 mm in diameter) comprised of silica and occasional calcite.

**1 Pyroxenite** - medium to dark green with olive green spots, weathering to a medium grey. - Essentially equigranular and massive. - Comprised of medium grained subhedral augite (75 to 90%) and fine grained anhedral olivine (10 to 25%).

**Cache Creek**

**1 Sedimentary Rocks**

**1 Feldspathic Sandstone** - Maroon with occasional beige bands, weathering to a dark brown with some rusty areas. - Thinly bedded with fine grained sand - sized particles set in an aphanitic, hematitic clastic matrix. - The sand is comprised of subangular feldspar, quartz, and amphibole.

**ALTERATION / SHEAR ZONE FACIES**

**A-1 Lithwanitic Alteration** - Mottled medium grey, dark grey and beige - grey with green spots, weathering to a beige or orange beige colour. - May be inequigranular with a distinct sheared appearance. - The phenocrysts (up to 20%) range from 2 to 8mm in size and are comprised of fuchsite. In some cases there is only partial alteration of pyroxene to fuchsite. The phenocrysts are set in an aphanitic matrix (colour index 30 to 40) which may have an indistinct banding. - May contain up to 5% quartz and chalcedonic veining with occasional very fine grained cinnabar.

**A-2 Quartz - Carbonate Alteration** - Same as rock type A-1, but no fuchsite present.

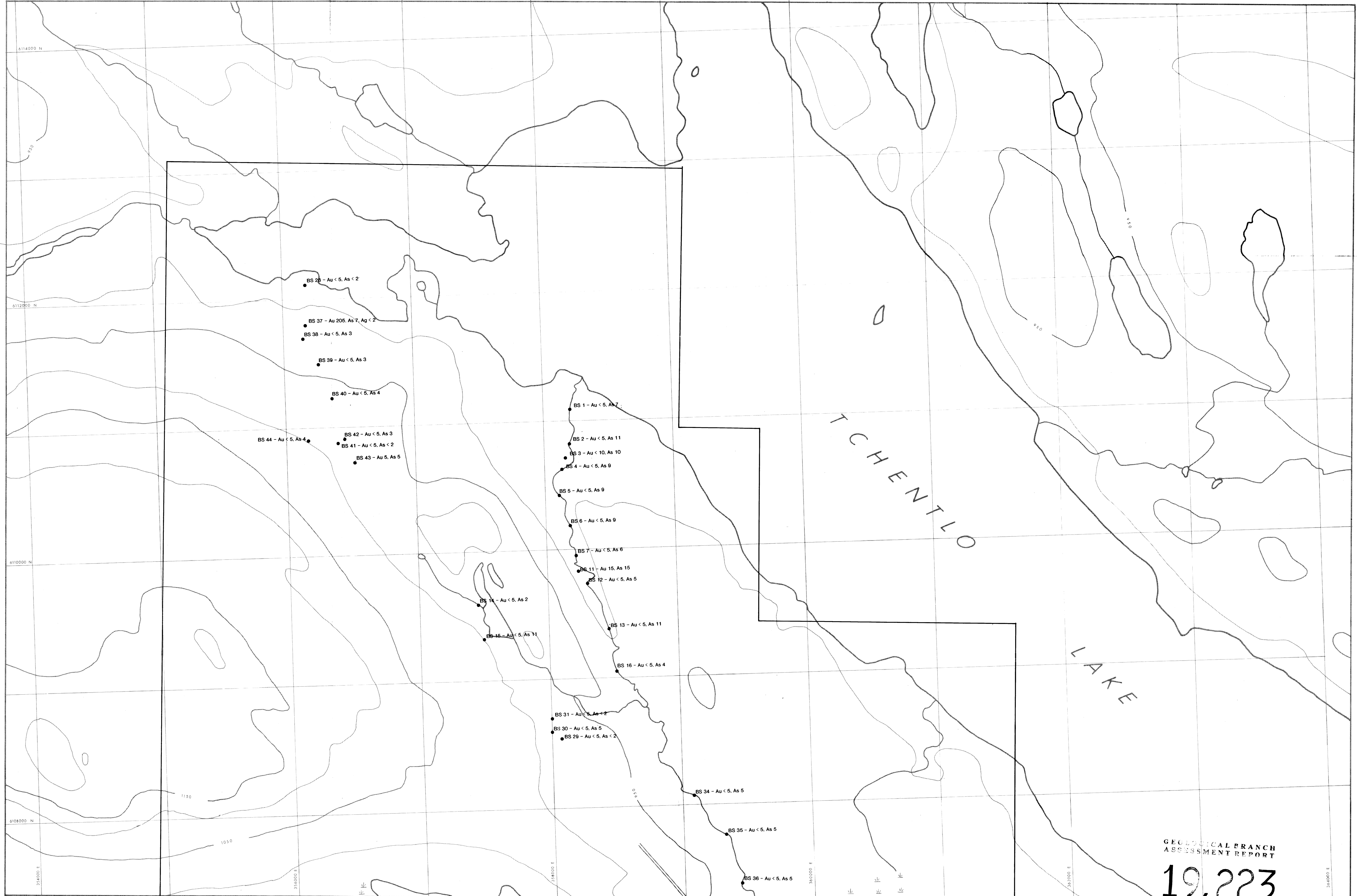
**SYMBOLS**

- Geological boundary (defined, assumed)
- Fault (inferred)
- Area of outcrop, spot of outcrop, float
- Sample number
- Legal corner post and claim name
- Road
- Outcrop Number
- Shear plane (inclined)

**GEOLOGICAL BRANCH  
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DRAWN G.S.	SCALE 1:2500	PLACER DOME INC.	<b>GEOLOGY</b>	93N/03
TRACED M.P.	DATE OCT. 1988			
<b>FIGURE 6</b>		TCHENTLO PROJECT - BAR GRID	FILE No.	

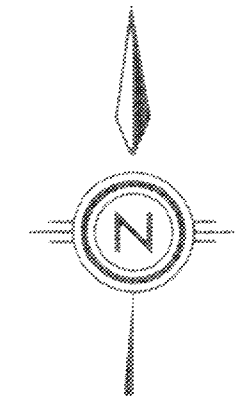
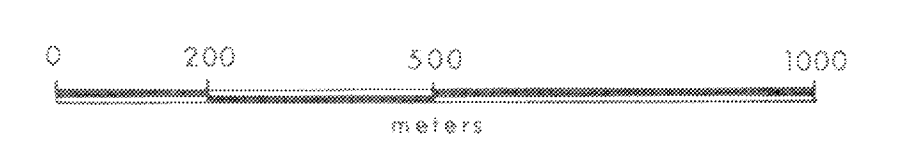


GEOLOGICAL BRANCH  
ASSESSMENT REPORT

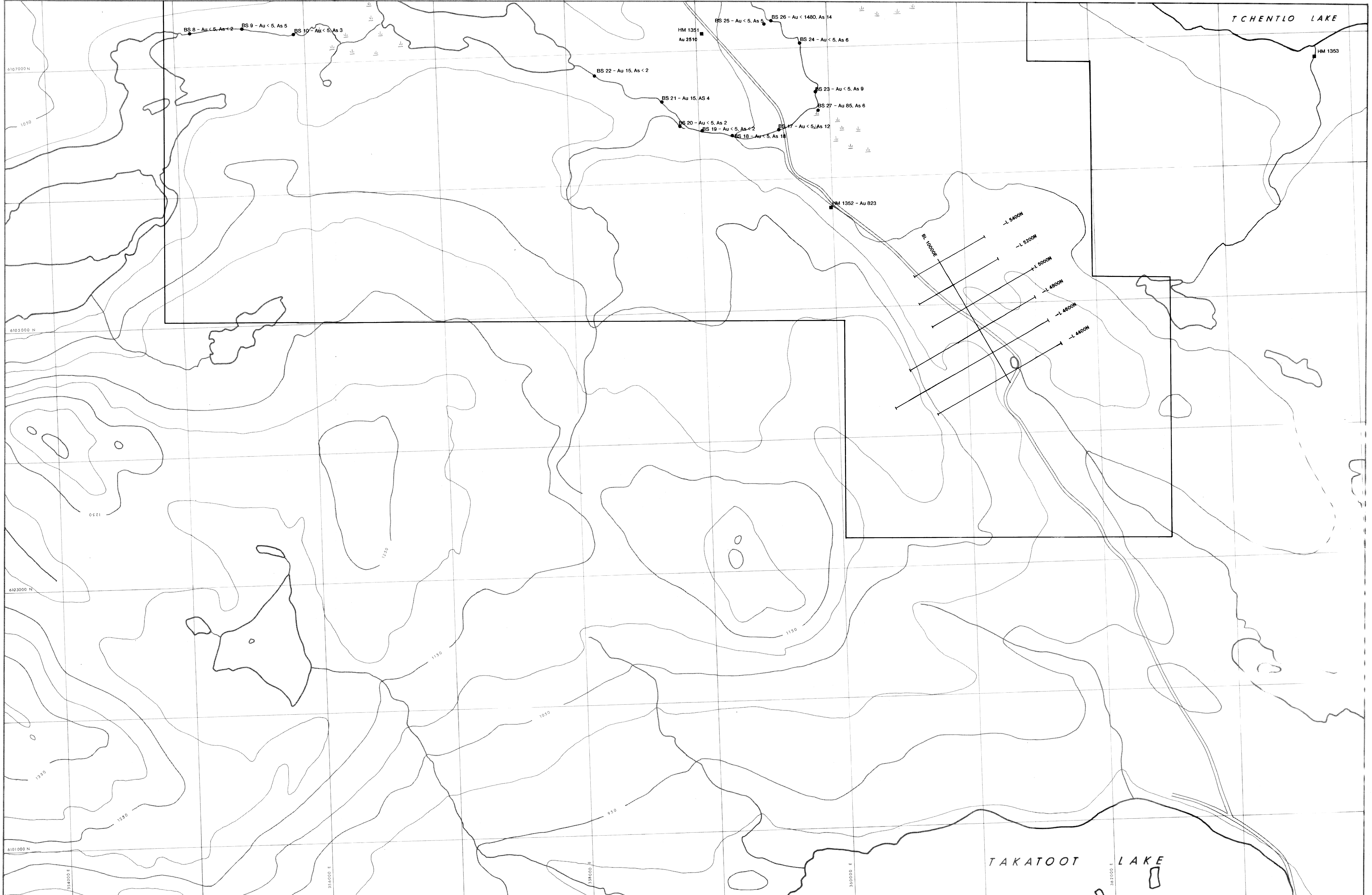
19,223

**LEGEND**

- BS 32 - Au < 5, As < 2 Bulk Sample Site - Sample #, Au (ppb), As (ppm)
- Outer Claim Boundary



<b>PLACER DOME INC.</b>	
<b>TCHENTLO PROPERTY</b>	
DRAWN G.S.	SAMPLE LOCATION MAP
DATE OCT. 1988	BULK and HEAVY MINERAL SAMPLES
SCALE 1:10,000	FILE No. NORTH SHEET
FIGURE 7	93N/3

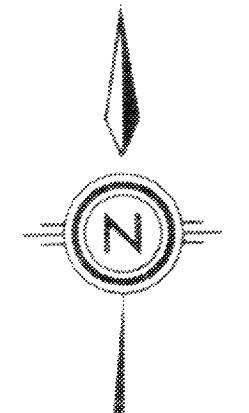


**LEGEND**

- BS 31 - Au < 5, As < 2      Bulk Sample Site - Sample #, Au (ppb), As (ppm)
- HM 1351 - Au < 5, As < 2      Heavy Mineral Sample Site - Sample #, Au (ppb), As (ppm)
- Outer Claim Boundary

GEOLOGICAL BRANCH  
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<b>PLACER DOME INC.</b>	
<b>TCHENTLO PROPERTY</b>	
DRAWN	G.S.
DATE	OCT. 1988
SCALE	1:10,000
FIGURE 8	FILE No. SOUTH SHEET
93N / 3	

SAMPLE LOCATION MAP  
BULK and HEAVY MINERAL SAMPLES