MAP NO.:
105 G 1/2/7/8

ASSESSMENT REPORT X
PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092991
MINING DISTRICT: WATSON LAKE
TYPE OF WORK: GEOLOGY,GEOPHYSICS
GEOCHEMISTRY

REPORT FILED UNDER: PLACER DOME EXPLORATION LIMITED

DATE PERFORMED: MAY - OCTOBER, 1991 **DATE FILED:** DECEMBER 8, 1992

LOCATION: **LAT.:** 61°14'N **AREA:** FIRE LAKE

LONG.: 130°30'W **VALUE $:**96,000

CLAIM NAME & NO.: KONA 43-46
FIRE 1-192

WORK DONE BY: ROBERT W. STROSHEIN

WORK DONE FOR: PLACER DOME EXPLORATION LIMITED

DATE TO GOOD STANDING:	

REMARKS: PROPERTY OPTIONED FROM WELCOME NORTH MINES. PDE COMPLETED AN AIRBORNE GEOPHYSICAL SURVEY LATE IN 1990. APEX MAX-MIN SURVEY DONE TO LOCATE MASSIVE SULPHIDE ON SURFACE. MAPPING AND GEOCHEM WERE DONE OVER EM SURVEYS. PROPERTY WITHIN YUKON TANANA TERRANE. MINERALIZED HORIZON EXTENDED 1 KM TO THE NW. 308 LINE KM FLOWN. 1750 SOIL SAMPLES COLLECTED AND ASSAYED. 112 ROCK CHIP SAMPLES COLLECTED AND ASSAYED.

Indian and Northern Affairs Canada | Affaires indiennes et du Nord Canada

M.R. file no.

R.M.M.R. file no.

Date forwarded 08 JAN 1992.

TRANSMITTAL FORM

From ▶ Mining Recorder at: Watson Lake.

To ▶ Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

- ☐ NEW APPLICATION FOR PLACER LEASE TO PROSPECT — Name
- ☐ RENEWAL APPLICATION PLACER LEASE TO PROSPECT — Name — Lease no.
- ☐ AFFIDAVIT OF EXPENDITURE ON PLACER LEASE — Name — Lease no.
- ☐ SECURITY DEPOSIT
- ☐ FINANCIAL ABILITY
- ☐ ASSIGNMENT OF PLACER LEASE NO. — From — To
- ☐ GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT. — Owner
- ☐ DIAMOND DRILL LOGS — Claims — Claim sheet no.
- ☑ QUARTZ ASSESSMENT REPORT 4 Vols. — Claims: FIRE 1-184 YB33748-931 & FIRE 185-192 YB34080-87. — Claim sheet no.: 105-G-01/02/07/08
  - Type of report: G, GC, GP.
  - Submitted by: Placer Dome Inc.
  - Cls. work performed on: FIRE 2,4,12-14,16,19-21,24,29-32,43,46-48,53,73,75,77 133,140,144,155-158
  - $ req. for ren. application: $96000.00

OFFICE OF THE REGIONAL MANAGER MINERAL RIGHTS JAN 14 1992 WHITEHORSE YUKON TERRITORY

Signature

Date returned

REPLY ACTION

092991

Signature

802-6027-26 (6-86)

VOLUME I OF IV

Geological, Geochemical and Geophysical Report on the KONA PROPERTY

Watson Lake Mining District
Yukon Territory

NTS: 105 G/1,2,7,8
Latitude 61° 14'N Longitude 130° 30'W

Owner of Claims: Welcome North Mines Limited

OFFICE OF THE REGIONAL MANAGER
MINERAL RIGHTS
JAN 14 1992
WHITEHORSE
YUKON TERRITORY

092991

By: Robert W. Stroshein
Placer Dome Exploration Limited
December 24, 1991

RECEIVED
JAN - 8 1992
MINING RECORDER
WATSON LAKE, Y.T.
L.A. & N.D.

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 16,000.

D. J. Ouellette

Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

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1. INTRODUCTION

The Kona Project was acquired by Placer Dome Inc. (PDI) through an option agreement with Welcome North Mines Limited, the terms of which became effective upon signing of the Agreement on November 30, 1990. PDI had the option to earn a 60 % interest in the property by December 1, 1993.

During the period leading up to the formal signing of the agreement, PDI contracted an airborne geophysical survey of the property and surrounding area. The survey was carried out by Dighem Surveys & Processing Inc. covering an area of 36 square kilometres or 308 line kilometres of flight lines. Dighem prepared a report on the survey which included maps of electromagnetic anomalies, resistivity, total field magnetics, vertical gradient and VLF-EM along with an interpretative report.

An evaluation of the airborne geophysical survey combined with the available geological information was undertaken and the present program designed prior to the commencement of the field season. The main grid was laid out to cover the interpreted extension of the mineralized horizon from the Kona creek showings. The earlier drilling southeast of Fire Lake appeared to have been at elevations below the favourable horizon and therefore a potentially extensive target beyond the limits of the known mineralization existed.

The Apex MaxMin EM instrument was chosen as an effective method to locate massive sulphide mineralization. Survey control on slope and distance measurements is important when interpreting the survey results and therefore linecutting and chaining were essential to prepare for the survey. The ground magnetic survey was planned to compliment the electromagnetic survey, provide an aid to structural interpretation and to fill in details of the airborne magnetic results.

The ground electromagnetic and magnetic surveys were carried out on the southern line grid and on three lines in the Kona showing area which detailed the areas defined by the airborne survey. The survey results provided stratigraphic and structural information for the geological interpretation.

Geological mapping was conducted throughout the property concentrating on extrapolating the geological setting outward from the mineralization in the Kona creek area.

Samples of soil and rock taken along the grids and over electromagnetic conductors were submitted for multi-element ICP analysis to test the metal potential of the geophysical anomalies and supply data to help identify the underlying bedrock in overburden covered areas.

2. SUMMARY

The Kona property is located in the Watson Lake Mining District near Fire Lake which is 160 kilometres by air northwest of the town of Watson Lake in the Yukon Territory.

The property is within the Yukon Tanana Terrane (YTT) which consists of a strongly deformed mid-Palaeozoic volcanic-plutonic assemblage (Mortensen, 1985). The YTT in southeastern Yukon is offset from the larger mass of the YTT in Western Yukon and Alaska along the Tintina Fault. Massive sulphide mineralization is hosted by upper Devonian volcanic rocks at Fire Lake as well as in other districts throughout YTT.

The mineralization at Kona is hosted by metamorphosed volcanic rocks and exhibits some features typical of the volcanogenic massive sulphide (VMS) deposit type. Disseminated chalcopyrite occurs with massive pyrite (grades up to 2.0% copper and 4.0 g/t gold) or massive magnetite (grades up to 0.5% copper and trace gold) in showings 700 metres apart along an electromagnetic conductor. The mineralized horizon is an iron formation made up of sulphide, oxide and silicate facies within enclosing chlorite schist. The mineralization of the showings and drill hole intersections appears typical of distal type mineralization. Stringer type and high grade mineralization have only been located in float.

The results of the geological, geophysical and geochemical surveys on the property indicate an extension of the previously explored mineralization one kilometre to the northwest. The iron formation is a continuous electromagnetic conductor with an associated strong magnetic response. Geochemical soil samples are anomalous in copper (up to 1736 ppm) in several sub-parallel trends along a moderate overburden covered slope in an area underlain by the middle Devonian volcanic unit.

The total cost of the 1991 field program between May and October is $284,000 which includes office work and computer time.

3. RECOMMENDATIONS

Placer Dome Inc. has returned the Kona property to the owner, Welcome North Mines Limited. No further exploration is recommended by PDI.

4. PROPERTY DEFINITION

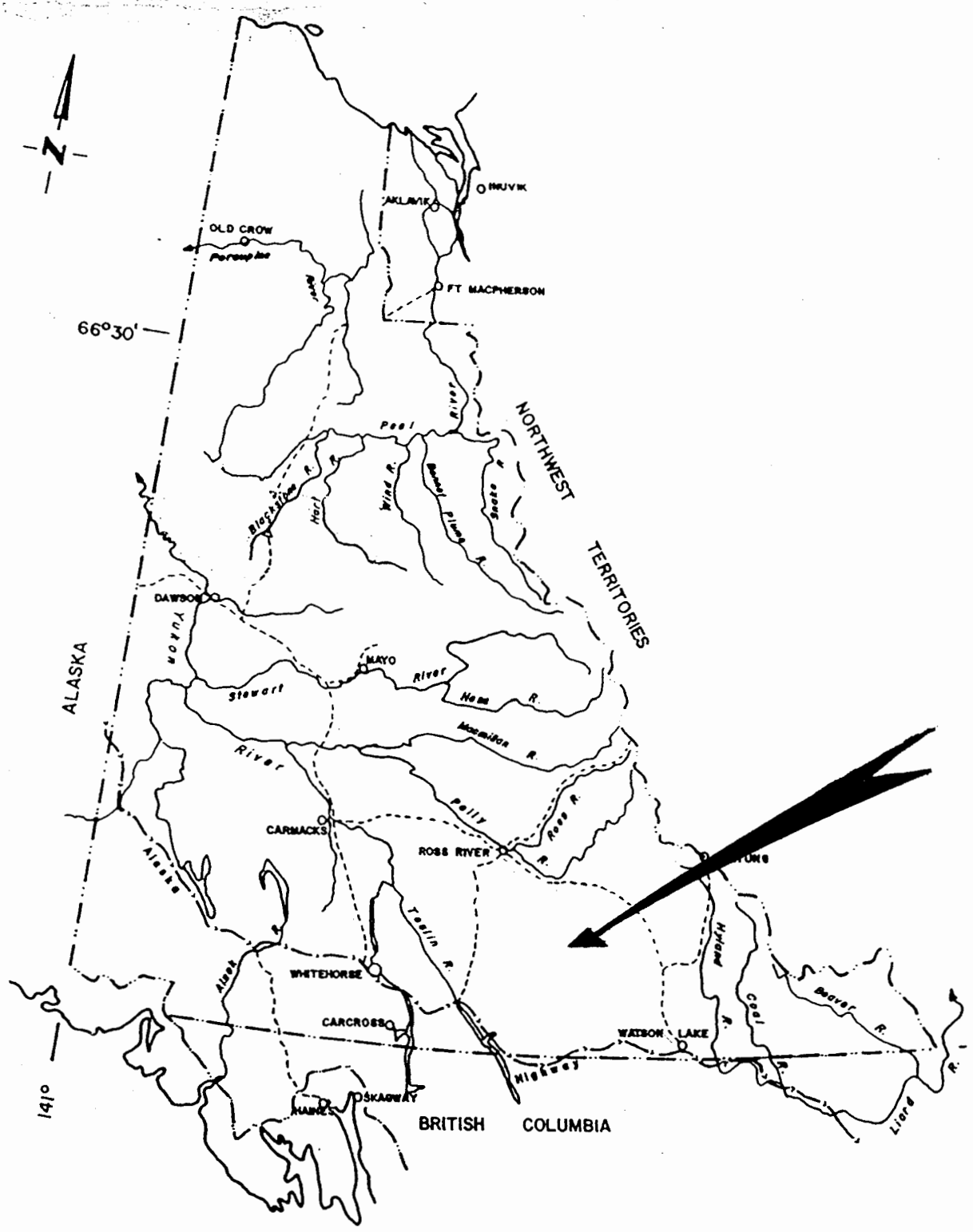
4.1 LOCATION, ACCESS and TOPOGRAPHY Figure 1. Location Map

The Kona property (Fire Claims) is located immediately east of Fire Lake on NTS map sheet 105 G/1/2/3/4 in the Watson Lake Mining District. Approximately centred at 61° 14' N and 130°30' W. Fire Lake is 160 kilometres by air northwest of Watson Lake, 140 kilometres southeast of Ross River, and 250 kilometres east of Whitehorse, Yukon. Access to the property is by fixed wing aircraft or helicopter. Fire Lake is five miles long with excellent approaches and is therefore readily accessible to a wide variety of aircraft on floats in summer or skis in winter. Charter fixed wing aircraft are available in Watson Lake, Whitehorse and out of Finlayson Lake along the Robert Campbell highway north of Fire Lake. Helicopters are also available in Watson Lake, Whitehorse and Ross River.

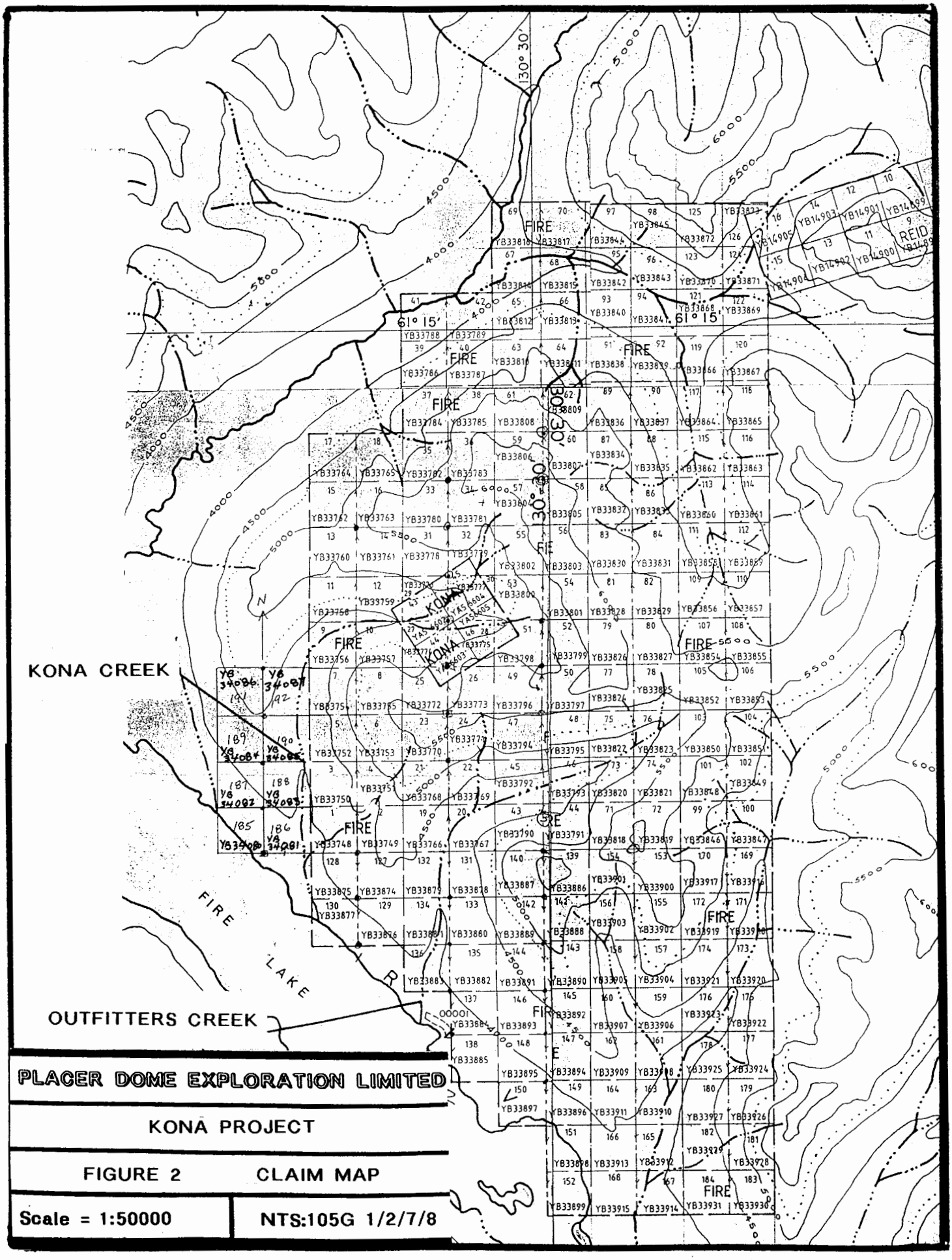
The property is moderately mountainous encompassing two main hanging valleys with broad open cirques which trend east-west in the centre of the property. There are three east-west ridges which form steep north facing cliffs and have moderate vegetation covered south slopes. A high north trending ridge joins the two northern east-west ridges on the eastern portion of the property.

The lake elevation is approximately 1100 metres, the cirque floors are at approximately 1500 metres elevation and peaks range above 1900 metres elevation. The mineralized showings are at approximately 1450 metres elevation. The lower western ridges overlooking Fire Lake range from 1600 to 1700 metres elevation.

The north hanging valley which hosts the Kona mineralization is called Kona Creek and the central valley is called Outfitters Creek. The south draining creek in the southern portion of the property has not been named.



PLACER DOME EXPLORATION LIMITED	
KONA PROJECT	
FIGURE 1	LOCATION MAP
Scale = 1 : 6,336,000	NTS: 105 G 1/2



PLACER DOME EXPLORATION LIMITED

KONA PROJECT

FIGURE 2 CLAIM MAP

Scale = 1:50000 | **NTS:105G 1/2/7/8**

4.2 MINERAL CLAIMS Figure 2. Claim Map

The property is composed of a total of 196 Yukon Quartz Mining claims. Four Kona claims (43 - 46 inclusive) were staked by Welcome North Mines Ltd. and recorded on September 9, 1980. The Fire claims (1 - 184) were staked Placer Dome Inc. and recorded on December 31, 1990. Eight Fire claims (185 - 192) were added by Placer Dome Inc. on July 10, 1991.

The Table 1 contains the most recent status of the claims:

CLAIMS	GRANT No.	EXPIRY DATE
Kona 43-46	YA56602 to YA56605	Sept. 9, 1992
Fire 1-184	YB33748 to YB33931	Dec. 31, 1992
Fire 185-192	YB34080 to YB34087	July 10, 1992

Application for assessment credits of five years renewal for each claim has been filed for the 1991 property work.

4.3 HISTORY

The original discovery on the property was made by prospectors working for Cassiar Asbestos Corp in the fall of 1960. A large boulder of massive sulphide was located on a glacial esker near the south end of Fire Lake at an elevation below 1300 metres. This was quickly followed by the discovery of the massive pyrite mineralization in Kona Creek called the "E" zone. Cassiar staked the property during the fall and winter of 1960 as the Top claims. The property was further explored by Cassiar in 1961 by prospecting, geological mapping, geophysical surveys, trenching and drilling. Drilling consisted of 23 shallow packsack drill holes (224 metres) and 12 AX diamond drill holes (528 metres). These efforts were concentrated on the "E" and "K" zones in the cirque floor.

Atlas Explorations Ltd. staked the property in 1966 as the Dub claims. Atlas carried out an airborne survey in the northern cirque and along the west facing slopes overlooking Fire lake. Atlas identified two areas Dub I and Dub II for follow up ground geophysical surveys. The Dub II grid was made up of 31.5 kilometres of cut line which was surveyed with horizontal loop electromagnetic (HLEM) equipment, magnetometer and soil sampling (copper, zinc and lead) in the north area. Five diamond drill holes (589 metres) were completed in 1966 on the Dub II grid to test the "I" and "K" zones. Core from portions of three of the drill holes is stored at the Hugh Bostock Core Library in Whitehorse. The Dub I grid consisted of 15.5

kilometres of cut lines which were surveyed by HLEM, magnetometer, soil sampling (copper, lead and zinc) and diamond drilled in 1967; three holes for a total of 252 metres.

Amax Potash Limited staked the area in 1976 and conducted geological mapping and surface sampling of the "E" zone mineralization and surrounding area.

Welcome North Resources Inc. acquired the Kona claims in 1980 as part of the Basin Joint Venture with Esperanza Explorations Ltd. Welcome North extended the soil sampling coverage from the cirque area and completed a geological study without additional mapping.

Placer Dome Inc. optioned the Kona claims and added the Fire 1 to 184 claims in December of 1991. Prior to formal signing of the option agreement PDI undertook a helicopter airborne survey covering a 30 square kilometre area roughly centred on the showing area in Kona Creek. Dighem Surveys and Processing Inc. were contracted to carry out the survey and produced an interpretation with a report which included EM, Total Field Magnetic, Calculated Vertical Gradient, Resistivity and VLF-EM maps.

The present exploration program was designed to follow up on the airborne survey results and to further test and confirm the anomalous geochemical areas.

Mapping by the Geological Survey of Canada (GSC) was originally carried out by Wheeler, Green and Roddick in 1958 and 1959 and published in GSC Map 8-1960. Templeman-Kluit also of the GSC remapped the area from 1974-1977 and published the results in GSC Open File 486.

J. Morin of the Geology Section Department of Indian and Northern Affairs reported a geological and geochemical study on the mineralization at Fire Lake and several other showings in the district in the 1979-80 Yukon Geology and Exploration publication in 1981.

The GSC sponsored The Regional Stream Sediment and Water Geochemical survey of the Finlayson Lake Map Sheet (105 G) in 1987 and the results were released in GSC Open File 1648 in July 1988.

J. Mortensen of the GSC in conjunction with earlier studies with Cyprus Anvil Mining Corporation has published a number of articles and papers regarding the Evolution of the Yukon-Tanana Terrane in southeastern and western Yukon since 1985. These studies have relied on extensive age dating to help determine structural relationships.

5. ECONOMIC ASSESSMENT

The mineralization on the Kona property is hosted by Devonian age volcanic rocks of intermediate to mafic composition. The enclosing rocks are chlorite-biotite schist which are interpreted to be in the proximal to inner-distal facies rocks of a paleovolcanic complex. The definition of this setting includes the presence of abundant fine grained tuff transitional from a sequence of interbedded flow rocks and lesser tuff beds. The setting is located on the lower slopes of a stratovolcano and could be on the order of five to ten kilometres from the central facies of the volcano. Felsic volcanic rocks consisting of rusty weathering buff coloured quartz-sericite schist occur within the mafic to intermediate sequence.

The setting of the occurrence is interpreted as a volcanogenic massive sulphide (VMS) type deposit from the close association with metavolcanic rocks and the apparent stratigraphic nature of the horizon. The sulphide mineralization is associated with a laterally extensive iron formation. Mineralized showings have been located along a 700 metre trend and the horizon can be traced for another kilometre by geophysical and geochemical methods. Oxide facies iron formation (massive magnetite) occurs in outcrop at the "I" zone showing in the north fork of Kona Creek. Sulphide iron formation (massive pyrite) outcrops in the south fork of Kona Creek at the "E" zone. A fine grained grey quartzite bed is associated with the "E" zone massive pyrite mineralization and also was intersected in the "K" zone where it is bound above and below by banded quartz-magnetite iron formation. Silicate iron formation was intersected in drill holes down dip of the "I" zone magnetite showing. Cherty "exhalative" horizons have been mapped stratigraphically above and laterally along the iron formation horizon.

Disseminated chalcopyrite and sphalerite occur with all facies of the iron formation but the best economic potential is in the massive sulphide mineralization. The massive sulphide overlies oxide facies iron formation at the "E" zone and pyrite occurs as boulder sized "concretions" in the magnetite zone at site B2387 on the steep slope southeast of the "E" zone. The pyrite mineralization is typical of distal mineralization associated with VMS type deposits. Only weak chloritic alteration is suggested in the metavolcanic and metasedimentary rocks underlying the oxide and silicate facies iron formation of the "K" and "I" zones. Gold is closely related to chalcopyrite within the sulphide facies iron formation.

Proximal type VMS mineralization is indicated in float located below the fork in Kona Creek where stringers of chalcopyrite occur in siliceous pyrrhotite boulders. The results of the soil sample survey indicate that the soils overlying the iron formation up slope from the pyrrhotite float boulders have an increased magnesium and aluminium content possibly reflecting chlorite and sericite alteration of the underlying rocks. There is an associated low sodium content of the soils which

could indicate sodium depletion of the underlying rocks. These chemical features are typical of footwall alteration in the proximal area of VMS deposits.

The best explored VMS deposits in YTT are the Kuroko massive sulphide deposits in the Delta district of Alaska. The district hosts a number of occurrences within a metamorphosed Devonian basalt to trachyite suite of flow, tuff and tuff breccia and associated metamorphosed sedimentary rocks. The largest deposit is 18 million tonnes grading 0.3 to 0.7 % copper, 3.0 to 6.0 % zinc, 1.0 to 3.0 % lead, 34.0 to 100.0 g/t silver and 1.0 to 3.4 g/t gold.

6. REGIONAL GEOLOGY

Figure 3. Regional Geology (after Mortensen, 1985)

The Kona (Fyre) occurrence is hosted by an Early Palaeozoic metamorphosed volcano-sedimentary assemblage within the YTT. The YTT is an exotic terrane that was accreted to the North American continent, in place by Late Triassic time. In the Fire Lake region the YTT is bounded to the southwest by the Tintina Fault and to the northeast by the Finlayson Lake Fault zone (Mortensen, 1985). The rocks of the YTT are strongly deformed and metamorphosed.

Several distinct lithologic packages have been identified in the region by various workers:

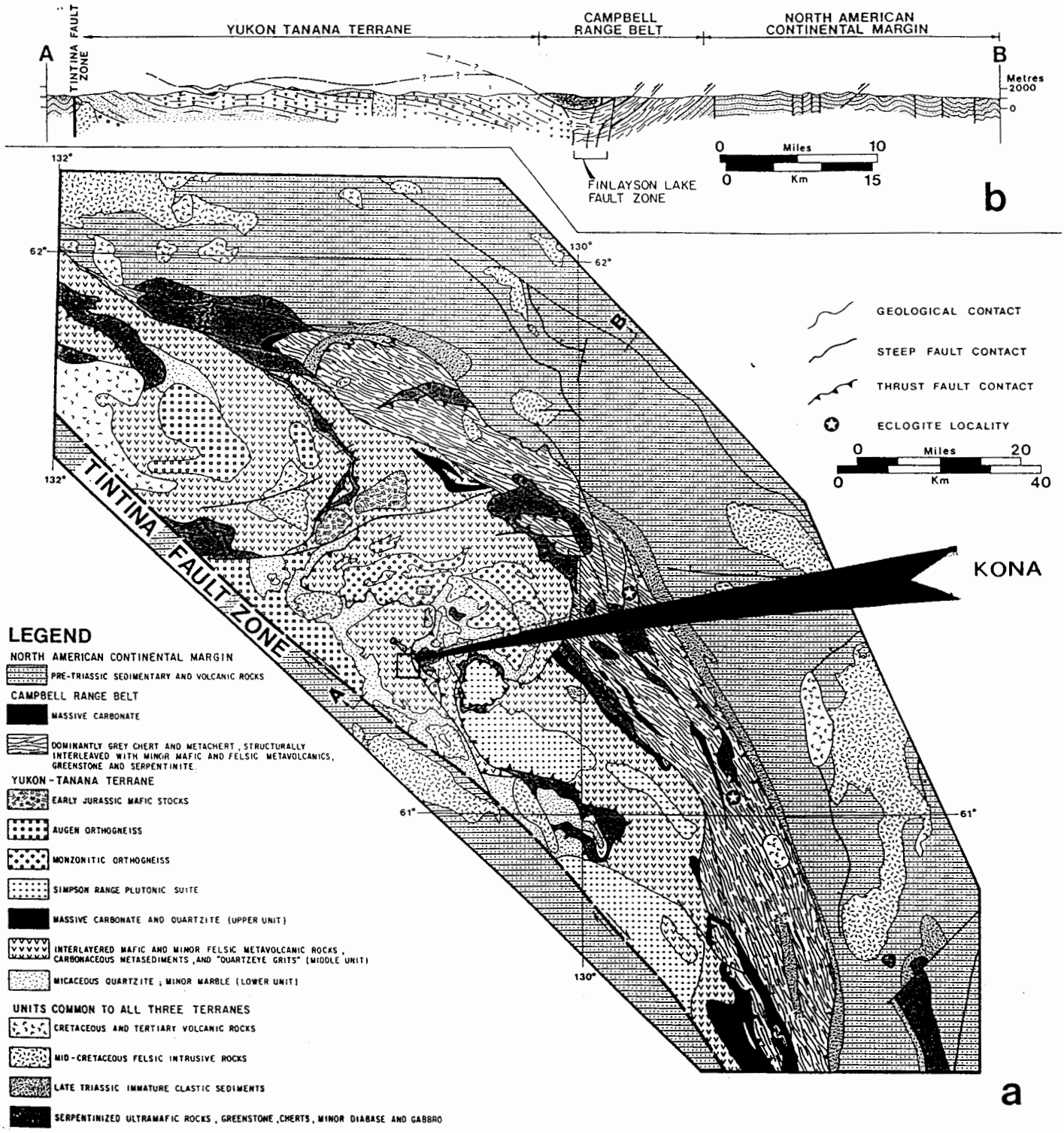
1). A penetratively deformed layered metamorphic sequence (LMS) previously known as the Nasina Quartzite and Klondike Schist.

2). A group of Palaeozoic plutonic and metaplutonic rocks.

3). A sheared mafic-ultramafic igneous assemblage; a dismembered ophiolite sequence mapped as the Anvil-Campbell Allochthon (Tempelman-Kluit, 1977) and now included in the Slide Mountain Terrane (Monger,1984).

4). Cretaceous to Tertiary volcanic/sub-volcanic and plutonic rocks.

The Kona occurrence is hosted by the Early Palaeozoic volcano-sedimentary assemblage of the LMS which has been intensely deformed and metamorphosed. The LMS is made up of three units with a total thickness estimated to be three kilometres. The lower unit of Pre-Devonian age is made up of metasedimentary rocks. The lower unit metasedimentary rocks are predominantly micaceous and commonly feldspathic quartzite with carbonate beds in the upper portion of the unit. The middle unit is composed of interlayered metavolcanic and metasedimentary rocks. The middle unit metasedimentary rocks are distinguished by the presence of carbonaceous material and the predominant rock type is dark grey carbonaceous siliceous siltstone. The metavolcanic rocks include mafic beds



Generalized geologic map (a) and cross section (b) of study area. Note that main metamorphic foliation (shown by formlines in b) is parallel to compositional layering and subparallel to major thrust surfaces shown. Scale of cross section is twice that of map.

Figure 3. Regional Geology Map Yukon Tanna Terrane Southeastern Yukon Territory. After Mortensen.

of green schist composed primarily of chlorite and commonly biotite, epidote and actinolite. The felsic metavolcanic rocks weather tan or rusty in outcrop and are commonly associated with potash feldspar porphyry. The volcanic rocks have been dated at various localities to be of Devonian age. The upper unit of the LMS consists of light grey limestone interbedded with calcareous quartzite and has been dated as being from Early Pennsylvanian to Early Permian in age.

Primary features within the LMS have been obliterated by the intense ductile deformation during Late Triassic to Early Jurassic time. The penetrative foliation which contains a streaking lineation is parallel to compositional layering. From regional mapping in the YTT Mortensen has interpreted the LMS to represent transposed stratigraphy.

There are three suites of metamorphosed Mid-Palaeozoic plutonic rocks in the region. The Simpson Range plutonic suite, ten kilometres to the southeast of the Kona, is composed of quartz monzonite to quartz diorite in a large fault bounded stock. The wall rocks of the intrusive are pyritized and form prominent gossans in the area. Elsewhere, augen orthogneiss and monzonitic orthogneiss complete the package of the metaplutonic rocks.

Sheared mafic and ultramafic volcanic and plutonic rocks of the Slide Mountain Terrane (Anvil-Campbell Allochthonous Assemblage) overly the LMS and are preserved as klippen at elevations above approximately 1400 metres. The allochthonous assemblage has been interpreted as a dismembered ophiolite sequence and is made up of massive greenstone with associated sediments, mafic and ultramafic gabbroic rocks and serpentine matrix melange. The age of the assemblage ranges from Late Devonian to Late Pennsylvanian-Early Permian based on fossil dating.

Late Cretaceous (91 Ma) quartz monzonite plutons intrude all older rock units in the region. Typically the intrusive bodies are elongated and cover an area of 50 to 100 square kilometres.

The youngest rocks in the region are Late Cretaceous or early Tertiary unfoliated dark mafic volcaniclastic and volcanic flow rocks.

Two phases of deformation with regional metamorphism are recognized in the region (Mortensen,1985). The earliest and most pervasive episode affected the LMS and the Palaeozoic metaplutonic rocks which resulted in a well developed shallow dipping foliation (F_1) accompanied by regional middle greenschist to middle amphibolite metamorphism. The F_1 foliation typically parallels compositional layering and in coarse grained protolithic rocks is accompanied by a stretching lineation.

The second phase of deformation has only local affects in the region which involved strong crenulation cleavage accompanied by middle greenschist facies metamorphism.

The YTT has been extensively imbricated by regional scale thrust faults. Mortensen and earlier workers identified six major thrust faults in the region. The faults are cut by mid-Cretaceous intrusions and postdate Late Triassic strata.

7. GEOLOGY OF THE KONA PROPERTY Figure 4. Geology Map

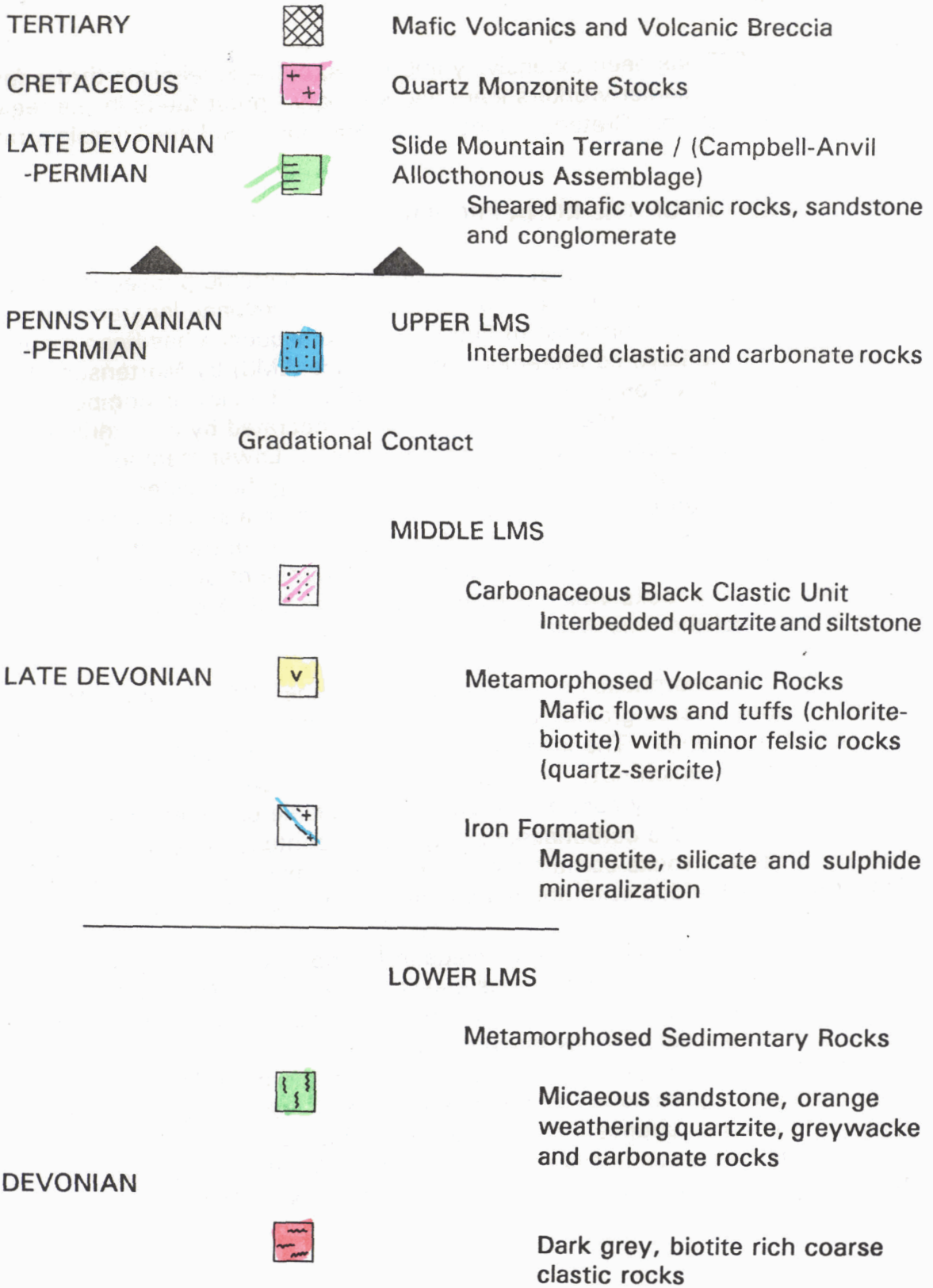
The property is underlain by a sequence of metamorphosed sedimentary rocks with a complex metamorphosed volcanic assemblage located in the cirque area two kilometres northeast of Fire Lake. The sequence has been mapped regionally as the Layered Metamorphic Sequence (LMS) by Mortensen, 1985 or the Klondike Schist by Templeman-Kluit et.al., 1977. The LMS is composed of three units; lower and upper metasedimentary units separated by an interlayered metamorphosed volcanic-sedimentary middle unit. Lower member metasedimentary rocks outcrop predominantly along the western side of the property and a belt of metamorphosed mafic volcanic and carbonaceous clastic sedimentary rocks of the middle member occupy the centre of the property. The eastern portion of the property contains a thin wedge of upper unit metasedimentary rocks which is overthrust by the Slide Mountain Terrane (Anvil-Campbell Allochthonous Assemblage).

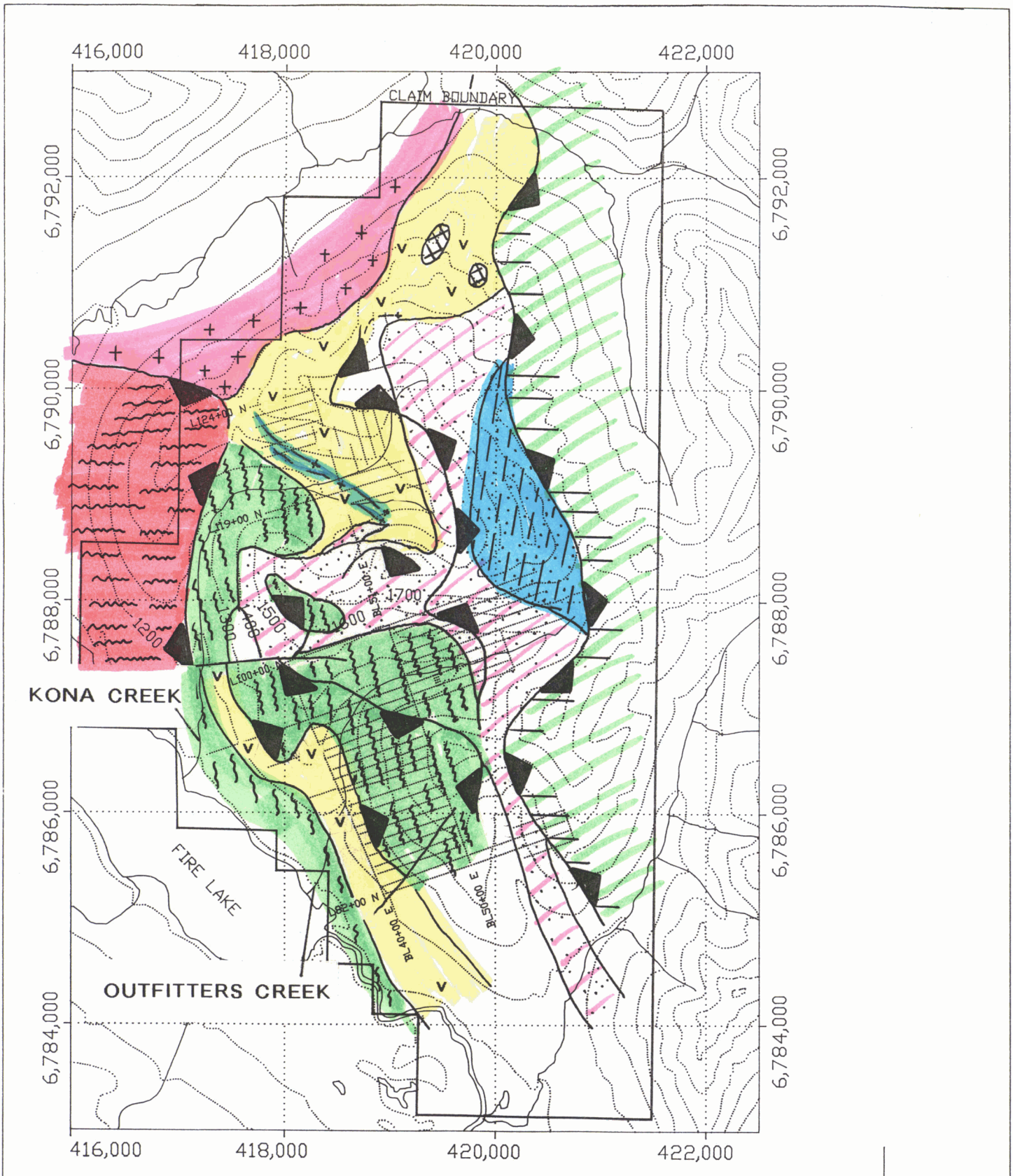
The metamorphosed sedimentary units of the LMS originated from predominantly coarse grained clastic rocks with minor carbonate beds in the upper section of both units. The lower unit protoliths were primarily sandstone to grit and greywacke which now form prominent resistant cliff outcrops in the western portion of the property east of Fire Lake. The middle unit metasedimentary rocks are distinctive for the carbonaceous to graphite content. The upper unit metasedimentary rocks contain moderate thick beds of light grey to white limestone interbedded with dolomitic quartzite or siltstone beds.

The complex volcanic assemblage in the north cirque area intertongues with and is overlain by the carbonaceous clastic unit of the middle LMS unit. The volcanic assemblage is made up of interbedded massive basalt to andesite flow rocks and well foliated thinly laminated tuff typical of a proximal facies volcanic sequence. The dark green mafic rocks in the southern portion of the property are predominantly argillaceous thinly banded tuff with lesser massive hornblende bearing flow rocks suggesting an inner-distal type volcanic facies. Massive sulphide mineralization is associated with well foliated chlorite biotite schist in the floor of the cirque within the volcanic proximal facies setting.

Figure 4a

GEOLOGICAL LEGEND





PLACER DOME EXPLORATION LIMITED

DRAWN BJR	KONA PROPERTY
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FIGURE 4	NO. PLATE

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KILOMETRES

The units have a well developed penetrative foliation or cleavage which closely reflects the primary bedding. The sequence is generally very shallow dipping and there is no evidence for large scale isoclinal recumbent folding so younger rocks overly older ones unless the sequence is repeated by large scale or internal thrust faulting.

7.1 LITHOLOGIC UNITS Figures 5 & 6 Geology maps North and South

7.1.1 Pre-Devonian Lower LMS.

The oldest rocks are composed of dark grey grit and massive bedded quartzite. The clastic rocks exposed at lower elevations immediately east of Fire Lake are dark biotite rich well bedded metamorphosed sandstones and grit beds. These rock units appear to be thrust eastward against the cliff exposures of massive thick bedded dull grey weathering quartzite. The sequence grades upward to moderately thick well bedded orange weathering micaceous sandstone and capped by well laminated lustrous tan to buff weathering phyllite on the lower western peaks at elevations ranging from 1650 to 1700 metres. These rocks have been overthrust on upper levels of the lower unit LMS which is a very light weathering pale green carbonate rich sequence which includes marble beds. The carbonate rocks outcrop in Kona creek below the forks and near the 40 East Tie Line (ETL) around 100N. These outcrops are at elevations just below 1400 metres but are stratigraphically higher than the lustrous weathering phyllites that cap the ridge.

7.1.2 Upper Devonian Middle LMS.

The volcanic assemblage is dominated by chlorite rich mafic tuff and flow rocks with local rusty weathered felsic tuff composed of thin platy quartz-muscovite schist. The mafic tuff forms very thin platy well foliated beds which locally show wavy and irregular schistosity. The mafic to intermediate flow rocks are thick bedded sometimes massive or porphyritic but generally foliated grey green weathering quartz-feldspar-chlorite-hornblende schist/gneiss. Relict pillows are present at several localities in the thick bedded volcanic horizons. The well foliated chlorite-biotite schist (tuffaceous rocks) are generally recessive but are exposed with the resistant prominent beds of the flow rocks which form prominent cliffs on the north slope overlooking the river valley north of the property.

The black clastic unit is a distinct rusty weathering black carbonaceous argillite to siltstone or quartzite with a well developed slaty cleavage. The talus varies from platy to flaggy. The fine grained black clastic rocks commonly contain fine grained disseminated pyrite and occasionally are graphitic. Minor thin bedded platy buff sandstone beds occur within the section. The well developed cleavage can be seen as conformable to primary bedding where colour or grain size variations in the beds is seen. The unit is generally very siliceous and the streaking lineations are common on the cleavage (S_1 foliation). Although the unit forms prominent cliffs at several locations the unit is usually recessive and solid outcrop is not particularly common.

7.1.3 Pennsylvanian-Permian Upper LMS.

The black clastic rocks of the middle Unit become calcareous with thin interbedded well foliated white limestone beds and occasional dark green basalt flows up section into the Upper unit of the LMS. The transition appears gradational along the central ridge east of the Kona cirque. The dominant lithology is light brown weathering dolomitic sandstone which caps the east ridge. A prominent but discontinuous light grey limestone bed occuring within the section indicates the presence of Upper LMS rocks.

7.1.4 Late Devonian-Permian Slide Mountain Terrane (Anvil-Campbell Allochthonous Assemblage).

The lithological assemblage includes well foliated greenstone, sandstone and quartz pebble conglomerate. A distinct orange weathering quartz-carbonate horizon with green chromium mica (the Bubble Gum Formation) occurs in the lower portion of the allochthon and has been mapped regionally. The unit outcrops along the southern ridge south of line 98N and the 60 ETL.

7.1.5 Mid-Cretaceous Quartz Monzonite.

A large pluton of light grey weathering equigranular medium grained biotite quartz monzonite has invaded the sequence north of the property. The southern contact of the pluton outcrops on the lower north slope of the northern ridge. Small sill like bodies commonly less than two metres thick although occasionally up to five metres occur within the enclosing chlorite schist in the contact zone.

7.1.6. Cretaceous to Tertiary Mafic igneous rocks.

Massive dark green to dark grey, orange weathering fine grained mafic volcanic rocks outcrop in the extreme northeast cirque on the property. The rocks are not foliated and appear as coarse breccia on weathered surfaces. Unusual surface weathering features include mottling and pseudo-mudcracks. The rocks form patchy but extensive outcrops along a ridge within the cirque and persist over a vertical interval of greater than 100 metres.

7.2 STRUCTURAL GEOLOGY

The rocks of the LMS have undergone an intense phase of deformation and metamorphism F_1 (Mortensen, 1985). There are two main fabric elements with F_1; one is a penetrative foliation S_1 and the other is a lineation L_1 which is contained along the S_1 foliation. The S_1 foliation is parallel to compositional layering and is defined by the conformable bands of new growth micas, actinolite and chlorite in the mafic rocks and ribbons of stretched quartz bands in the quartz rich sediments and felsic units. The L_1 lineation is defined by mineral streaking along the foliation surface. The S_1 foliation is used as a substitute for bedding plane measurements and the L_1 measurements are used to define direction and plunge of deformation. The schistosity measurements on the property are consistent with the shallow easterly dipping regional trend. Structural lineations are shallow plunging in a general southeasterly direction also consistent with the measurements recorded in the area.

7.2.1 Faults.

Regional scale thrust faulting is prominent in the area and evident on the property. Internal thrust faults have been mapped within the YTT rocks (LMS) as well as at the emplacement of the Slide Mountain Terrane.

There are two regional scale thrust faults on the property. The first defines the property in the west by moving Lower unit metasedimentary rocks over other Lower unit rocks and juxtapositioning with Middle unit rocks. The second thrust fault positions the Allochthonous Slide Mountain Terrane rocks on Middle and Upper unit LMS rocks and covers the eastern part of the property. The Lower unit thrust in the west and the Slide Mountain sheet in the east are separated by a irregular belt of Middle unit rocks through the central portion of the property. The Lower unit thrust fault is defined

from air photo lineations, structural interpretations and by aero-magnetic survey results. The overthrust units have higher background magnetic signature than the underlying rocks. The fault zone in the sole of the thrust has a strong EM anomaly associated with a intense magnetic high which is probably related to intense shearing or mylonitic textures. The Slide Mountain Terrane thrust is well defined by a distinct change in lithologies and also indicated by a near linear series of magnetic lows on the airborne survey maps.

Small scale thrust faults are indicated within the LMS units (especially the Middle unit) with the most prominent mapped in a series of isolated resistant outcrops of intensely sheared chlorite schist where shallow dipping sharp breaks occur within chaotic foliated siliceous schist. Malachite staining occurs as local patches along the fault where quartz, chalcopyrite +/- graphite occurs as stringers or nodules of up to several feet across. The outcrops form a discontinuous "necklace" of outcrops along a gently dipping horizon within the chlorite schist of the Middle unit. The fault has been interpreted to continue in the black clastic of the Middle unit but is exposed only in one locality where an alteration zone occurs but is indicated at other areas where noticeable dip changes across the fault have been noted. The fault zone is visible on the air photos where it crosses the central ridge and the southern extension is indicated by the strong conductor on the ground geophysics through the central Outfitters Creek valley.

Small scale steeply dipping normal faults emanate from the northeast cirque where the Cretaceous to Tertiary age unfoliated mafic pyroclastic rocks have been mapped. The faults have a well developed rusty weathering alteration zone of 2-3 metres flanking a central narrow quartz-carbonate vein. The veins have sharp well defined contacts and occur in linear zones which persist up to one kilometre from the northeast cirque.

7.3 ALTERATION

The greenschist facies metamorphic minerals chlorite and biotite are common in the volcanic and sedimentary rocks on the property. Biotite is most commonly associated with sedimentary argillaceous rocks and chlorite is abundant in the mafic volcanic rocks. Sericite occurs in the felsic lenses in the volcanic sequence.

Hydrothermal alteration has not been well documented except that weak chloritic alteration appears to occur in the footwall rocks of the iron formation magnetite and pyrite. These rocks are of original mafic composition and the chloritic alteration reported may be mainly metamorphically derived. The rusty weathered outcrops on the north cliff face near 130N on the 51 East Base Line (EBL) (Sample No.B2427) appear to be typical of other felsic volcanic occurrences on the property but are mineralized with chalcopyrite as well as pyrite and contain abundant chlorite which may be a result of hydrothermal alteration.

7.4 MINERALIZATION Figure 7. Mineralized Occurrences

Massive sulphide mineralization has been located in outcrop and an extensive boulder train in the south fork of Kona Creek on the floor of the main cirque. The location is in the central portion of the property identified as zone "E" on the figures. The sulphide zone is along a trend which aligns with a massive well laminated magnetite showing in the north fork of Kona Creek, zone "I" on the figures. Other mineralized occurrences include a pyrite-magnetite-quartz intersection in drill hole 66-3 known as the "K" zone and a 1 to 1.5 metre horizon on the north facing ridge northeast of the main cirque which includes disseminated pyrite and chalcopyrite in grey siliceous bands of 25 to 35 centimetres at the "J" zone. Silicate iron formation has been found in float at the "M" zone on the hill side overlooking the magnetite iron formation at the "I" zone location.

The mineralization of the separate zones appear to represent different facies of a continuous iron formation. The facies include oxide, silicate and sulphide which coexist laterally and vertically in the formation. The main horizon which includes the "E" zone sulphide and "I" zone magnetite showings can be traced on the airborne geophysical survey plots for 1700 metres along a northwesterly trend. A least one kilometre of the trend northwest of the "I" zone has not been tested except by geochemical and geophysical surveys. The mineralization of the "K" zone may be a lower horizon or likely a structural repetition of the main horizon separated from the "E" zone mineralization by a shallow thrust fault. The "J" zone horizon may also be laterally equivalent to the main horizon as there is a thrust fault separating the two horizons. Although the "J" zone mineralization immediately overlies a very thin felsic horizon and the main zone mineralization is underlain by chlorite schist of original mafic composition.

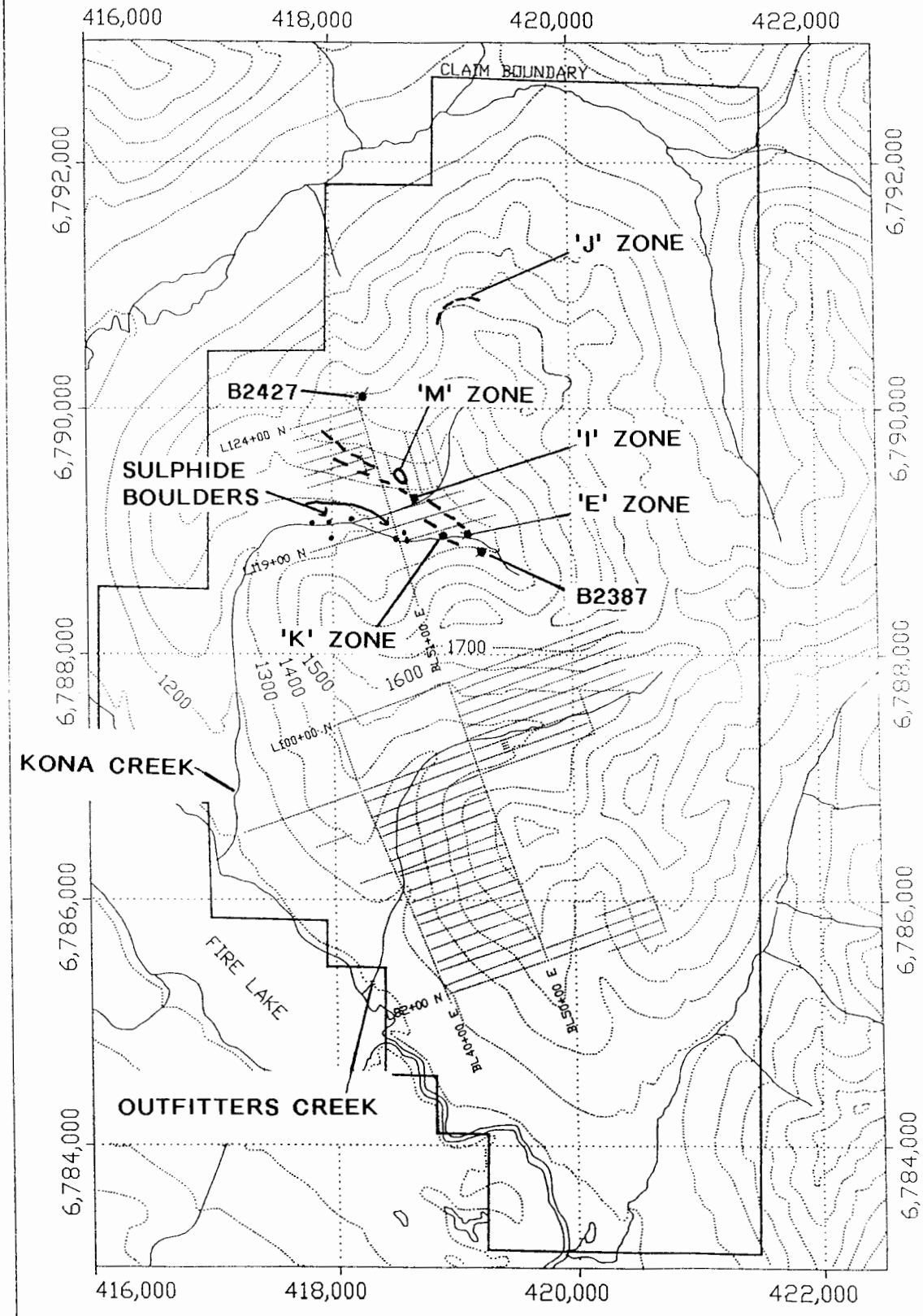

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FIGURE 7	NO. PLATE

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KILOMETRES

Mineralized float of all mineralization types occurs along the north slope of the cirque below the geophysical anomaly especially along the creeks above the fork and in the main creek below the fork for approximately 500 metres. Of particular interest were siliceous boulders of massive pyrrhotite with fine chalcopyrite stringers which represent possible proximal style mineralization. This material graded 2.5 % copper and 2 g/t of gold.

8. MINERALIZED SHOWINGS Figures 5 to 7. Geology and Mineralization

8.1 MASSIVE SULPHIDE "E" ZONE

The near solid sulphide mineralization at the "E" zone is composed of up to 90 % fine grained pyrite with minor chalcopyrite and sphalerite. Fine grained blue grey quartz occurs as the main gangue mineral which compromises up to 35% of the sulphide in the upper portion of the zone. A heavily oxidized layer consisting of abundant limonite occurs at surface overlying the upper bed of quartz rich mineralization. The massive pyrite with chalcopyrite and sphalerite is in part well foliated and partially massive in texture. Well foliated quartz-chlorite-magnetite schist underlies the massive sulphide horizon. Drill holes through the mineralization (Cassiar Asbestos, 1961) intersected a maximum thickness of 11 metres but all holes collared directly in the mineralization. The mineralization intersected in drill hole 66-3 (Atlas Explorations, 1966) was composed of a grey fine grained quartz-pyrite zone with a banded quartz-magnetite bed above and below the sulphide zone. The zone has a total thickness of 12.5 metres.

8.2 MASSIVE MAGNETITE "I" ZONE

The "I" zone magnetite showing of oxide iron formation grades laterally to silicate iron formation intersected in drill holes 66-1 and 66-5a (Atlas Explorations, 1966). Magnetite in the silicate iron formation occurs in thin black bands composing up to 25 % of the formation which is predominantly glassy light grey to white quartz. Minor disseminated chalcopyrite occurs with the magnetite or disseminated in the quartz. The drill holes collared in the formation at the base of the overburden, recovery was poor in 66-5a and the intersection in 66-1 was approximately seven metres. The "I" zone mineralization grades upward into well foliated chlorite-magnetite schist. The exposure in outcrop indicates an overall thickness of greater than ten metres although the massive magnetite horizon is exposed for approximately five metres along the creek bank. The silicate iron formation boulders at the "M" zone location are composed of coarse grained

crystalline quartz with disseminated grains of magnetite, pyrite and chalcopyrite.

8.3 ASSAY RESULTS

The Table 2 is a compilation of selected element analysis for samples collected from the various mineralization types on the property during the present program. The base metal analyses were by ICP and gold was analyzed by a combination AA and fire assay.

There is a good correlation between copper and gold results especially with chalcopyrite and pyrite mineralization.

Table 2

SAMPLE	Au(ppb)	Cu(%)	Zn(%)	Mineralization
2435	3955	2.08	tr	nss E zone
1992	1115	0.05	tr	nss E zone
1993	1055	0.88	1.2	nss E zone
1994	860	0.23	0.03	nss E zone
1995	275	0.14	tr	fw mag E zone
1996	240	0.13	0.03	fw mag E zone
2387	25	0.05	0.06	mag S E zone
2396	185	0.14	tr	vug qtz-py
2431	45	0.28	tr	oxide Fe I zone
2432	15	0.15	tr	oxide Fe I zone
2433	65	0.56	0.03	oxide Fe I zone
2653	113	0.2	tr	sil Fe M zone
2654	467	0.4	tr	sil Fe M zone
2655	1996	2.48	tr	qtz-po
2436	tr	0.18	tr	qtz-cpy J zone
2438	95	1.88	tr	qtz-cpy J zone
2615	35	0.24	tr	qtz-cpy J zone

nss - near solid sulphide

9. GEOCHEMICAL SURVEYS

Geochemical surveys were carried out to sample soils, stream sediment and rocks on the property. The objective of the surveys was to identify potential economic mineralization occurring along stratigraphic horizons within the Devonian volcanic and clastic rocks. The samples were analyzed for a 28 element suite for direct detection of base and precious metal values as well as to determine pathfinder elements or geochemical mapping of rock types. Other elements in the suite provide an indication of the quality of the survey results.

9.1 SOIL SAMPLING

9.1.1 Soil Development, Terrain and Vegetation

Soils on the generally moderate to steep slopes are poorly developed consisting of immature soil lacking distinct horizons. In the middle elevations, soils consist of partially developed B horizon and C horizon material. At higher elevations and on steep slopes, the soil samples were of AC horizon, a lithosol consisting of a thin organic layer overlying rock fragments. Moderately well developed B1 and B2 soil horizons were developed at lower elevations and on shallow dipping slopes or in the floors of the cirques.

The soils in the area are generally well drained although frozen soils were encountered in organic rich soils in heavily forested areas. Vegetation above 1600 metres was primarily caribou moss while a zone of buckbrush and dwarf balsam occupied the slopes to an elevation of 1400 metres below which the slopes were well forested with stands of spruce and poplar trees. Alder and willow thickets occupied creek bottoms and other low lying areas.

9.1.2 Sampling Procedure

Soil samples were collected along the established grid lines throughout the property. The majority of the lines had previously been chained with stations established at 20 metre horizontal intervals. The soil samples were obtained from depths ranging from 10 to 50 centimetres averaging approximately 25 centimetres depending on soil development. Sample sites were selected as close to the established picket as was practical and excavated with shovel or grub hoe. The soil material of approximately 200 grams was deposited in kraft paper envelopes which were labelled with grid coordinates for the location. Field notes using the PDI standard form were recorded at the sample

site and included information on the location, terrain, vegetation, soil horizon and soil composition as well as bedrock and float material present.

9.1.3 Treatment and Presentation of Results Figures 8 to 50.

A total of 1750 soil samples was submitted to the Placer Dome Research Centre for a multi-element ICP and gold geochem analysis. The ICP analysis was for a 27 element suite which included the economic base metals, pathfinder elements, trace element and various mineral forming elements (i.e. Mg, Na, Al, K and P).

The results were entered directly into the PDI computer system by the lab. The files were edited for duplicates prior to statistical analysis. The results for each element were compiled from all areas of the property which included at least three distinct environments based on the underlying bedrock. The statistical analysis was done on cumulative frequency plots (Appendix IV) to determine at least three break points for each element which would provide variable backgrounds and aid in identifying potential anomalous results in all three environments. The results were then computer plotted on 1:5000 scale maps which superimposed the grid locations on the elevation contours and topographical features. Anomalous zones and bedrock trends are easily discernable on the symbol plots which are enclosed in the accompanying pockets. The results are presented on individual plots for the various elements on both the North and South grid maps.

The grid coverage is such that there are three distinct areas with markedly different lithologies in the underlying bedrock. The grid map plots are on two sheets; north and south separated along the central east-west trending ridge at approximately the 6,788,500 N utm grid line. The grid lines north of this utm used an extension of the main grid coordinate system but the coordinate locations were approximated and do not agree with the projected grid coordinates. In the northern area the old Atlas Explorations cut grid lines were used with the present grid coordinate system.

9.1.4 Discussion Of Results

The geochemical results plotted on the northern map sheet cover an area underlain by the metavolcanic rocks of the Middle LMS unit with coverage extending to the underlying metasedimentary rocks of the Lower LMS on the western end of the lines 124 N to 129 N.

The plot of the chromium and copper results best reflect this change in underlying rock type. The deep overburden cover and partial soil horizon development in the floor of the cirque has a contrasting response compared to the moderate slope area of the northern grid. The clay content is generally higher in the cirque soils and there is a broader provenance of the source material which locally includes black carbonaceous clastic rocks.

Only the copper results of the base and precious metal plots (Cu, Pb,Zn, Cd, Ag and Au) gives a dispersion which can be interpreted. Other elements directly related to the mineralization (Fe, As, Co, Bi with Sb and Ni) have a more tenuous correlation to the apparent mineralized trends (nickel is abundant in the oxide facies iron formation). Four important elements (Mg, Cr, Al, and Na) reflect possible footwall alteration products in VMS type deposits. The magnesium and chromium are indicative of possible chlorite alteration as well as indicating underlying mafic rock units. Aluminium is used to indicate the presence of clay in soils and may also indicate clay alteration (sericite) in the underlying bedrock. Sodium depletion of footwall rocks is indicative of VMS type mineralization which may also be reflected in the soils. Other elements such as potassium, calcium, manganese, vanadium, and barium (the aqua regia extraction is not effective for removing barium from barite) not directly related to mineralization are enriched in associated exhalative and/or felsic volcanic rocks. The remaining elements analyzed can not be directly correlated with the mineralization or associated alteration but can provide aids to discriminating between volcanic and various sedimentary rocks (these elements are Be, La, Mo, P, Sr, Ti, V and W of which the major oxides of Be, La, and W are rarely completely dissolved with the aqua regia acid extraction).

On the southern map sheet the soil sample survey covers two separate lithologies. The northeast quarter and the four line southeast grid areas are underlain by Devonian Middle LMS unit carbonaceous clastic rocks. The western half of the main grid is underlain by Lower LMS unit metasedimentary rocks which includes a portion of an over riding thrust sheet. The sole of the thrust sheet overlies Devonian argillaceous mafic tuff east of the 40 ETL.

On the main grid, the base metal distribution in soils, especially lead and zinc along with silver show a broader range of dispersion patterns than on the northern grid in the Kona Creek valley. A total of 240 selected samples on alternating grid lines was analyzed for gold on the main grid. Plots of iron and chromium results have

distributions which are somewhat compatible to the base and precious metal distributions as well as reflecting underlying lithologies. The other elements plotted on the 1:5000 scale maps (Al, Ca, Mg, Mn, Na and P) all have distributions which reflect the underlying bedrock lithologies and can be useful as guides to interpreting stratigraphy and extrapolating geological mapping. The remaining elements have not been plotted on the southern map sheet.

9.1.5 Interpretation Of Results

On the northern map sheet the plots of copper, iron and cobalt produced two coincident anomalies which have incidental arsenic and bismuth anomalous values associated. The two anomalies also have the expected high levels of magnesium and aluminium indicative of chlorite and sericite alteration as well as a large area of low sodium levels in soils in the footwall of the higher anomaly. The large anomaly which occurs at the lower elevation on the hill is roughly coincident with the airborne magnetic/EM anomalies on trend with the mineralized showings in Kona Creek. The upper anomaly has a peak value of 1736 ppm copper on line 129 N at 48+40 E and extends southeasterly to 126 N at 50+60 E with a value of 379 ppm. The peak copper value with the lower anomaly is 380 ppm on line 126 N at 49+00 E. The peak iron in soil values is 12.5 % for the lower anomaly and 34 % for the upper anomaly. The upper anomaly is essentially a single anomalous value on each line while the lower anomaly has a broad down slope dispersion of up to 100 metres. The upper anomaly is approximately located 50 metres stratigraphically above the magnetic associated lower anomaly. The stratigraphic location is roughly coincident with the stratigraphic level of the cherty "exhalite" horizon which occurs in the face of the cliff above the mineralization at the "E" zone. The soil anomaly does have a high calcium level which is similar to the "exhalite" horizon but the correlation is doubtful as the "exhalite" horizon has very low copper, iron and magnesium values and high sodium values. The two anomalies trend southeasterly to the south slope above the north fork of Kona Creek and the upper anomaly projects through the area above the outwash area containing the "M" zone float mineralization. Other anomalous copper values in soil occur up slope near the 51 EBL which do not have the strong coincidence of the other elements.

The soil sample survey results on the cirque floor in the vicinity of the "E" zone indicated the mineralization on the copper plot while other elements tend to exhibit broad dispersion patterns with no readily discernable trends. This may be a result of the localized nature

of the sampling in this area and should be interpreted in the context of the larger scale of the property. The results indicate a strongly anomalous area.

The survey results on the southern map sheet do not indicate the presence of massive copper bearing sulphide or magnetite mineralization. The background levels of copper for the area are much lower than in the northern grid area. A broad anomalous copper trend occurs along the western end of the lines near the 40 ETL south of line 95 N which coincides with the underlying Devonian mafic argillaceous tuff of the Middle LMS unit and is downslope of the thrust fault which has moved Lower LMS unit metasedimentary rocks over the metavolcanic sequence. Detectable gold values in the soils coincide with the anomalous copper in soil on line 88 N. The westerly five soil samples on line 90 N are all yielded detectable gold values (up to 70 ppb).

Background levels of lead and zinc are higher on the southern map sheet than on the northern. Anomalous lead values (greater than 42 ppm) occur in the soils from the areas underlain by the Lower LMS thrust sheet and from the southeast grid extension underlain by carbonaceous black clastic rocks. Anomalous soil samples occur in the area of a local magnetic anomaly and disseminated pyrite in clastic rocks on line 98 N at 44+50 E to 45+50 E. A 300 metre anomalous trend occurs along lines 93 N to 96 N between 48+20 E and 49+00 E. A strong cluster of anomalous soil samples occur on lines 82 N and 83 N south of the northeast trending normal fault dislocating the thrust sheet in the area near 49 E. Scattered anomalous soils are indicated deriving from the black clastic unit on the southeast grid extension. The zinc values generally correlate with the lead anomalies as well as a weak trend along lines 85 N to 90 N between 48 E and 49+60 E.

The silver in soil results correspond to the distributions of the lead and zinc results with a number of anomalous values in the soils below the thrust fault in the area underlain by Middle unit LMS metavolcanic rocks. The lower elevations on the southeastern grid extension has the largest silver dispersion in soils on the property. Other areas of broad dispersion also occur on lower elevations or on moderate slopes including along the 50 EBL near the south end and the west end of line 100 N.

The iron in soil distribution is highest at the upper level of the lower unit thrust sheet at elevations above 1500 metres. The soils

from the southeast extension grid are also rich in iron with numerous samples greater than 5 % this is in contrast to the soils from the black clastic rocks of the middle LMS unit on the northeast portion of the grid.

9.2 STREAM SEDIMENT SAMPLING

A total of seven stream sediment samples was collected from the three main drainages on the property. The analytical results are included in the appendix and locations and relative symbol plots are included on the geochemical grid plots and are noted with open circles. The stream sediments were sampled to test the dispersion downstream of the known mineralization and to test the areas drained by Outfitters Creek and the southern portion of the claims.

The samples were analyzed by ICP for the standard PDI 27 element suite which included the base metal group.

Copper, zinc and iron are highly anomalous in the stream sediments below the mineralized showings in Kona Creek. The high zinc values up to 1651 ppm are in contrast to the generally low levels in the soil samples in the area. There were no anomalies indicated on the other two drainages sampled.

9.3 ROCK SAMPLING

9.3.1 Sampling Procedure

Rock chip samples were collected from outcrops throughout the property with detail sampling of the volcanic rocks in the Kona grid area. Uniform chips of bedrock on the order of 1-2 cm diameter were collected along sample intervals of from 1-2 meters, averaging 1.5 meters, at selected sites. The sites were marked with tyveck tags which were labelled with the sample number and attached with flagging tape at each site. In the Kona grid area the sample intervals were also marked with spray painted lines indicating the sample interval. The samples were collected in plastic sample bags and tagged in the field with sample identification tags from sequentially numbered booklets. The samples were located relative to the various line grids on air photographs of the property and rock lithology and the presence of sulphide mineralization noted. The samples were prepared for shipment in camp and sent to the Placer Dome Research Centre for

a multi-element ICP and gold geochem analysis. The ICP analysis was for a 27 element suite which included economic base metals, pathfinder elements, trace element and various mineral forming metals such as magnesium, sodium, aluminium, potassium and posphorous.

9.3.2 Discussion Of Results

A total of 112 rock chip samples was analyzed with the results plotted on the grid soil geochemical maps. The results were plotted using triangular symbols with the same break points determined for the soil samples. The rock samples were divided into groups based on lithology. Average grades were calculated for each rock type for ten elements which included the precious and base metals. The average results for each element in all lithologies are tabled in the appendix III with individual sample results for all rocks in each group for copper, lead, zinc, silver, gold, iron, calcium, magnesium and sodium attached. The appendix includes the statistics and listing for all samples in each group.

The lithological groups are 1.) sulphide and magnetite, 2.) exhalative, 3.) quartz-sericite, 4.) mafic volcanic, 5.) black clastic, 6.) LMS sedimentary and combined exhalative and quartz-sericite in 7.) felsic volcanic rocks as well as the universal grouping.

The copper assays are significantly higher in the sulphide and magnetite samples than all other rock types averaging 5672 ppm. The felsic and mafic volcanic rock types have anomalous levels of copper while the sedimentary rocks were significantly lower with the exhalative rocks averaging 166 ppm in the mid range of rock types.

Gold values average 391 ppb in the mineralized group with low levels in all other rocks and undetected in the sedimentary rocks.

Lead, zinc and silver values are all at low levels in each of the lithologic types with the sedimentary rocks and the sulphide rich rocks at the highest zinc levels (115-117 ppm). Mean lead values are greatest in the sedimentary rocks at 14 and 31 ppm. Silver levels are greatest in the sulphide rich rocks with a mean value of 1.9 ppm.

Arsenic, bismuth,cobalt and antimony mean values are also greatest in the sulphide rich rocks at 31 ppm, 6 ppm, 107 ppm and 6 ppm respectively.

Iron is highest in the sulphide/magnetite rocks although the mean value is decreased from peak values due to the inclusion of the weaker mineralization from the "J" zone. Lowest values were recorded in the exhalative and sedimentary rocks.

Low mean values of aluminium, calcium, magnesium, sodium, phosphorous, titanium and vanadium were recorded for the sulphide rich rocks. Sodium was also low in the exhalative horizons and magnesium levels in the sedimentary rocks were also below those of the volcanic rocks which was highest in the chloritic mafic rocks. Phosphorous values are elevated in the black clastic unit.

Mean cadmium values were distinctly lower in the exhalative rocks and moderately elevated in the sedimentary and sulphide rich rocks. Potassium values are below average in the sulphide rich rocks and marginally elevated in the exhalative horizons but highest levels are recorded in the LMS sedimentary rock units.

Mean manganese values are highest in the exhalative rocks and lowest in the sulphide rich samples. The manganese values are relatively uniform in the remaining lithological types.

Molybdenum is uniformly low in all units although the mean value of 10 ppm in the Black Clastic unit is double that of all the other types.

Mean nickel values are highest in the mafic volcanic rocks and lowest in the LMS sedimentary unit. The level in the felsic volcanic rocks and exhalative horizons are uniform at 37 ppm. The sulphide rock samples had a mean value of 48 ppm.

The mean strontium value of the sulphide rich rocks is considerably lower than all other units and the level of 50 ppm is abnormally high in the LMS sedimentary rocks.

The elements of barium, beryllium, chromium, lanthanum and tungsten are rarely dissolved with the acid dissolution method used in preparation of samples for the ICP analysis. The partial extraction results do suggest high barium in the exhalative horizon but lowest levels in the sulphide and sedimentary rocks where barite is the likely state of barium in these rocks. Chromium values are, as expected, highest with the mafic volcanic rocks. Lanthanum is highest in the sedimentary rocks.

9.3.3 Interpretation of Results

The sample population for each of the rock types is too small to establish a quantifiable value for each element in each sample group. The results do indicate that there are distinctive levels of various elements within each group to distinguish the different rock types from each other which can be related to the geochemical results from overlying soils. This can be useful as an aid to geological mapping in the overburden covered areas.

The results also indicate that certain units have a direct relationship to the sulphide mineralization. Therefore within each group it may be possible to determine the proximity to economic base metal concentrations. The rusty weathering quartz-sericite felsic volcanic rock samples indicate anomalous copper values within the group on the north ridge exposures stratigraphically above the prominent soil anomalies while the exposures east of the "E" zone mineralization near the head of Kona Creek yielded low background levels for copper.

Systematic sampling and classification of sulphide bearing rocks or exhalative horizons appears to be a practical method of exploration to identify potential mineralized zones on both a property and regional scale.

10. GEOPHYSICAL SURVEYS

The geophysical surveys on the property were carried out under contract by Peter E. Walcott & Assoc. Ltd. during July 1991. The contractor provided a two man field crew and the geophysical instruments used in the survey. The contractor was also equipped with a portable computer and printer capable of providing field plots during the survey.

The main line grid was cut by personnel employed by Coureur De Bois Contracting Ltd. while the Kona grid in the north cirque was re-established by flagging the Atlas Explorations - Welcome North grid of 1966 and 1980. The grids were chained by Placer Dome personnel.

10.1 GEOPHYSICAL EQUIPMENT and DATA COLLECTION

All section lines on the grid were chained and slope corrected by the secant method. The slope measurements were obtained using Suunto

Inclinometers and corrections in the field were determined from tables. Stations were located at 20 metre horizontal intervals using a teflon coated tape. The corrected measurements were read to the nearest hundredth of a meter and a labelled picket installed in the field.

The electromagnetic survey was carried out using an Apex MaxMin EM-II Plus instrument. Readings were obtained for two frequencies (444 Hz. and 1777 Hz.) along section lines at 20 metre intervals. The survey instruments utilized a 100 metre coil separation. The survey covered 32 km of section line on the main grid and approximately three km in the Kona cirque area.

The magnetic survey was carried out using two field and one base station EDA Omni Plus magnetometers. Readings were taken a 10 metre intervals along the section lines of which 31.5 km were on the main line grid and 3.5 km were in the Kona cirque area.

10.2 PRESENTATION OF RESULTS Figures 51 to 56

The results of the EM and magnetic surveys are presented on 1:5000 scale plan maps showing the location of the section lines. The corrected field data readings for the magnetic and electromagnetic surveys are tabulated in Appendix V and Appendix VI respectively.

Profiles of the corrected in-phase and out-of-phase readings in percent for each frequency of the MaxMin Plus survey are plotted along the section lines. The location of the conductors are interpreted on the maps from the profile plots. The location is established by measuring the mid-point distance (50 m) between the receiver and transmitter coils from the point where the in phase profile crosses over from positive to negative readings on both the approach to and movement away from the conductor. In the case of narrow conductors, the mid-point between the two cross overs is chosen. The dip direction of the conductor is determined by the larger of the positive reading shoulders.

The magnetic survey results are posted along the section lines and the total field intensity in nano teslass is contoured on the plan maps. A 20 nano teslass contour interval is presented on the grid maps.

10.3 INTERPRETATION OF RESULTS

10.3.1 MaxMin II Plus

The survey results correlate very well with the airborne interpretation. The survey produced distinctive responses from areas of different underlying bedrock.

In the northeast portion of the main grid the underlying bedrock is carbonaceous to graphitic clastic sediments. Locally narrow beds contain fine grained disseminated pyrite. The EM results produced a strong and distinct anomaly at the contact with the underlying non conductive sedimentary rocks. The carbonaceous rocks east of the contact produced a series of discontinuous and erratic anomalies throughout. The long approach along line 106 N near the 50 EBL is probably the result of the graphitic contact occurring up the steep slope to the north. A two line conductor was located along lines 99N and 100N at approximately 52+50E.

On the southern portion of the main line grid a continuous conductor has been located between 43+50E to 45+00E from line 84N to 100N. This is conformable to the stratigraphy. The conductivity varies along the length of the conductor with peaks on line 86N and 100N. The overburden depths are generally shallow with the maximum depths corresponding to the area of lowest conductivity from 96N to 99N on the 1777 Hz. frequency and absence of the conductor on the 444Hz. frequency. The magnetic survey suggests that the anomaly does not continue through this area but veers sharply to the west. The large positive approach on line 100N is due to the trend of the conductor which curves along the topography of the low lying creek valley and crosses the 40 ETL at 100+50 N.

The stratigraphic nature of the conductor suggests that it is a conformable horizon. The geological units in the area are generally dipping shallowly to the east. The apparent steep dips indicated by the positive shoulders of the readings is a reflection of the steep hill side above the anomaly rather than the actual dip of the horizon. The anomaly is interpreted to be a shallow dipping thrust fault which has moved lower unit LMS rocks on top of upper unit mafic volcanic and carbonaceous clastic rocks which outcrop downslope from the conductor. The thrust fault stops abruptly at its south end between 83N and 84N coincident with an interpreted normal steeply dipping fault zone which trends easterly.

The southwestern portion of the grid reveals positive shoulders along lines 82N to 86N approaching the 40 ETL which indicate a conductor down slope. This conductor is located on the airborne survey and was drilled by Atlas Explorations in 1967. Atlas drilled three diamond drill holes which intersected well banded argillaceous graphitic schist interbedded with quartz-mica-chlorite schist over a 70 metre stratigraphic interval. There is deflection on the out of phase readings on line 82N which may reflect the interpreted normal fault structure cross cutting the stratigraphy.

Elsewhere on the southern portion of the main grid, two weak conductors are indicated on the plot of the 1777 Hz. results and by irregular readings on several lines on the 444 Hz, frequency plot. The lower conductor is the stronger of the two and occurs along lines 92N to 96N between 46E and 47E. The peak conductivity on the 1777 Hz. frequency is on line 93N at 46E and coincides with a negative peak on the 444 Hz. frequency. The upper conductor is not reflected on the 444 Hz. frequency and shows as weak negative out-of-phase readings on the 1777 Hz. frequency along lines 90N to 93N at 48+75E.

The survey results on the three test lines in the Kona cirque area are best interpreted from the out of phase profile on the 1777 Hz. frequency plot. The in-phase response is affected by the presence of thick bedded magnetite especially along line 120+20N. On the-out-of phase a strong conductor trends across the grid intersecting each of the lines 117+80N, 119N and 100+20N at 55E, 54+20E and 53+80E respectively. This conductor corresponds to the airborne EM trend from the Dighem survey. The anomaly is offset to the east of the magnetite showing in the bank of the north creek fork by 100 meters and does not correspond to the massive sulphide showing at 56 E in the south creek fork. Atlas Explorations drilled a 3 hole fence along line 100+20 N which intersected the well banded massive magnetite horizon projected from the creek showing. A strong anomaly occurs on line 117+80N at 53+50E, footwall to the main conductor, and corresponds to the mineralization intersected by Atlas Explorations in 1967. Atlas drill hole 66-3 intersected 12.5 metres of banded magnetite with up to 20 % disseminated sulphides.

10.3.2 Magnetometer

The plot of the total field intensity from the ground survey reveals a pattern essentially identical to the plot of the Dighem Airborne total magnetic survey plot.

The pattern of magnetic anomalies correlates to the underlying bedrock of the grid areas. In the northeast portion of the main line grid the carbonaceous black clastic unit has an irregular pattern of intense magnetic highs within a high magnetic background. The magnetic high background area coincides with the EM conductor which maps the lower contact of the black clastic unit. The area of the grid immediately to the west is of relatively low magnetic background with low intensity peaks irregularly distributed throughout. The area is underlain by metamorphosed clastic sedimentary rocks generally containing biotite. The series of intense linear magnetic highs on the south portion of the grid reflects an underlying structural thrust sheet of inter bedded metamorphosed sedimentary and volcanic rocks. The prominent magnetic trend coinciding with the long EM conductor from 84N to 100N between 43+50E and 45E is interpreted to be the sole of a thrust fault which overrides metamorphosed mafic volcanic rocks (chlorite schist) with older metamorphic sedimentary rocks. Disseminated pyrrhotite has been located in outcrop along line 88N at 45+75E which coincides with an intense magnetic high anomaly. The upper moderate anomalous trends are also somewhat linear and roughly correlate with the two weak to moderate EM anomalies. There is an increase in magnetic intensity at the ends of the section lines in the southwest portion of the grid which is coincident with the EM approaches noted on the MaxMin II Plus survey. The area west of the thrust fault horizon is underlain by metamorphosed mafic volcanic rocks.

On the Kona cirque grid, an intense magnetic peak coincides with each of the EM conductors. An intense magnetic low occurs in the vicinity of the magnetite showing in the north creek fork at 52+35E and is coupled with the intense magnetic highs.

11. STATEMENT OF EXPENSES

Project Personnel:

John Kowalchuck	District Geologist
Richard Cannon	Geophysicist
Robert Stroshein	Project Geologist
John Taylor	Field Technician
Stephen deWit	Geological Field Assistant
Gerald Grubisa	Geological Field Assistant
Malcom Lamb	Junior Field Assistant
Jeff Ali	Junior Field Assistant
Coral Knight	Camp Cook

Labour costs:

Geological	$ 73,062.	
Geophysical	3,885.	
Geochemical	15,170.	
Logistical	35,702.	
Total		$ 127,819.
Linecutting contractor		19,590.
Holding costs and supplies		694.
Air transport		63,786.
Geochemical lab work		14,368.
Geophysical contractor		9,710.
Geological supplies, reports and data acquisition		4,778.
Logistical supplies, food and camp operation		26,656.
Vehicle rental and expenses		6,905.
Travel and accommodation		8,722.
Freight and shipping		1,077.
TOTAL EXPENDITURES		$ 284,295.

12. CONCLUSIONS

The geologic setting of the mineralization at the Kona project is similar to the VMS deposit type described in numerous geological papers. The details of the deposits are apparently unique and investigations of the relationships of the mineralized zones has been limited due to poor exposures and the disappearance of mineralized drill core intercepts from the early exploration programs. The mineralization is hosted by metamorphosed and highly deformed upper Devonian volcanic rocks.

There is a one kilometre long extension of the iron formation which hosts the mineralization in the floor of the Kona cirque. The horizon has been traced by geophysical surveys and geochemical soil sampling has indicated that potential economic copper mineralization may be related to a continuous stratigraphic horizon.

The present program has not indicated other areas on the property which warrant advanced exploration. Further evaluation of the volcanic horizon south of the southern line grid could be considered but the present interpretation of a distal volcanic setting is not favourable for VMS type deposits. There are likely other volcanic centres in the district which are favourable exploration targets outside of the present property boundaries.

The unusual abundance of the associated magnetite iron formation is less favourable than massive sulphides for the development of economic mineralization and has reduced the probability for successful development of an economic deposit in the cirque area.

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APPENDIX I

STATEMENT OF QUALIFICATIONS:

I Robert W. Stroshein state that:

1. I graduated from the University of Saskatchewan at Saskatoon, Saskatchewan with a Bachelor of Science degree in Geological Engineering in 1973.

2. I have been actively engaged in the mineral exploration in Western Canada since graduation in 1973.

3. I was actively involved in the field exploration program on the Kona Project. I supervised all aspects of the program and prepared this report on the results of the program.

4. My business address is:

c/o Placer Dome Exploration Limited
103 Platinum Road
Whitehorse, Yukon Territory
Y1A 5M3

5. My home address is:

26 Liard Road
Whitehorse, Yukon Territory
Y1A 3L4

Signed,

Robert W. Stroshein

December 20, 1991

APPENDIX II

ANALYTICAL PROCEDURES OF PLACER DOME RESEARCH CENTER

AND

ROCK AND SOIL ANALYTICAL RESULTS

PLACER DOME INC. RESEARCH CENTRE

GEOCHEM LABORATORY

STANDARD ICP GEOCHEM PACKAGE METHOD

Elements

Ag Ar As Ba Be Bi Ca Cd Co Cr Cu Fe K

La Mg Mn Mo Na Ni P Pb Sb Sr Ti V W Zn

Procedure

1. Weigh 0.50 g of -80 mesh soil, sediment or -100 mesh pulverized rock into numbered 16 x 150 mm test tubes. Every tenth sample should be a duplicate sample or an internal known reference standard.

2. Add 4 mL Aqua Regia ($HCl:H_2O:HNO_3$ - 3:2:1) at least 12 hours before digestion.

3. Place test tubes in racks in a hot water bath making sure that the water level in the pan is above the level of the sample solution. Digest at 95° C for 2 hours.

4. Cool the sample and bring up to the 10 mL mark with H_2O. Cap, shake and centrifuge the samples.

5. Using a 10 mL Oxford macro pipettor take a 3.0 mL aliquot of the sample solution and transfer it to a clean 16 X 100 mm autosampler tube. Add 4.5 mL H_2O and shake to mix sample.

6. Analyze sample on a Leeman Labs Inductively Coupled Plasma (ICP) model PS 3000 using matrix matched calibration standards.

7. Ag only is determined by Atomic Absorption using a Perkin Elmer model 3100 AA, analyzing the original sample solution. Background correction is used for this determination

RAM:gmm/M006
1990-11-14

PLACER DOME INC. RESEARCH CENTRE

GEOCHEM LABORATORY

GEOCHEM GOLD TESTS

Procedure

1. Weigh 10.0 g sample into a Coors 07 crucible.
2. Heat in muffle furnace for 4 h @ 600°C.
3. Cool, transfer to 150 mL glass beaker and add 30 mL Aqua Regia (3 parts HCl, 2 parts H_2O, 1 part HNO_3).
4. Digest at just off the boil for 2 hours.
5. Cool, and bulk up to 110 mL mark on beaker.
6. Stir and leave overnight to settle.
7. Decant 50 mL of sample solution into 25 x 200 mm screw cap test tube.
8. Add 7 mL MIBK, cap and turn tube upside down and back at least 25 times.
9. Read organic layer on A.A.

Standards

1. In 250 mL separatory funnel add 10 mL H_2O, 1 mL HCl, 2 drops of HNO_3 and the following amounts of Au:

   0.1 mL of 1000 µg/mL Au stock solution = 1000 ppb
   0.2 mL of 1000 µg/mL Au stock solution = 2000 ppb
   0.4 mL of 1000 µg/mL Au stock solution = 4000 ppb

2. Add 100 mL MIBK and shake for 2 min.
3. Drain aqueous layer.
4. Use saturated MIBK for blank.
5. Set 1000 ppb std on reading of 200 and multiply readings by 5. Detection limit is 5 ppb.
6. For higher samples, standards can be made in 30% aqua and the remaining half of the original sample solution can be run in the aqueous phase.

RAM/:ojt/M001
1990-10-17

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

Geol.: R STROSHEIN
Lab Project No.: P1406

Date Received: JULY 03, 1991
Date Complete: JULY 11, 1991

Attention: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
B2376		0.5	1.65	8	572	<1	<2	1.45	0.2	9	109	52	4.36	0.43	15	0.57	538	<1	0.14	27	0.19	5	<5	47	0.38	73	<10	70
B2377		<0.2	1.57	6	140	<1	<2	0.54	0.1	5	85	15	2.26	0.16	23	0.50	401	2	0.11	12	0.06	8	8	26	0.02	20	<10	71
B2378		0.4	3.90	17	1406	<1	<2	1.26	1.1	13	149	60	3.54	1.08	15	1.99	419	9	0.14	50	0.08	3	<5	52	0.11	100	<10	179
B2379		<0.2	1.31	<5	155	<1	<2	0.18	0.3	5	87	19	2.33	0.29	35	0.51	295	7	0.07	17	0.07	5	<5	26	0.06	16	<10	82
B2380		<0.2	2.50	<5	115	1	<2	0.12	<0.1	10	69	28	4.41	0.24	54	1.01	379	4	0.07	31	0.07	<2	<5	33	0.13	29	<10	99
B2401		0.7	1.89	12	79	<1	<2	0.45	<0.1	12	106	671	4.62	0.07	1	2.19	453	9	0.10	14	0.02	<2	7	3	0.12	167	<10	84
B2402		1.2	1.70	10	92	<1	<2	0.40	<0.1	7	126	299	5.42	0.14	1	1.94	405	4	0.10	12	0.02	<2	<5	4	0.11	174	<10	78
B2403		<0.2	1.47	10	14	<1	<2	0.72	<0.1	20	383	58	2.93	0.02	<1	2.01	268	4	0.08	72	0.01	<2	<5	7	0.04	69	<10	28
B2404		0.2	1.74	10	123	<1	<2	0.59	<0.1	13	291	269	2.83	0.03	<1	2.47	297	2	0.10	41	0.02	<2	5	2	0.05	88	<10	48
B2404*		0.2	1.72	10	26	<1	<2	0.55	<0.1	13	285	270	2.69	0.03	<1	2.41	282	2	0.10	40	0.02	<2	7	2	0.05	85	<10	47
B2405		4.0	1.14	10	65	<1	<2	0.79	0.6	7	229	5508	2.65	0.04	2	1.50	256	2	0.10	44	0.02	<2	11	5	0.03	64	<10	31
B2406		0.6	1.31	9	48	<1	<2	0.75	0.1	13	217	1035	2.35	0.02	1	1.79	263	4	0.11	42	0.01	<2	11	2	0.03	62	<10	26
B2407		3.6	0.57	10	10	<1	<2	0.48	0.6	17	292	7467	2.71	0.06	<1	0.67	222	6	0.06	45	0.03	<2	<5	2	0.02	36	<10	71
B2408		<0.2	1.49	11	6	<1	<2	1.29	0.1	24	255	535	2.24	0.05	<1	1.86	334	5	0.14	74	0.02	<2	11	6	0.04	90	<10	58
STD		0.2	1.33	25	206	<1	<2	1.18	0.4	6	115	39	2.25	0.36	13	0.83	611	49	0.09	29	0.06	47	16	125	0.16	38	<10	145

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE 105G
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

Geologist: R. STROSHEIN
Lab Project No.: P1407

Date Received: JULY 03, 1991
Date Completed: JULY 11, 1991

Attn: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
116+50N-56+40E	25	<0.2	3.83	17	469	<1	<2	0.27	0.2	42	502	250	5.44	0.13	19	4.06	1277	<1	0.02	177	0.07	4	14	12	0.07	91	<10	135
116+50N-56+60E	<5	0.3	3.29	16	251	1	3	0.22	0.2	47	102	596	5.14	0.14	102	1.70	830	5	0.03	125	0.08	18	12	22	0.04	73	<10	224
116+50N-56+80E	5	<0.2	0.70	<5	104	<1	<2	0.16	<0.1	2	12	17	0.53	0.04	5	0.16	48	<1	0.07	6	0.03	<2	<5	17	0.03	10	<10	17
116+50N-57+20E	5	0.3	2.32	15	378	<1	<2	0.30	0.3	24	113	75	3.99	0.14	59	1.55	663	3	0.02	105	0.06	12	15	22	0.05	63	<10	130
117+00N-56+40E	<5	0.2	3.19	5	100	<1	2	0.32	0.2	22	319	60	4.64	0.06	6	2.37	382	10	0.03	105	0.04	6	12	4	0.08	83	<10	75
117+00N-56+60E	<5	0.2	2.37	<5	210	<1	<2	0.36	0.2	17	201	54	3.54	0.08	13	1.98	355	2	0.03	85	0.04	4	7	11	0.07	65	<10	81
117+00N-57+00E	<5	0.3	3.44	5	315	<1	<2	0.17	<0.1	23	273	36	4.35	0.12	12	2.83	529	<1	0.02	107	0.05	3	7	6	0.06	83	<10	95
117+00N-57+20E1	<5	0.3	2.35	<5	178	<1	<2	0.19	<0.1	14	220	22	2.76	0.07	9	1.91	309	<1	0.02	75	0.03	6	7	6	0.06	64	<10	61
117+00N-57+20E2	<5	<0.2	2.99	<5	207	<1	<2	0.21	0.1	19	283	55	3.82	0.09	13	2.61	417	<1	0.02	109	0.03	<2	7	6	0.07	79	<10	84
STD-AU8-P1	290	0.3	1.42	21	195	<1	<2	1.20	0.3	6	125	25	2.19	0.37	17	0.82	609	50	0.09	29	0.08	45	10	140	0.16	39	<10	140
117+50N-56+00E	<5	0.3	2.99	15	395	<1	<2	0.33	0.2	28	240	187	3.44	0.10	15	2.25	605	2	0.03	106	0.07	7	12	15	0.05	67	<10	111
117+50N-56+20E	<5	1.5	4.11	10	807	1	3	0.57	0.4	28	246	184	4.33	0.24	100	2.15	1367	14	0.03	130	0.17	10	12	27	0.04	96	<10	155
117+50N-56+40E	<5	0.2	2.58	7	255	<1	4	0.21	<0.1	14	189	33	3.20	0.12	13	1.72	359	2	0.03	73	0.06	7	<5	9	0.04	70	<10	79
117+50N-56+60E	<5	<0.2	3.27	8	217	<1	<2	0.19	<0.1	21	279	49	4.12	0.10	12	2.67	511	<1	0.03	107	0.05	4	<5	6	0.05	82	<10	93
117+50N-56+80E	<5	0.3	2.92	13	295	<1	<2	0.21	<0.1	19	280	45	3.57	0.11	8	2.48	464	2	0.02	98	0.05	4	<5	6	0.06	82	<10	89
117+50N-57+00E	<5	0.5	4.83	8	1179	1	<2	0.39	0.4	29	266	188	5.04	0.21	43	2.27	2297	6	0.03	192	0.12	9	9	20	0.03	88	<10	159
117+50N-57+20E	<5	0.3	2.53	9	247	<1	<2	0.33	<0.1	14	223	31	2.76	0.07	7	1.97	333	2	0.04	82	0.05	4	<5	11	0.04	58	<10	67
118+00N-55+40E1	<5	0.2	1.07	<5	60	<1	<2	0.09	<0.1	4	50	4	1.16	0.06	11	0.46	130	<1	0.01	18	0.02	4	<5	6	0.06	45	<10	32
118+00N-55+40E2	<5	0.5	3.15	14	158	<1	<2	0.17	<0.1	17	221	16	6.01	0.11	10	2.17	441	1	0.02	84	0.06	8	7	6	0.10	158	<10	111
118+00N-55+40E2	<5	0.4	2.80	11	141	<1	<2	0.15	<0.1	15	197	14	5.42	0.09	9	1.92	394	<1	0.02	75	0.05	7	<5	6	0.09	141	<10	98
118+00N-55+60E	<5	<0.2	2.96	16	151	<1	<2	0.14	<0.1	16	229	16	5.18	0.06	9	2.17	372	<1	0.02	83	0.06	6	12	6	0.07	112	<10	108
118+00N-55+80E	<5	0.2	2.50	13	217	<1	<2	0.26	0.1	15	154	32	4.41	0.09	16	1.75	466	<1	0.02	70	0.06	7	18	13	0.06	73	<10	113
118+00N-56+00E	<5	<0.2	3.22	11	488	<1	<2	0.41	<0.1	20	272	46	4.05	0.12	23	2.53	598	<1	0.03	106	0.06	5	19	17	0.07	90	<10	113
118+00N-56+20E	<5	0.3	3.87	11	501	<1	<2	0.32	<0.1	30	326	89	4.75	0.10	44	2.94	1362	<1	0.02	129	0.10	4	12	13	0.05	107	<10	130
118+00N-56+40E1	<5	0.9	3.09	6	228	<1	<2	0.21	<0.1	16	313	24	3.39	0.09	8	2.68	452	<1	0.02	103	0.05	2	9	6	0.07	89	<10	89
118+00N-56+40E2	<5	0.3	3.51	10	309	<1	<2	0.24	<0.1	24	365	50	4.19	0.11	10	2.98	637	<1	0.02	123	0.05	3	5	6	0.07	97	<10	98
118+00N-56+60E	<5	0.2	4.72	15	1045	<1	<2	0.18	<0.1	41	595	103	5.27	0.36	10	5.45	1210	<1	0.02	209	0.03	<2	<5	5	0.09	123	<10	118
118+00N-56+80E	<5	<0.2	3.59	14	287	<1	<2	0.19	0.2	28	237	75	5.46	0.21	21	2.62	764	<1	0.02	119	0.06	9	8	7	0.06	86	<10	154
118+00N-57+00E1	<5	0.2	2.02	9	146	<1	<2	0.18	<0.1	9	174	9	2.32	0.09	8	1.28	288	<1	0.02	54	0.04	5	10	7	0.04	53	<10	49
118+00N-57+00E1	<5	0.2	3.51	36	126	3	5	1.29	0.5	15	25	41	3.96	0.23	41	1.27	742	9	0.09	47	0.12	54	9	148	0.18	56	<10	219
118+00N-57+00E2	<5	<0.2	2.90	9	173	<1	4	0.24	0.1	18	261	46	4.10	0.10	12	2.20	452	<1	0.02	93	0.04	7	14	6	0.06	67	<10	86
118+00N-57+20E1	<5	0.4	2.46	9	161	<1	3	0.20	<0.1	12	227	21	2.77	0.08	10	1.70	347	<1	0.02	69	0.05	5	6	7	0.04	57	<10	58
118+00N-57+20E2	<5	0.2	3.66	9	226	<1	<2	0.35	<0.1	23	366	70	4.40	0.12	16	2.88	520	<1	0.03	134	0.04	5	10	6	0.06	78	<10	94
118+50N-55+40E1	<5	0.3	1.14	6	234	<1	4	0.40	<0.1	7	54	28	1.59	0.03	22	0.53	346	<1	0.05	24	0.04	3	8	26	0.04	29	<10	43
118+50N-55+40E2	<5	0.4	2.69	12	351	<1	6	0.43	<0.1	15	190	67	3.19	0.08	31	1.82	361	<1	0.03	78	0.07	7	18	19	0.05	61	<10	98
118+50N-55+80E	<5	0.4	2.34	10	429	<1	4	0.45	0.2	16	178	49	3.10	0.07	28	1.67	350	<1	0.02	74	0.06	8	5	16	0.04	53	<10	107
118+50N-56+00E	<5	0.3	2.51	12	460	<1	6	0.47	0.2	15	167	70	3.06	0.09	31	1.59	487	<1	0.05	77	0.06	6	15	21	0.05	54	<10	101
118+50N-56+20E	<5	0.5	3.28	11	583	1	4	0.52	0.3	16	155	85	4.16	0.16	36	1.64	467	<1	0.03	87	0.09	12	8	23	0.04	65	<10	186
118+50N-56+40E	<5	0.2	3.31	16	395	<1	4	0.39	0.2	22	229	69	4.69	0.13	20	2.23	575	<1	0.03	100	0.05	7	13	14	0.07	74	<10	194
118+50N-56+40E*	<5	0.2	3.38	12	408	<1	4	0.40	0.2	23	232	66	4.85	0.14	20	2.26	586	<1	0.03	101	0.06	10	12	15	0.07	75	<10	197
118+50N-56+60E1	<5	1.0	2.50	8	516	<1	3	0.29	0.1	11	69	68	3.40	0.12	24	0.84	249	5	0.03	66	0.08	8	9	17	0.03	44	<10	143
118+50N-56+60E2	<5	0.4	0.99	<5	161	<1	2	0.20	<0.1	3	11	26	1.10	0.04	17	0.15	63	2	0.05	18	0.05	<2	<5	14	0.02	14	<10	42
118+50N-56+80E	<5	0.2	3.16	9	453	1	<2	0.32	0.2	14	55	92	4.60	0.18	28	1.14	573	5	0.02	60	0.11	14	13	17	0.04	69	<10	165
118+50N-57+20E	<5	0.3	2.81	9	395	<1	3	0.39	0.3	12	82	99	4.00	0.11	29	1.39	512	3	0.02	53	0.10	10	7	19	0.03	67	<10	192
123+40N-60+00E	<5	0.3	1.24	<5	216	<1	3	0.10	0.2	4	75	38	1.62	0.08	4	0.55	153	2	0.04	17	0.03	<2	12	10	0.05	33	<10	31
123+60N-60+00E	<5	0.2	0.84	<5	99	<1	4	0.09	0.3	32	17	130	0.66	0.03	6	0.15	415	2	0.04	16	0.04	3	6	10	0.02	14	<10	18
123+80N-60+00E	<5	0.4	2.27	13	125	<1	3	0.14	0.3	19	199	190	3.38	0.05	9	2.16	310	<1	0.01	77	0.03	3	9	7	0.06	67	<10	89
124+00N-60+00E	<5	0.2	2.28	9	116	<1	3	0.15	0.2	17	203	171	3.33	0.06	8	2.19	296	3	0.01	76	0.03	<2	9	7	0.06	66	<10	85
124+20N-60+00E	<5	<0.2	2.08	9	70	<1	2	0.11	0.1	14	174	76	2.74	0.05	8	2.09	271	1	0.02	58	0.03	<2	11	6	0.05	60	<10	79
124+20N-60+00E*	<5	<0.2	1.95	14	65	<1	3	0.09	<0.1	13	164	72	2.59	0.04	7	1.96	250	<1	0.02	55	0.03	<2	13	6	0.05	56	<10	75

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE 105G
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

Geologist: R. STROSHEIN
Lab Project No.: P1407

Date Received: JULY 03, 1991
Date Completed: JULY 11, 1991

Attn: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
124+40N–50+00E	<5	0.3	1.87	11	52	<1	2	0.10	<0.1	12	188	74	2.65	0.03	7	1.83	206	<1	0.01	57	0.04	4	<5	6	0.03	55	<10	63
124+60N–50+00E	<5	0.4	1.87	10	64	<1	3	0.13	<0.1	13	187	86	2.76	0.04	8	1.82	217	<1	0.01	69	0.03	2	13	7	0.08	59	<10	67
124+80N–50+00E	<5	0.2	2.74	10	101	<1	3	0.11	<0.1	44	244	182	3.90	0.04	6	2.58	718	<1	0.02	83	0.05	4	14	7	0.04	73	<10	81
125+00N–50+00E	<5	<0.2	1.88	7	102	<1	3	0.17	0.1	14	171	101	2.34	0.05	7	1.77	224	<1	0.02	64	0.02	6	6	8	0.06	49	<10	68
125+20N–50+00E	<5	0.5	2.17	12	148	<1	5	0.11	0.6	44	197	273	2.79	0.04	9	1.89	661	5	0.02	73	0.05	8	8	8	0.04	55	<10	76
125+40N–50+00E	<5	0.2	2.66	10	80	<1	4	0.12	0.1	18	278	90	3.06	0.04	6	2.71	286	<1	0.01	95	0.03	5	8	6	0.06	62	<10	99
125+60N–50+00E	<5	0.2	2.78	8	53	<1	4	0.10	<0.1	18	291	78	3.49	0.04	5	2.88	353	<1	0.01	95	0.03	4	6	4	0.05	69	<10	124
123+40N–51+00E	<5	0.2	5.79	16	87	<1	<2	0.09	<0.1	57	651	164	7.16	0.01	4	7.03	673	<1	<0.01	252	0.04	<2	<5	3	0.05	133	<10	146
123+60N–51+00E	<5	0.2	2.44	8	143	<1	4	0.14	0.3	56	161	152	3.76	0.05	8	2.14	768	<1	0.02	65	0.04	11	8	9	0.07	79	<10	76
STD–AU8–P1	370	0.2	1.32	27	183	<1	5	1.14	0.3	8	116	24	2.10	0.35	16	0.78	588	51	0.09	27	0.07	46	12	127	0.15	38	<10	130
123+80N–51+00E	<5	0.6	1.70	11	174	<1	2	0.13	0.4	13	154	176	1.98	0.03	9	1.42	170	2	0.01	60	0.05	6	19	9	0.03	45	<10	58
124+00N–51+00E	<5	0.2	2.15	10	79	<1	6	0.11	<0.1	15	205	112	2.66	0.04	7	2.07	221	3	0.01	76	0.03	5	9	7	0.05	59	<10	73
124+20N–51+00E	<5	<0.2	1.99	10	160	<1	4	0.20	<0.1	14	195	125	2.76	0.06	9	1.93	239	<1	0.01	78	0.02	2	11	10	0.07	62	<10	79
124+40N–51+00E	<5	<0.2	1.94	12	92	<1	<2	0.15	<0.1	13	224	65	2.57	0.05	10	1.92	238	1	0.01	62	0.02	4	<5	9	0.07	63	<10	72
124+60N–51+00E	<5	<0.2	1.74	16	85	<1	3	0.14	<0.1	13	194	131	3.14	0.05	7	1.73	225	2	0.01	58	0.02	4	10	6	0.07	63	<10	72
124+80N–51+00E	20	<0.2	2.10	10	119	<1	<2	0.15	<0.1	15	192	209	3.38	0.07	10	1.84	233	2	0.01	77	0.03	<2	<5	8	0.07	65	<10	78
125+00N–51+00E	<5	<0.2	2.70	21	145	<1	3	0.11	<0.1	18	263	215	4.36	0.09	7	2.52	292	<1	0.01	89	0.04	3	6	6	0.07	78	<10	86
125+20N–51+00E	<5	<0.2	1.88	18	69	<1	<2	0.15	<0.1	12	199	94	2.79	0.05	8	1.77	223	<1	0.01	67	0.02	4	8	7	0.06	64	<10	68
125+40N–51+00E	<5	<0.2	1.41	9	31	<1	3	0.14	0.2	9	89	68	1.83	0.02	5	1.28	206	<1	0.02	31	0.03	4	7	4	0.04	50	<10	49
125+40N–51+00E*	<5	<0.2	1.36	12	30	<1	<2	0.13	0.2	9	87	67	1.78	0.02	5	1.24	199	1	0.02	31	0.03	3	<5	4	0.04	48	<10	47
125+60N–51+00E	<5	<0.2	2.45	10	52	<1	<2	0.11	0.1	21	265	172	2.90	0.03	7	2.58	305	2	0.01	120	0.03	2	<5	6	0.05	63	<10	98
123+20N–52+00E	<5	0.2	2.03	13	55	<1	<2	0.13	<0.1	15	174	100	3.18	0.04	6	1.74	251	<1	0.01	67	0.05	4	7	7	0.07	79	<10	68
123+40N–52+00E	<5	<0.2	1.39	7	41	<1	<2	0.12	<0.1	9	115	49	1.72	0.03	6	1.10	187	3	0.02	41	0.02	<2	<5	8	0.05	39	<10	40
123+60N–52+00E	<5	0.3	2.17	9	90	<1	3	0.18	0.1	15	145	97	2.93	0.05	9	1.50	315	<1	0.01	62	0.06	5	<5	24	0.07	62	<10	70
123+80N–52+00E	<5	0.3	1.83	10	55	<1	<2	0.11	<0.1	11	139	73	2.17	0.03	6	1.17	207	<1	0.02	48	0.04	5	5	8	0.05	46	<10	49
124+00N–52+00E	<5	0.2	1.75	12	70	<1	3	0.12	<0.1	11	159	91	2.48	0.03	8	1.47	210	<1	0.01	57	0.03	4	<5	8	0.06	54	<10	63
124+20N–52+00E	<5	<0.2	1.67	11	60	<1	2	0.12	<0.1	11	172	48	2.50	0.04	8	1.31	210	<1	<0.01	55	0.04	5	<5	6	0.06	55	<10	51
124+40N–52+00E	<5	0.6	2.15	10	89	<1	4	0.11	0.2	23	156	103	3.39	0.05	10	1.18	522	<1	0.01	50	0.06	6	7	10	0.05	55	<10	61
124+60N–52+00E	<5	0.4	1.74	8	72	<1	3	0.12	0.2	23	129	224	2.30	0.04	7	1.10	307	<1	0.02	48	0.04	6	9	7	0.05	49	<10	46
124+80N–52+00E*	<5	0.4	3.28	38	117	3	6	1.20	0.5	15	23	42	3.90	0.20	38	1.24	714	7	0.07	46	0.12	57	11	138	0.15	52	<10	213
124+80N–52+00E	<5	0.3	1.81	8	71	<1	<2	0.12	0.1	10	148	91	2.34	0.05	9	1.18	184	<1	0.01	47	0.03	3	10	8	0.06	52	<10	49
125+00N–52+00E	<5	<0.2	1.63	7	92	<1	<2	0.14	<0.1	11	124	220	1.99	0.04	6	1.08	185	<1	0.02	60	0.04	<2	<5	10	0.04	41	<10	46
120+40N–53+00E	<5	0.4	3.20	7	112	<1	<2	0.11	0.2	15	142	59	3.92	0.06	13	1.61	407	<1	0.01	62	0.06	<2	6	6	0.05	55	<10	89
120+60N–53+00E	<5	0.3	4.09	9	126	<1	<2	0.26	<0.1	63	454	547	6.20	0.03	5	4.25	688	<1	0.02	185	0.07	<2	<5	11	0.04	88	<10	235
120+80N–53+00E	<5	0.2	3.06	10	40	<1	<2	0.10	<0.1	33	322	131	5.58	0.03	5	3.04	399	<1	0.02	110	0.02	<2	<5	3	0.06	90	<10	189
121+00N–53+00E	<5	0.3	4.33	10	60	<1	<2	0.17	<0.1	42	484	225	6.87	0.02	3	4.67	494	<1	0.02	138	0.04	<2	<5	6	0.05	113	<10	150
121+20N–53+00E	<5	0.3	5.91	<5	94	<1	<2	0.20	0.2	96	485	564	10.39	0.02	3	6.39	894	<1	0.01	206	0.05	<2	7	7	0.05	149	<10	232
121+40N–53+00E	5	0.2	4.50	10	80	<1	<2	0.24	0.1	39	423	336	6.43	0.03	5	4.91	609	<1	0.02	181	0.04	<2	6	7	0.05	124	<10	149
121+60N–53+00E	5	0.3	3.77	14	151	<1	<2	0.33	0.1	46	357	331	5.85	0.06	7	3.99	855	<1	0.02	147	0.04	<2	<5	11	0.06	110	<10	120
STD–AU8–P1	305	0.3	1.29	25	189	<1	<2	1.10	0.4	6	114	18	2.18	0.34	14	0.80	605	53	0.08	28	0.08	46	13	121	0.15	38	<10	134
121+80N–53+00E	5	<0.2	4.12	12	44	<1	<2	0.12	0.2	28	452	156	5.04	0.02	6	4.19	542	<1	0.01	156	0.04	<2	7	5	0.06	102	<10	133
122+00N–53+00E	<5	0.3	2.79	7	38	<1	<2	0.08	0.2	17	245	76	4.00	0.03	6	2.23	330	<1	0.01	85	0.05	4	<5	5	0.06	77	<10	90
122+20N–53+00E	<5	0.2	1.92	8	38	<1	<2	0.12	<0.1	14	192	11	2.56	0.03	7	1.96	270	<1	0.01	74	0.02	<2	<5	5	0.06	66	<10	70
122+40N–53+00E	<5	<0.2	1.30	9	50	<1	<2	0.10	0.1	8	68	33	1.65	0.03	3	0.96	165	<1	0.03	24	0.03	3	<5	7	0.04	34	<10	39
122+60N–53+00E	<5	<0.2	1.41	5	37	<1	<2	0.12	<0.1	8	68	20	1.87	0.02	3	1.08	279	<1	0.02	28	0.03	3	8	6	0.05	44	<10	44
122+80N–53+00E	<5	0.4	0.95	<5	43	<1	<2	0.10	<0.1	4	48	14	1.22	0.02	2	0.43	167	<1	0.04	16	0.05	3	<5	13	0.02	25	<10	26
123+00N–53+00E	<5	0.4	1.45	6	59	<1	<2	0.11	0.1	9	135	29	1.62	0.02	4	1.42	170	<1	0.02	44	0.04	3	<5	8	0.03	35	<10	43
120+80N–54+00E	<5	0.2	1.57	10	199	<1	<2	0.46	1.2	12	88	1773	1.75	0.03	12	0.79	670	<1	0.03	47	0.11	4	5	19	0.02	37	<10	49
121+00N–54+00E	<5	<0.2	3.04	12	121	<1	<2	0.36	0.9	24	344	896	3.71	0.03	6	3.44	485	<1	0.02	144	0.05	<2	10	13	0.05	81	<10	181
121+00N–54+00E*	<5	<0.2	2.97	12	120	<1	<2	0.35	0.9	24	335	887	3.64	0.03	6	3.35	474	<1	0.02	140	0.04	2	8	13	0.05	79	<10	179

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE 105G
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

Geologist: R. STROSHEIN
Lab Project No.: P1407

Date Received: JULY 03, 1991
Date Completed: JULY 11, 1991

Attn: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
121+20N–54+00E	20	<0.2	4.19	12	88	<1	<2	0.27	0.6	44	509	911	4.66	0.02	6	5.50	716	<1	0.02	221	0.04	<2	<5	9	0.05	116	<10	172
121+40N–54+00E	<5	<0.2	1.41	8	58	<1	4	0.20	0.1	9	152	498	1.82	0.02	3	1.34	156	<1	0.05	57	0.04	<2	6	12	0.04	37	<10	50
121+60N–54+00E	<5	0.2	2.88	6	137	<1	<2	0.23	0.3	26	288	1371	3.29	0.02	5	2.86	437	<1	0.02	117	0.04	<2	9	10	0.05	74	<10	99
121+80N–54+00E	<5	<0.2	2.49	12	117	<1	<2	0.18	0.2	26	242	788	3.18	0.03	4	2.67	410	<1	0.02	109	0.03	<2	<5	9	0.06	74	<10	97
122+00N–54+00E	<5	0.3	0.82	<5	31	<1	4	0.08	<0.1	4	40	100	1.02	0.02	2	0.48	78	<1	0.04	17	0.02	<2	<5	9	0.04	23	<10	25
122+20N–54+00E	<5	<0.2	3.27	8	61	<1	3	0.13	0.1	22	401	332	3.89	0.03	3	3.96	412	<1	0.01	144	0.03	<2	8	8	0.07	89	<10	122
122+40N–54+00E	<5	0.3	2.67	9	313	<1	6	0.19	0.3	19	308	302	3.31	0.03	3	2.93	351	<1	0.01	108	0.03	<2	8	32	0.05	79	<10	95
122+60N–54+00E	<5	<0.2	2.55	8	51	<1	<2	0.13	0.1	20	269	317	3.20	0.03	4	2.62	317	2	0.01	110	0.03	<2	<5	6	0.06	70	<10	98
122+80N–54+00E	<5	<0.2	2.24	5	40	<1	6	0.12	0.1	15	198	130	3.10	0.03	5	1.97	278	2	0.01	76	0.03	<2	<5	7	0.06	67	<10	82
122+80N–54+00E*	<5	<0.2	3.35	35	125	3	5	1.25	0.6	16	23	42	4.04	0.22	38	1.23	731	8	0.08	46	0.13	53	9	147	0.16	53	<10	217
123+00N–54+00E	<5	0.4	2.55	5	50	<1	2	0.16	<0.1	13	173	174	3.07	0.04	10	1.63	266	<1	0.01	65	0.04	<2	5	9	0.06	64	<10	75
121+20N–55+00E	<5	<0.2	2.06	<5	58	<1	3	0.15	<0.1	12	211	33	3.56	0.04	8	1.81	253	<1	0.02	65	0.03	3	<5	7	0.07	74	<10	69
121+40N–55+00E	<5	0.4	2.17	6	40	<1	<2	0.11	<0.1	11	173	20	2.32	0.03	8	2.07	263	<1	0.01	54	0.02	<2	11	5	0.06	64	<10	60
121+60N–55+00E	<5	0.4	2.74	<5	34	<1	2	0.13	<0.1	17	198	129	4.02	0.02	5	2.64	355	<1	0.02	73	0.03	<2	15	4	0.06	100	<10	76
121+80N–55+00E	<5	0.4	3.28	7	67	<1	2	0.17	0.3	22	286	517	4.83	0.02	4	3.01	392	<1	0.01	120	0.04	<2	13	6	0.09	108	<10	191
122+00N–55+00E	<5	<0.2	3.90	8	51	<1	2	0.20	0.1	29	304	1053	4.96	0.05	8	3.21	571	<1	0.02	147	0.04	<2	12	6	0.08	107	<10	144
122+20N–55+00E	<5	0.4	2.72	7	70	<1	3	0.18	<0.1	15	155	97	4.98	0.03	4	2.19	358	<1	0.02	82	0.05	<2	7	5	0.12	140	<10	84
122+40N–55+00E	<5	0.4	2.46	10	120	<1	3	0.17	<0.1	17	163	224	4.28	0.04	4	2.40	347	<1	0.02	72	0.04	<2	10	5	0.12	118	<10	103
122+60N–55+00E	<5	0.3	2.16	<5	76	<1	4	0.17	<0.1	14	157	438	3.53	0.06	8	1.65	288	<1	0.02	64	0.04	2	5	10	0.09	81	<10	80
122+60N–55+00E*	<5	0.3	2.05	7	75	<1	<2	0.16	<0.1	13	148	435	3.39	0.06	7	1.54	273	<1	0.02	62	0.04	<2	10	10	0.09	77	<10	77
122+80N–55+00E	5	0.2	3.20	8	40	<1	<2	0.11	<0.1	20	369	189	4.03	0.03	4	3.28	388	4	0.01	118	0.03	<2	<5	5	0.07	87	<10	122
123+00N–55+00E	<5	0.2	1.75	8	45	<1	<2	0.12	<0.1	12	217	48	2.66	0.03	7	1.77	238	<1	0.01	70	0.03	<2	11	7	0.08	72	<10	62
121+60N–56+00E	<5	0.2	2.94	10	30	<1	<2	0.15	<0.1	26	402	114	4.00	0.03	4	3.29	518	<1	0.01	134	0.04	2	11	4	0.06	91	<10	101
121+80N–56+00E	<5	0.5	2.20	11	23	<1	4	0.08	<0.1	15	240	105	3.39	0.02	3	2.50	303	<1	0.02	75	0.04	2	11	4	0.05	81	<10	107
122+00N–56+00E	<5	0.5	3.05	7	34	<1	5	0.11	0.2	22	284	230	4.38	0.02	4	2.97	393	<1	0.02	89	0.07	4	7	3	0.05	95	<10	130
122+20N–56+00E	<5	<0.2	2.16	12	40	<1	<2	0.15	0.1	14	171	40	3.46	0.04	10	1.58	305	2	0.01	61	0.03	3	<5	8	0.06	84	<10	60
122+60N–56+00E	<5	<0.2	2.01	7	72	<1	<2	0.23	<0.1	15	228	141	2.56	0.04	7	1.86	252	<1	0.02	80	0.03	<2	<5	11	0.06	55	<10	50
122+80N–56+00E	<5	<0.2	1.84	9	61	<1	<2	0.19	<0.1	14	210	80	2.44	0.03	5	1.74	235	<1	0.02	75	0.02	<2	5	12	0.06	50	<10	45
123+00N–56+00E	<5	<0.2	2.48	6	57	<1	<2	0.26	<0.1	18	282	266	2.72	0.03	6	2.18	280	2	0.02	95	0.04	<2	<5	10	0.06	57	<10	52
123+00N–56+00E*	<5	<0.2	3.47	35	129	3	<2	1.26	0.5	16	21	43	4.19	0.22	37	1.26	750	9	0.08	48	0.13	53	<5	151	0.16	54	<10	220

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

Geol.: R STROSHEIN
Lab Project No.: P1417

Date Received: JULY 09, 1991
Date Completed: JULY 12, 1991

Attention: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
B2410		0.2	1.80	9	188	<1	<2	0.23	<0.1	9	135	63	4.02	0.13	12	1.63	305	1	0.03	45	0.11	12	<5	19	0.02	82	<10	71
B2411		0.2	1.44	13	10	<1	<2	0.37	<0.1	9	206	155	2.39	0.02	1	1.64	282	2	0.08	22	0.02	4	<5	3	0.04	52	<10	42
B2412		0.5	1.74	6	13	<1	<2	0.51	<0.1	10	62	560	3.40	0.03	1	1.45	294	1	0.09	17	0.02	<2	<5	7	0.05	106	<10	42
B2414		0.2	0.98	10	527	<1	<2	0.72	<0.1	10	191	106	2.10	0.22	1	0.93	346	<1	0.12	51	<0.01	<2	<5	24	0.05	49	<10	34
B2415		0.3	2.01	<5	116	<1	<2	0.26	<0.1	9	101	41	3.84	0.15	17	1.08	329	2	0.05	23	0.07	<2	<5	15	0.04	31	<10	96
B2416		0.4	1.59	6	287	<1	<2	0.61	<0.1	4	152	50	2.47	0.45	9	0.97	398	5	0.09	11	0.04	13	<5	35	0.05	52	<10	64
B2418		2.5	1.83	20	69	<1	<2	0.87	<0.1	6	194	28	2.95	0.30	4	0.96	298	4	0.15	24	0.06	8	8	47	0.03	36	<10	53
B2419		1.0	2.32	14	200	<1	<2	0.70	<0.1	7	132	18	2.73	0.48	11	1.07	411	4	0.14	18	0.06	13	<5	68	0.03	30	<10	77
B2420		1.6	0.83	6	105	<1	<2	0.29	<0.1	10	225	3448	1.51	0.02	<1	1.11	151	1	0.05	60	0.02	2	<5	3	0.02	39	<10	"
B2420*		1.6	0.86	7	109	<1	3	0.30	<0.1	10	233	3633	1.57	0.02	<1	1.16	156	2	0.05	61	0.02	<2	<5	2	0.03	41	<10	

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE
Geol.: R STROSHEIN
Lab Project No.: P1418
Date Received: JUL 9,1991
Date Completed: JUL 19,1991

Attn: R STROSHEIN, J KOWALCHUK, E KIMURA, R HODGSON

Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
102+00N-50+40E		0.4	1.52	<5	148	<1	<2	0.45	0.5	9	42	21	2.34	0.08	16	0.74	453	3	0.01	27	0.09	8	6	46	0.02	44	12	81
102+00N-50+60E		0.5	2.10	<5	141	<1	<2	0.24	0.2	12	50	25	3.20	0.07	22	1.05	399	5	0.01	40	0.07	11	<5	35	0.03	51	<10	93
102+00N-50+80E		0.6	1.34	<5	156	<1	<2	0.16	0.4	6	45	18	2.17	0.05	15	0.65	182	3	0.01	28	0.05	9	<5	30	0.02	32	<10	56
102+00N-51+00E		<0.2	1.74	7	103	<1	<2	0.15	0.3	9	51	19	3.11	0.06	19	1.04	303	3	<0.01	40	0.04	8	<5	29	0.03	48	<10	86
102+00N-51+20E		<0.2	2.23	11	171	<1	<2	0.29	0.3	15	69	27	3.63	0.09	19	1.51	522	2	0.01	81	0.06	12	<5	36	0.05	60	<10	102
102+00N-51+40E		0.2	1.39	<5	170	<1	<2	0.10	0.3	6	49	16	2.33	0.07	19	0.71	191	3	<0.01	28	0.03	9	<5	29	0.03	50	<10	64
102+00N-51+60E		0.8	1.08	<5	116	<1	<2	0.10	0.4	4	40	15	1.83	0.05	14	0.42	121	3	<0.01	20	0.04	8	<5	26	0.01	31	<10	48
102+00N-51+80E		0.4	0.58	<5	62	<1	<2	0.06	<0.1	<1	22	3	0.53	0.02	4	0.03	15	<1	0.02	2	0.04	3	<5	25	0.01	7	<10	12
?+00N-52+00E		0.3	2.72	<5	241	<1	<2	0.17	0.3	9	67	25	3.61	0.13	16	1.33	377	3	0.02	38	0.07	13	<5	33	0.08	89	<10	110
.+00N-52+00E*		0.3	2.79	<5	246	<1	<2	0.17	0.3	9	68	26	3.69	0.14	17	1.36	386	2	0.02	40	0.08	13	5	33	0.08	91	<10	113
102+00N-52+20E		0.3	1.15	<5	184	<1	<2	0.04	0.5	2	30	27	1.44	0.04	15	0.24	83	<1	0.01	11	0.07	13	<5	30	0.01	31	<10	35
102+00N-52+40E		<0.2	1.51	9	131	<1	<2	0.11	0.2	6	54	15	2.59	0.06	17	0.75	202	2	<0.01	28	0.04	8	<5	28	0.04	62	<10	70
102+00N-52+60E		<0.2	0.77	<5	55	<1	<2	0.04	0.1	1	29	7	1.02	0.02	8	0.12	46	<1	0.01	7	0.03	3	<5	22	0.01	16	<10	27
102+00N-52+80E		<0.2	2.31	10	144	<1	<2	0.28	0.3	9	58	22	3.71	0.10	18	1.33	373	1	0.01	43	0.12	10	<5	36	0.04	71	<10	101
102+00N-53+00E		<0.2	2.08	7	118	<1	2	0.22	0.3	9	55	20	3.63	0.07	17	1.20	337	2	0.01	39	0.07	11	5	33	0.04	64	<10	94
102+00N-53+20E		0.6	2.94	<5	154	<1	<2	0.14	0.3	9	69	24	4.01	0.08	16	1.40	376	4	0.01	40	0.06	11	<5	32	0.07	99	<10	112
102+00N-53+40E		0.3	2.73	9	146	<1	<2	0.15	0.3	9	67	23	3.79	0.07	17	1.47	362	3	0.02	41	0.06	11	<5	31	0.07	92	<10	108
102+00N-53+60E		0.7	1.85	<5	99	<1	<2	0.08	0.4	7	43	22	3.35	0.06	17	0.71	393	2	<0.01	25	0.07	15	<5	27	0.02	72	<10	79
102+00N-53+80E		0.3	2.15	7	160	<1	<2	0.13	0.3	10	60	25	3.14	0.12	16	1.20	400	2	0.01	45	0.06	10	<5	27	0.05	65	<10	96
102+00N-53+80E*		0.3	2.21	11	161	<1	<2	0.14	0.3	11	61	26	3.22	0.13	16	1.23	411	1	0.01	45	0.07	8	<5	28	0.05	67	<10	98
102+00N-54+00E		0.4	2.04	7	105	<1	<2	0.11	0.3	8	56	19	3.06	0.05	18	1.01	291	<1	<0.01	36	0.04	10	<5	27	0.03	62	<10	83
102+00N-54+20E		<0.2	2.86	11	203	<1	<2	0.24	0.3	11	76	28	4.39	0.10	18	1.54	470	1	0.02	50	0.09	8	<5	36	0.08	106	<10	125
102+00N-54+40E		0.5	2.71	<5	186	<1	<2	0.13	0.3	9	66	23	3.45	0.09	17	1.33	346	<1	0.01	41	0.06	9	<5	30	0.06	83	<10	112
102+00N-54+60E		0.5	1.89	5	158	<1	<2	0.07	0.2	6	52	18	2.96	0.09	16	0.93	288	1	0.01	26	0.05	14	<5	28	0.07	92	<10	89
102+00N-54+80E		0.4	2.73	8	220	<1	<2	0.10	0.4	8	69	24	3.52	0.12	14	1.63	890	3	0.03	28	0.11	22	<5	34	0.17	150	<10	146
102+00N-55+00E		0.2	2.04	8	158	<1	<2	0.17	0.4	8	55	16	3.43	0.08	15	1.10	309	1	0.01	33	0.05	11	<5	33	0.06	85	<10	101
102+00N-55+20E		0.3	2.21	10	128	<1	<2	0.21	0.3	10	68	19	3.85	0.07	18	1.40	399	1	0.01	50	0.07	9	<5	32	0.06	82	<10	93
102+00N-55+40E		0.8	3.30	<5	277	<1	<2	0.15	0.3	9	70	25	3.97	0.14	16	1.74	588	4	0.02	33	0.09	19	<5	34	0.13	133	<10	149
102+00N-55+60E		0.8	1.92	6	107	<1	<2	0.12	0.3	7	53	15	2.48	0.06	10	0.93	250	2	0.01	34	0.07	8	<5	27	0.04	52	<10	74
102+00N-55+60E*		0.7	1.94	5	107	<1	<2	0.12	0.3	7	54	15	2.52	0.06	11	0.95	252	2	0.01	35	0.07	8	<5	28	0.04	53	<10	75
?+00N-55+80E		0.4	2.72	7	141	<1	<2	0.12	0.2	8	66	21	3.91	0.07	16	1.25	428	2	0.01	35	0.10	13	<5	30	0.06	96	12	116
?+00N-56+00E		0.3	2.25	8	104	<1	<2	0.16	0.2	10	65	26	3.88	0.06	18	1.24	493	<1	0.01	48	0.12	10	<5	27	0.03	71	<10	98
102+00N-56+20E		0.4	3.17	<5	201	<1	<2	0.16	0.4	10	74	22	4.13	0.12	15	1.46	573	3	0.02	36	0.10	16	6	31	0.09	108	<10	140
102+00N-56+40E		<0.2	1.88	<5	91	<1	<2	0.14	0.2	7	57	17	3.17	0.06	14	0.96	365	3	<0.01	35	0.08	13	<5	28	0.03	70	<10	89
102+00N-56+60E		0.3	2.26	9	147	<1	3	0.07	0.3	10	63	27	3.78	0.11	17	1.01	600	7	<0.01	50	0.10	13	<5	25	0.02	70	<10	136
102+00N-56+80E		0.6	2.76	10	384	<1	3	0.78	0.6	12	79	40	3.89	0.15	39	1.28	686	6	0.02	67	0.17	12	<5	54	0.02	86	<10	185
102+00N-57+00E		0.4	2.90	9	389	<1	<2	0.59	0.3	13	77	34	3.87	0.15	22	1.27	600	8	0.02	61	0.14	12	5	54	0.03	87	<10	137
102+00N-57+20E		0.2	1.08	<5	175	<1	<2	0.21	0.7	8	40	14	2.36	0.11	13	0.54	525	7	0.01	22	0.06	10	<5	37	0.02	49	<10	94
102+00N-57+40E		0.4	2.22	<5	288	<1	4	0.27	2.0	21	40	17	3.26	0.12	16	0.97	2300	9	0.02	23	0.11	19	<5	42	0.03	60	<10	163
STD-P1/AU8		0.3	0.99	21	182	<1	<2	0.86	0.4	5	105	23	2.06	0.31	8	0.77	550	48	0.06	29	0.07	48	7	95	0.10	32	<10	135
102+00N-57+60E		0.8	2.67	<5	382	<1	<2	1.06	2.9	17	71	60	3.91	0.16	41	1.15	888	5	0.02	90	0.14	11	<5	79	0.03	66	<10	364
102+00N-57+80E		0.3	1.10	<5	172	<1	<2	0.14	0.7	6	40	12	2.06	0.07	8	0.56	398	2	0.01	17	0.04	8	<5	32	0.04	49	<10	97
102+00N-58+00E		0.7	1.83	<5	227	1	<2	0.36	0.8	15	24	60	7.48	0.08	23	0.75	754	12	<0.01	62	0.19	24	<5	45	<0.01	45	<10	198
102+00N-58+20E		0.3	1.33	<5	88	<1	<2	0.07	0.1	5	43	12	2.37	0.05	12	0.50	258	4	<0.01	20	0.05	8	<5	23	0.01	52	<10	69
102+00N-58+40E		0.3	2.90	<5	176	<1	<2	0.18	0.6	14	78	27	4.38	0.11	15	1.41	784	7	0.01	56	0.09	11	<5	31	0.04	87	<10	259
102+00N-58+60E		0.3	2.10	<5	120	<1	<2	0.14	1.0	12	65	22	3.46	0.07	14	1.22	611	4	<0.01	49	0.05	10	<5	28	0.03	70	<10	177
102+00N-58+80E		0.4	2.37	<5	102	<1	<2	0.14	0.4	12	57	30	3.53	0.08	19	1.09	328	<1	<0.01	54	0.07	9	<5	27	0.03	51	<10	114
102+00N-59+00E		0.4	2.31	<5	83	1	<2	0.19	0.5	22	35	41	4.31	0.04	68	0.91	777	6	<0.01	59	0.14	16	<5	39	0.02	42	<10	165
102+00N-59+20E		0.4	2.35	<5	110	<1	<2	0.07	0.4	9	56	31	4.00	0.06	15	1.08	394	2	<0.01	43	0.08	10	<5	26	0.02	73	<10	146
102+00N-59+20E*		0.3	2.29	<5	106	<1	<2	0.07	0.4	9	56	30	3.91	0.06	14	1.05	385	2	<0.01	42	0.08	10	<5	26	0.02	71	<10	129

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

Geol.: R STROSHEIN
Lab Project No.: P1418

Date Received: JUL 9, 1991
Date Completed: JUL 19, 1991

Attn: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Tl %	V ppm	W ppm	Zn ppm
102+00N-59+40E		0.3	2.32	8	125	<1	<2	0.36	0.2	18	64	44	3.84	0.08	48	1.49	570	1	0.01	75	0.06	10	<5	41	0.04	50	<10	114
102+00N-59+60E		0.7	2.22	8	133	1	4	1.11	0.5	18	42	73	2.88	0.06	623	0.87	618	3	0.03	68	0.12	16	<5	93	0.03	39	<10	139
102+00N-59+80E		0.6	2.24	6	134	1	5	1.03	0.6	19	46	63	2.85	0.06	685	0.79	551	4	0.02	69	0.09	16	5	90	0.03	38	<10	98
102+00N-60+20E		0.6	2.62	12	177	1	2	0.63	1.0	23	63	73	3.90	0.09	182	1.09	1228	7	0.01	94	0.11	13	9	55	0.02	52	<10	162
102+00N-60+40E		0.4	1.50	6	107	<1	<2	0.54	0.3	8	50	24	2.08	0.05	86	0.67	214	2	0.03	41	0.05	8	<5	46	0.03	48	<10	80
102+00N-60+60E		0.2	2.08	8	203	<1	3	0.43	0.5	18	53	31	3.34	0.06	47	0.84	826	4	<0.01	54	0.14	15	6	46	0.01	44	<10	127
102+00N-60+80E		<0.2	1.61	5	163	<1	3	0.32	0.3	10	54	18	3.10	0.07	24	0.92	463	6	<0.01	40	0.07	9	7	37	0.02	47	<10	94
102+00N-61+00E		0.2	1.60	6	115	<1	2	0.40	0.4	10	58	25	2.70	0.05	31	0.93	366	2	<0.01	48	0.06	8	<5	38	0.02	37	<10	88
+00N-61+20E		<0.2	0.92	<5	57	<1	<2	0.08	0.2	5	33	10	1.89	0.05	8	0.41	237	2	<0.01	17	0.04	5	<5	22	0.02	27	<10	54
+00N-61+20E*		<0.2	0.90	<5	56	<1	<2	0.07	0.2	5	33	10	1.84	0.05	8	0.40	236	1	<0.01	17	0.04	4	<5	22	0.02	26	<10	51
102+00N-61+40E		<0.2	1.70	<5	73	<1	<2	0.16	0.3	9	56	20	3.11	0.05	14	0.92	332	3	<0.01	38	0.04	8	<5	29	0.02	50	11	73
102+00N-61+60E		0.3	1.41	5	87	<1	<2	0.34	1.0	12	47	30	2.24	0.05	21	0.61	838	5	0.01	45	0.07	6	<5	35	0.02	31	<10	104
102+00N-61+80E		<0.2	2.12	6	126	<1	<2	0.55	0.2	17	82	27	3.34	0.07	67	1.58	553	4	0.01	74	0.06	9	<5	49	0.03	43	<10	80
102+00N-62+00E		<0.2	1.89	12	102	<1	<2	0.33	0.4	15	91	27	3.35	0.07	20	1.48	491	3	<0.01	73	0.04	7	<5	36	0.03	47	<10	107
102+00N-62+20E		0.2	1.82	11	75	<1	<2	0.28	1.3	13	64	26	3.65	0.06	32	1.20	366	3	<0.01	59	0.05	10	<5	34	0.03	41	<10	97
102+00N-62+40E		<0.2	1.95	10	92	<1	<2	0.41	0.3	13	82	21	3.42	0.05	16	1.47	360	<1	0.01	67	0.04	9	<5	42	0.03	46	<10	80
102+00N-62+60E		0.2	2.39	8	78	<1	<2	0.20	0.4	14	75	26	3.91	0.07	21	1.57	403	<1	<0.01	70	0.06	9	6	30	0.02	46	<10	89
102+00N-62+80E		<0.2	1.34	7	68	<1	<2	0.11	0.2	7	53	16	2.38	0.05	15	0.67	297	1	<0.01	35	0.05	7	<5	24	0.01	36	<10	53
102+00N-63+00E		<0.2	1.77	7	78	<1	<2	0.18	0.3	12	76	23	3.75	0.06	16	1.21	462	1	0.01	59	0.05	9	5	28	0.03	50	<10	74
STD-P1/AU8		0.3	0.97	21	179	<1	<2	0.84	0.4	6	104	23	2.04	0.31	8	0.76	538	49	0.06	28	0.07	44	6	93	0.10	32	<10	134
102+00N-63+20E		0.3	2.23	14	85	<1	<2	0.45	0.3	17	90	36	3.17	0.05	90	1.86	434	4	0.01	93	0.05	6	<5	44	0.02	40	10	77
102+00N-63+40E		0.2	1.94	7	78	<1	<2	0.18	0.3	11	58	22	3.77	0.06	19	1.10	370	2	<0.01	47	0.05	9	<5	29	0.03	46	<10	79
102+00N-63+60E		<0.2	1.71	8	62	<1	<2	0.21	0.3	10	67	16	2.77	0.05	13	1.13	348	3	<0.01	51	0.05	9	<5	30	0.02	38	<10	63
102+00N-63+80E		0.2	2.09	9	158	<1	<2	0.33	0.2	13	69	29	3.08	0.06	32	1.15	665	5	0.01	65	0.10	9	<5	40	0.01	42	<10	84
102+00N-64+00E		<0.2	1.26	<5	107	<1	<2	0.14	0.3	7	37	11	2.49	0.08	16	0.56	428	5	<0.01	19	0.07	8	<5	29	0.01	38	<10	61
102+00N-64+20E		0.2	1.81	7	83	<1	<2	0.13	0.3	10	53	21	4.33	0.07	15	0.71	513	4	<0.01	35	0.08	13	<5	29	0.02	62	<10	88
103+00N-50+00E		0.3	1.77	5	180	<1	<2	0.09	0.4	5	42	14	2.58	0.08	15	0.85	265	3	0.01	17	0.04	13	<5	31	0.07	72	<10	89
103+00N-50+20E		0.2	1.82	<5	147	<1	<2	0.12	0.4	8	43	25	3.71	0.07	17	0.94	328	4	0.01	31	0.06	12	<5	33	0.04	80	<10	114
103+00N-50+40E		0.3	1.72	<5	99	<1	<2	0.09	0.4	8	36	23	2.98	0.05	16	0.75	271	3	0.01	30	0.05	8	<5	28	0.02	44	<10	82
103+00N-50+40E*		0.3	1.71	<5	99	<1	<2	0.09	0.4	8	36	23	2.94	0.05	16	0.74	273	2	<0.01	30	0.06	9	<5	28	0.02	43	<10	81
+00N-50+60E		0.3	2.79	<5	171	<1	<2	0.13	0.5	11	55	35	4.30	0.08	20	1.44	436	2	0.01	44	0.06	18	<5	32	0.08	94	<10	149
+00N-50+80E		0.3	3.02	<5	255	<1	<2	0.17	0.4	9	64	26	4.14	0.14	18	1.75	497	3	0.02	33	0.07	9	6	37	0.12	131	<10	158
103+00N-51+00E		0.5	2.55	<5	191	<1	<2	0.12	0.6	10	50	30	4.04	0.08	23	1.27	388	3	0.01	40	0.06	11	5	34	0.05	80	<10	135
103+00N-51+20E		0.5	2.31	<5	214	<1	<2	0.11	0.5	10	50	26	3.57	0.10	19	1.07	412	3	0.01	33	0.06	11	6	33	0.03	67	<10	108
103+00N-51+40E		0.5	2.23	<5	202	<1	<2	0.11	0.4	10	49	26	4.00	0.08	17	1.12	406	2	0.01	35	0.05	14	<5	31	0.05	78	<10	118
103+00N-51+60E		0.6	2.28	<5	171	<1	<2	0.13	0.4	11	48	29	4.19	0.08	18	1.21	365	2	0.01	40	0.07	8	<5	31	0.04	71	<10	118
103+00N-51+80E		0.4	2.05	<5	226	<1	<2	0.10	0.3	8	45	21	3.52	0.07	24	0.85	309	2	<0.01	28	0.05	9	<5	30	0.03	66	<10	92
103+00N-52+00E		0.7	2.62	<5	187	<1	<2	0.13	0.3	8	52	25	3.94	0.08	18	1.33	336	3	0.01	29	0.05	11	<5	34	0.07	93	<10	122
103+00N-52+20E		0.6	2.68	<5	198	<1	<2	0.10	0.3	10	47	21	4.02	0.09	19	1.24	547	3	0.01	26	0.06	12	<5	29	0.06	84	<10	124
103+00N-52+20E*		0.6	2.76	<5	203	<1	<2	0.10	0.3	10	48	23	4.11	0.10	19	1.27	570	2	0.01	28	0.06	13	<5	30	0.06	86	<10	125
103+00N-52+40E		0.7	2.40	<5	129	<1	<2	0.08	0.2	8	45	31	3.73	0.08	18	1.04	361	1	0.01	29	0.09	11	<5	29	0.04	77	11	109
103+00N-52+60E		0.9	2.83	<5	172	<1	<2	0.06	0.3	7	48	24	3.58	0.09	16	1.15	337	2	0.01	24	0.08	13	<5	30	0.07	88	<10	113
103+00N-52+80E		0.4	2.38	<5	189	<1	<2	0.06	0.2	6	52	20	3.51	0.09	15	1.26	314	2	0.01	21	0.07	16	<5	29	0.09	108	<10	106
103+00N-53+00E		0.3	2.61	6	127	<1	<2	0.09	0.3	8	48	26	4.10	0.07	18	1.17	398	2	0.01	31	0.07	13	<5	30	0.06	91	<10	138
103+00N-53+20E		0.5	2.91	6	115	<1	2	0.07	0.3	11	47	38	4.09	0.06	24	1.16	343	5	0.01	42	0.07	14	<5	30	0.04	70	<10	129
103+00N-53+40E		0.5	3.51	7	212	<1	<2	0.18	0.3	9	61	24	4.56	0.11	18	1.61	472	2	0.02	30	0.10	14	<5	32	0.10	118	<10	182
103+00N-53+60E		0.9	2.66	<5	140	<1	2	0.07	0.4	7	45	25	3.95	0.07	19	1.04	332	2	0.01	29	0.07	14	<5	30	0.04	78	<10	122
103+00N-53+80E		0.5	3.14	7	177	<1	<2	0.11	0.3	10	53	27	4.56	0.08	20	1.53	454	<1	0.01	35	0.07	12	<5	31	0.08	103	<10	149
103+00N-54+00E		0.5	2.81	<5	133	<1	<2	0.06	0.2	8	44	26	4.10	0.07	17	1.07	368	3	0.01	29	0.07	13	<5	28	0.05	82	<10	127
STD-P1/AU8		0.3	1.07	22	196	<1	<2	0.90	0.4	6	110	24	2.26	0.32	8	0.82	583	49	0.06	30	0.08	48	<5	101	0.11	36	<10	143

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE
Geol.: R STROSHEIN
Lab Project No.: P1418
Date Received: JUL 9, 1991
Date Completed: JUL 19, 1991

Attn: R STROSHEIN, J KOWALCHUK, E KIMURA, R HODGSON

Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
103+00N-54+20E		0.5	2.12	<5	145	<1	<2	0.06	0.2	7	40	22	3.08	0.06	14	0.94	245	<1	0.01	20	0.05	9	<5	26	0.05	63	11	92
103+00N-54+40E		0.5	2.95	<5	209	<1	<2	0.08	0.2	8	52	18	4.16	0.10	14	1.50	374	<1	0.01	22	0.06	12	<5	28	0.12	110	<10	134
103+00N-54+60E		0.4	2.87	10	231	<1	<2	0.16	0.3	9	51	23	4.38	0.10	16	1.47	369	<1	0.01	30	0.09	11	<5	32	0.09	101	<10	137
103+00N-54+80E		0.3	2.91	7	192	<1	<2	0.10	0.4	7	52	17	3.82	0.09	13	1.34	337	2	0.01	22	0.07	12	<5	29	0.10	102	<10	128
103+00N-55+00E		0.4	2.68	6	145	<1	<2	0.11	0.3	10	44	30	4.53	0.07	19	1.23	410	<1	0.01	33	0.08	12	<5	29	0.06	96	<10	138
103+00N-55+20E		0.5	1.60	<5	126	<1	<2	0.08	0.2	5	28	11	2.43	0.08	8	0.76	230	<1	0.01	9	0.05	9	<5	24	0.04	48	<10	74
103+00N-55+40E		0.3	3.01	<5	297	<1	<2	0.11	0.3	8	50	16	3.88	0.17	13	1.34	353	<1	0.02	16	0.07	12	<5	31	0.09	87	<10	115
103+00N-55+60E		0.4	3.30	8	285	<1	<2	0.12	0.3	9	47	15	4.07	0.19	14	1.44	453	<1	0.01	17	0.08	13	9	29	0.10	90	<10	132
103+00N-55+80E		0.5	3.13	8	250	<1	<2	0.11	0.2	9	52	20	4.57	0.17	15	1.50	358	<1	0.02	22	0.09	13	6	31	0.12	105	<10	134
103+00N-55+80E*		0.4	3.09	6	248	<1	<2	0.12	0.2	9	53	20	4.51	0.17	15	1.48	353	<1	0.02	23	0.09	13	<5	31	0.12	104	<10	132
103+00N-56+00E		0.3	2.12	<5	144	<1	<2	0.06	0.2	7	36	38	3.86	0.08	12	0.84	402	3	<0.01	14	0.08	15	<5	27	0.06	81	<10	83
103+00N-56+20E		0.5	3.31	<5	246	<1	<2	0.14	0.5	11	50	32	4.08	0.12	19	1.34	358	3	0.02	26	0.09	12	<5	33	0.06	82	<10	124
103+00N-56+40E		0.8	3.13	6	311	1	<2	0.16	0.7	15	75	69	5.10	0.16	29	1.21	580	7	0.01	85	0.11	22	6	31	0.02	110	<10	208
103+00N-56+60E		0.7	1.86	<5	122	<1	<2	0.04	0.4	7	36	26	3.31	0.05	15	0.51	636	3	<0.01	19	0.07	20	<5	28	0.02	70	<10	88
103+00N-56+80E		0.6	2.11	<5	158	<1	<2	0.07	0.4	8	46	23	3.86	0.08	15	0.88	464	2	<0.01	23	0.08	14	7	29	0.03	75	<10	102
103+00N-57+00E		0.5	2.03	6	133	<1	<2	0.10	0.6	9	40	27	2.81	0.08	15	0.74	653	2	0.01	25	0.07	10	<5	28	0.03	45	<10	89
103+00N-57+20E		0.6	2.27	7	100	<1	<2	0.10	0.3	8	40	37	4.23	0.05	15	0.65	299	3	<0.01	32	0.09	14	<5	32	0.01	51	<10	112
103+00N-57+40E		0.4	1.32	<5	111	<1	<2	0.09	0.3	7	32	24	2.89	0.05	12	0.40	486	3	<0.01	21	0.08	15	<5	32	<0.01	50	<10	80
103+00N-57+60E		0.4	2.09	<5	103	<1	<2	0.06	0.3	8	41	30	4.27	0.06	17	0.83	370	3	<0.01	32	0.07	14	<5	30	0.02	67	<10	112
103+00N-57+60E*		0.4	2.01	7	99	<1	<2	0.06	0.2	8	41	29	4.16	0.06	16	0.80	360	3	<0.01	32	0.07	13	<5	29	0.02	64	<10	110
103+00N-57+80E		0.5	1.86	<5	248	<1	<2	0.08	0.6	23	33	27	3.82	0.07	14	0.51	2860	4	0.01	22	0.12	33	<5	33	0.01	56	<10	101
103+00N-58+00E		0.2	2.91	<5	197	<1	<2	0.09	0.1	8	64	28	4.55	0.16	14	1.29	369	5	0.01	25	0.09	15	<5	30	0.04	87	<10	129
103+00N-58+20E		0.2	1.29	<5	251	<1	<2	0.09	0.4	23	34	18	2.53	0.13	9	0.46	4256	5	<0.01	17	0.09	29	<5	31	0.01	45	<10	88
103+00N-58+40E		0.5	2.18	<5	99	<1	3	0.08	0.3	8	41	28	3.58	0.09	16	0.78	440	3	0.01	29	0.10	15	<5	29	0.02	55	<10	101
103+00N-58+60E		0.2	1.51	<5	87	<1	<2	0.09	0.3	7	29	21	3.12	0.05	11	0.42	287	3	<0.01	26	0.15	15	<5	36	<0.01	35	<10	96
103+00N-58+80E		0.2	2.08	<5	92	<1	<2	0.09	0.3	13	34	27	3.60	0.07	16	0.67	715	3	<0.01	32	0.11	16	<5	30	0.02	44	<10	109
103+00N-59+00E		0.2	1.23	<5	106	<1	<2	0.10	0.3	10	27	21	3.27	0.09	13	0.34	813	7	<0.01	18	0.17	17	<5	37	<0.01	44	<10	85
103+00N-59+20E		0.3	2.65	<5	86	1	<2	0.08	0.6	13	31	28	3.98	0.08	23	0.56	761	<1	<0.01	28	0.13	18	6	31	0.02	39	<10	102
103+00N-59+40E		0.2	1.82	<5	112	<1	<2	0.03	0.4	10	31	28	3.43	0.05	16	0.52	576	2	<0.01	29	0.17	19	7	26	<0.01	38	<10	100
STD-P1/AU8		0.2	1.01	21	184	<1	<2	0.86	0.4	6	105	22	2.05	0.33	7	0.77	544	46	0.06	28	0.07	45	7	96	0.10	32	<10	133
103+00N-59+60E		<0.2	1.53	<5	127	<1	<2	0.07	0.9	11	35	29	3.13	0.07	16	0.43	698	5	<0.01	22	0.20	11	<5	29	<0.01	46	<10	94
103+00N-59+80E		0.2	2.30	<5	115	1	<2	0.11	0.8	12	40	29	3.29	0.08	17	0.46	883	7	<0.01	24	0.22	21	6	33	0.02	40	<10	95
103+00N-60+00E		<0.2	1.33	8	100	<1	<2	0.09	0.4	8	39	35	3.80	0.07	14	0.50	315	5	<0.01	30	0.11	12	<5	30	0.01	48	<10	97
103+00N-60+20E		<0.2	2.01	10	141	<1	3	0.24	0.9	15	37	49	4.33	0.07	47	0.82	605	5	0.01	52	0.10	18	<5	39	0.02	50	<10	131
103+00N-60+40E		0.4	1.60	6	138	<1	<2	0.05	0.6	17	29	35	3.93	0.06	26	0.43	1983	6	<0.01	32	0.12	23	7	28	<0.01	50	<10	132
103+00N-60+60E		0.4	1.92	<5	311	1	2	0.22	1.1	53	32	24	2.62	0.06	32	0.37	5287	12	<0.01	24	0.24	30	6	40	0.01	30	<10	93
103+00N-60+80E		0.5	1.41	<5	89	<1	<2	0.09	0.7	11	38	29	2.65	0.05	12	0.40	1433	6	<0.01	26	0.13	14	<5	28	<0.01	39	<10	86
103+00N-61+00E		<0.2	1.35	<5	139	<1	<2	0.17	0.9	24	33	33	2.80	0.05	26	0.37	2621	7	0.01	31	0.12	17	<5	35	0.01	37	<10	95
103+00N-61+20E		<0.2	1.72	<5	138	<1	<2	0.09	0.4	13	34	24	3.59	0.08	15	0.48	1546	2	<0.01	24	0.12	19	5	31	0.01	48	<10	112
103+00N-61+20E*		<0.2	1.80	<5	148	<1	<2	0.09	0.4	13	35	24	3.78	0.08	16	0.50	1687	4	<0.01	25	0.13	20	6	32	0.01	51	<10	117
103+00N-61+40E		0.3	2.38	6	87	<1	<2	0.08	0.4	13	37	38	3.61	0.06	23	0.64	644	<1	<0.01	34	0.12	15	5	29	0.01	45	<10	96
103+00N-61+60E		<0.2	1.73	<5	63	<1	<2	0.04	0.3	7	32	23	3.99	0.06	16	0.49	375	<1	<0.01	22	0.09	10	<5	24	0.01	52	<10	93
103+00N-61+80E		0.2	1.59	<5	69	<1	<2	0.09	0.3	8	31	28	2.53	0.06	29	0.52	259	<1	0.01	30	0.08	9	<5	28	0.02	32	<10	81
103+00N-62+00E		0.4	1.71	7	96	<1	<2	0.10	0.5	15	35	39	3.65	0.05	24	0.70	589	<1	<0.01	47	0.14	13	<5	27	0.01	42	<10	134
103+00N-62+20E		<0.2	1.94	7	88	<1	<2	0.24	0.5	13	44	25	3.90	0.07	20	0.90	612	<1	<0.01	42	0.09	13	10	36	0.02	46	<10	124
103+00N-62+40E		<0.2	1.80	<5	115	<1	<2	0.15	0.3	13	37	26	3.64	0.09	18	0.64	1092	<1	<0.01	29	0.11	18	<5	29	0.01	49	<10	100
103+00N-62+60E		<0.2	1.45	<5	45	<1	<2	0.07	0.2	5	36	23	2.20	0.03	13	0.53	161	<1	<0.01	26	0.08	6	<5	24	0.01	28	<10	66
103+00N-62+80E		0.2	1.65	9	130	<1	<2	0.10	0.3	11	45	24	3.83	0.07	17	0.63	1513	<1	<0.01	30	0.19	14	<5	30	<0.01	50	<10	92
103+00N-63+00E		<0.2	1.08	<5	104	<1	<2	0.12	0.2	10	33	21	2.09	0.05	12	0.28	1652	<1	<0.01	16	0.10	13	<5	27	<0.01	31	<10	57
103+00N-63+00E*		<0.2	1.10	<5	106	<1	<2	0.12	0.2	10	33	21	2.10	0.05	11	0.28	1665	<1	<0.01	16	0.11	13	<5	28	<0.01	31	<10	58

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: JUL 9, 1991 | Page 4 of 8
Area: FIRE LAKE | Lab Project No.: P1418 | Date Completed: JUL 19, 1991 | Attn: R STROSHEIN
Remarks: J KOWALCHUK
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB) E KIMURA
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours. R HODGSON
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
103+00N-63+20E		<0.2	1.00	<5	136	<1	<2	0.07	0.2	14	22	17	2.73	0.08	12	0.31	2112	2	<0.01	12	0.09	20	<5	24	0.01	39	<10	75
103+00N-63+40E		0.3	0.90	<5	72	<1	<2	0.06	0.3	4	27	17	1.47	0.03	11	0.19	449	1	<0.01	13	0.10	8	<5	29	<0.01	17	<10	49
103+00N-63+60E		0.2	1.22	<5	51	<1	<2	0.38	0.3	6	30	18	1.54	0.05	122	0.28	280	5	0.02	18	0.08	11	<5	40	0.01	18	<10	45
103+00N-63+80E		0.3	1.79	6	160	<1	2	0.48	1.7	22	40	32	3.82	0.11	36	0.67	949	7	<0.01	41	0.20	18	6	56	0.01	41	<10	161
103+00N-64+00E		<0.2	0.70	<5	69	<1	<2	0.24	0.4	4	25	18	1.67	0.09	13	0.18	173	5	<0.01	9	0.09	9	<5	31	<0.01	29	<10	69
103+00N-64+20E		<0.2	2.09	9	159	<1	<2	0.55	0.2	13	44	22	3.83	0.10	21	1.04	610	3	<0.01	37	0.11	13	12	54	0.02	49	<10	123
104+00N-50+00E		<0.2	3.63	<5	332	<1	3	0.18	1.5	12	106	36	4.31	0.16	18	1.79	464	3	0.02	68	0.08	19	6	36	0.08	118	<10	206
104+00N-50+20E		0.4	2.51	9	322	<1	<2	0.06	3.0	15	134	33	3.88	0.06	18	1.39	667	3	0.01	72	0.06	12	6	30	0.05	123	<10	144
+00N-50+40E		0.4	2.29	11	201	<1	<2	0.05	0.7	9	58	29	3.89	0.09	18	1.11	320	3	0.01	47	0.07	15	6	33	0.05	84	<10	151
+00N-50+40E*		0.4	2.33	9	202	<1	<2	0.05	0.7	9	58	29	3.93	0.09	18	1.12	322	3	0.01	48	0.07	12	<5	33	0.05	85	<10	152
104+00N-50+60E		0.6	2.25	5	108	<1	<2	0.11	0.4	9	30	37	4.15	0.12	33	0.70	233	2	0.03	36	0.11	16	<5	63	0.01	37	12	100
104+00N-50+80E		0.2	1.30	<5	99	<1	<2	0.04	0.6	4	32	22	2.25	0.05	12	0.49	230	3	<0.01	18	0.05	12	<5	28	0.02	63	<10	90
104+00N-51+00E		0.2	1.86	<5	191	<1	<2	0.07	1.3	6	39	22	2.99	0.06	14	0.73	265	2	<0.01	21	0.06	12	<5	29	0.02	66	<10	115
104+00N-51+20E		0.2	2.46	<5	203	<1	<2	0.12	0.7	7	45	18	3.25	0.07	15	1.11	308	3	0.01	18	0.06	11	6	29	0.06	72	<10	107
104+00N-51+40E		0.4	2.72	<5	166	<1	<2	0.06	2.3	8	47	22	3.56	0.07	13	1.06	407	5	0.01	21	0.06	15	<5	30	0.10	87	<10	137
104+00N-51+60E		<0.2	2.03	<5	192	<1	<2	0.08	0.6	6	40	19	3.20	0.09	12	0.99	294	1	0.01	19	0.05	11	<5	33	0.08	74	<10	108
104+00N-51+80E		0.3	1.61	<5	177	<1	<2	0.06	0.8	5	37	21	2.62	0.05	14	0.54	211	2	<0.01	15	0.08	13	<5	34	0.01	53	<10	86
104+00N-52+00E		0.3	2.76	<5	186	<1	<2	0.12	0.9	9	50	27	4.01	0.11	16	1.29	400	5	0.01	28	0.07	12	<5	36	0.06	81	<10	141
104+00N-52+20E		0.6	2.94	5	231	<1	<2	0.11	0.5	9	54	22	4.24	0.13	17	1.45	443	1	0.02	23	0.07	11	<5	30	0.10	94	<10	125
104+00N-52+20E*		0.7	2.95	<5	231	<1	<2	0.11	0.5	10	54	22	4.24	0.13	17	1.45	444	2	0.02	24	0.07	12	9	30	0.10	94	<10	125
104+00N-52+40E		0.3	3.35	7	259	<1	3	0.13	0.5	9	57	27	4.73	0.17	17	1.43	375	2	0.01	26	0.08	12	<5	33	0.12	103	<10	149
104+00N-52+60E		<0.2	2.85	<5	183	<1	<2	0.05	0.2	8	47	23	3.98	0.14	15	1.12	402	2	0.01	23	0.06	15	<5	27	0.10	80	<10	125
104+00N-52+80E		0.7	2.82	5	146	<1	2	0.06	0.5	8	46	29	3.72	0.09	15	0.97	323	<1	<0.01	26	0.08	11	<5	27	0.08	74	<10	118
104+00N-53+00E		0.2	1.83	<5	112	<1	<2	0.09	0.2	6	37	17	2.77	0.06	11	0.79	268	<1	0.01	17	0.05	12	<5	27	0.06	61	<10	82
104+00N-53+20E		0.2	2.95	<5	264	<1	6	0.09	0.4	9	62	19	4.38	0.19	13	1.48	402	5	0.01	19	0.06	13	<5	28	0.07	99	<10	142
104+00N-53+40E		0.3	3.19	<5	215	<1	5	0.13	0.4	9	64	21	4.15	0.11	15	1.33	444	1	0.02	21	0.07	14	<5	31	0.06	94	<10	146
104+00N-53+60E		0.3	2.72	<5	187	<1	4	0.07	0.4	8	59	18	3.90	0.10	12	1.24	427	<1	0.01	18	0.06	13	<5	27	0.09	91	<10	120
104+00N-53+80E		0.2	2.03	<5	125	<1	4	0.06	0.9	7	40	25	3.54	0.06	16	0.65	367	2	<0.01	24	0.07	15	<5	28	0.02	64	<10	118
104+00N-54+00E		<0.2	1.50	<5	133	<1	2	0.04	0.4	4	37	15	2.38	0.06	11	0.55	267	2	<0.01	12	0.06	12	<5	26	0.02	51	<10	74
104+00N-54+00E*		<0.2	1.49	<5	131	<1	2	0.05	0.4	5	37	14	2.36	0.06	10	0.55	271	<1	<0.01	11	0.06	13	<5	26	0.02	51	<10	76
+00N-54+20E		0.9	2.02	<5	179	<1	<2	0.09	0.6	8	45	26	3.53	0.08	16	0.83	359	<1	<0.01	22	0.06	15	7	36	0.03	69	<10	111
104+00N-54+40E		0.5	3.37	<5	161	<1	<2	0.14	0.4	9	59	25	3.84	0.11	15	1.24	393	<1	0.01	24	0.09	15	9	31	0.06	76	<10	103
104+00N-54+60E		0.8	2.29	<5	132	<1	2	0.06	0.5	5	42	22	3.12	0.06	14	0.65	242	4	<0.01	21	0.10	13	<5	29	0.02	57	<10	91
104+00N-54+80E		0.3	1.67	<5	124	<1	<2	0.08	0.3	5	38	20	2.84	0.06	13	0.59	244	<1	<0.01	18	0.07	12	6	33	0.02	54	<10	85
104+00N-55+00E		0.4	1.76	<5	174	<1	<2	0.07	0.5	5	34	22	2.67	0.07	15	0.62	311	1	0.01	19	0.09	13	<5	32	0.01	52	<10	88
104+00N-55+20E		0.5	1.92	<5	114	<1	<2	0.07	0.3	7	41	28	3.74	0.08	14	0.70	530	<1	0.01	24	0.10	14	6	34	0.01	62	<10	126
104+00N-55+40E		<0.2	2.04	<5	132	<1	<2	0.06	0.3	6	49	21	3.30	0.08	12	0.78	490	<1	0.01	19	0.06	13	<5	26	0.03	67	<10	105
104+00N-55+60E		0.2	1.65	<5	189	<1	<2	0.03	0.5	8	32	32	3.01	0.07	17	0.38	621	1	<0.01	27	0.08	28	<5	33	0.01	71	<10	106
104+00N-55+80E		0.3	2.46	<5	152	<1	<2	0.08	0.3	8	54	21	4.09	0.12	14	1.14	418	<1	0.01	24	0.06	12	5	27	0.06	87	<10	122
104+00N-55+80E*		0.3	2.46	<5	153	<1	<2	0.09	0.3	8	54	22	4.13	0.12	14	1.16	419	<1	0.01	24	0.06	14	7	27	0.06	88	<10	123
104+00N-56+00E		0.3	2.56	<5	148	<1	3	0.17	0.3	9	53	29	4.04	0.11	16	1.13	419	<1	0.01	26	0.09	14	<5	34	0.04	79	<10	134
104+00N-56+20E		0.7	2.36	<5	101	<1	<2	0.09	0.5	8	39	27	3.67	0.06	16	0.72	336	<1	<0.01	24	0.08	14	<5	26	0.03	57	<10	102
104+00N-56+40E		0.6	2.92	<5	157	1	<2	0.08	0.4	22	44	26	3.38	0.08	17	0.91	1139	<1	0.01	18	0.10	27	<5	29	0.02	63	<10	117
104+00N-56+60E		0.2	3.34	<5	187	<1	<2	0.11	0.3	8	63	24	3.94	0.12	14	1.31	340	<1	0.01	23	0.07	13	<5	32	0.06	87	<10	140
104+00N-56+80E		0.3	1.34	<5	81	<1	<2	0.09	0.1	5	31	11	1.51	0.05	6	0.38	224	2	0.01	11	0.06	8	<5	28	0.02	28	<10	60
104+00N-57+00E		0.2	2.88	<5	149	<1	<2	0.06	0.3	8	55	22	3.99	0.08	11	1.11	458	3	0.01	22	0.07	14	<5	30	0.04	81	<10	131
104+00N-57+20E		0.4	1.72	<5	71	<1	<2	0.04	0.3	5	34	25	2.89	0.04	13	0.47	221	5	<0.01	21	0.08	14	<5	28	0.01	47	<10	82
104+00N-57+40E		0.2	2.22	<5	163	<1	3	0.09	0.3	10	49	23	3.42	0.12	13	0.81	942	<1	0.01	23	0.08	21	<5	29	0.03	69	<10	101
104+00N-57+60E		0.4	1.42	<5	238	<1	3	0.05	0.5	17	24	21	2.16	0.05	11	0.21	2656	2	<0.01	13	0.16	29	<5	31	<0.01	27	<10	87
STD-P1/AU8		0.2	1.01	21	184	<1	3	0.87	0.3	6	105	24	2.06	0.33	7	0.79	552	46	0.06	28	0.08	48	8	95	0.11	33	<10	139

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

Geol.: R STROSHEIN
Lab Project No.: P1418

Date Received: JUL 9, 1991
Date Completed: JUL 19, 1991

Attn: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
104+00N-57+80E		0.3	2.01	6	113	<1	<2	0.07	0.3	14	29	23	3.18	0.06	13	0.34	1590	<1	<0.01	20	0.18	35	<5	31	0.01	31	<10	92
104+00N-58+00E		0.2	1.13	<5	59	<1	<2	0.11	0.3	5	25	15	1.47	0.04	9	0.23	383	<1	0.01	16	0.07	9	<5	30	0.01	17	<10	63
104+00N-58+20E		0.2	2.12	8	72	<1	3	0.07	0.2	7	30	26	3.78	0.07	16	0.48	479	<1	<0.01	23	0.17	17	6	26	0.01	41	<10	107
104+00N-58+40E		0.3	2.02	<5	70	<1	2	0.03	0.3	7	28	29	3.56	0.05	19	0.45	243	<1	<0.01	28	0.17	16	<5	27	0.01	41	<10	105
104+00N-58+60E		<0.2	1.11	6	275	<1	<2	0.16	0.7	20	24	22	2.24	0.08	11	0.25	3709	2	<0.01	17	0.17	19	<5	41	<0.01	26	<10	101
104+00N-58+80E		<0.2	2.21	<5	69	1	<2	0.07	0.4	11	29	34	3.57	0.05	23	0.58	387	<1	<0.01	36	0.11	17	<5	27	0.01	37	<10	108
104+00N-59+00E		0.2	1.72	<5	83	<1	<2	0.07	0.2	8	29	29	4.20	0.05	16	0.46	413	<1	<0.01	28	0.17	16	<5	33	<0.01	43	<10	106
104+00N-59+20E		0.8	2.94	<5	74	2	<2	0.27	1.1	14	29	40	3.27	0.05	119	0.56	366	<1	<0.01	43	0.13	18	<5	43	0.02	31	<10	121
+00N-59+40E		0.3	1.65	<5	60	<1	<2	0.19	0.2	7	30	19	2.45	0.04	20	0.40	177	<1	0.01	24	0.10	10	<5	33	0.01	29	<10	74
+00N-59+40E*		0.3	1.64	<5	59	<1	<2	0.20	0.1	7	29	20	2.44	0.04	19	0.40	175	2	0.01	24	0.10	10	<5	33	0.01	29	<10	87
104+00N-59+60E		<0.2	0.71	<5	35	<1	<2	0.05	0.1	4	24	14	1.36	0.02	8	0.15	343	<1	0.01	9	0.06	6	<5	23	<0.01	19	<10	40
104+00N-59+80E		0.2	1.23	<5	50	<1	<2	0.06	0.1	6	26	20	2.04	0.03	11	0.27	287	<1	0.01	17	0.13	10	<5	25	<0.01	22	<10	64
104+00N-60+00E		<0.2	2.04	<5	73	<1	<2	0.06	0.3	12	33	42	4.04	0.05	27	0.72	382	6	<0.01	44	0.09	17	<5	29	0.02	44	<10	106
104+00N-60+20E		<0.2	2.10	8	112	<1	<2	0.09	0.4	10	32	39	4.32	0.05	29	0.61	387	3	0.01	44	0.10	17	<5	38	0.02	47	<10	118
104+00N-60+40E		<0.2	1.94	9	118	<1	<2	0.06	0.1	7	33	23	3.44	0.10	21	0.47	599	<1	<0.01	19	0.17	14	8	27	<0.01	47	<10	78
104+00N-60+60E		0.2	1.46	15	168	<1	<2	0.23	0.6	21	27	26	2.81	0.06	27	0.41	2399	3	<0.01	28	0.17	23	<5	36	<0.01	28	<10	98
104+00N-60+80E		<0.2	1.76	14	72	<1	<2	0.08	0.2	9	37	22	2.73	0.07	17	0.54	369	1	<0.01	35	0.08	12	<5	27	0.02	34	<10	73
104+00N-61+00E		<0.2	2.26	<5	96	<1	<2	0.13	0.2	10	33	25	3.34	0.11	19	0.59	525	<1	<0.01	30	0.10	17	<5	33	0.02	37	<10	92
104+00N-61+20E		<0.2	0.55	<5	26	<1	<2	0.04	<0.1	2	22	6	0.75	0.02	5	0.09	81	<1	0.01	5	0.04	3	<5	21	0.01	12	<10	24
104+00N-61+20E*		<0.2	0.57	<5	27	<1	<2	0.04	<0.1	2	23	6	0.74	0.03	6	0.09	80	<1	0.01	5	0.04	3	<5	21	0.01	12	<10	25
104+00N-61+40E		0.2	2.12	<5	75	<1	<2	0.06	0.3	8	30	30	3.01	0.06	18	0.45	501	2	<0.01	20	0.13	13	<5	27	0.01	35	<10	92
104+00N-61+60E		<0.2	2.43	<5	59	<1	3	0.10	0.1	10	31	27	2.89	0.09	22	0.65	411	<1	<0.01	23	0.08	14	<5	25	0.03	32	<10	93
104+00N-62+00E		<0.2	2.67	9	59	<1	3	0.06	<0.1	11	36	28	3.35	0.06	18	0.63	585	2	<0.01	26	0.16	22	<5	24	0.02	26	<10	95
104+00N-62+20E		<0.2	2.40	13	60	1	<2	0.08	0.2	10	30	21	3.78	0.10	21	0.63	345	<1	<0.01	22	0.10	12	5	26	0.01	37	<10	93
104+00N-62+40E		1.0	1.89	10	57	1	<2	0.43	0.4	9	38	43	2.92	0.04	107	0.55	313	2	0.01	50	0.11	16	<5	42	0.01	31	<10	103
104+00N-62+60E		<0.2	1.54	<5	112	<1	<2	0.06	0.2	11	28	20	2.85	0.07	12	0.31	1135	1	0.02	16	0.15	20	<5	24	<0.01	31	<10	86
104+00N-62+80E		0.2	2.11	6	73	1	<2	0.10	0.4	10	38	31	3.49	0.05	25	0.52	551	11	<0.01	33	0.18	12	<5	29	0.01	37	<10	104
104+00N-63+00E		<0.2	1.85	11	77	<1	<2	0.11	0.3	10	33	26	2.96	0.07	20	0.55	462	<1	<0.01	29	0.11	12	<5	27	0.02	34	<10	93
104+00N-63+20E		<0.2	2.11	10	81	<1	<2	0.10	0.3	11	36	26	3.24	0.10	21	0.64	562	1	<0.01	33	0.09	15	<5	27	0.02	39	<10	97
STD-P1/AU8		0.2	0.99	22	177	<1	<2	0.85	0.4	6	103	23	2.06	0.32	7	0.77	535	45	0.06	29	0.07	44	10	84	0.10	32	<10	134
+00N-63+40E		<0.2	1.43	6	55	<1	<2	0.05	<0.1	5	31	18	2.25	0.06	12	0.30	273	<1	<0.01	14	0.08	7	<5	24	<0.01	27	10	58
+00N-63+60E		<0.2	1.69	6	56	<1	<2	0.09	0.1	7	30	20	2.34	0.06	18	0.42	327	<1	<0.01	23	0.07	10	<5	24	0.02	27	<10	65
104+00N-63+80E		<0.2	2.38	<5	58	<1	<2	0.06	0.2	8	36	26	3.21	0.05	25	0.58	340	2	<0.01	28	0.10	16	<5	24	0.02	37	<10	81
104+00N-64+00E		<0.2	1.82	<5	84	<1	<2	0.05	<0.1	9	30	19	2.88	0.07	13	0.34	915	<1	<0.01	14	0.08	17	<5	23	0.02	33	<10	65
104+00N-64+20E		0.2	2.16	14	77	<1	<2	0.09	0.3	12	46	34	3.51	0.07	23	0.66	614	2	<0.01	45	0.10	16	<5	27	0.02	42	<10	104
104+00N-64+40E		<0.2	1.82	14	55	<1	<2	0.08	0.2	8	40	23	2.54	0.04	17	0.51	252	2	<0.01	34	0.07	12	<5	25	0.02	32	<10	76
104+00N-64+60E		0.2	0.99	7	845	<1	<2	0.12	1.1	34	31	19	2.19	0.11	10	0.15	12465	2	<0.01	22	0.17	36	<5	29	<0.01	36	<10	122
104+00N-64+80E		0.4	1.41	<5	277	<1	<2	0.03	0.1	9	55	22	2.79	0.10	12	0.47	1669	<1	<0.01	31	0.10	12	<5	22	<0.01	51	<10	86
104+00N-65+00E		0.5	2.09	11	275	<1	<2	0.06	0.2	9	64	26	4.06	0.13	14	0.59	631	<1	<0.01	35	0.18	17	<5	26	0.01	53	<10	85
104+00N-65+00E*		0.8	2.08	9	276	<1	<2	0.06	0.2	9	63	26	4.20	0.13	15	0.59	650	<1	<0.01	34	0.17	18	<5	26	0.01	53	<10	87
105+00N-50+00E		<0.2	2.51	<5	128	1	<2	0.11	0.6	16	34	41	3.85	0.06	37	0.71	390	2	0.01	50	0.08	18	<5	56	0.03	45	<10	102
105+00N-50+20E		0.2	0.80	<5	31	<1	<2	0.02	0.1	3	24	13	1.66	0.03	8	0.24	140	<1	0.01	11	0.05	5	<5	25	<0.01	23	<10	46
105+00N-50+40E		0.3	1.74	<5	95	<1	<2	0.03	0.2	5	31	23	3.04	0.05	19	0.53	221	1	<0.01	24	0.07	14	<5	37	0.02	54	<10	89
105+00N-50+60E		0.5	1.53	<5	68	<1	<2	0.02	0.2	4	26	25	2.75	0.04	16	0.38	247	3	<0.01	21	0.09	15	<5	35	<0.01	37	<10	83
105+00N-50+80E		0.2	1.01	<5	62	<1	<2	0.03	0.2	3	24	19	1.77	0.03	11	0.21	115	3	0.01	16	0.05	7	<5	30	<0.01	29	<10	53
105+00N-51+00E		0.4	2.80	14	167	<1	<2	0.08	0.5	8	48	35	4.41	0.08	21	1.09	432	3	0.01	48	0.15	16	<5	47	0.06	79	<10	152
105+00N-51+20E		0.4	2.67	<5	142	<1	<2	0.07	0.4	10	48	28	3.79	0.08	18	0.91	652	<1	<0.01	34	0.10	12	<5	36	0.04	65	<10	152
105+00N-51+40E		<0.2	0.44	<5	18	<1	<2	0.03	<0.1	1	20	5	0.74	0.02	3	0.05	43	<1	0.01	2	0.03	<2	<5	21	0.01	10	<10	21
105+00N-51+80E		0.2	1.38	<5	126	<1	<2	0.21	0.7	8	30	22	2.21	0.06	19	0.51	398	4	0.01	30	0.09	8	<5	45	0.01	37	<10	94
105+00N-51+80E*		0.2	1.39	<5	127	<1	<2	0.21	0.7	8	30	22	2.22	0.06	19	0.51	393	4	0.01	30	0.09	9	<5	47	0.01	37	<10	94

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE
Geol.: R STROSHEIN
Lab Project No.: P1418
Date Received: JUL 9, 1991
Date Completed: JUL 19, 1991

Attn: R STROSHEIN, J KOWALCHUK, E KIMURA, R HODGSON

Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
105+00N-52+00E		0.4	0.32	<5	49	<1	<2	0.02	0.5	1	23	9	0.47	0.01	4	0.03	22	1	<0.01	4	0.05	3	<5	21	<0.01	9	<10	20
105+00N-52+20E		0.3	2.23	<5	119	<1	<2	0.05	0.2	8	41	25	3.56	0.06	18	0.72	282	3	0.01	27	0.06	13	<5	35	0.04	65	<10	98
105+00N-52+40E		1.1	2.12	<5	138	<1	<2	0.05	0.7	7	41	29	2.63	0.06	16	0.53	502	4	0.01	18	0.09	15	<5	30	<0.01	53	<10	78
105+00N-52+60E		0.4	3.01	<5	249	<1	<2	0.10	0.7	9	58	19	4.08	0.18	14	1.22	550	4	0.01	18	0.08	13	<5	29	0.06	84	<10	130
105+00N-52+80E		0.6	2.60	8	215	<1	<2	0.12	0.8	9	57	26	3.84	0.16	13	1.15	481	3	0.01	27	0.06	16	<5	37	0.06	83	<10	132
105+00N-53+00E		1.5	2.81	<5	161	<1	<2	0.06	0.5	7	52	22	3.77	0.08	19	0.98	347	5	<0.01	22	0.08	13	<5	28	0.04	70	<10	103
105+00N-53+20E		0.3	2.44	<5	172	<1	3	0.07	0.3	8	53	19	3.73	0.12	12	1.13	439	5	0.01	18	0.06	12	<5	28	0.05	83	<10	109
105+00N-53+40E		0.6	2.12	7	167	<1	2	0.05	0.5	11	43	21	3.70	0.08	12	0.70	1194	8	<0.01	15	0.07	23	<5	30	0.03	76	<10	92
+00N-53+60E		0.4	2.29	8	179	<1	<2	0.08	0.5	8	45	20	4.14	0.08	12	0.89	444	6	<0.01	17	0.07	15	<5	34	0.05	75	<10	116
-P1/AU8		0.2	1.02	22	192	<1	<2	0.87	0.4	6	106	24	2.16	0.33	8	0.80	567	53	0.06	30	0.08	48	<5	96	0.11	33	<10	140
105+00N-53+80E		0.4	2.12	<5	138	<1	<2	0.10	0.4	8	41	19	2.26	0.09	12	0.64	392	4	0.02	12	0.08	9	<5	26	0.03	46	<10	69
105+00N-54+00E		0.3	1.96	<5	112	<1	<2	0.07	0.4	6	41	23	3.02	0.05	15	0.68	251	3	<0.01	23	0.08	12	<5	29	0.01	55	<10	92
105+00N-54+20E		0.3	2.30	<5	227	<1	<2	0.10	0.8	10	54	27	3.72	0.11	14	1.02	633	4	0.01	28	0.07	17	<5	34	0.05	90	<10	132
105+00N-54+40E		0.6	2.90	<5	232	<1	<2	0.12	0.9	11	60	25	3.87	0.15	16	1.30	692	4	0.02	23	0.07	17	6	32	0.05	88	<10	150
105+00N-54+60E		0.2	1.96	<5	128	<1	<2	0.11	0.4	10	39	29	3.09	0.08	23	0.78	489	3	0.01	31	0.08	13	<5	31	0.03	51	<10	101
105+00N-54+80E		0.2	2.23	6	134	<1	<2	0.06	0.3	8	42	35	4.24	0.10	20	0.76	387	5	0.01	31	0.10	14	6	36	0.01	61	<10	112
105+00N-55+00E		0.3	1.72	<5	89	<1	<2	0.04	0.4	7	34	29	2.62	0.04	16	0.51	405	5	0.01	25	0.09	15	<5	30	<0.01	40	<10	80
105+00N-55+20E		0.2	1.34	<5	60	<1	<2	0.05	0.2	4	25	16	1.55	0.03	12	0.22	207	3	0.01	13	0.09	9	<5	26	<0.01	23	<10	47
105+00N-55+40E		0.4	1.85	<5	121	<1	3	0.09	0.7	18	29	27	3.12	0.05	18	0.41	1399	5	<0.01	21	0.12	24	<5	39	<0.01	39	<10	90
105+00N-55+40E*		0.4	1.81	<5	118	<1	<2	0.09	0.7	16	29	27	3.06	0.05	18	0.40	1318	3	<0.01	21	0.12	21	7	39	<0.01	38	<10	87
105+00N-55+60E		0.2	1.32	<5	93	<1	<2	0.12	0.7	17	28	23	2.75	0.07	12	0.29	1408	11	<0.01	17	0.12	22	<5	32	<0.01	36	<10	76
105+00N-55+80E		0.2	1.08	<5	51	<1	<2	0.03	<0.1	5	27	17	2.34	0.04	8	0.27	537	2	<0.01	13	0.10	18	<5	23	<0.01	34	<10	58
105+00N-56+00E		<0.2	1.20	<5	46	<1	<2	0.05	0.1	5	28	16	2.35	0.04	11	0.29	255	<1	<0.01	16	0.10	12	5	26	<0.01	33	<10	56
105+00N-56+20E		0.3	1.48	6	65	<1	<2	0.06	0.1	6	31	26	3.02	0.03	16	0.43	192	2	<0.01	25	0.08	13	6	28	<0.01	40	<10	71
105+00N-56+40E		0.3	1.93	6	79	<1	<2	0.09	0.3	8	29	42	3.50	0.07	19	0.52	659	3	<0.01	31	0.16	19	<5	33	<0.01	43	<10	99
105+00N-56+60E		0.2	1.97	<5	83	<1	<2	0.02	0.2	10	27	25	3.97	0.05	14	0.45	749	1	<0.01	19	0.14	22	9	25	<0.01	41	<10	96
105+00N-56+80E		0.2	2.07	<5	52	<1	<2	0.04	0.1	7	30	28	3.90	0.05	15	0.49	347	1	<0.01	28	0.12	19	<5	26	<0.01	41	<10	88
105+00N-57+00E		0.2	1.98	9	89	<1	<2	0.09	0.3	14	26	25	3.85	0.08	13	0.49	1271	2	<0.01	20	0.20	21	<5	34	<0.01	37	<10	96
105+00N-57+20E		0.2	1.71	<5	70	<1	<2	0.05	0.2	7	28	28	3.30	0.04	16	0.43	330	1	<0.01	27	0.11	15	<5	28	<0.01	39	<10	85
105+00N-57+20E*		0.2	1.74	<5	70	<1	<2	0.05	0.2	7	28	28	3.31	0.04	15	0.44	332	3	<0.01	27	0.12	14	<5	28	<0.01	39	<10	87
+00N-57+40E		0.6	1.54	<5	56	<1	<2	0.05	0.3	7	26	22	2.52	0.04	13	0.36	320	2	<0.01	21	0.12	11	<5	26	0.01	28	<10	67
+00N-57+60E		0.4	2.20	5	82	1	<2	0.11	0.3	11	32	34	3.39	0.06	21	0.58	374	<1	<0.01	43	0.13	12	<5	31	0.02	39	<10	99
105+00N-57+80E		0.8	2.33	<5	107	2	3	0.09	1.7	47	29	67	4.38	0.06	39	0.68	1278	8	<0.01	113	0.14	33	<5	28	0.01	52	<10	252
105+00N-58+00E		0.3	2.17	5	75	<1	<2	0.07	0.4	9	35	32	3.80	0.06	16	0.61	435	2	<0.01	33	0.15	16	<5	30	0.02	46	<10	111
105+00N-58+20E		0.4	2.15	<5	85	<1	4	0.06	0.4	12	33	26	3.47	0.07	14	0.47	1146	2	<0.01	25	0.17	21	<5	29	0.02	41	<10	103
105+00N-58+40E		0.2	1.96	<5	81	<1	3	0.05	0.5	7	29	25	3.88	0.06	14	0.42	494	2	<0.01	23	0.15	16	8	28	0.01	43	<10	98
105+00N-58+60E		0.3	1.95	<5	84	<1	<2	0.05	0.5	17	26	25	3.68	0.05	22	0.48	1175	2	<0.01	26	0.16	23	<5	27	0.01	36	<10	100
105+00N-58+80E		0.4	2.63	6	84	1	3	0.12	0.6	11	30	27	3.77	0.08	30	0.53	653	<1	<0.01	25	0.22	18	<5	32	0.02	33	<10	91
105+00N-59+00E		0.2	2.68	5	61	1	3	0.08	0.4	10	29	27	3.82	0.07	14	0.56	536	2	<0.01	22	0.19	17	<5	28	0.02	34	<10	96
STD-P1/AU8		0.2	1.00	21	183	<1	3	0.85	0.4	6	101	22	2.02	0.35	5	0.77	518	45	0.07	28	0.08	44	9	93	0.10	32	<10	134
105+00N-59+20E		<0.2	2.37	<5	51	<1	<2	0.05	0.1	9	30	29	3.67	0.06	17	0.51	608	1	<0.01	23	0.16	16	<5	25	0.02	37	<10	85
105+00N-59+40E		0.4	1.70	<5	55	<1	<2	0.06	0.1	8	26	22	3.38	0.04	26	0.39	491	<1	<0.01	18	0.15	12	5	27	0.01	33	<10	69
105+00N-59+60E		0.2	1.89	<5	80	<1	3	0.06	0.2	12	29	34	3.99	0.04	30	0.55	785	3	<0.01	34	0.13	19	<5	31	0.01	44	<10	96
105+00N-59+80E		0.2	2.37	<5	79	1	3	0.09	0.5	13	31	36	3.77	0.06	36	0.67	442	<1	<0.01	40	0.12	17	<5	32	0.02	41	<10	99
105+00N-60+00E		0.2	2.47	<5	80	1	<2	0.12	0.4	13	31	36	4.14	0.05	56	0.64	560	<1	<0.01	36	0.18	22	<5	32	0.02	38	<10	110
105+00N-60+20E		0.2	2.72	<5	84	1	<2	0.10	0.4	14	32	32	3.44	0.07	30	0.55	864	<1	<0.01	32	0.15	21	<5	30	0.02	36	<10	99
105+00N-60+40E		0.3	2.48	<5	103	1	<2	0.10	0.5	14	33	45	4.13	0.07	32	0.80	477	2	0.01	51	0.11	17	<5	37	0.02	51	<10	129
105+00N-60+60E		0.4	2.15	<5	91	2	2	0.28	0.5	20	29	39	3.92	0.06	117	0.67	1187	2	<0.01	40	0.20	30	<5	42	0.01	38	<10	111
105+00N-60+80E		0.2	2.01	<5	71	<1	3	0.09	0.2	18	30	42	3.59	0.04	42	0.67	412	<1	0.01	48	0.06	18	<5	32	0.03	35	<10	89
105+00N-60+80E*		0.2	2.09	<5	73	<1	2	0.09	0.2	19	31	44	3.74	0.04	43	0.69	438	2	0.01	51	0.06	18	<5	32	0.03	36	<10	93

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: JUL 9, 1991 | Page 7 of 8
Area: FIRE LAKE | Lab Project No.: P1418 | Date Completed: JUL 19, 1991 | Attn: R STROSHEIN
Remarks: J KOWALCHUK
E KIMURA
R HODGSON

Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Tl %	V ppm	W ppm	Zn ppm
105+00N–61+00E		<0.2	2.60	<5	78	1	<2	0.10	0.4	15	33	40	3.48	0.06	37	0.69	464	2	<0.01	41	0.09	15	<5	31	0.03	43	<10	104
105+00N–61+20E		<0.2	1.65	<5	57	<1	<2	0.09	0.2	8	28	27	2.34	0.04	19	0.42	349	3	0.01	23	0.08	7	<5	26	0.02	30	<10	63
105+00N–61+40E		0.2	1.88	<5	67	<1	<2	0.09	0.3	9	29	30	2.89	0.04	22	0.48	385	<1	0.01	28	0.11	11	<5	29	0.02	33	<10	83
105+00N–61+60E		<0.2	2.70	<5	62	<1	<2	0.06	0.2	10	28	25	3.71	0.07	16	0.52	634	<1	<0.01	21	0.13	18	<5	25	0.02	33	<10	83
105+00N–61+80E		<0.2	2.54	<5	95	<1	<2	0.06	0.3	12	27	28	3.75	0.06	19	0.43	1213	<1	<0.01	22	0.18	18	<5	26	0.02	33	<10	89
105+00N–62+00E		<0.2	1.83	<5	55	<1	<2	0.05	0.3	9	32	27	3.96	0.05	18	0.50	358	1	<0.01	31	0.12	13	<5	24	0.01	40	<10	88
105+00N–62+20E		0.2	1.64	17	88	<1	<2	0.21	0.7	20	35	49	3.75	0.04	33	0.77	704	4	0.01	76	0.10	18	<5	34	0.02	42	<10	128
105+00N–62+40EA		0.2	2.12	14	75	1	<2	0.06	0.3	11	40	32	3.35	0.04	24	0.57	543	2	<0.01	42	0.14	16	<5	25	0.01	38	<10	90
+00N–62+40EB		0.2	1.88	9	68	<1	<2	0.07	0.3	10	38	33	3.00	0.04	23	0.55	440	2	<0.01	43	0.12	12	<5	26	0.01	36	<10	87
+00N–62+40EB*		0.2	1.94	16	69	<1	<2	0.07	0.4	11	39	34	3.07	0.04	22	0.56	452	3	<0.01	44	0.13	14	<5	26	0.02	37	<10	90
105+00N–62+60E		<0.2	2.17	6	61	1	<2	0.07	0.2	9	32	29	3.03	0.05	19	0.45	423	<1	<0.01	29	0.13	15	6	25	0.02	29	<10	76
105+00N–62+80E		<0.2	2.08	9	72	<1	<2	0.08	0.3	9	34	29	3.27	0.05	22	0.55	447	<1	<0.01	34	0.13	15	<5	26	0.02	34	<10	84
105+00N–63+00E		0.2	1.37	<5	68	<1	2	0.08	0.2	6	32	16	1.92	0.05	13	0.30	503	<1	<0.01	20	0.11	11	<5	26	0.01	20	<10	57
105+00N–63+20E		0.2	1.67	<5	77	<1	<2	0.05	<0.1	6	25	20	3.09	0.06	13	0.32	714	<1	<0.01	13	0.14	14	<5	24	0.01	29	<10	70
105+00N–63+40E		<0.2	1.56	6	38	<1	<2	0.06	<0.1	5	28	18	2.19	0.04	13	0.33	282	<1	<0.01	19	0.09	9	<5	22	0.02	24	<10	55
105+00N–63+60E		0.2	1.95	5	47	<1	3	0.04	0.1	7	35	25	2.97	0.06	15	0.54	281	<1	<0.01	26	0.11	12	<5	23	0.02	33	<10	72
105+00N–63+80E		<0.2	1.61	12	50	<1	<2	0.06	0.1	8	37	24	2.74	0.05	17	0.60	300	<1	<0.01	32	0.07	11	<5	24	0.02	36	<10	78
105+00N–64+00E		<0.2	1.40	<5	68	<1	<2	0.05	0.2	6	31	24	2.40	0.04	18	0.37	210	1	<0.01	20	0.10	9	<5	23	0.01	30	<10	66
105+00N–64+20E		<0.2	0.76	<5	358	<1	<2	0.10	0.2	14	29	14	1.59	0.08	9	0.11	3610	2	<0.01	15	0.15	23	<5	26	<0.01	27	<10	54
105+00N–64+20E*		<0.2	0.76	<5	368	<1	<2	0.10	0.2	14	29	14	1.60	0.08	10	0.11	3680	1	<0.01	15	0.14	24	14	26	<0.01	27	<10	55
105+00N–64+40E		0.2	1.52	<5	229	<1	<2	0.08	0.2	15	30	25	2.90	0.15	14	0.29	2022	<1	<0.01	23	0.13	23	<5	28	<0.01	38	<10	207
105+00N–64+60E		<0.2	1.68	9	214	<1	<2	0.15	0.1	12	64	23	3.59	0.09	12	0.58	1302	2	<0.01	40	0.15	11	<5	29	0.01	48	<10	85
105+00N–64+80E		0.2	1.42	<5	211	<1	<2	0.24	0.2	11	40	16	2.92	0.11	8	0.38	1916	<1	<0.01	19	0.20	15	<5	37	<0.01	40	<10	80
105+00N–65+00E		0.2	1.91	11	206	<1	<2	0.23	0.2	12	42	24	3.62	0.12	21	0.71	1054	1	<0.01	28	0.19	20	<5	27	0.01	41	<10	81
106+00N–40+00E		0.2	2.81	7	600	<1	3	0.42	0.2	10	53	28	3.65	0.25	18	1.60	439	4	0.03	29	0.06	11	<5	48	0.10	100	<10	137
106+00N–40+20E		<0.2	3.26	<5	597	<1	<2	0.20	0.4	13	62	32	4.37	0.39	19	1.97	555	6	0.02	37	0.07	11	<5	37	0.14	123	<10	162
106+00N–40+40E		0.2	3.94	<5	812	<1	5	0.20	0.4	15	53	35	4.88	0.82	21	2.44	588	3	0.03	34	0.08	11	8	39	0.17	132	<10	183
106+00N–40+60E		0.2	4.27	<5	989	<1	<2	0.25	0.4	14	52	43	5.13	0.73	26	2.31	584	2	0.03	40	0.08	9	<5	50	0.17	125	<10	202
106+00N–40+80E		<0.2	3.59	<5	637	<1	<2	0.12	0.8	11	58	34	4.58	0.39	20	2.00	529	5	0.03	31	0.05	16	<5	40	0.17	128	<10	198
106+00N–40+80E*		<0.2	3.71	<5	652	<1	3	0.17	0.8	11	59	35	4.69	0.40	20	2.06	544	5	0.03	32	0.06	14	<5	40	0.18	132	<10	203
+00N–41+00E		0.2	3.85	<5	565	<1	<2	0.16	0.4	11	69	37	4.81	0.20	22	2.28	541	5	0.02	31	0.06	16	6	54	0.16	154	<10	190
+00N–41+20E		0.2	3.51	<5	861	<1	2	0.25	0.6	9	62	45	4.98	0.40	30	1.89	599	6	0.03	42	0.07	16	<5	54	0.14	143	<10	219
106+00N–41+40E		0.2	3.54	<5	474	<1	<2	0.17	0.4	10	62	32	3.48	0.23	20	1.68	407	3	0.04	35	0.06	12	9	40	0.11	108	<10	143
106+00N–41+60E		0.3	5.45	<5	1094	1	5	0.17	0.5	10	74	44	5.43	0.38	22	2.48	588	2	0.04	27	0.09	8	6	50	0.15	147	<10	181
106+00N–41+80E		<0.2	3.40	<5	494	<1	<2	0.09	0.6	8	76	34	4.06	0.38	22	2.08	547	9	0.03	25	0.06	17	<5	42	0.16	165	<10	210
106+00N–42+00E		1.4	4.04	<5	607	1	2	0.14	1.9	28	99	51	4.91	0.49	35	2.19	1235	13	0.04	100	0.11	43	7	57	0.12	169	<10	398
106+00N–42+20E		0.2	3.07	<5	307	<1	<2	0.18	0.9	7	85	45	3.81	0.16	26	1.55	606	9	0.03	38	0.09	25	<5	58	0.06	167	<10	234
106+00N–42+40E		0.6	3.30	<5	307	<1	3	0.15	1.9	9	87	35	3.70	0.11	19	1.73	618	5	0.02	40	0.08	21	<5	44	0.08	153	<10	346
106+00N–42+60E		0.4	2.20	6	652	<1	<2	0.15	2.4	10	44	70	5.35	0.30	23	1.09	798	8	0.04	35	0.14	51	6	61	0.08	111	<10	192
106+00N–42+60E*		0.3	2.22	<5	681	<1	3	0.15	2.4	11	44	71	5.41	0.30	23	1.10	806	9	0.04	35	0.15	48	<5	61	0.08	111	<10	193
106+00N–42+80E		0.3	3.38	<5	487	<1	<2	0.13	0.8	18	20	34	4.80	0.20	18	1.80	1018	1	0.02	18	0.11	10	<5	36	0.04	143	<10	228
106+00N–43+00E		<0.2	3.00	5	353	<1	<2	0.13	0.7	12	55	26	4.18	0.22	15	1.55	1245	5	0.01	29	0.08	19	<5	34	0.07	121	<10	219
106+00N–43+20E		<0.2	1.67	<5	458	<1	<2	0.10	0.4	6	28	11	2.87	0.24	9	0.75	488	1	0.01	7	0.06	10	<5	30	0.09	57	<10	106
106+00N–43+40E		<0.2	2.82	<5	309	<1	<2	0.10	0.3	9	44	19	4.26	0.17	14	1.24	778	<1	0.01	14	0.08	13	<5	31	0.07	90	<10	145
106+00N–43+60E		0.3	3.48	<5	310	<1	<2	0.20	0.2	10	50	22	3.44	0.23	21	1.33	361	<1	0.02	21	0.10	10	5	33	0.08	70	<10	107
106+00N–43+80E		<0.2	2.59	7	287	<1	<2	0.18	0.1	10	46	22	3.69	0.13	19	1.33	445	<1	0.02	24	0.07	13	<5	33	0.08	80	<10	121
106+00N–44+00E		<0.2	2.74	<5	283	<1	<2	0.13	0.1	12	45	14	4.39	0.13	10	1.65	845	<1	0.02	13	0.06	12	11	27	0.10	111	<10	144
106+00N–44+20E		0.2	3.10	<5	319	<1	<2	0.18	0.4	12	54	26	3.86	0.16	21	1.45	724	1	0.02	26	0.09	17	7	31	0.08	85	<10	126
106+00N–44+40E		<0.2	3.08	<5	627	<1	<2	0.20	0.5	10	42	19	4.47	0.19	19	1.47	472	1	0.01	15	0.08	11	<5	40	0.09	87	<10	140
106+00N–44+40E*		<0.2	3.09	<5	624	<1	<2	0.20	0.5	10	43	18	4.44	0.19	18	1.46	468	<1	0.01	15	0.07	11	<5	40	0.09	87	<10	139

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg.C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

Geol.: R STROSHEIN
Lab Project No.: P1418

Date Received: JUL 8,1991
Date Completed: JUL 19,1991

Attn: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
106+00N-44+60E		0.2	3.30	7	471	<1	<2	0.16	0.4	11	59	22	3.99	0.32	16	1.56	513	<1	0.02	20	0.08	10	9	33	0.10	87	<10	127
106+00N-44+80E		<0.2	2.53	<5	379	<1	3	0.28	0.4	10	55	21	3.14	0.24	17	1.27	385	2	0.02	23	0.09	11	8	40	0.07	66	<10	105
106+00N-45+00E		0.2	3.27	<5	282	<1	2	0.21	0.5	12	59	24	3.23	0.20	18	1.23	615	2	0.02	24	0.08	13	10	33	0.08	65	<10	106
106+00N-45+20E		<0.2	2.00	<5	315	<1	<2	0.11	0.8	10	77	15	3.20	0.13	10	1.09	786	3	0.02	14	0.07	16	<5	30	0.04	76	<10	118
106+00N-45+40E		<0.2	2.54	7	321	<1	3	0.20	0.8	13	63	20	3.64	0.17	12	1.39	1143	3	0.02	21	0.08	25	<5	34	0.05	85	<10	149
106+00N-45+60E		<0.2	2.52	7	261	<1	<2	0.18	0.8	10	75	23	3.17	0.20	14	1.48	389	3	0.03	28	0.07	12	10	34	0.09	86	<10	130
106+00N-45+80E		0.2	2.18	5	311	<1	<2	0.24	0.3	8	59	20	2.98	0.09	11	1.29	351	2	0.02	22	0.05	14	9	40	0.07	79	<10	123
106+00N-46+00E		<0.2	2.52	<5	417	<1	<2	0.18	0.7	10	71	23	3.45	0.30	11	1.59	593	<1	0.02	27	0.09	13	<5	34	0.10	95	<10	149
106+00N-46+20E		<0.2	2.75	5	270	<1	<2	0.12	0.5	10	67	25	3.31	0.18	12	1.44	358	4	0.02	28	0.06	12	<5	29	0.09	87	<10	127
P1/AU8		0.2	1.02	20	189	<1	<2	0.87	0.4	6	105	24	2.12	0.34	7	0.81	561	45	0.06	30	0.08	47	8	95	0.10	33	<10	142
106+00N-46+40E		0.2	3.00	<5	256	<1	<2	0.15	0.5	12	77	26	3.71	0.16	13	1.75	618	3	0.02	28	0.06	13	5	32	0.12	101	<10	163
106+00N-46+60E		0.3	3.10	<5	378	<1	<2	0.27	0.3	11	71	25	3.45	0.34	17	1.74	365	2	0.02	28	0.08	9	<5	35	0.11	83	<10	113
106+00N-46+80E		0.2	2.46	<5	286	<1	<2	0.20	0.7	8	58	21	3.12	0.23	12	1.22	353	2	0.02	22	0.07	12	<5	37	0.07	74	<10	126
106+00N-47+00E		0.3	2.99	<5	352	<1	<2	0.24	0.8	11	61	28	3.14	0.32	16	1.28	356	2	0.02	30	0.09	15	7	36	0.08	73	<10	137
106+00N-47+20E		0.2	3.31	<5	518	<1	<2	0.23	1.2	15	78	40	3.58	0.37	16	1.70	555	4	0.03	48	0.09	10	5	35	0.10	104	<10	184
106+00N-47+40E		0.3	2.56	<5	299	<1	<2	0.16	1.9	10	72	26	3.19	0.15	12	1.42	526	4	0.02	33	0.06	11	<5	34	0.08	95	<10	167
106+00N-47+60E		0.2	2.36	<5	437	<1	<2	0.17	3.5	18	71	27	3.36	0.32	9	1.36	1339	4	0.02	32	0.08	13	<5	39	0.06	98	<10	232
106+00N-47+80E		0.2	2.68	7	383	<1	<2	0.14	0.9	21	83	31	4.02	0.19	14	1.42	1875	5	0.02	38	0.06	21	<5	36	0.09	124	<10	204
106+00N-50+00E		0.4	1.63	<5	342	<1	<2	0.20	2.0	11	39	36	2.76	0.15	27	0.56	1140	6	0.01	28	0.35	12	<5	47	<0.01	37	<10	122
106+00N-50+00E*		0.4	1.66	<5	349	<1	<2	0.20	2.0	11	39	37	2.82	0.15	27	0.58	1160	6	0.01	29	0.36	14	<5	47	<0.01	37	<10	125
106+00N-50+20E		0.5	2.33	12	133	1	<2	0.18	1.3	26	33	58	5.00	0.15	57	1.20	879	6	0.01	81	0.09	17	<5	45	0.02	52	<10	201
106+00N-50+40E		0.4	1.96	<5	136	<1	<2	0.08	0.3	7	47	28	3.14	0.09	15	0.75	482	5	<0.01	29	0.11	14	9	33	0.02	64	<10	102
106+00N-50+60E		0.5	2.24	<5	125	<1	2	0.04	0.3	7	57	30	3.03	0.07	15	1.01	313	5	<0.01	39	0.08	12	8	35	0.02	71	<10	121
106+00N-50+80E		0.3	1.60	5	126	<1	<2	0.04	0.6	7	39	25	2.56	0.06	16	0.57	282	4	<0.01	28	0.07	12	7	32	0.01	48	<10	85
106+00N-51+00E		0.2	2.32	<5	216	<1	3	0.06	0.3	9	55	27	3.63	0.14	18	1.13	514	6	0.01	34	0.06	17	11	32	0.04	85	<10	143
106+00N-51+20E		0.5	1.53	<5	124	<1	<2	0.17	1.7	8	35	36	2.57	0.08	22	0.51	306	4	0.01	35	0.08	12	<5	50	0.01	39	<10	95
106+00N-51+40E		0.7	2.96	10	213	1	4	0.11	0.6	16	75	59	5.18	0.31	42	0.98	496	9	0.02	85	0.14	16	7	46	0.03	72	<10	176
106+00N-51+60E		0.2	1.68	<5	94	<1	2	0.02	<0.1	7	39	25	3.78	0.07	16	0.53	510	5	<0.01	22	0.12	16	<5	26	0.03	69	<10	90
106+00N-51+80E		0.5	2.67	8	171	<1	3	0.32	0.3	11	52	36	3.26	0.12	46	0.90	490	3	0.02	67	0.12	15	6	66	0.03	48	<10	122
106+00N-51+80E*		0.5	2.73	7	165	<1	4	0.32	0.2	11	51	42	3.15	0.12	44	0.87	471	4	0.02	64	0.12	20	7	64	0.03	47	<10	128
106+00N-52+00E		0.3	2.38	<5	134	<1	3	0.06	0.3	7	49	31	3.38	0.07	17	0.82	419	3	0.01	25	0.08	15	<5	32	0.02	71	<10	117
00N-52+20E		0.5	2.57	<5	133	<1	4	0.11	0.4	10	47	35	3.99	0.08	22	1.00	426	3	0.01	38	0.10	16	<5	46	0.02	69	<10	121
+00N-52+40E		0.6	3.04	<5	111	<1	4	0.06	0.3	8	47	32	4.24	0.09	20	0.97	411	5	<0.01	31	0.11	20	9	33	0.02	70	<10	122
106+00N-52+60E		0.3	0.80	<5	101	<1	5	0.02	0.4	7	26	19	1.73	0.04	9	0.17	1069	3	<0.01	12	0.06	15	<5	23	<0.01	29	<10	51
106+00N-52+80E		0.7	2.61	<5	187	<1	4	0.04	1.0	7	55	27	3.86	0.09	16	1.02	466	5	0.01	27	0.07	19	<5	30	0.03	90	<10	137
106+00N-53+00E		0.5	2.00	<5	107	<1	4	0.06	0.4	8	41	28	3.16	0.07	17	0.52	594	5	<0.01	25	0.09	16	<5	32	0.02	57	<10	92
106+00N-53+20E		0.5	2.45	<5	142	<1	5	0.07	0.6	11	44	31	3.88	0.09	17	0.83	1082	4	<0.01	29	0.09	21	<5	32	0.02	66	<10	128
106+00N-53+40E		0.5	1.68	<5	164	<1	4	0.08	0.5	18	31	27	3.53	0.09	18	0.47	1501	5	<0.01	20	0.11	22	<5	40	0.01	47	<10	104
106+00N-53+60E		0.5	1.36	<5	133	<1	4	0.05	0.7	9	31	26	2.71	0.06	15	0.36	747	5	<0.01	23	0.09	15	<5	36	<0.01	43	<10	84
STD-P1/AU8		0.2	0.97	18	178	<1	4	0.84	0.4	5	102	23	2.04	0.31	8	0.75	536	44	0.06	28	0.07	45	7	93	0.10	32	<10	133
106+00N-53+80E		0.5	2.81	8	209	1	<2	0.15	1.0	13	47	40	3.19	0.12	27	0.99	463	2	0.01	40	0.09	16	7	40	0.04	63	<10	128
106+00N-54+00E		0.2	1.18	<5	63	<1	<2	0.08	0.2	5	28	13	1.45	0.04	7	0.26	374	2	0.01	9	0.07	8	<5	28	0.01	25	<10	47
106+00N-54+20E		0.3	1.13	6	90	<1	<2	0.05	0.4	5	34	16	2.26	0.05	10	0.37	441	4	<0.01	16	0.06	11	<5	30	0.01	48	<10	69
106+00N-54+40E		0.3	1.42	<5	134	<1	<2	0.09	0.4	9	32	26	2.71	0.06	14	0.37	1781	5	<0.01	20	0.13	14	<5	37	<0.01	44	<10	86
106+00N-54+60E		0.3	2.42	<5	114	<1	<2	0.06	0.2	10	44	29	3.74	0.08	18	0.74	620	4	<0.01	31	0.09	18	<5	31	0.02	62	<10	113
106+00N-54+80E		0.4	1.44	<5	104	<1	<2	0.22	0.6	10	28	25	2.34	0.04	18	0.41	650	3	0.01	23	0.10	12	<5	41	<0.01	32	<10	70
106+00N-55+00E		<0.2	1.86	<5	87	<1	<2	0.05	0.4	9	33	29	3.32	0.04	17	0.52	555	3	<0.01	27	0.08	14	<5	31	0.01	45	<10	85
106+00N-55+00E*		<0.2	1.77	<5	83	<1	<2	0.05	0.3	8	33	27	3.15	0.04	16	0.50	530	2	<0.01	26	0.07	12	<5	30	0.01	43	<10	81

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE
Geol.: R. STROSHEIN
Lab Project No.: P1419
Date Received: JULY 9, 1991
Date Completed: JULY 15, 1991

Attention: R. STROSHEIN
J. KOWALCHUK
E. KIMURA
R. HODGSON

Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
106+00N–55+20E		0.3	0.93	<5	121	<1	<2	0.08	0.2	7	12	33	2.50	0.04	7	0.30	420	1	0.02	20	0.08	8	<5	19	0.01	42	<10	85
106+00N–55+40E		0.2	1.74	<5	94	<1	<2	0.08	0.3	8	12	34	2.99	0.04	17	0.53	238	3	0.02	29	0.08	10	6	16	0.02	41	<10	90
106+00N–55+60E		<0.2	0.80	<5	47	<1	<2	0.04	0.2	6	1	13	0.91	0.02	5	0.08	681	<1	0.02	6	0.07	2	<5	10	0.01	12	<10	30
106+00N–55+80E		0.2	0.68	<5	44	<1	<2	0.06	<0.1	6	<1	10	1.01	0.02	6	0.13	427	3	0.02	7	0.06	2	<5	9	0.02	16	<10	28
106+00N–56+00E		0.7	1.32	<5	71	<1	<2	0.09	<0.1	8	6	21	2.88	0.05	11	0.32	709	2	0.02	17	0.21	9	<5	19	<0.01	34	<10	76
106+00N–56+20E		0.4	1.38	<5	87	<1	<2	0.07	<0.1	9	8	22	2.71	0.04	11	0.36	501	1	0.02	18	0.13	10	<5	17	<0.01	32	<10	87
106+00N–56+40E		0.3	1.53	<5	104	<1	<2	0.05	0.2	12	4	19	3.29	0.04	13	0.33	969	<1	0.01	17	0.13	13	<5	19	0.01	34	<10	77
106+00N–56+60E		0.3	1.96	<5	89	<1	<2	0.09	0.2	11	14	33	3.48	0.05	21	0.56	376	2	0.01	35	0.13	11	<5	18	0.01	43	<10	97
106+00N–56+80E		0.2	1.86	<5	76	<1	<2	0.05	0.2	12	9	40	3.72	0.05	21	0.58	404	<1	0.02	37	0.12	14	<5	14	0.01	45	<10	101
00N–56+80E*		0.2	1.91	<5	78	<1	<2	0.05	0.2	12	10	40	3.83	0.05	22	0.60	416	1	0.02	38	0.13	13	6	15	0.01	46	<10	103
106+00N–57+00E		0.3	1.56	<5	74	<1	<2	0.05	0.2	8	7	29	2.60	0.02	23	0.34	205	<1	0.01	22	0.10	8	<5	13	0.01	34	15	73
106+00N–57+20E		0.3	1.48	<5	77	<1	<2	0.05	0.3	9	5	22	2.80	0.04	14	0.31	540	<1	0.01	17	0.14	11	<5	15	0.01	29	<10	71
106+00N–57+40E		0.3	2.29	<5	73	1	<2	0.10	0.4	18	12	41	3.90	0.05	26	0.60	728	<1	0.01	43	0.14	15	<5	14	0.02	44	<10	111
106+00N–57+60E		0.2	2.01	<5	73	<1	<2	0.07	0.3	12	13	37	3.92	0.05	21	0.56	430	<1	0.01	35	0.12	14	<5	16	0.01	48	<10	105
106+00N–57+80E		0.2	2.12	<5	76	1	<2	0.08	0.3	13	13	34	3.90	0.05	22	0.59	547	<1	0.01	38	0.11	14	<5	14	0.02	46	<10	107
106+00N–58+00E		0.3	2.00	<5	106	1	<2	0.07	0.3	13	8	20	2.81	0.06	18	0.29	1261	<1	0.01	16	0.17	22	<5	12	0.01	27	<10	69
106+00N–58+20E		0.4	2.71	13	121	2	<2	0.20	0.5	17	19	32	4.66	0.08	36	0.73	930	<1	0.01	41	0.23	22	<5	29	0.02	44	<10	118
106+00N–58+40E		0.3	2.96	5	151	1	<2	0.13	0.8	22	24	60	4.53	0.10	35	1.49	716	<1	0.01	78	0.09	18	8	20	0.05	72	<10	170
106+00N–58+60E		0.4	2.04	<5	104	1	<2	0.13	0.7	16	15	41	4.49	0.07	29	0.74	587	2	0.01	47	0.15	16	8	24	0.01	50	<10	145
STD–P1/AU8		0.3	1.05	22	209	<1	2	0.90	0.4	9	93	27	2.28	0.33	9	0.86	594	47	0.06	33	0.09	49	8	87	0.11	36	<10	154
106+00N–58+80E		0.4	2.09	<5	68	<1	<2	0.06	<0.1	10	10	28	3.55	0.04	27	0.65	475	<1	<0.01	27	0.12	<2	<5	12	0.02	38	<10	99
106+00N–59+00E		0.3	1.81	<5	86	<1	<2	0.11	<0.1	8	8	22	3.27	0.05	19	0.45	564	<1	<0.01	19	0.13	12	<5	18	0.01	40	<10	87
106+00N–59+20E		0.4	2.00	<5	75	1	<2	0.10	0.2	17	8	32	3.42	0.03	30	0.48	1045	<1	<0.01	35	0.15	21	<5	16	0.01	28	<10	106
106+00N–59+40E		0.2	2.28	<5	85	1	<2	0.11	0.2	14	12	33	3.99	0.04	32	0.73	570	<1	<0.01	41	0.16	18	<5	18	0.02	43	<10	110
106+00N–59+60E		0.4	1.56	<5	98	<1	<2	0.24	0.4	11	10	25	3.83	0.03	45	0.52	1087	<1	<0.01	29	0.16	16	<5	29	<0.01	42	<10	100
106+00N–59+80E		0.3	2.06	<5	53	<1	<2	0.15	<0.1	8	8	29	4.41	0.02	11	0.63	385	<1	<0.01	29	0.18	18	5	22	0.01	41	<10	102
106+00N–60+00E		0.3	2.47	<5	54	<1	<2	0.06	<0.1	9	7	32	3.93	0.01	27	0.59	492	<1	<0.01	26	0.19	16	<5	16	0.02	35	<10	94
106+00N–60+00E*		0.3	2.49	<5	54	<1	<2	0.06	<0.1	9	7	30	3.84	0.01	27	0.59	493	<1	<0.01	25	0.19	16	<5	16	0.02	34	<10	93

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: JULY 16,1991 | Page 1 of 5
Area: FIRE LAKE | Lab Project No.: P1422 | Date Completed: JULY 24, 1991 | Attn: R STROSHEIN, J KOWALCHUK, E KIMURA, R HODGSON
Remarks: SAMPLES WERE RERUN FOR AU AS REQUESTED BY FAX SEPT 10, 1991
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L88 +00N –40 +80E	<5	0.2	2.64	12	104	<1	<2	0.62	0.2	18	122	18	2.98	0.06	6	2.52	143	<1	0.04	64	0.04	11	<5	28	0.22	100	12	109
L88 +00N –41 +00E	<5	0.1	2.51	8	102	<1	<2	0.60	0.3	17	115	16	2.87	0.06	6	2.38	140	<1	0.04	60	0.03	9	<5	26	0.20	96	<10	108
L88 +00N –41 +20E	<5	1.0	2.77	12	239	<1	<2	1.72	2.8	22	90	237	2.92	0.04	19	1.29	1221	6	0.02	53	0.15	5	<5	71	0.06	80	<10	103
L88 +00N –41 +40E	<5	0.3	0.60	6	79	<1	2	0.84	2.8	5	24	71	0.73	0.04	8	0.23	520	2	0.03	13	0.05	5	<5	34	0.02	16	<10	57
L88 +00N –41 +60E	<5	0.6	1.95	11	155	<1	<2	1.17	1.8	14	66	116	2.37	0.09	14	1.33	429	<1	0.03	46	0.07	12	5	46	0.06	53	<10	118
L88 +00N –41 +80E	<5	<0.1	2.13	9	128	<1	<2	0.54	0.6	13	46	30	3.06	0.09	12	1.43	307	<1	0.03	34	0.03	17	<5	27	0.11	65	<10	170
L88 +00N –42 +00E	45	0.7	0.57	6	107	<1	<2	1.56	3.2	4	22	100	0.74	0.04	6	0.13	90	2	0.03	13	0.08	19	<5	58	0.01	14	<10	101
L88 +00N –42 +40E	35	2.8	1.60	8	217	<1	<2	1.79	4.9	14	38	213	1.94	0.07	19	0.55	582	4	0.02	66	0.08	199	<5	82	0.05	37	<10	434
L88 +00N –42 +60E	<5	0.2	3.47	12	430	<1	<2	0.63	0.6	17	63	26	4.40	0.29	18	2.14	573	5	0.04	38	0.06	26	5	33	0.12	115	<10	292
STD – AU8 – P1	355	0.2	1.03	20	185	<1	<2	0.90	0.3	6	101	23	2.14	0.34	7	0.80	566	48	0.06	28	0.07	46	<5	82	0.11	33	<10	149
L88 +00N –42 +80E	<5	0.2	2.10	6	348	<1	4	0.12	0.7	10	39	26	3.58	0.17	21	1.37	327	5	0.02	22	0.05	36	<5	21	0.10	105	13	182
L88 +00N –43 +00E	<5	0.1	1.81	7	323	<1	2	0.45	1.4	8	55	17	2.75	0.09	12	1.19	264	4	0.02	21	0.04	17	<5	25	0.09	81	<10	132
L88 +00N –43 +20E	<5	0.2	2.59	8	277	<1	5	0.14	0.4	11	36	17	3.84	0.18	16	1.58	348	<1	0.02	18	0.05	20	<5	14	0.11	81	<10	136
L88 +00N –43 +40E	<5	0.1	2.72	<5	335	<1	3	0.16	0.5	12	40	14	3.97	0.15	15	1.49	398	<1	0.02	18	0.05	20	<5	18	0.13	88	<10	167
L88 +00N –43 +60E	<5	0.1	2.28	<5	350	<1	3	0.13	0.6	10	31	14	3.45	0.12	18	1.05	429	<1	0.02	15	0.06	24	<5	19	0.10	74	<10	149
L88 +00N –43 +80E	<5	<0.1	2.13	<5	245	<1	<2	0.14	0.6	9	28	12	3.73	0.13	14	1.12	405	<1	0.02	13	0.04	18	<5	20	0.14	85	<10	174
L88 +00N –44 +00E	<5	<0.1	2.83	7	231	<1	4	0.13	0.2	10	26	11	3.66	0.19	15	1.35	371	<1	0.02	13	0.03	14	<5	15	0.13	74	<10	125
L88 +00N –44 +20E	<5	<0.1	2.38	10	265	<1	2	0.11	0.5	10	41	13	3.62	0.15	12	1.37	303	<1	0.02	15	0.04	16	<5	16	0.14	87	<10	147
L88 +00N –44 +60E	<5	0.1	1.49	<5	335	<1	4	0.15	0.6	6	29	15	2.40	0.08	14	0.70	359	1	0.02	14	0.04	17	<5	17	0.05	54	<10	107
L88 +00N –44 +60E*	<5	0.1	1.54	<5	347	<1	<2	0.16	0.6	6	30	15	2.47	0.08	14	0.73	365	2	0.02	15	0.05	18	<5	18	0.05	56	<10	108
L89 +00N –40 +40E		0.1	1.40	7	100	<1	<2	0.19	0.4	9	63	23	2.56	0.06	9	0.92	203	1	0.02	29	0.03	14	<5	18	0.16	84	10	76
L89 +00N –40 +60E		<0.1	0.81	<5	64	<1	<2	0.12	0.2	4	41	11	1.65	0.03	7	0.49	119	2	0.01	16	0.02	18	<5	9	0.13	65	<10	50
L89 +00N –40 +80E		0.1	0.71	<5	88	<1	<2	0.16	0.4	5	36	15	1.74	0.04	4	0.45	109	6	0.02	15	0.03	14	<5	9	0.11	60	<10	38
L89 +00N –41 +00E		0.1	1.72	8	102	<1	3	0.27	0.6	11	81	20	2.93	0.07	8	1.23	208	<1	0.02	35	0.04	18	<5	15	0.18	88	<10	89
L89 +00N –41 +20E		0.1	1.48	5	77	<1	<2	0.28	1.8	9	77	15	2.68	0.06	6	1.14	212	9	0.03	32	0.03	20	<5	13	0.20	84	<10	83
L89 +00N –41 +40E		0.5	1.50	5	191	<1	3	0.49	1.5	7	51	52	1.87	0.06	10	0.90	198	2	0.03	24	0.05	46	<5	27	0.06	51	<10	86
L89 +00N –41 +60E		0.2	2.10	5	103	<1	<2	0.42	0.8	14	82	38	2.75	0.06	8	1.56	297	1	0.02	49	0.04	43	<5	18	0.14	72	<10	124
L89 +00N –41 +80E		0.1	0.67	<5	97	<1	<2	0.30	0.7	4	37	17	1.06	0.04	8	0.41	111	<1	0.02	14	0.02	9	<5	15	0.09	29	<10	43
L89 +00N –42 +00E		0.1	0.66	<5	81	<1	<2	0.37	1.4	5	32	16	1.19	0.03	3	0.38	127	2	0.02	18	0.03	5	<5	15	0.05	30	<10	65
L89 +00N –42 +00E*		0.1	0.68	<5	85	<1	<2	0.38	1.4	5	33	16	1.23	0.04	3	0.40	131	<1	0.02	17	0.03	4	<5	16	0.05	30	<10	69
L89 +00N –42 +20E		0.1	1.24	<5	143	<1	<2	0.13	0.8	6	34	20	2.40	0.09	12	0.60	151	3	0.01	15	0.03	20	<5	12	0.11	73	11	80
L89 +00N –42 +40E		0.1	1.31	<5	223	<1	<2	0.13	1.7	6	54	20	2.10	0.11	11	0.82	172	4	0.01	19	0.03	17	<5	14	0.10	72	<10	81
L89 +00N –42 +60E		0.2	1.90	<5	545	<1	2	0.11	0.8	6	69	17	3.13	0.38	6	1.52	178	1	0.02	12	0.03	7	<5	13	0.22	115	<10	102
L89 +00N –42 +80E		0.3	2.21	7	238	<1	3	0.13	4.2	15	67	23	4.09	0.09	13	1.29	458	5	0.01	33	0.05	40	<5	15	0.11	126	<10	376
L89 +00N –43 +00E		0.2	2.44	<5	332	<1	2	0.11	0.2	11	63	24	3.58	0.24	14	1.83	351	4	0.02	35	0.04	13	<5	12	0.11	95	<10	143
L89 +00N –43 +20E		0.1	3.04	<5	377	<1	<2	0.19	1.0	13	33	19	3.76	0.20	12	1.80	381	<1	0.02	16	0.05	25	<5	19	0.15	105	<10	187
L89 +00N –43 +40E		0.1	1.86	<5	224	<1	<2	0.12	0.5	7	39	14	2.60	0.07	11	0.99	266	2	0.02	14	0.03	12	<5	12	0.11	78	<10	98
L89 +00N –43 +60E		0.1	2.34	5	295	<1	<2	0.10	0.5	10	61	13	4.07	0.11	11	1.38	454	3	0.02	22	0.04	23	<5	13	0.19	117	<10	165
L89 +00N –43 +80E		0.1	1.65	<5	212	<1	<2	0.13	0.2	6	39	11	2.65	0.07	10	0.81	277	<1	<0.01	13	0.03	23	<5	15	0.09	78	<10	108
L89 +00N –43 +80E*		0.1	1.74	<5	228	<1	<2	0.14	0.2	6	39	9	2.84	0.08	10	0.88	295	2	<0.01	14	0.04	23	<5	16	0.10	83	<10	112
L89 +00N –44 +00E		0.3	0.94	<5	218	<1	<2	0.12	1.4	5	26	11	1.68	0.08	8	0.50	171	2	0.02	8	0.04	15	<5	14	0.05	47	<10	79
L89 +00N –44 +20E		0.2	1.07	<5	282	<1	<2	0.10	1.7	4	28	12	2.07	0.08	9	0.53	202	2	0.01	9	0.03	22	<5	13	0.08	63	<10	90
L89 +00N –44 +40E		0.2	1.18	<5	187	<1	<2	0.05	2.0	4	25	17	2.22	0.07	14	0.41	177	3	<0.01	10	0.05	23	<5	10	0.05	59	<10	83
L89 +00N –44 +60E		0.3	1.42	<5	326	<1	<2	0.13	0.7	4	28	13	2.33	0.07	13	0.59	198	2	0.01	13	0.04	19	<5	21	0.06	54	<10	98
L89 +00N –44 +80E		0.3	1.44	<5	170	<1	<2	0.10	0.9	7	26	11	1.85	0.08	11	0.58	249	<1	0.02	13	0.05	17	<5	12	0.03	38	<10	85
L89 +00N –45 +00E		0.2	2.08	<5	248	<1	<2	0.11	0.8	7	39	17	3.13	0.11	15	1.17	331	4	0.02	22	0.04	18	<5	17	0.08	77	<10	184
L89 +00N –45 +20E		0.2	0.70	<5	437	<1	<2	0.17	5.5	3	20	11	1.35	0.06	8	0.22	317	3	0.01	6	0.04	12	<5	17	0.02	31	<10	116
L89 +00N –45 +40E		0.2	1.47	<5	149	<1	<2	0.08	0.3	5	29	12	2.65	0.07	15	0.72	275	3	<0.01	15	0.03	21	<5	12	0.10	70	<10	121
L89 +00N –45 +60E		0.2	0.42	<5	83	<1	<2	0.03	1.1	1	15	10	0.79	0.04	4	0.07	120	2	0.01	2	0.06	6	<5	7	<0.01	13	<10	39
L89 +00N –45 +60E*		0.2	0.41	<5	80	<1	<2	0.03	1.1	<1	14	9	0.77	0.04	4	0.06	112	1	0.01	2	0.06	7	<5	6	<0.01	12	<10	37

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: JULY 16,1991 | Page 2 of 5
Area: FIRE LAKE | Lab Project No.: P1422 | Date Completed: JULY 24, 1991 | Attn: R STROSHEIN
Remarks: SAMPLES WERE RERUN FOR AU AS REQUESTED BY FAX SEPT 10, 1991 | J KOWALCHUK
E KIMURA
R HODGSON

Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L89+00N-45+80E		0.1	3.05	6	219	<1	3	0.08	0.8	10	56	28	4.23	0.11	20	1.83	411	<1	0.01	26	0.05	34	6	13	0.11	115	<10	414
L89+00N-46+00E		0.1	2.87	7	178	<1	3	0.07	0.8	9	47	23	3.97	0.08	17	1.36	342	1	0.01	26	0.04	22	6	11	0.11	101	<10	203
L89+00N-46+20E		<0.1	2.78	12	335	<1	<2	0.36	0.1	7	44	17	3.25	0.07	50	1.23	274	1	0.01	21	0.06	37	6	24	0.07	89	<10	112
L89+00N-46+40E		0.2	2.55	<5	196	<1	3	0.07	0.5	9	45	25	4.27	0.08	19	1.31	363	<1	0.01	28	0.04	50	<5	19	0.11	107	<10	275
L89+00N-46+60E		0.1	1.57	<5	291	<1	<2	0.09	1.3	5	38	14	2.41	0.08	16	0.82	459	<1	0.01	15	0.05	14	<5	15	0.08	72	<10	120
L89+00N-46+80E		<0.1	1.96	5	222	<1	3	0.08	0.4	7	37	21	3.22	0.10	16	1.14	318	<1	0.02	21	0.05	15	<5	14	0.07	70	<10	120
L89+00N-47+00E		0.4	3.78	14	636	<1	3	1.28	0.7	14	44	43	4.28	0.30	48	1.89	731	<1	0.09	26	0.12	26	9	68	0.11	99	<10	229
L89+00N-47+20E		0.4	2.14	<5	260	<1	3	0.13	1.8	9	26	18	2.89	0.11	14	0.85	1768	4	0.02	11	0.11	25	5	16	0.04	63	<10	110
L89+00N-47+40E		0.1	3.32	14	518	<1	<2	0.58	0.5	12	63	25	3.99	0.20	21	2.14	717	2	0.03	31	0.11	30	<5	41	0.09	117	<10	228
STD-AU8-P1		0.2	1.10	21	193	<1	3	0.93	0.3	6	105	24	2.14	0.34	9	0.81	569	47	0.07	29	0.08	48	<5	89	0.11	34	<10	142
L89+00N-47+60E		0.2	2.88	<5	396	<1	2	0.43	0.8	11	52	28	3.12	0.08	23	1.56	471	4	0.03	26	0.09	23	5	32	0.07	90	11	200
L89+00N-47+80E		0.1	4.22	8	768	<1	3	0.54	0.9	18	54	44	4.76	0.17	34	2.52	664	4	0.05	40	0.09	19	7	45	0.12	152	<10	288
L89+00N-48+00E		0.4	3.80	14	673	<1	2	0.80	2.1	13	65	50	3.84	0.17	33	2.04	865	5	0.05	41	0.14	57	6	53	0.08	123	<10	335
L89+00N-48+20E		0.3	2.88	<5	511	<1	4	0.08	0.8	6	18	72	5.50	0.40	14	1.59	446	7	0.03	18	0.08	49	<5	19	0.07	117	<10	194
L89+00N-48+40E		0.5	3.42	16	604	<1	6	0.16	1.3	15	78	52	4.75	0.41	30	2.07	1450	10	0.02	47	0.10	36	<5	37	0.11	147	<10	297
L89+00N-48+60E		0.1	1.52	<5	339	<1	<2	0.11	0.5	8	41	19	2.68	0.14	14	0.75	944	4	0.01	12	0.09	18	<5	15	0.02	58	<10	100
L89+00N-48+80E		0.3	3.35	6	482	<1	4	0.13	0.5	10	65	28	4.09	0.40	20	1.56	481	3	0.01	27	0.10	23	5	18	0.05	92	<10	159
L89+00N-49+00E		0.2	3.18	11	296	<1	4	0.12	0.3	11	80	25	4.47	0.15	18	1.81	575	2	0.01	30	0.07	22	6	15	0.09	96	<10	135
L89+00N-49+20E		0.2	2.99	8	603	<1	4	0.30	0.2	14	71	20	3.94	0.32	18	1.69	706	<1	0.02	17	0.07	11	<5	22	0.14	78	<10	105
L89+00N-49+20E*		0.2	2.87	8	771	<1	4	0.29	0.2	13	68	19	3.79	0.31	17	1.62	670	2	0.02	16	0.07	10	<5	21	0.13	75	<10	101
L89+00N-49+40E		0.2	3.16	18	637	<1	3	0.26	0.5	20	122	42	4.22	0.44	20	2.25	1012	4	0.02	53	0.07	18	<5	18	0.15	94	11	131
L89+00N-49+60E		0.2	2.69	7	689	<1	2	0.24	0.7	11	75	22	3.78	0.26	25	1.80	559	3	0.01	24	0.09	14	<5	23	0.10	79	<10	119
L89+00N-49+80E		0.1	5.31	7	1280	<1	<2	0.49	0.3	21	237	9	5.24	1.09	27	4.01	1069	<1	0.05	20	0.10	4	<5	40	0.31	128	<10	113
L89+00N-50+00E		0.2	2.09	<5	1227	<1	<2	0.09	0.8	4	2	15	3.33	0.34	30	1.26	717	2	0.02	5	0.05	12	<5	20	0.13	41	<10	89
L90+00N-40+40E	35	0.4	2.50	8	348	<1	<2	1.34	0.5	12	56	51	2.82	0.20	16	1.46	465	3	0.05	33	0.07	13	<5	47	0.09	73	<10	117
L90+00N-40+60E	65	0.2	2.71	9	442	<1	<2	1.04	0.3	12	57	42	3.09	0.28	17	1.64	401	2	0.05	33	0.07	16	<5	45	0.10	81	<10	118
L90+00N-40+80E	20	0.1	2.50	<5	378	<1	<2	0.70	0.3	13	57	32	2.89	0.32	15	1.57	431	2	0.07	32	0.08	16	<5	37	0.12	79	<10	105
L90+00N-41+00E	70	0.3	2.34	6	391	<1	<2	1.29	1.0	13	59	58	2.51	0.12	24	1.18	909	2	0.04	35	0.08	15	<5	55	0.09	89	<10	216
L90+00N-41+20E	20	0.1	2.84	<5	242	<1	<2	0.32	0.4	14	71	25	3.81	0.10	12	1.78	402	<1	0.03	37	0.05	18	<5	20	0.17	102	<10	138
L90+00N-41+20E*	25	0.1	2.88	<5	241	<1	<2	0.32	0.5	14	75	26	3.83	0.11	12	1.81	403	3	0.03	39	0.05	17	<5	19	0.17	104	<10	141
L90+00N-41+40E	<5	0.1	1.72	<5	160	<1	3	0.45	0.8	11	58	29	2.32	0.10	8	1.05	258	1	0.04	31	0.03	10	<5	22	0.11	60	<10	97
L90+00N-41+60E	<5	0.3	3.01	9	436	<1	3	1.45	0.4	18	73	63	3.38	0.11	21	1.80	361	2	0.04	57	0.09	12	<5	62	0.11	77	<10	119
L90+00N-41+80E	<5	0.3	2.44	12	407	<1	4	1.10	0.8	13	50	47	2.90	0.19	21	1.40	372	2	0.04	35	0.07	14	<5	48	0.09	68	<10	130
L90+00N-42+00E	<5	0.1	1.77	7	279	<1	4	0.88	1.9	11	39	40	2.21	0.08	15	0.81	590	<1	0.04	24	0.04	19	<5	43	0.06	51	<10	113
L90+00N-42+20E	<5	0.1	2.11	<5	459	<1	3	0.93	1.0	11	48	38	2.70	0.10	16	1.23	355	3	0.04	30	0.05	24	<5	48	0.09	68	<10	138
L90+00N-42+40E	<5	0.3	2.41	13	462	<1	4	0.72	2.7	12	41	28	2.48	0.08	30	1.03	737	4	0.04	24	0.10	19	<5	45	0.05	63	<10	147
L90+00N-42+60E	<5	0.4	2.84	7	419	<1	5	0.57	2.4	17	38	26	2.73	0.07	30	1.07	1467	3	0.03	26	0.09	20	<5	37	0.06	62	<10	166
L90+00N-42+80E	<5	0.4	2.64	<5	344	<1	3	0.28	1.3	9	43	27	2.78	0.11	24	1.05	327	1	0.02	25	0.06	24	<5	24	0.06	64	<10	123
L90+00N-43+00E	<5	0.2	1.75	<5	252	<1	<2	0.16	0.7	6	48	16	2.22	0.09	17	0.86	194	3	0.01	16	0.04	28	<5	15	0.06	66	<10	87
L90+00N-43+00E*	<5	0.2	1.78	<5	254	<1	2	0.17	0.8	6	49	16	2.26	0.09	17	0.87	197	2	0.01	17	0.05	28	<5	16	0.08	67	<10	85
L90+00N-43+20E	<5	0.4	0.24	<5	73	<1	<2	0.08	0.4	2	19	10	0.33	0.02	6	0.05	30	<1	0.02	4	0.04	5	<5	11	0.01	11	<10	17
L90+00N-43+40E	<5	0.3	1.49	<5	287	<1	<2	0.14	1.1	5	29	17	2.02	0.05	19	0.56	200	3	0.01	13	0.05	23	8	16	0.03	49	<10	88
L90+00N-43+60E	<5	0.2	2.48	7	235	<1	5	0.14	0.8	9	43	22	3.44	0.10	21	1.30	365	2	0.02	25	0.05	28	<5	16	0.10	88	<10	152
L90+00N-43+80E	<5	<0.1	1.93	9	253	<1	<2	0.14	0.7	7	41	19	2.92	0.10	17	1.10	294	3	0.02	18	0.04	27	<5	17	0.10	91	<10	125
L90+00N-44+00E	<5	0.1	2.62	<5	342	<1	<2	0.20	0.5	11	46	21	3.57	0.15	19	1.46	501	2	0.02	23	0.06	28	<5	20	0.10	90	<10	170
L90+00N-44+20E	<5	0.5	1.40	<5	274	<1	<2	0.09	0.9	4	27	15	1.89	0.06	21	0.43	179	2	0.01	11	0.05	26	<5	13	0.04	46	<10	72
L90+00N-44+40E	<5	0.2	1.98	6	252	<1	<2	0.14	0.5	6	38	19	3.08	0.11	20	1.05	308	1	0.02	22	0.05	30	<5	17	0.09	78	<10	127
L90+00N-44+60E	<5	0.3	2.52	<5	348	<1	3	0.30	0.9	9	38	24	3.03	0.15	29	1.12	417	2	0.03	25	0.09	26	<5	27	0.08	66	<10	141
L90+00N-44+80E	<5	<0.1	1.75	<5	318	<1	<2	0.07	1.2	5	37	16	2.79	0.08	20	0.91	323	3	0.01	18	0.04	23	<5	13	0.08	78	<10	133
L90+00N-44+80E*	<5	<0.1	1.77	8	322	<1	<2	0.07	1.2	5	37	16	2.80	0.08	20	0.92	323	3	0.01	18	0.04	24	<5	13	0.08	78	<10	133

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: JULY 16,1991 | Page 3 of 5
Area: FIRE LAKE | Lab Project No.: P1422 | Date Completed: JULY 24, 1991 | Attn: R STROSHEIN
Remarks: SAMPLES WERE RERUN FOR AU AS REQUESTED BY FAX SEPT 10, 1991 | J KOWALCHUK
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L 5 PPB) | E KIMURA
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours. | R HODGSON
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L90+00N–45+00E	<5	0.1	2.43	9	267	<1	4	0.11	0.6	10	46	27	3.82	0.14	21	1.39	455	1	0.02	28	0.04	34	<5	16	0.10	87	<10	221
L90+00N–45+20E	<5	<0.1	1.97	<5	334	<1	2	0.10	0.9	8	39	25	3.44	0.15	24	1.07	439	2	0.01	24	0.05	27	<5	18	0.08	80	<10	192
L90+00N–45+40E	<5	0.1	1.23	<5	227	<1	3	0.27	1.0	7	24	16	2.18	0.10	28	0.56	503	2	0.02	14	0.05	23	<5	22	0.04	41	<10	108
L90+00N–45+60E	<5	<0.1	2.25	12	287	<1	3	0.22	0.7	12	34	26	3.71	0.18	46	1.21	806	3	0.02	30	0.04	44	<5	21	0.08	61	<10	222
L90+00N–45+80E	<5	<0.1	2.12	8	201	<1	3	0.10	0.8	7	40	24	3.46	0.11	21	1.20	334	2	0.01	25	0.04	30	<5	14	0.09	75	<10	177
L90+00N–46+00E	<5	0.1	2.96	12	379	<1	3	0.25	0.4	11	47	34	3.58	0.30	30	1.56	450	3	0.03	38	0.07	37	<5	23	0.10	78	<10	160
L90+00N–46+20E	<5	0.2	2.97	6	236	<1	6	0.12	0.5	8	48	29	3.62	0.17	21	1.36	345	3	0.02	30	0.06	23	<5	15	0.07	82	<10	149
L90+00N–46+40E	<5	0.1	2.02	<5	247	<1	3	0.08	0.5	6	40	17	3.36	0.10	17	1.07	305	2	0.01	21	0.05	23	7	17	0.08	93	<10	127
L90+00N–46+60E	<5	0.1	2.47	6	357	<1	4	0.15	1.1	9	57	25	3.76	0.22	19	1.54	487	3	0.02	28	0.06	21	<5	19	0.08	102	<10	253
STD–AU8–P1	250	0.2	1.07	20	187	<1	2	0.92	0.3	6	107	25	2.12	0.34	8	0.80	563	51	0.07	29	0.06	48	<5	66	0.11	35	<10	143
L90+00N–46+80E	<5	0.2	2.75	8	274	<1	3	0.10	0.5	8	52	31	3.39	0.12	22	1.47	580	4	0.02	28	0.09	26	<5	16	0.04	97	<10	160
L90+00N–47+00E	5	0.1	2.86	13	427	<1	2	0.27	1.0	9	54	32	3.83	0.18	25	1.82	613	4	0.02	34	0.09	27	11	26	0.08	101	<10	180
L90+00N–47+20E	<5	<0.1	2.45	10	404	<1	2	0.42	1.5	8	46	25	3.51	0.14	22	1.46	722	4	0.02	27	0.10	28	<5	31	0.05	96	<10	186
L90+00N–47+40E	10	0.2	4.20	15	966	<1	4	1.12	2.8	15	72	50	4.49	0.33	26	2.67	830	3	0.07	42	0.10	27	10	66	0.12	158	<10	294
L90+00N–47+60E	<5	0.4	5.43	22	1006	<1	<2	0.81	0.9	18	37	50	5.48	0.45	29	3.19	858	1	0.12	41	0.07	20	7	62	0.20	189	<10	353
L90+00N–47+80E	<5	0.1	4.84	38	604	<1	3	0.54	0.9	23	248	46	5.13	0.24	28	3.85	1110	1	0.04	192	0.06	16	<5	40	0.15	141	<10	301
L90+00N–48+00E	<5	0.4	2.93	10	473	<1	2	0.29	0.3	10	42	26	4.06	0.09	17	1.52	1211	7	0.03	28	0.12	13	<5	30	0.06	90	<10	182
L90+00N–48+20E	<5	0.3	1.99	<5	222	<1	<2	0.10	1.0	7	45	21	2.74	0.11	14	0.73	588	5	0.02	20	0.13	25	<5	16	0.02	76	<10	125
L90+00N–48+40E	<5	0.1	2.72	13	532	<1	<2	0.13	2.1	12	84	29	4.15	0.47	17	1.59	632	3	0.02	30	0.11	23	<5	20	0.08	97	<10	226
L90+00N–48+40E*	<5	0.1	2.74	14	538	<1	3	0.14	2.1	12	85	30	4.20	0.48	18	1.61	634	2	0.02	31	0.11	24	<5	21	0.08	98	<10	227
L90+00N–48+60E	<5	0.2	3.38	14	701	<1	<2	0.28	0.7	13	66	38	4.36	0.66	27	2.01	730	3	0.02	37	0.11	32	8	26	0.07	119	<10	264
L90+00N–48+80E	<5	0.3	5.02	22	866	<1	<2	0.52	0.7	16	68	37	5.08	0.29	36	2.60	807	2	0.05	22	0.09	14	<5	36	0.17	156	<10	194
L90+00N–49+00E	<5	0.3	2.46	16	620	<1	3	0.29	0.8	18	51	27	3.73	0.37	24	1.37	1125	3	0.02	26	0.11	42	<5	25	0.05	82	<10	170
L90+00N–49+20E	<5	0.1	2.58	14	448	<1	<2	0.26	0.3	13	82	31	3.45	0.30	20	1.57	448	2	0.02	34	0.08	22	<5	21	0.11	88	<10	126
L90+00N–49+40E	<5	0.3	2.36	9	544	<1	3	0.23	0.2	10	54	16	2.84	0.12	12	1.31	529	<1	0.02	21	0.10	5	6	16	0.08	69	<10	61
L90+00N–49+60E	<5	0.3	2.17	5	524	<1	<2	0.18	0.4	9	39	14	3.19	0.10	11	1.07	482	2	0.02	8	0.08	4	<5	20	0.08	57	<10	80
L90+00N–49+80E	<5	0.3	2.86	9	824	<1	<2	0.42	0.9	14	116	16	3.80	0.35	16	1.88	833	<1	0.01	19	0.08	20	6	34	0.11	71	<10	105
L90+00N–50+00E	<5	0.3	0.84	<5	99	<1	<2	0.07	0.8	3	26	14	1.29	0.03	10	0.25	248	2	0.01	8	0.08	5	<5	8	0.01	36	<10	31
L91+00N–40+80E		0.2	2.49	17	408	<1	<2	1.87	1.5	14	70	54	2.99	0.18	15	1.60	405	<1	0.05	45	0.06	17	11	70	0.10	78	<10	128
L91+00N–40+80E*		0.2	2.44	12	403	<1	<2	1.84	1.5	14	68	53	2.97	0.18	15	1.57	401	<1	0.05	44	0.06	18	6	69	0.09	76	<10	127
L91+00N–41+00E		0.3	2.56	11	436	<1	<2	1.73	1.8	15	75	72	3.02	0.17	21	1.65	363	<1	0.06	52	0.06	17	<5	75	0.10	75	<10	132
L91+00N–41+20E		0.2	2.65	15	390	<1	<2	1.88	1.7	16	77	78	3.10	0.21	19	1.73	286	<1	0.05	56	0.05	16	5	74	0.12	80	<10	141
L91+00N–41+40E		0.2	2.88	16	520	<1	3	1.85	0.9	16	83	73	3.33	0.36	19	2.07	373	<1	0.06	57	0.08	13	11	78	0.13	88	<10	116
L91+00N–41+60E		<0.1	2.71	15	481	<1	<2	1.75	1.3	13	59	44	3.22	0.20	16	1.68	424	1	0.07	35	0.05	17	8	76	0.10	85	<10	122
L91+00N–41+80E		0.2	1.25	12	379	<1	<2	1.95	0.9	6	32	49	1.36	0.06	26	0.54	188	<1	0.03	22	0.05	7	8	73	0.04	32	<10	73
L91+00N–42+00E		0.7	2.15	19	543	<1	<2	1.72	3.8	11	49	47	2.45	0.08	27	1.07	394	<1	0.04	35	0.08	15	<5	72	0.08	60	<10	198
L91+00N–42+20E		0.3	2.65	20	510	<1	3	1.29	5.3	15	60	45	3.12	0.18	21	1.46	590	1	0.04	41	0.07	18	<5	54	0.09	79	<10	292
L91+00N–42+40E		0.4	2.92	13	558	<1	<2	0.97	2.4	16	59	39	3.36	0.19	32	1.52	668	1	0.04	38	0.07	21	7	44	0.09	84	<10	228
L91+00N–42+60E		0.7	2.69	17	603	<1	<2	0.98	5.0	20	50	49	3.32	0.14	31	1.17	950	3	0.02	31	0.08	40	<5	46	0.07	83	<10	219
L91+00N–42+60E*		0.7	2.57	15	572	<1	2	0.94	4.8	19	49	46	3.18	0.14	29	1.12	907	3	0.02	30	0.07	39	<5	43	0.07	80	<10	209
L91+00N–42+80E		0.4	2.73	16	602	<1	3	0.87	3.1	15	55	36	3.31	0.22	26	1.35	982	4	0.03	25	0.08	29	<5	43	0.09	90	<10	227
L91+00N–43+00E		0.3	2.14	<5	390	<1	4	0.29	0.8	8	53	22	2.97	0.08	16	1.15	342	4	0.02	22	0.05	27	<5	23	0.08	81	<10	129
L91+00N–43+20E		0.1	2.10	<5	323	<1	4	0.23	0.8	9	37	18	2.83	0.08	16	1.02	352	2	0.03	17	0.06	21	<5	20	0.07	66	<10	116
L91+00N–43+40E		0.1	2.53	11	420	<1	3	0.28	0.4	11	47	22	3.68	0.19	18	1.54	615	3	0.03	26	0.05	23	6	22	0.11	94	<10	167
L91+00N–43+60E		0.1	2.98	10	328	<1	3	0.30	0.5	11	41	24	3.88	0.11	23	1.67	469	4	0.03	26	0.06	31	<5	24	0.10	97	<10	183
L91+00N–43+80E		0.2	2.85	11	348	<1	4	0.24	0.5	11	38	22	3.97	0.09	19	1.71	459	3	0.03	25	0.04	29	6	21	0.10	99	<10	192
L91+00N–44+00E		0.2	2.75	11	376	<1	4	0.27	0.8	11	44	23	3.76	0.14	17	1.65	646	4	0.03	22	0.06	32	<5	23	0.09	107	<10	202
L91+00N–44+20E		0.1	2.40	13	415	<1	3	0.42	1.8	10	37	25	3.48	0.11	18	1.37	712	7	0.03	20	0.06	29	<5	30	0.07	93	<10	161
L91+00N–44+40E		0.3	2.83	10	481	<1	3	0.48	1.3	10	41	25	3.48	0.13	20	1.65	424	3	0.04	26	0.06	25	<5	33	0.09	92	<10	202
L91+00N–44+40E*		0.4	2.84	10	488	<1	2	0.48	1.3	10	40	25	3.49	0.13	20	1.66	427	3	0.04	26	0.06	25	<5	33	0.09	91	<10	205

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: JULY 16,1991 | Page 4 of 5
Area: FIRE LAKE | Lab Project No.: P1422 | Date Completed: JULY 24, 1991 | Attn: R STROSHEIN
Remarks: SAMPLES WERE RERUN FOR AU AS REQUESTED BY FAX SEPT 10, 1991 | J KOWALCHUK
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB) | E KIMURA
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours. | R HODGSON
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Tl %	V ppm	W ppm	Zn ppm
L91+00N-44+60E		0.1	3.34	9	466	<1	<2	0.59	0.7	13	44	32	3.97	0.25	22	1.99	552	3	0.08	32	0.07	29	<5	39	0.12	107	10	207
L91+00N-44+80E		0.1	2.82	6	408	<1	3	0.54	1.4	13	47	29	3.87	0.19	23	1.68	558	3	0.05	34	0.05	26	<5	37	0.11	95	<10	219
L91+00N-45+00E		0.4	2.42	10	417	<1	<2	0.69	1.8	16	36	41	3.38	0.12	49	1.20	844	4	0.03	26	0.08	33	8	38	0.07	80	<10	275
L91+00N-45+20E		<0.1	1.76	6	253	<1	<2	0.41	1.2	10	32	17	2.70	0.08	17	1.01	456	1	0.04	17	0.04	19	<5	26	0.07	62	<10	149
L91+00N-45+40E		<0.1	2.51	8	248	<1	<2	0.42	0.8	10	37	18	3.43	0.08	29	1.39	447	2	0.03	22	0.06	29	6	27	0.09	75	<10	221
L91+00N-45+60E		0.1	2.43	17	363	<1	<2	0.73	2.0	14	38	31	3.71	0.15	45	1.43	886	2	0.04	30	0.06	68	<5	41	0.09	89	<10	385
L91+00N-45+80E		0.1	2.85	10	363	<1	<2	0.85	3.2	15	37	32	3.89	0.11	87	1.27	849	4	0.04	35	0.06	63	7	38	0.07	89	<10	610
L91+00N-46+00E		<0.1	2.68	9	313	<1	3	0.21	2.2	12	47	24	3.78	0.09	27	1.42	757	3	0.02	28	0.04	39	<5	26	0.10	94	<10	312
L91+00N-46+20E		0.1	1.84	7	286	<1	2	0.16	1.5	10	38	22	3.27	0.14	19	0.86	756	5	0.01	19	0.06	38	<5	19	0.06	83	<10	152
STD-AU8-P1		0.2	0.98	24	183	<1	3	0.83	0.3	5	100	24	2.11	0.32	7	0.77	549	45	0.06	29	0.07	48	<5	77	0.10	33	<10	137
L91+00N-46+40E		0.1	2.24	8	402	<1	4	0.41	1.9	11	41	26	3.06	0.14	22	1.27	595	3	0.04	24	0.07	23	<5	31	0.07	81	<10	201
L91+00N-46+60E		0.7	1.84	11	501	<1	4	1.84	4.8	8	28	45	1.87	0.08	59	0.84	701	4	0.03	20	0.12	49	7	73	0.03	45	<10	242
L91+00N-46+80E		0.1	2.49	<5	349	<1	4	0.14	0.3	7	54	24	3.27	0.12	19	1.25	315	4	0.02	24	0.06	17	<5	19	0.06	91	<10	133
L91+00N-47+00E		0.1	2.88	7	260	<1	4	0.25	0.5	9	55	31	3.97	0.14	21	1.81	389	4	0.02	31	0.07	19	6	26	0.05	102	<10	175
L91+00N-47+20E		0.6	2.14	8	405	<1	3	0.44	0.8	7	37	21	1.87	0.05	18	0.88	376	5	0.04	19	0.14	14	<5	36	0.03	82	<10	118
L91+00N-47+40E		0.2	1.87	6	268	<1	4	0.17	0.8	6	47	21	2.60	0.09	17	0.86	429	6	0.01	20	0.11	20	<5	21	0.02	75	<10	99
L91+00N-47+60E		0.3	4.01	<5	555	1	3	0.24	3.7	13	82	39	4.21	0.16	20	2.08	1372	6	0.04	40	0.08	19	<5	34	0.10	165	<10	223
L91+00N-47+80E		0.2	5.81	<5	561	1	3	0.45	1.0	23	116	39	5.03	0.32	25	2.84	1579	5	0.07	34	0.09	9	<5	37	0.14	115	<10	209
L91+00N-48+00E		0.3	2.20	<5	414	<1	3	0.34	1.7	12	50	27	2.78	0.10	20	1.07	1079	7	0.02	25	0.17	20	<5	32	0.02	79	<10	177
STD-AU8-P1		0.2	1.02	20	197	<1	<2	0.86	0.4	7	103	25	2.10	0.34	9	0.82	562	50	0.06	29	0.08	46	<5	84	0.10	33	<10	147
L91+00N-48+20E		0.1	3.48	8	515	<1	<2	0.17	0.4	8	85	31	3.87	0.29	19	2.30	503	4	0.03	33	0.08	19	<5	25	0.13	138	<10	224
L91+00N-48+40E		0.4	3.55	<5	486	<1	2	0.19	0.8	7	65	51	3.92	0.21	32	2.08	460	4	0.04	33	0.08	14	<5	34	0.09	106	<10	231
L91+00N-48+60E		0.3	3.89	6	853	<1	<2	0.25	0.9	12	118	36	4.58	0.79	29	2.59	795	5	0.04	62	0.08	21	<5	45	0.15	133	<10	344
L91+00N-48+80E		0.5	2.89	13	527	<1	<2	0.38	0.5	11	51	26	3.71	0.23	54	1.42	1056	2	0.01	18	0.16	27	<5	26	0.03	79	<10	131
L91+00N-49+00E		0.4	0.93	<5	307	<1	<2	0.45	0.7	6	15	19	1.90	0.04	54	0.18	1037	3	0.01	7	0.16	22	<5	27	<0.01	29	<10	47
L91+00N-49+20E		0.2	2.08	16	344	<1	<2	0.16	0.2	6	40	30	2.85	0.17	20	1.14	386	6	0.02	25	0.07	19	<5	21	0.05	84	<10	137
L91+00N-49+40E		<0.1	4.42	22	721	<1	3	0.19	0.3	22	133	45	5.24	0.21	12	2.75	637	<1	0.03	56	0.07	3	<5	15	0.16	200	<10	173
L91+00N-49+60E		<0.1	3.56	10	783	<1	3	0.26	0.4	15	108	32	4.39	0.28	24	2.30	898	2	0.02	34	0.07	15	5	21	0.15	128	<10	199
L91+00N-49+80E		0.2	2.99	34	286	<1	3	0.20	1.8	16	278	44	3.35	0.04	23	2.07	495	1	0.01	58	0.08	17	<5	25	0.06	75	<10	81
L91+00N-49+80E*		0.2	3.00	36	288	<1	<2	0.20	1.8	16	281	45	3.39	0.04	24	2.09	490	<1	0.01	59	0.08	18	<5	26	0.06	76	<10	82
L91+00N-50+00E		0.1	3.32	7	824	<1	3	0.37	0.4	17	117	36	4.44	0.28	17	2.33	629	<1	0.02	27	0.06	10	<5	32	0.18	91	<10	119
L92+00N-41+00E	<5	0.3	2.35	9	285	<1	3	0.40	2.2	12	59	40	3.31	0.10	19	1.40	321	2	0.04	38	0.05	18	<5	27	0.10	79	<10	187
L92+00N-41+20E	<5	0.1	2.72	9	588	<1	<2	0.93	1.9	14	58	51	3.44	0.10	30	1.57	329	2	0.05	44	0.04	18	<5	51	0.11	86	<10	148
L92+00N-41+40E	<5	0.2	2.54	10	320	<1	<2	0.69	1.4	13	57	38	3.40	0.12	24	1.53	431	3	0.05	38	0.05	19	<5	38	0.10	80	<10	202
L92+00N-41+60E	<5	0.5	2.82	17	653	<1	4	1.40	1.4	15	61	54	3.66	0.47	29	1.87	574	1	0.07	45	0.09	21	<5	58	0.11	88	<10	188
L92+00N-41+80E	<5	0.5	2.63	11	597	<1	3	1.05	1.9	14	56	53	3.27	0.08	30	1.33	705	2	0.04	41	0.06	20	<5	51	0.09	82	<10	198
L92+00N-42+00E	<5	1.2	2.81	16	524	<1	4	1.78	4.8	14	55	89	3.20	0.09	54	1.32	659	3	0.04	51	0.08	22	<5	69	0.09	78	<10	242
L92+00N-42+20E	<5	0.4	1.77	<5	379	<1	3	0.34	3.5	8	38	30	2.29	0.08	28	0.83	218	2	0.03	23	0.05	17	<5	28	0.08	57	<10	182
L92+00N-42+40E	<5	0.3	1.95	6	145	<1	<2	0.35	1.8	12	69	42	2.50	0.04	14	1.03	453	2	0.03	58	0.05	45	6	19	0.07	54	<10	259
L92+00N-42+40E*	<5	0.3	1.99	8	148	<1	<2	0.36	1.8	12	70	43	2.55	0.05	14	1.05	459	3	0.03	57	0.05	45	<5	20	0.07	54	<10	267
L92+00N-42+80E	<5	0.4	2.62	13	427	<1	<2	1.31	1.5	11	35	29	2.50	0.09	29	0.91	755	3	0.03	21	0.09	18	<5	53	0.05	57	<10	145
L92+00N-43+00E	<5	0.6	3.09	15	550	<1	<2	0.93	1.0	17	55	29	3.76	0.31	20	1.52	941	2	0.03	28	0.07	26	<5	40	0.11	104	<10	176
L92+00N-43+20E	<5	0.3	3.13	7	397	<1	<2	0.13	0.8	13	61	25	4.44	0.31	19	1.94	586	1	0.02	30	0.06	22	<5	13	0.14	118	<10	183
L92+00N-43+40E	<5	0.2	3.16	<5	339	<1	<2	0.10	0.4	11	68	25	4.52	0.23	17	1.98	459	2	0.03	30	0.04	18	<5	13	0.17	134	<10	166
L92+00N-43+60E	<5	<0.1	3.53	6	442	<1	<2	0.17	1.2	12	60	30	4.87	0.20	20	2.08	491	1	0.03	33	0.07	20	<5	17	0.15	123	<10	181
L92+00N-43+80E	<5	<0.1	2.72	<5	308	<1	<2	0.08	0.4	8	68	21	3.97	0.18	15	1.82	427	2	0.02	26	0.04	21	<5	12	0.16	135	<10	147
L92+00N-44+00E	<5	<0.1	2.75	6	318	<1	<2	0.20	0.3	9	51	25	3.60	0.20	19	1.75	385	4	0.02	31	0.06	26	<5	21	0.11	101	<10	186
L92+00N-44+20E	<5	<0.1	2.36	<5	223	<1	2	0.07	0.4	7	49	24	3.36	0.13	16	1.41	374	4	0.02	22	0.04	25	<5	18	0.12	115	10	148
L92+00N-44+40E	<5	0.2	2.24	5	368	<1	2	0.21	2.7	9	37	26	2.83	0.12	17	1.11	308	2	0.03	28	0.08	23	<5	21	0.06	65	<10	154
L92+00N-44+40E*	<5	0.2	2.24	6	374	<1	<2	0.21	2.8	9	37	26	2.83	0.12	18	1.09	310	3	0.03	29	0.08	23	<5	21	0.06	63	<10	151

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: JULY 16,1991 | Page 5 of 5
Area: FIRE LAKE | Lab Project No.: P1422 | Date Completed: JULY 24, 1991 | Attn: R STROSHEIN
Remarks: SAMPLES WERE RERUN FOR AU AS REQUESTED BY FAX SEPT 10, 1991 | J KOWALCHUK
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L 5 PPB) | E KIMURA
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours. | R HODGSON
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L92+00N–44+60E	<5	0.1	2.20	5	230	<1	<2	0.08	0.4	8	47	27	3.62	0.14	19	1.28	381	3	0.02	25	0.05	19	<5	17	0.12	104	<10	135
L92+00N–44+80E	<5	0.3	2.24	<5	450	<1	<2	0.20	2.2	8	47	27	2.89	0.11	22	1.17	404	3	0.02	23	0.06	24	<5	30	0.07	85	<10	167
L92+00N–45+00E	<5	0.2	2.87	7	499	<1	<2	0.24	1.1	11	48	30	4.12	0.30	25	1.70	423	4	0.03	38	0.07	23	<5	29	0.10	97	<10	220
L92+00N–45+20E	<5	0.3	2.64	<5	326	<1	<2	0.09	3.3	10	54	33	3.56	0.14	20	1.41	555	5	0.02	28	0.06	27	<5	19	0.09	100	<10	355
L92+00N–45+40E	<5	0.6	1.66	<5	224	<1	<2	0.13	1.0	8	28	18	1.99	0.06	27	0.55	363	3	0.02	13	0.06	25	<5	15	0.03	41	<10	101
L92+00N–45+60E	<5	0.4	2.40	<5	432	<1	<2	0.13	1.2	8	42	25	3.43	0.16	35	1.26	344	3	0.02	18	0.06	35	<5	21	0.10	75	<10	167
L92+00N–45+80E	<5	0.3	2.50	6	311	<1	<2	0.26	1.2	10	40	26	3.73	0.16	27	1.37	431	3	0.03	29	0.06	26	<5	28	0.09	77	<10	169
L92+00N–46+00E	<5	0.4	2.81	<5	457	1	<2	0.18	4.1	18	37	24	3.50	0.08	77	1.10	1416	2	0.02	25	0.06	78	<5	20	0.10	67	<10	307
L92+00N–46+20E	<5	0.2	1.65	<5	393	<1	<2	0.40	4.7	22	28	29	3.02	0.16	28	0.77	2104	4	0.02	21	0.09	30	<5	34	0.04	55	<10	243
L92+00N–46+20E*	<5	0.2	1.63	5	393	<1	<2	0.47	4.7	22	28	29	3.01	0.16	28	0.75	2140	4	0.02	21	0.09	28	<5	34	0.04	55	<10	242
L92+00N–46+40E	<5	0.2	1.91	7	409	<1	2	0.47	2.3	22	37	30	3.40	0.14	22	0.97	2492	6	0.02	21	0.06	48	7	35	0.06	76	<10	252
L92+00N–46+60E	<5	0.2	1.55	9	313	<1	<2	0.54	2.6	13	32	26	2.31	0.09	31	0.75	1192	3	0.03	17	0.06	19	<5	33	0.04	47	<10	176
L92+00N–46+80E	<5	0.3	0.97	<5	228	<1	4	0.14	5.1	12	25	15	1.65	0.10	7	0.44	1306	2	0.02	9	0.09	17	<5	17	0.02	33	<10	108
L92+00N–47+00E	<5	0.4	2.62	18	330	<1	2	0.51	1.3	10	41	26	3.07	0.07	27	1.38	567	2	0.03	26	0.12	29	<5	33	0.05	74	<10	204
L92+00N–47+20E	<5	0.3	2.11	10	301	<1	3	0.48	1.7	12	47	23	3.03	0.13	18	1.20	667	5	0.02	25	0.09	19	<5	30	0.06	78	<10	185
L92+00N–47+40E	<5	0.9	0.87	7	107	<1	<2	0.45	1.2	4	21	98	0.74	0.04	6	0.13	90	2	0.03	11	0.06	19	<5	57	0.01	14	<10	101
L92+00N–47+60E	<5	0.4	1.45	8	217	<1	<2	1.79	0.8	12	38	167	1.94	0.07	19	0.55	582	4	0.02	64	0.06	199	<5	64	0.05	37	<10	434
L92+00N–47+80E	<5	0.4	2.21	11	345	<1	<2	0.56	0.7	14	56	25	4.40	0.29	18	2.14	573	5	0.04	38	0.06	26	5	33	0.12	98	<10	292
STD–AU8–P1	275	0.3	1.05	21	187	<1	<2	0.89	0.3	5	99	25	2.14	0.36	7	0.79	555	49	0.05	27	0.07	46	6	84	0.11	33	<10	149

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: JULY 16, 1991 | Page 1 of 5
Area: FIRE LAKE | Lab Project No.: P1423 | Date Completed: JULY 25, 1991 | Attn: R STROSHEIN
Remarks: SOME SAMPLES RERUN FOR AU AS REQUESTED BY FAX SEPT 10, 1991 | J KOWALCHUK
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB) | E KIMURA
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours. | R HODGSON
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L +00N –48 +00E	<5	0.3	2.56	8	467	<1	<2	0.45	0.5	12	81	23	4.15	0.20	18	1.76	520	3	0.03	33	0.06	14	<5	24	0.16	121	<10	199
L +00N –48 +20E	<5	2.0	0.97	<5	238	<1	<2	0.21	0.8	3	19	20	1.03	0.04	30	0.14	274	2	0.01	7	0.16	20	<5	15	<0.01	21	<10	42
L +00N –48 +40E	<5	0.3	4.21	9	589	<1	<2	0.40	0.4	10	76	36	3.86	0.22	36	2.40	623	4	0.07	26	0.07	27	<5	35	0.13	148	<10	241
L +00N –48 +60E	<5	0.7	3.26	32	413	1	<2	0.46	1.1	11	78	37	3.99	0.10	59	1.82	795	5	0.03	41	0.15	38	<5	30	0.06	111	<10	233
L +00N –48 +80E	5	0.2	3.56	12	1027	<1	<2	0.74	1.3	20	29	23	5.27	0.78	23	2.48	1344	<1	0.03	16	0.09	18	<5	41	0.21	117	<10	240
L +00N –49 +20E	<5	0.7	2.98	21	832	<1	<2	0.62	0.4	12	79	39	3.86	0.07	29	1.78	526	<1	0.02	23	0.13	23	<5	27	0.07	96	<10	170
L +00N –49 +40E	<5	0.1	3.12	11	1070	<1	<2	0.59	<0.1	20	92	39	5.02	0.28	17	2.08	671	<1	0.02	37	0.11	20	<5	24	0.32	134	<10	115
L +00N –49 +60E	<5	0.3	3.05	8	730	<1	<2	0.46	0.3	13	38	20	4.19	0.23	27	1.55	660	1	0.03	10	0.09	5	<5	33	0.12	72	<10	112
L +00N –49 +80E	<5	0.2	3.34	8	625	<1	<2	0.29	0.4	14	133	18	4.08	0.33	16	2.18	544	1	0.03	12	0.08	8	<5	25	0.15	80	<10	102
S)–AU8–P1	320	0.2	1.11	23	200	<1	<2	0.96	0.4	8	109	26	2.26	0.36	10	0.84	556	50	0.07	30	0.08	49	8	89	0.12	35	<10	151
L +00N –50 +00E	<5	0.2	1.92	7	296	<1	5	0.21	0.5	10	59	36	2.42	0.09	13	1.15	472	1	0.02	28	0.06	11	7	18	0.08	59	<10	94
L +00N –41 +20E		0.2	2.74	6	427	<1	4	0.99	0.2	17	68	43	3.69	0.15	17	1.69	505	2	0.04	47	0.07	19	<5	44	0.12	90	<10	144
L +00N –41 +40E		0.3	2.89	11	517	<1	5	1.15	0.3	15	62	47	3.70	0.18	25	1.77	497	2	0.06	43	0.08	20	7	50	0.11	92	<10	137
L +00N –41 +60E		0.1	2.84	9	558	<1	5	0.99	0.4	14	57	32	3.44	0.44	18	1.74	496	<1	0.07	38	0.09	19	<5	44	0.11	85	<10	127
L +00N –41 +80E		0.1	2.73	7	656	<1	3	0.86	0.2	15	51	40	3.70	0.81	28	1.91	555	2	0.06	38	0.09	21	<5	32	0.12	88	<10	138
L +00N –42 +00E		0.2	2.80	10	562	<1	5	1.03	0.6	15	58	43	3.78	0.47	22	1.84	502	2	0.07	45	0.10	16	7	47	0.12	89	<10	137
L +00N –42 +20E		0.5	2.98	12	699	<1	5	1.98	2.1	18	68	70	3.25	0.35	42	1.77	846	3	0.08	42	0.10	18	<5	77	0.11	97	<10	174
L +00N –42 +40E		0.3	1.72	9	538	<1	4	1.75	2.2	7	34	61	1.86	0.07	63	0.54	366	3	0.03	29	0.08	10	8	65	0.04	42	<10	86
L +00N –42 +60E		0.4	2.21	7	535	<1	7	1.13	5.0	12	49	35	2.78	0.15	50	1.05	467	3	0.03	25	0.07	20	<5	47	0.09	75	<10	195
L +00N –42 +60E*		0.4	2.43	10	587	<1	5	1.25	5.6	13	53	38	3.00	0.16	54	1.15	514	3	0.03	27	0.07	22	6	52	0.10	82	<10	216
L +00N –42 +80E		0.7	2.80	15	617	<1	<2	1.85	4.8	15	44	72	2.73	0.12	128	1.09	915	4	0.03	38	0.11	18	<5	71	0.06	67	<10	181
L +00N –43 +00E		0.8	3.38	24	714	<1	3	0.93	1.8	20	55	49	4.52	0.59	59	2.01	923	4	0.05	43	0.08	21	<5	47	0.12	111	<10	256
L +00N –43 +20E		0.3	3.32	15	564	<1	<2	0.47	0.8	16	65	29	4.14	0.42	24	1.97	728	3	0.05	35	0.07	24	<5	28	0.15	119	<10	230
L +00N –43 +40E		0.2	2.74	11	368	<1	2	0.22	1.0	11	56	20	3.71	0.20	16	1.81	422	5	0.02	22	0.04	22	<5	18	0.13	101	<10	207
L +00N –43 +60E		0.4	3.07	7	561	<1	<2	0.25	0.5	10	65	24	3.89	0.31	20	2.00	439	4	0.03	26	0.06	23	<5	25	0.16	121	<10	168
L +00N –43 +80E		0.1	2.89	9	599	<1	<2	0.33	0.9	12	61	24	4.17	0.27	18	1.81	520	4	0.03	33	0.06	19	<5	25	0.16	128	<10	202
L +00N –44 +00E		0.1	4.10	13	573	<1	<2	0.42	0.3	15	64	31	4.55	0.30	23	2.24	469	3	0.05	31	0.10	25	<5	30	0.17	113	<10	170
L +00N –44 +20E		0.2	3.09	8	400	<1	<2	0.28	0.5	10	55	27	3.81	0.27	23	1.72	450	3	0.03	32	0.07	21	<5	28	0.12	102	<10	176
L +00N –44 +40E		<0.1	2.70	11	317	<1	<2	0.23	0.3	9	46	29	3.81	0.19	23	1.53	409	4	0.03	33	0.06	23	<5	24	0.10	86	<10	160
L +00N –44 +40E*		<0.1	2.57	5	302	<1	<2	0.23	0.3	9	45	28	3.49	0.18	23	1.45	382	4	0.03	32	0.06	23	<5	23	0.10	82	<10	153
L +00N –44 +60E		0.1	2.81	12	359	<1	2	0.23	0.6	11	51	30	3.85	0.20	22	1.58	546	4	0.03	31	0.06	23	<5	24	0.10	95	<10	189
L +00N –44 +80E		0.1	3.22	14	366	<1	4	0.28	0.5	11	46	33	4.18	0.24	26	1.84	462	4	0.03	36	0.08	27	6	28	0.11	92	<10	176
L +00N –45 +00E		0.2	2.55	13	412	<1	<2	0.24	1.1	12	43	32	3.47	0.19	23	1.40	502	4	0.03	35	0.07	23	8	26	0.09	83	<10	196
L +00N –45 +20E		0.1	2.90	11	406	<1	<2	0.26	0.4	10	49	32	3.84	0.26	25	1.81	426	4	0.03	35	0.07	26	<5	26	0.10	92	<10	175
L +00N –45 +40E		0.2	3.11	7	415	<1	<2	0.22	1.6	11	56	33	3.45	0.15	30	1.55	615	3	0.03	28	0.07	270	6	26	0.08	99	<10	269
L +00N –45 +60E		0.1	2.91	9	425	<1	<2	0.23	0.6	11	59	24	3.81	0.29	24	1.89	517	2	0.03	28	0.06	22	9	23	0.13	104	<10	274
L +00N –45 +80E		0.1	2.83	8	367	<1	<2	0.23	0.5	13	48	25	4.12	0.20	20	1.52	674	2	0.02	26	0.05	19	<5	24	0.12	100	<10	186
L +00N –46 +00E		<0.1	1.46	11	190	<1	<2	0.09	0.4	5	27	19	2.75	0.12	19	0.72	244	3	0.01	15	0.04	21	<5	16	0.09	66	<10	104
L +00N –46 +20E		0.1	2.72	14	311	<1	<2	0.31	1.0	15	35	27	4.33	0.23	39	1.28	1023	3	0.02	27	0.08	33	16	29	0.09	78	<10	223
L +00N –46 +20E*		0.1	2.48	12	282	<1	<2	0.26	0.9	13	33	24	3.96	0.21	36	1.17	926	3	0.02	25	0.07	31	7	26	0.08	71	<10	212
L +00N –46 +40E		0.1	1.59	<5	366	<1	<2	0.10	1.7	7	33	26	2.79	0.07	27	0.85	630	3	0.02	15	0.05	26	<5	15	0.05	74	<10	111
L +00N –46 +60E		0.2	2.66	12	343	<1	<2	0.26	0.4	12	41	34	3.59	0.26	26	1.26	543	3	0.03	33	0.09	26	<5	28	0.07	69	<10	147
L +00N –46 +80E		0.1	2.94	11	331	<1	2	0.19	0.3	10	48	27	4.19	0.26	22	1.51	414	3	0.02	29	0.07	21	6	23	0.07	87	<10	163
L +00N –47 +00E		0.1	2.64	12	340	<1	<2	0.39	0.8	14	46	27	3.95	0.24	30	1.54	770	4	0.03	30	0.08	17	7	30	0.08	81	<10	225
L +00N –47 +20E		0.6	2.89	9	524	<1	2	1.57	4.3	16	38	77	2.80	0.20	155	1.13	1063	4	0.04	30	0.23	31	<5	70	0.03	62	<10	429
L +00N –47 +40E		0.1	4.03	8	343	<1	3	0.50	0.8	17	46	18	5.24	0.15	27	2.64	431	2	0.04	18	0.07	10	6	34	0.16	118	<10	201
L +00N –47 +60E		0.2	2.17	6	335	<1	<2	0.29	0.7	11	45	23	2.54	0.12	17	1.12	1057	4	0.03	22	0.11	12	<5	29	0.04	70	<10	150
L +00N –47 +80E		0.2	4.04	11	634	1	<2	0.33	0.9	33	69	80	5.03	0.35	30	2.43	1032	6	0.04	66	0.07	17	6	35	0.11	113	<10	363
L +00N –48 +00E		0.2	3.99	<5	441	1	2	0.27	0.4	13	72	34	4.05	0.23	23	1.95	784	7	0.04	33	0.10	32	<5	31	0.08	126	<10	243
L +00N –48 +00E*		0.2	4.00	10	441	1	<2	0.27	0.4	13	73	33	4.03	0.23	23	1.95	782	6	0.04	33	0.10	30	10	31	0.08	127	<10	243

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: JULY 16, 1991 | Page 2 of 5
Area: FIRE LAKE | Lab Project No.: P1423 | Date Completed: JULY 25, 1991 | Attn: R STROSHEIN
Remarks: SOME SAMPLES RERUN FOR AU AS REQUESTED BY FAX SEPT 10, 1991 | J KOWALCHUK
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB) | E KIMURA
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours. | R HODGSON
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L9 +00N–48+20E		0.1	2.68	10	307	<1	<2	0.19	0.6	12	62	33	3.65	0.16	19	1.50	676	5	0.03	33	0.07	21	8	21	0.08	91	12	160
L9 +00N–48+40E		0.3	3.12	9	365	1	3	0.16	1.4	25	55	53	4.38	0.19	24	1.20	2048	13	0.02	48	0.13	38	7	26	0.03	111	<10	250
L9 +00N–48+60E		0.2	4.69	12	881	<1	4	0.35	0.5	18	66	74	5.80	0.85	26	3.05	853	6	0.06	56	0.07	63	12	39	0.15	171	<10	462
L9 +00N–48+80E		0.2	3.13	10	444	<1	2	0.40	0.1	15	61	27	3.75	0.38	49	1.85	1105	2	0.02	25	0.08	14	11	29	0.10	87	<10	101
L9 +00N–49+00E		<0.1	6.76	8	1084	<1	<2	0.44	<0.1	32	<1	46	6.90	1.85	14	4.92	1810	<1	0.05	20	0.07	2	10	32	0.27	218	<10	119
L9 +00N–49+20E		0.2	1.94	15	349	<1	3	0.22	0.5	15	34	44	4.21	0.10	31	1.01	1058	7	0.01	49	0.11	31	7	24	0.03	80	<10	202
L9 +00N–49+40E		<0.1	3.87	24	848	<1	3	0.53	0.1	29	153	41	5.24	0.37	13	2.87	1427	1	0.02	51	0.08	14	12	26	0.26	143	<10	144
L9 +00N–49+60E		0.2	3.55	49	589	<1	2	0.34	0.5	30	182	60	4.37	0.11	17	2.32	1579	2	0.02	100	0.09	11	10	18	0.13	114	<10	161
L9 +00N–49+80E		0.2	2.79	7	372	<1	3	0.16	0.7	9	80	39	3.84	0.15	25	1.48	797	6	0.01	35	0.12	16	6	23	0.04	134	<10	249
ST –P1		0.2	1.18	22	200	<1	<2	0.98	0.3	6	122	25	2.20	0.38	9	0.82	589	51	0.09	30	0.08	50	11	97	0.12	35	<10	145
L9 +00N–50+00E		0.1	3.57	12	1135	<1	3	0.31	0.5	18	51	21	4.65	0.48	14	2.22	837	<1	0.02	11	0.07	6	10	24	0.18	82	<10	129
L9 +00N–40+20E	<5	<0.1	2.92	11	116	<1	<2	0.44	<0.1	23	146	27	3.48	0.15	7	3.05	160	<1	0.02	89	0.06	5	7	23	0.31	118	<10	79
L9 +00N–40+40E	<5	<0.1	0.97	6	57	<1	<2	0.17	<0.1	7	49	11	1.78	0.05	6	0.75	233	<1	0.02	20	0.02	11	5	10	0.14	54	<10	46
L9 +00N–40+60E	<5	<0.1	1.20	6	81	<1	<2	0.17	0.1	11	83	20	1.88	0.06	8	0.86	270	<1	0.02	27	0.03	20	<5	13	0.10	54	<10	57
L9 +00N–40+80E	5	0.1	1.20	6	82	<1	<2	0.15	<0.1	6	51	13	1.79	0.07	9	0.83	165	<1	0.02	21	0.02	17	<5	13	0.09	48	<10	53
L9 +00N–41+00E	<5	0.1	1.83	11	136	<1	2	0.32	<0.1	15	58	28	2.52	0.14	9	1.17	436	<1	0.03	33	0.08	17	9	17	0.07	61	<10	82
L9 +00N–41+40E	<5	0.4	2.50	12	485	<1	<2	1.23	0.5	13	58	70	2.89	0.16	25	1.46	448	2	0.04	44	0.08	13	6	52	0.08	89	<10	103
L9 +00N–41+60E	10	0.4	2.21	12	439	<1	<2	1.27	0.8	12	55	61	2.60	0.17	23	1.34	333	2	0.04	42	0.06	11	9	50	0.06	81	<10	103
L9 +00N–41+80E	10	0.1	2.07	11	307	<1	3	0.80	0.5	13	58	44	2.58	0.14	16	1.39	318	<1	0.04	44	0.05	9	6	31	0.10	62	<10	99
L9 +00N–41+80E*	<5	0.1	2.12	10	312	<1	<2	0.81	0.5	13	60	44	2.64	0.14	16	1.42	326	1	0.04	47	0.05	12	5	31	0.10	63	<10	101
L9 +00N–42+00E	<5	0.1	2.35	10	430	<1	<2	0.96	0.7	14	57	54	2.90	0.16	26	1.48	408	2	0.04	43	0.07	14	<5	38	0.10	71	12	122
L9 +00N–42+20E	<5	0.1	2.86	10	549	<1	2	0.65	0.4	16	54	34	3.68	0.48	19	1.90	576	2	0.06	36	0.07	16	<5	32	0.13	95	<10	133
L9 +00N–42+40E	30	0.6	2.41	14	580	<1	3	1.51	3.3	14	51	61	2.94	0.12	50	1.27	830	3	0.04	39	0.07	16	<5	59	0.08	76	<10	224
L9 +00N–42+60E	10	0.3	2.38	11	487	<1	3	0.97	1.2	16	54	33	2.98	0.19	32	1.40	524	3	0.05	30	0.06	16	<5	43	0.09	76	<10	184
L9 +00N–42+80E	<5	1.1	2.85	20	797	<1	3	2.06	3.4	17	53	85	3.16	0.08	98	1.29	490	6	0.03	39	0.12	24	<5	86	0.06	100	<10	225
L9 +00N–43+00E	<5	0.4	2.29	10	437	<1	<2	0.88	1.5	15	55	37	2.85	0.16	76	1.25	418	2	0.04	27	0.05	13	<5	41	0.09	77	<10	186
L9 +00N–43+20E	5	0.4	2.78	11	649	<1	2	0.82	1.0	12	66	23	3.41	0.17	32	1.70	390	2	0.04	28	0.05	17	<5	38	0.12	96	<10	194
L9 +00N–43+40E	<5	0.9	2.95	15	598	<1	<2	0.85	1.2	13	45	35	3.29	0.21	66	1.42	771	5	0.04	29	0.08	24	<5	42	0.09	89	<10	162
L9 +00N–43+60E	<5	0.4	1.57	6	419	<1	3	0.78	0.8	8	34	19	2.13	0.10	24	0.76	218	2	0.02	17	0.05	16	6	37	0.06	55	<10	94
L9 +00N–43+60E*	<5	0.4	1.53	8	407	<1	<2	0.76	0.8	8	34	18	2.07	0.10	23	0.74	213	3	0.02	16	0.05	16	<5	36	0.06	54	<10	91
L9 +00N–43+80E	<5	0.2	1.98	<5	678	<1	3	0.20	0.5	7	48	25	2.36	0.19	16	1.06	315	5	0.05	14	0.04	21	<5	22	0.09	82	<10	94
L9 +00N–44+00E	10	0.4	1.68	<5	374	<1	<2	0.26	1.8	6	36	30	2.13	0.06	13	0.80	174	2	0.02	16	0.05	24	<5	26	0.04	56	<10	93
L9 +00N–44+20E	<5	0.3	1.48	<5	619	<1	3	0.26	0.8	5	33	23	2.27	0.09	19	0.70	196	4	0.02	17	0.05	21	<5	33	0.04	57	<10	94
L9 +00N–44+40E	<5	0.3	1.44	<5	364	<1	3	0.23	0.3	3	38	13	1.41	0.10	11	0.72	176	3	0.04	8	0.04	16	8	24	0.05	59	<10	85
L9 +00N–44+60E	<5	<0.1	0.66	<5	144	<1	2	0.06	0.8	3	22	9	1.11	0.05	9	0.28	110	2	0.02	8	0.03	23	<5	9	0.03	30	<10	47
L9 +00N–44+80E	<5	0.4	1.99	<5	424	<1	2	0.45	1.0	8	43	23	2.53	0.13	19	1.09	369	2	0.03	21	0.06	21	7	36	0.06	74	<10	150
L9 +00N–45+00E	<5	0.2	1.97	6	415	<1	3	0.27	0.9	9	39	20	2.48	0.08	24	0.88	694	3	0.02	18	0.06	23	5	29	0.05	89	<10	138
L9 +00N–45+20E	<5	0.1	2.31	8	381	<1	<2	0.33	1.2	9	43	28	3.42	0.16	24	1.35	481	3	0.03	31	0.07	26	6	29	0.08	82	<10	196
L9 +00N–45+40E	<5	0.1	1.72	8	275	<1	2	0.26	2.3	9	39	22	2.74	0.09	16	0.95	523	3	0.03	20	0.05	24	6	22	0.06	74	<10	168
L9 +00N–45+40E*	<5	0.1	1.85	6	283	<1	<2	0.25	2.1	8	38	20	2.81	0.06	15	0.91	503	4	0.02	19	0.05	23	<5	20	0.06	72	<10	161
L9 +00N–45+60E	<5	0.1	1.13	<5	427	<1	2	0.08	2.1	4	24	21	1.35	0.04	36	0.25	125	4	<0.01	8	0.05	21	<5	11	0.02	30	<10	56
L9 +00N–45+80E	<5	<0.1	1.73	<5	230	<1	2	0.09	0.7	8	41	21	2.89	0.14	19	0.99	601	2	0.02	20	0.05	21	<5	14	0.06	69	<10	121
L9 +00N–46+00E	<5	0.1	1.52	<5	233	<1	<2	0.09	0.8	5	34	18	2.80	0.10	18	0.77	286	2	0.01	15	0.04	24	<5	15	0.08	72	<10	95
L9 +00N–46+20E	<5	0.2	2.40	8	315	<1	<2	0.20	0.4	7	38	25	3.44	0.12	24	1.20	376	2	0.02	22	0.07	28	<5	21	0.09	72	<10	132
L9 +00N–46+40E	<5	<0.1	1.11	<5	153	<1	2	0.05	0.5	3	21	16	2.22	0.07	11	0.38	197	3	0.01	9	0.04	16	<5	9	0.04	48	<10	62
L9 +00N–46+60E	<5	<0.1	2.47	8	204	<1	2	0.14	0.2	7	47	30	3.87	0.13	22	1.24	386	3	0.02	29	0.06	25	<5	17	0.07	85	<10	154
L9 +00N–46+80E	<5	<0.1	2.83	9	305	<1	3	0.12	0.4	9	36	21	4.08	0.21	18	1.39	436	1	0.02	19	0.05	21	<5	16	0.10	94	<10	148
L9 +00N–47+00E	<5	0.1	2.54	5	261	<1	<2	0.10	0.4	7	55	25	3.89	0.16	21	1.37	453	3	0.02	26	0.05	22	<5	17	0.08	100	<10	150
L9 +00N–47+20E	<5	0.2	3.06	10	274	<1	2	0.18	0.2	10	39	35	3.87	0.22	27	1.26	485	3	0.02	35	0.08	31	<5	23	0.09	70	<10	164
L9 +00N–47+20E*	<5	0.2	2.88	11	260	<1	4	0.17	0.3	10	36	33	3.70	0.21	26	1.19	463	2	0.02	33	0.08	27	<5	22	0.08	66	<10	155

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: JULY 16, 1991 | Page 3 of 5
Area: FIRE LAKE | Lab Project No.: P1423 | Date Completed: JULY 25, 1991 | Attn: R STROSHEIN
Remarks: SOME SAMPLES RERUN FOR AU AS REQUESTED BY FAX SEPT 10, 1991 | J KOWALCHUK
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB) | E KIMURA
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours. | R HODGSON
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L9 +00N-47+40E	<5	0.2	2.56	7	301	<1	3	0.14	0.7	10	47	42	3.95	0.19	23	1.26	609	3	0.02	35	0.07	26	<5	21	0.06	89	<10	159
L9 +00N-47+60E	10	0.2	2.71	6	269	<1	4	0.10	0.3	7	47	25	3.45	0.10	18	1.35	433	3	0.02	22	0.07	18	<5	15	0.04	91	<10	125
L9 +00N-47+80E	<5	0.2	3.77	7	383	<1	4	0.11	0.3	8	79	32	3.94	0.27	23	2.06	511	3	0.03	37	0.07	27	<5	19	0.10	129	<10	203
L9 +00N-48+00E	<5	0.2	2.56	5	262	<1	<2	0.09	0.4	6	57	25	3.23	0.17	18	1.20	656	4	0.03	23	0.09	24	<5	19	0.05	96	<10	148
L9 +00N-48+20E	<5	<0.1	2.36	12	220	<1	2	0.08	0.5	7	50	26	3.65	0.17	17	1.09	357	3	0.01	24	0.06	19	<5	14	0.07	80	<10	141
L9 +00N-48+40E	<5	0.1	1.57	<5	137	<1	<2	0.07	0.3	4	45	16	2.30	0.08	12	0.90	303	2	0.02	18	0.04	19	<5	13	0.04	67	<10	113
L9 +00N-48+60E	<5	0.6	3.98	9	459	<1	2	0.12	0.4	6	83	40	4.52	0.41	29	1.91	722	6	0.04	22	0.09	53	<5	28	0.09	146	<10	263
L9 +00N-48+80E	10	1.0	3.25	8	377	<1	3	0.23	0.8	13	60	38	4.19	0.28	27	1.72	560	4	0.02	45	0.07	53	10	24	0.10	87	<10	257
L9 +00N-49+00E	<5	0.2	2.50	11	343	<1	3	0.35	0.4	9	72	18	3.58	0.09	31	1.49	666	2	0.02	21	0.09	14	<5	26	0.07	82	<10	118
STD-AU8-P1	250	0.2	1.04	22	197	<1	<2	0.89	0.4	6	101	26	2.25	0.34	9	0.81	591	47	0.06	29	0.08	48	<5	86	0.11	33	<10	143
L9 +00N-49+20E	<5	0.1	3.49	7	497	<1	<2	0.82	0.4	17	82	26	4.40	0.52	43	2.85	810	2	0.02	27	0.08	10	<5	32	0.16	90	<10	131
L9 +00N-49+40E	<5	<0.1	2.65	13	451	<1	<2	0.39	0.3	13	95	27	3.82	0.18	53	1.77	738	1	0.02	37	0.08	26	<5	29	0.09	65	<10	132
L9 +00N-49+60E	<5	<0.1	2.22	12	382	<1	<2	0.25	0.3	11	46	28	3.58	0.18	23	1.30	526	1	0.02	32	0.07	27	<5	20	0.10	67	<10	132
L9 +00N-49+80E	<5	0.2	1.01	5	340	<1	<2	0.23	1.1	4	33	13	1.62	0.10	14	0.63	186	<1	0.02	8	0.06	<2	<5	22	0.04	33	<10	65
L9 +00N-50+00E	<5	0.3	3.67	28	926	<1	<2	0.39	1.9	22	85	47	5.61	0.71	30	2.70	1619	4	0.04	48	0.13	29	6	33	0.14	115	<10	392
L9 +00N-41+60E		0.3	1.59	12	592	<1	<2	1.25	1.0	9	39	35	2.13	0.09	21	0.84	614	4	0.02	21	0.07	8	<5	58	0.05	50	<10	80
L9 +00N-41+80E		0.1	1.92	10	399	<1	<2	0.57	0.5	9	46	28	2.77	0.17	15	1.21	309	2	0.03	26	0.06	9	<5	27	0.08	66	<10	96
L9 +00N-42+00E		<0.1	1.90	10	332	<1	<2	0.42	0.4	9	45	28	2.80	0.12	15	1.19	276	2	0.03	27	0.03	8	5	22	0.08	61	<10	96
L9 +00N-42+20E		0.2	2.13	13	372	<1	<2	0.52	0.6	9	47	29	2.89	0.12	22	1.29	311	4	0.03	27	0.04	12	<5	27	0.06	70	<10	127
L9 +00N-42+20E*		0.2	2.03	8	358	<1	<2	0.49	0.5	9	48	28	2.76	0.11	21	1.23	295	3	0.03	27	0.04	10	<5	26	0.06	67	<10	123
L9 +00N-42+60E		1.0	3.07	16	775	<1	5	1.18	2.6	16	53	58	3.77	0.25	65	1.62	703	5	0.04	42	0.09	19	<5	55	0.07	85	<10	205
L9 +00N-42+80E		0.6	3.48	20	784	<1	<2	0.78	1.3	19	55	54	4.14	0.48	57	1.88	644	5	0.06	45	0.09	24	<5	46	0.11	100	<10	235
L9 +00N-43+00E		0.4	2.66	14	603	<1	4	0.54	1.6	14	52	35	3.34	0.29	64	1.48	484	4	0.03	37	0.06	18	6	38	0.09	81	<10	160
L9 +00N-43+20E		<0.1	2.60	7	342	<1	<2	0.13	0.6	10	55	21	3.49	0.15	22	1.44	353	4	0.02	23	0.05	25	<5	13	0.09	95	<10	148
L9 +00N-43+40E		0.2	3.05	11	481	<1	3	0.19	0.5	13	63	26	4.23	0.24	23	1.91	462	3	0.02	33	0.05	20	<5	18	0.11	105	<10	162
L9 +00N-43+60E		0.1	2.57	13	299	<1	3	0.09	0.4	9	53	21	3.70	0.18	20	1.71	420	5	0.02	25	0.04	23	<5	16	0.15	122	<10	153
L9 +00N-43+80E		0.1	3.81	16	593	<1	3	0.26	0.8	12	68	30	4.45	0.39	23	2.19	446	3	0.03	28	0.08	25	<5	25	0.15	118	<10	171
L9 +00N-44+00E		<0.1	3.04	13	425	<1	<2	0.25	0.5	9	60	30	3.99	0.28	23	1.95	462	4	0.04	32	0.08	16	<5	25	0.12	117	<10	178
L9 +00N-44+20E		<0.1	3.08	12	432	<1	<2	0.26	0.8	10	59	27	4.00	0.28	23	1.91	453	3	0.04	32	0.09	16	<5	25	0.12	114	<10	177
L9 +00N-44+20E*		<0.1	2.99	17	416	<1	<2	0.25	0.8	9	58	26	3.86	0.27	21	1.86	444	3	0.04	30	0.08	18	<5	24	0.11	111	<10	170
L9 +00N-44+40E		<0.1	3.27	8	460	<1	<2	0.26	0.8	9	73	36	4.03	0.26	23	2.05	505	3	0.04	39	0.08	19	<5	28	0.13	142	10	201
L9 +00N-44+60E		0.2	3.36	11	346	1	<2	0.22	1.1	9	54	35	4.29	0.16	24	1.56	481	3	0.03	39	0.10	24	<5	23	0.08	109	<10	204
L9 +00N-44+80E		<0.1	2.08	<5	320	<1	<2	0.12	0.9	5	48	24	2.98	0.09	20	1.09	278	5	0.02	25	0.05	21	<5	20	0.05	96	<10	130
L9 +00N-45+00E		<0.1	2.79	11	340	<1	<2	0.13	0.7	7	77	29	3.34	0.21	19	1.92	480	4	0.03	29	0.05	20	<5	21	0.12	142	<10	177
L9 +00N-45+20E		<0.1	2.76	9	322	<1	<2	0.18	0.5	7	72	26	3.67	0.17	20	1.86	453	4	0.03	29	0.06	23	<5	23	0.13	153	<10	185
L9 +00N-45+40E		<0.1	3.01	12	478	<1	<2	0.23	2.2	14	58	35	4.07	0.26	26	1.79	701	5	0.03	44	0.08	25	<5	25	0.09	114	<10	259
L9 +00N-45+60E		0.5	4.12	17	594	1	<2	0.39	1.3	17	71	49	5.09	0.34	34	2.44	850	6	0.04	86	0.12	26	<5	33	0.11	139	<10	379
L9 +00N-45+80E		0.4	2.46	7	385	<1	<2	0.12	2.6	14	49	26	2.91	0.10	20	1.10	1256	4	0.02	21	0.07	24	<5	19	0.05	92	<10	144
L9 +00N-46+00E		0.2	2.99	12	421	<1	<2	0.15	1.2	13	68	33	3.78	0.29	21	1.84	882	2	0.04	38	0.06	21	<5	30	0.10	132	<10	218
L9 +00N-46+00E*		0.2	2.87	9	403	<1	<2	0.15	1.1	13	66	32	3.65	0.26	19	1.77	856	4	0.03	37	0.06	20	<5	28	0.10	127	<10	209
L9 +00N-46+20E		0.7	3.44	11	481	1	2	0.26	2.0	11	62	48	4.17	0.28	22	1.79	534	3	0.03	55	0.10	30	<5	34	0.09	120	<10	292
L9 +00N-46+40E		<0.1	2.40	11	441	<1	<2	0.12	2.6	6	48	26	3.32	0.10	25	1.35	358	4	0.02	25	0.06	26	<5	28	0.07	103	<10	184
L9 +00N-46+60E		0.2	1.08	<5	181	<1	3	0.06	0.9	3	26	16	1.88	0.07	10	0.44	165	1	0.01	6	0.05	20	9	11	0.02	41	<10	54
L9 +00N-46+80E		<0.1	2.39	11	373	<1	2	0.16	0.3	10	38	23	3.06	0.08	19	1.14	423	<1	0.03	24	0.06	17	<5	18	0.06	68	<10	116
L9 +00N-47+00E		<0.1	2.92	13	542	<1	<2	0.23	0.2	12	24	22	4.07	0.31	18	1.77	368	3	0.03	19	0.06	13	<5	21	0.13	83	<10	122
L9 +00N-47+20E		<0.1	3.43	12	646	<1	<2	0.32	0.3	17	35	30	4.30	0.54	20	1.95	630	2	0.03	31	0.10	20	5	23	0.14	90	<10	149
L9 +00N-47+40E		0.2	2.73	13	254	<1	<2	0.14	0.2	10	43	24	3.88	0.15	14	1.47	399	2	0.02	23	0.05	23	<5	18	0.08	83	<10	142
L9 +00N-47+60E		<0.1	3.77	25	457	<1	<2	0.30	0.7	15	21	25	5.24	0.51	17	2.51	691	<1	0.03	21	0.07	27	11	21	0.12	116	<10	266
L9 +00N-47+80E		0.4	2.53	13	311	<1	2	0.16	0.6	10	46	27	3.86	0.20	19	1.32	513	1	0.02	32	0.06	20	<5	19	0.07	86	<10	181
L9 +00N-47+80E*		0.4	2.51	14	309	<1	4	0.16	0.5	9	45	27	3.85	0.20	19	1.31	513	2	0.02	33	0.06	18	9	19	0.07	85	<10	181

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: JULY 16, 1991 | Page 4 of 5
Area: FIRE LAKE | Lab Project No.: P1423 | Date Completed: JULY 25, 1991 | Attn: R STROSHEIN
Remarks: SOME SAMPLES RERUN FOR AU AS REQUESTED BY FAX SEPT 10, 1991 | J KOWALCHUK
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB) | E KIMURA
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours. | R HODGSON
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L[illegible]+00N–48+00E		1.1	2.99	12	253	<1	<2	0.15	0.8	8	48	29	3.58	0.13	19	1.13	368	1	0.01	28	0.07	25	<5	17	0.08	77	<10	161
L[illegible]+00N–48+20E		0.7	2.83	13	261	<1	<2	0.15	0.8	7	45	29	3.09	0.15	17	1.11	390	3	0.02	29	0.08	54	<5	16	0.05	74	<10	218
L[illegible]+00N–48+40E		0.2	2.02	11	251	<1	<2	0.12	0.4	5	34	16	2.85	0.16	15	0.81	324	1	0.02	13	0.06	20	<5	11	0.04	52	<10	91
L[illegible]+00N–48+60E		0.8	3.08	13	419	<1	<2	0.16	0.9	12	54	36	4.49	0.44	23	1.56	1053	2	0.02	37	0.10	87	9	13	0.06	89	<10	373
L[illegible]+00N–48+80E		0.4	2.28	31	558	1	<2	0.27	2.8	18	52	54	4.90	0.23	28	1.18	1770	3	0.02	68	0.10	35	<5	18	0.08	83	<10	278
L[illegible]+00N–49+00E		1.3	2.28	23	490	<1	<2	0.23	2.8	12	56	34	5.01	0.50	28	1.29	705	2	0.01	34	0.09	81	<5	21	0.05	79	<10	417
L[illegible]+00N–49+20E		0.6	2.91	19	652	<1	<2	0.25	0.8	15	58	50	4.34	0.29	27	1.46	1248	3	0.02	44	0.09	39	<5	16	0.07	90	<10	289
L[illegible]+00N–49+40E		0.1	1.58	<5	185	<1	<2	0.14	0.3	5	34	13	2.13	0.07	10	0.69	314	3	0.02	11	0.06	14	<5	13	0.05	46	<10	77
L[illegible]+00N–49+60E		0.2	2.81	21	429	<1	<2	0.21	0.5	10	49	26	3.39	0.17	27	1.42	744	2	0.02	19	0.08	29	<5	16	0.07	63	<10	179
S[illegible]–P1		0.2	1.05	22	198	<1	<2	0.90	0.3	5	101	24	2.25	0.34	9	0.81	589	48	0.07	30	0.08	49	7	88	0.11	33	<10	144
L[illegible]+00N–49+80E		0.1	1.46	8	210	<1	<2	0.16	0.4	7	32	20	2.02	0.12	11	0.74	376	<1	0.02	14	0.06	26	<5	15	0.05	42	<10	114
L[illegible]+00N–50+00E		0.4	2.76	12	427	<1	<2	0.25	0.2	11	64	35	3.62	0.11	25	1.70	522	2	0.03	27	0.09	54	<5	20	0.08	87	<10	190
L[illegible]+00N–41+80E	<5	0.4	2.07	<5	424	<1	<2	0.21	0.4	9	50	26	3.10	0.23	21	1.33	354	2	0.02	25	0.05	16	<5	16	0.09	77	<10	111
L[illegible]+00N–42+00E	<5	0.2	2.73	9	562	<1	<2	0.33	0.3	13	61	38	4.02	0.45	21	1.90	505	3	0.04	44	0.08	20	<5	21	0.12	93	<10	158
L[illegible]+00N–42+20E	<5	0.1	2.09	6	353	<1	<2	0.26	0.3	10	46	30	3.15	0.26	17	1.27	342	1	0.03	31	0.07	17	<5	17	0.09	70	<10	147
L[illegible]+00N–42+40E	10	0.2	2.56	6	319	<1	<2	0.17	0.8	11	58	24	3.84	0.21	15	1.62	391	1	0.02	33	0.05	18	<5	14	0.10	92	<10	126
L[illegible]+00N–42+60E	5	<0.1	2.71	9	399	<1	<2	0.24	0.4	11	53	33	3.95	0.27	18	1.53	398	2	0.02	35	0.06	22	<5	16	0.10	94	<10	137
L[illegible]+00N–42+80E	<5	0.1	2.95	9	448	<1	<2	0.26	0.5	13	62	37	4.05	0.32	20	1.90	501	4	0.02	40	0.06	20	<5	19	0.11	104	<10	192
L[illegible]+00N–43+00E	10	<0.1	2.68	5	490	<1	<2	0.14	0.4	9	49	21	3.87	0.31	24	1.65	361	3	0.02	24	0.04	21	<5	12	0.13	90	<10	151
S[illegible]–P1		0.2	1.06	22	200	<1	<2	0.89	0.3	5	102	25	2.24	0.35	8	0.81	585	47	0.07	31	0.08	50	<5	86	0.11	34	<10	142
L[illegible]+00N–43+20E	10	0.2	4.62	124	1101	<1	<2	0.30	0.3	22	117	48	4.88	1.04	33	3.80	709	<1	0.03	42	0.08	216	844	16	0.20	134	<10	272
L[illegible]+00N–43+40E	5	<0.1	2.98	10	516	<1	2	0.22	0.2	16	54	33	4.03	0.41	23	1.91	567	2	0.03	38	0.06	20	7	14	0.11	91	<10	145
L[illegible]+00N–43+60E	<5	0.1	3.11	9	290	<1	<2	0.16	0.5	13	63	26	4.53	0.24	17	1.99	588	4	0.03	31	0.04	22	<5	13	0.16	125	<10	209
L[illegible]+00N–43+80E	<5	<0.1	2.70	16	455	<1	<2	0.14	0.3	12	69	28	4.29	0.30	16	1.86	423	5	0.02	36	0.05	14	<5	12	0.14	122	<10	144
L[illegible]+00N–44+00E	<5	0.3	1.33	125	444	<1	4	0.19	0.4	5	33	18	1.76	0.09	15	0.53	184	1	0.02	9	0.05	438	1350	22	0.03	42	<10	48
L[illegible]+00N–44+20E	<5	0.1	3.09	37	525	<1	3	0.20	0.2	9	57	24	4.06	0.29	20	1.81	434	3	0.03	28	0.06	32	36	26	0.14	120	<10	174
L[illegible]+00N–44+40E	<5	<0.1	4.17	11	833	<1	<2	0.42	0.4	17	48	36	4.75	0.72	23	2.31	569	<1	0.04	34	0.11	37	<5	36	0.16	109	<10	213
L[illegible]+00N–44+60E	<5	0.1	4.05	18	781	<1	3	0.40	0.8	16	52	36	4.72	0.83	27	2.27	576	1	0.04	28	0.11	406	863	32	0.16	112	<10	201
L[illegible]+00N–44+80E	<5	<0.1	2.92	12	538	<1	3	0.22	0.4	9	57	24	3.56	0.25	20	1.73	485	3	0.03	25	0.05	21	<5	28	0.13	110	<10	143
L[illegible]+00N–44+80E*	<5	<0.1	2.91	9	546	<1	<2	0.22	0.5	10	57	24	3.53	0.25	21	1.73	475	3	0.03	25	0.05	20	<5	28	0.13	110	<10	143
L[illegible]+00N–45+00E	<5	0.1	3.16	18	458	<1	<2	0.23	0.9	10	52	33	3.56	0.28	23	1.56	406	2	0.03	28	0.07	22	8	24	0.10	96	<10	151
L[illegible]+00N–45+20E	10	0.1	2.92	9	390	<1	<2	0.21	0.8	9	52	25	3.53	0.21	22	1.48	369	2	0.03	30	0.07	26	6	26	0.10	100	<10	162
L[illegible]+00N–45+40E	<5	0.1	3.41	15	358	<1	<2	0.19	1.0	11	68	26	4.04	0.17	21	1.75	616	4	0.03	33	0.07	26	5	40	0.12	134	<10	239
L[illegible]+00N–45+60E	<5	0.2	2.83	10	392	<1	<2	0.19	2.1	11	51	25	3.47	0.20	21	1.38	543	3	0.03	32	0.07	30	<5	26	0.08	98	<10	243
L[illegible]+00N–45+80E	<5	0.2	3.85	14	457	1	<2	0.20	2.3	17	66	53	5.10	0.21	29	2.03	792	5	0.03	85	0.09	37	6	39	0.09	136	<10	388
L[illegible]+00N–46+00E	<5	0.2	2.93	15	279	<1	<2	0.23	1.3	10	42	24	3.92	0.14	20	1.50	330	2	0.03	26	0.09	28	5	24	0.10	97	<10	186
L[illegible]+00N–46+20E	10	0.5	3.23	17	294	<1	<2	0.21	1.5	10	43	25	4.28	0.16	21	1.57	377	3	0.03	32	0.08	37	<5	25	0.12	98	<10	247
L[illegible]+00N–46+40E	<5	0.3	3.66	15	333	<1	<2	0.21	1.7	12	46	25	4.32	0.19	21	1.75	470	2	0.03	27	0.09	32	7	25	0.13	105	<10	253
L[illegible]+00N–46+60E	<5	0.2	3.91	14	429	<1	<2	0.23	1.8	13	51	29	4.39	0.23	23	1.69	465	2	0.03	33	0.08	42	5	29	0.10	97	<10	230
L[illegible]+00N–46+60E*	<5	0.3	3.89	11	427	<1	<2	0.23	1.8	13	51	28	4.35	0.23	23	1.68	460	2	0.03	32	0.08	518	1637	29	0.10	96	<10	226
L[illegible]+00N–46+80E	<5	0.3	3.77	20	397	<1	<2	0.25	0.8	11	42	26	3.82	0.25	23	1.49	342	2	0.03	24	0.09	25	6	25	0.10	84	11	144
L[illegible]+00N–47+00E	<5	0.3	3.73	19	422	<1	2	0.20	0.9	12	46	27	4.37	0.27	22	1.85	422	2	0.03	28	0.07	22	6	22	0.12	103	<10	205
L[illegible]+00N–47+20E	<5	0.4	3.97	17	592	<1	2	0.31	0.4	13	51	25	4.32	0.46	20	1.95	414	2	0.03	26	0.11	26	7	29	0.15	102	<10	186
L[illegible]+00N–47+40E	<5	0.2	3.56	18	483	<1	<2	0.26	0.3	14	48	33	3.96	0.37	23	1.70	438	3	0.03	39	0.08	20	<5	26	0.11	89	<10	158
L[illegible]+00N–47+60E	<5	0.3	3.94	11	496	<1	2	0.28	0.4	13	52	23	4.14	0.39	20	1.97	381	1	0.03	29	0.10	21	8	25	0.13	105	<10	168
L[illegible]+00N–47+80E	<5	0.4	4.59	22	551	1	<2	0.32	0.3	14	57	28	4.16	0.37	22	1.91	489	2	0.04	32	0.11	26	11	30	0.13	108	<10	157
L[illegible]+00N–48+00E	<5	0.2	2.87	19	441	<1	<2	0.13	0.7	14	64	24	3.72	0.19	17	1.36	1387	5	0.02	25	0.07	22	6	23	0.08	124	<10	151
L[illegible]+00N–48+20E	<5	0.3	3.51	17	495	<1	<2	0.26	0.5	13	68	33	3.81	0.30	24	1.73	620	3	0.03	40	0.10	34	<5	27	0.08	99	<10	174
L[illegible]+00N–48+40E	<5	0.1	2.94	23	400	<1	4	0.18	0.3	10	66	23	3.79	0.28	19	1.68	389	2	0.02	27	0.06	543	1954	20	0.11	96	<10	138
L[illegible]+00N–48+40E*	<5	0.1	2.91	22	395	<1	4	0.20	1.0	11	68	25	3.85	0.29	18	1.85	378	2	0.02	26	0.06	546	1963	21	0.13	97	<10	140

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: JULY 16, 1991 | Page 5 of 5
Area: FIRE LAKE | Lab Project No.: P1423 | Date Completed: JULY 25, 1991 | Attn: R STROSHEIN
Remarks: SOME SAMPLES RERUN FOR AU AS REQUESTED BY FAX SEPT 10, 1991 | J KOWALCHUK
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L 5 PPB) | E KIMURA
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours. | R HODGSON
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L +00N –48 +60E	<5	0.3	2.94	9	321	<1	4	0.19	0.3	10	57	18	3.30	0.21	17	1.43	352	2	0.02	22	0.07	9	<5	18	0.10	76	<10	99
L +00N –48 +80E	<5	<0.1	2.81	9	468	<1	3	0.18	0.1	14	56	18	3.44	0.32	15	1.53	851	1	0.02	21	0.06	18	6	19	0.10	74	<10	108
L +00N –49 +00E	<5	<0.1	3.16	10	621	<1	4	0.33	0.3	15	71	21	3.94	0.70	41	1.95	793	<1	0.03	22	0.09	25	6	30	0.17	70	<10	139
L +00N –49 +20E	<5	<0.1	3.31	9	456	<1	<2	0.18	<0.1	16	201	12	3.94	0.46	12	2.22	645	<1	0.01	48	0.05	6	<5	15	0.14	85	<10	95
L +00N –49 +40E	<5	0.4	3.10	12	1533	<1	<2	0.65	1.2	29	87	59	5.09	0.83	17	2.35	1305	3	0.02	56	0.10	24	<5	23	0.13	111	<10	278
L +00N –49 +60E	<5	0.4	3.00	19	831	<1	3	0.34	8.3	18	70	39	4.41	0.58	16	2.13	923	3	0.02	35	0.10	49	<5	19	0.13	90	<10	297
L +00N –49 +80E	<5	0.2	2.44	19	652	<1	2	0.40	1.1	13	54	30	3.43	0.40	21	1.73	572	2	0.03	26	0.09	16	<5	21	0.14	71	<10	221
L +00N –50 +00E	<5	0.3	2.85	12	1033	<1	3	0.47	0.5	16	67	38	3.81	0.89	15	2.14	683	1	0.04	32	0.09	17	<5	23	0.17	92	<10	193
L +00N –42 +20E		0.2	2.21	8	523	<1	<2	0.46	0.3	10	50	25	3.05	0.27	23	1.40	388	3	0.03	30	0.05	10	<5	26	0.09	74	<10	130
L +00N –42 +20E*		0.2	2.13	7	501	<1	4	0.45	0.3	10	49	24	2.93	0.26	23	1.34	371	3	0.03	29	0.05	10	<5	27	0.08	71	<10	128
L +00N –42 +40E		0.2	2.84	13	496	<1	<2	0.44	0.7	20	59	51	4.37	0.42	27	1.83	597	2	0.03	57	0.09	18	<5	23	0.10	92	12	201
L +00N –42 +60E		0.2	2.59	13	493	<1	4	0.42	0.5	20	60	46	4.40	0.39	36	1.77	803	4	0.02	49	0.07	21	<5	21	0.10	93	<10	193
L +00N –42 +80E		0.2	2.01	10	491	<1	5	0.61	0.3	9	54	23	2.99	0.20	25	1.44	332	2	0.02	24	0.04	16	<5	26	0.10	80	<10	133
L +00N –43 +00E		0.2	2.83	8	570	<1	3	0.42	0.4	15	60	28	4.26	0.36	27	1.97	593	3	0.02	35	0.05	15	<5	21	0.12	100	<10	190
L +00N –43 +20E		1.3	2.94	7	459	<1	<2	0.62	0.8	17	49	72	3.18	0.16	178	1.12	676	4	0.02	30	0.07	93	8	30	0.07	66	<10	180
L +00N –43 +40E		0.2	2.26	<5	373	<1	3	0.10	0.2	8	45	18	3.21	0.19	20	1.46	308	3	0.02	20	0.03	22	<5	12	0.11	81	<10	101
L +00N –43 +60E		0.2	2.60	6	291	<1	4	0.11	0.2	10	57	20	3.71	0.20	17	1.74	395	<1	0.01	27	0.04	16	<5	8	0.11	94	<10	137
L +00N –43 +80E		0.2	2.46	<5	305	<1	3	0.13	0.1	10	51	21	3.58	0.17	18	1.66	361	<1	0.02	26	0.05	11	<5	9	0.10	88	<10	113
L +00N –44 +00E		0.2	2.52	8	360	<1	4	0.14	0.3	10	65	24	3.45	0.18	21	1.71	357	2	0.02	24	0.04	14	<5	12	0.12	95	<10	145
S –P1		0.2	1.02	18	186	<1	<2	0.85	0.3	6	100	23	2.11	0.33	8	0.77	544	45	0.07	28	0.07	45	<5	80	0.10	32	<10	138
L +00N –44 +20E		0.2	2.25	6	336	<1	<2	0.10	0.7	10	53	30	3.53	0.21	19	1.39	351	3	0.01	22	0.04	19	<5	11	0.12	101	11	114
L +00N –44 +40E		0.2	3.29	6	471	<1	<2	0.27	0.6	13	60	28	4.28	0.33	18	2.13	495	<1	0.03	25	0.05	26	<5	18	0.16	118	<10	168
L +00N –44 +60E		0.5	3.35	13	452	<1	<2	0.45	0.4	15	53	43	4.10	0.08	36	1.69	665	7	0.02	27	0.06	40	9	28	0.09	106	<10	186
L +00N –44 +80E		0.4	2.78	14	566	<1	2	0.33	0.6	10	62	27	3.61	0.36	21	1.68	374	2	0.02	22	0.05	27	6	24	0.12	100	<10	141
L +00N –45 +00E		0.2	2.61	12	629	<1	<2	0.58	0.7	10	53	23	3.56	0.36	14	1.73	411	3	0.03	22	0.05	22	6	35	0.12	95	<10	179
L +00N –45 +20E		0.4	3.34	7	568	<1	4	0.52	0.6	10	53	29	4.29	0.33	18	1.95	489	1	0.03	28	0.06	33	7	39	0.14	117	<10	241
L +00N –45 +40E		0.2	3.14	16	497	<1	<2	0.23	0.7	12	62	28	4.06	0.34	18	1.86	565	4	0.04	33	0.06	19	8	25	0.15	129	<10	176
L +00N –45 +60E		0.3	3.34	6	469	<1	2	0.24	0.6	11	61	29	4.39	0.28	19	1.82	455	4	0.03	37	0.07	16	6	27	0.14	117	<10	185
L +00N –45 +80E		0.2	3.11	10	656	<1	<2	0.30	0.6	12	55	27	4.37	0.37	18	1.97	443	3	0.03	38	0.06	16	5	38	0.16	122	<10	165
L +00N –45 +80E*		0.2	2.96	10	621	<1	<2	0.29	0.5	11	45	26	4.19	0.35	17	1.88	422	2	0.03	29	0.06	13	9	36	0.15	116	<10	158

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: JULY 16,1991 | Page 1 of 3
Area: FIRE LAKE | Lab Project No.: P1424 | Date Completed: JULY 25, 1991 | Attn: R STROSHEIN
Remarks: SOME SAMPLES RERUN FOR AU AS REQUESTED BY FAX ON SEPT 10, 1991 | J KOWALCHUK
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB) | E KIMURA
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours. | R HODGSON
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L97+00N-46+00E		0.2	3.44	9	445	<1	3	0.24	0.7	10	41	28	3.87	0.27	20	1.65	373	4	0.03	30	0.07	21	<5	24	0.12	94	<10	148
L97+00N-46+20E		0.3	2.59	<5	358	<1	<2	0.14	0.9	9	48	24	3.49	0.22	17	1.54	470	4	0.02	24	0.05	23	<5	24	0.11	109	<10	199
L97+00N-46+40E		0.2	1.82	<5	281	<1	<2	0.10	1.4	6	29	22	2.99	0.06	22	0.78	442	5	0.01	19	0.05	34	<5	26	0.03	87	<10	142
L97+00N-46+60E		0.2	3.55	8	291	1	4	0.14	2.9	8	102	44	4.24	0.13	16	2.16	703	3	0.03	54	0.07	21	<5	33	0.07	178	<10	318
L97+00N-46+80E		0.3	2.90	5	211	<1	5	0.09	1.2	6	73	36	3.83	0.12	18	1.97	590	8	0.03	41	0.06	35	<5	20	0.10	183	<10	278
L97+00N-47+00E		0.5	2.71	9	401	<1	<2	0.21	1.9	9	48	35	3.72	0.19	22	1.50	652	4	0.02	38	0.07	28	<5	27	0.05	98	<10	217
L97+00N-47+20E		0.2	2.73	9	259	<1	4	0.16	1.9	17	37	18	4.56	0.22	11	1.90	522	1	0.02	23	0.06	9	<5	12	0.11	119	<10	139
L97+00N-47+40E		0.2	2.07	9	340	<1	3	0.19	0.4	12	22	17	2.94	0.30	21	0.95	695	<1	0.03	17	0.08	19	<5	16	0.08	59	<10	112
L97+00N-47+60E		0.2	3.00	10	411	<1	<2	0.26	0.8	13	38	26	3.90	0.26	21	1.37	526	<1	0.02	32	0.10	28	<5	21	0.09	85	<10	196
STD-P1		0.3	0.99	21	183	<1	<2	0.84	0.4	5	93	22	2.12	0.31	7	0.77	548	49	0.06	29	0.07	45	<5	78	0.10	32	<10	136
L97+00N-48+20E		0.3	3.85	9	470	<1	<2	0.16	0.5	15	58	23	5.35	0.55	17	2.21	513	2	0.02	37	0.07	23	8	15	0.15	124	<10	183
L97+00N-48+40E		0.5	3.17	<5	338	<1	<2	0.18	0.8	9	75	34	3.50	0.17	21	1.48	473	4	0.02	48	0.09	27	7	21	0.08	105	<10	181
L97+00N-48+60E		0.3	3.09	8	335	<1	<2	0.25	0.8	17	50	37	3.82	0.27	23	1.47	695	3	0.03	51	0.10	29	5	25	0.10	84	<10	209
L97+00N-48+80E		0.6	3.52	9	511	<1	<2	0.32	1.3	28	52	60	4.87	0.41	31	2.03	905	4	0.03	93	0.11	24	8	32	0.11	106	<10	316
L97+00N-49+00E		0.4	3.26	9	657	<1	2	0.27	0.9	20	48	48	4.13	0.57	27	1.87	672	5	0.03	55	0.10	23	5	30	0.12	90	<10	203
L97+00N-49+20E		0.6	1.20	<5	315	<1	<2	0.12	0.7	9	27	25	1.79	0.28	18	0.84	430	5	0.02	22	0.06	13	7	16	0.06	44	<10	93
L97+00N-49+60E		0.6	3.11	10	919	<1	<2	0.46	0.7	20	47	46	4.64	0.77	37	2.27	932	2	0.03	43	0.10	26	6	25	0.15	108	<10	204
L97+00N-49+80E		0.2	2.99	7	627	<1	3	0.27	0.3	14	55	27	3.97	0.39	28	1.94	737	2	0.03	25	0.07	22	<5	19	0.12	86	<10	156
L97+00N-50+00E		0.4	2.81	9	849	<1	<2	0.51	0.8	17	66	31	4.12	0.85	25	2.09	737	<1	0.02	29	0.11	30	<5	21	0.14	84	<10	206
L97+00N-50+00E*		0.4	2.93	16	884	<1	<2	0.53	0.8	18	68	32	4.27	0.68	25	2.18	767	<1	0.02	30	0.11	31	<5	22	0.15	87	<10	214
L98+00N-42+80E	<5	0.4	2.53	7	411	<1	4	0.13	0.8	13	47	40	3.41	0.16	31	1.29	353	3	0.01	30	0.05	26	6	13	0.08	87	12	141
L98+00N-43+00E	<5	0.3	2.89	8	757	<1	4	0.41	0.5	22	62	55	3.88	0.52	27	1.79	687	2	0.04	52	0.09	16	<5	24	0.12	93	<10	158
L98+00N-43+20E	<5	0.4	2.51	6	359	<1	3	0.16	0.3	10	50	23	3.75	0.17	25	1.54	395	3	0.02	29	0.05	17	7	16	0.11	106	<10	135
L98+00N-43+40E	<5	0.3	2.60	9	488	<1	<2	0.26	0.5	18	51	45	3.66	0.35	19	1.49	585	1	0.03	48	0.08	19	<5	16	0.10	80	<10	154
L98+00N-43+60E	<5	0.2	3.22	7	529	<1	2	0.30	0.3	18	72	31	4.03	0.41	24	2.16	532	<1	0.03	38	0.07	12	<5	17	0.13	105	<10	137
L98+00N-43+80E	<5	0.2	2.45	<5	387	<1	3	0.18	0.2	10	46	29	3.00	0.21	25	1.39	373	<1	0.02	27	0.05	25	6	13	0.08	76	<10	101
L98+00N-44+00E	15	0.2	2.13	8	478	<1	5	0.26	0.4	7	42	19	2.92	0.25	18	1.30	292	2	0.02	18	0.05	16	<5	20	0.11	84	<10	95
L98+00N-44+20E	<5	0.3	2.89	<5	295	<1	3	0.09	0.3	11	47	20	4.99	0.21	16	1.87	400	<1	0.01	22	0.06	21	8	9	0.14	115	<10	149
L98+00N-44+40E	<5	0.2	2.07	<5	309	<1	<2	0.16	0.8	8	38	18	3.39	0.12	16	1.21	299	6	0.01	17	0.04	29	<5	16	0.14	101	<10	106
L98+00N-44+40E*	<5	0.2	1.95	<5	291	<1	<2	0.15	0.8	8	36	17	3.22	0.11	15	1.14	283	3	0.01	15	0.03	27	<5	15	0.13	96	<10	100
L98+00N-44+60E	<5	0.3	3.82	13	453	<1	3	0.51	0.8	26	36	51	4.50	0.21	30	2.03	919	6	0.04	27	0.05	61	5	30	0.13	100	11	308
L98+00N-44+80E	<5	0.2	2.62	15	258	<1	3	0.21	0.5	14	188	23	4.36	0.18	12	1.80	523	21	0.02	151	0.03	44	8	12	0.13	107	<10	191
L98+00N-45+00E	5	0.3	2.89	9	523	<1	4	0.42	0.2	15	41	31	3.93	0.21	23	1.73	477	5	0.02	25	0.05	28	12	26	0.12	86	<10	162
L98+00N-45+20E	5	0.3	2.97	9	470	<1	3	0.54	0.8	14	57	38	3.81	0.15	31	1.85	458	5	0.03	22	0.06	29	6	27	0.12	93	<10	165
L98+00N-45+40E	<5	0.3	3.41	11	675	<1	<2	0.60	0.8	20	67	37	4.98	0.59	22	2.51	698	5	0.03	29	0.06	85	<5	34	0.15	110	<10	370
L98+00N-45+60E	<5	0.6	1.61	6	273	<1	2	0.60	0.8	8	40	26	2.10	0.11	21	0.81	301	6	0.02	26	0.04	32	<5	26	0.06	49	<10	119
L98+00N-45+80E	<5	0.3	2.81	9	674	<1	3	0.58	0.8	14	45	33	3.84	0.32	17	1.74	451	4	0.02	30	0.04	18	8	28	0.13	106	<10	172
L98+00N-46+00E	15	0.3	2.59	7	415	<1	2	0.08	0.2	12	178	20	3.54	0.20	15	1.65	337	14	0.02	131	0.04	15	6	10	0.15	115	<10	112
L98+00N-46+20E	5	0.3	1.79	5	428	<1	<2	0.05	0.5	8	32	11	2.82	0.22	11	1.41	290	5	0.02	11	0.03	9	5	9	0.12	87	<10	81
L98+00N-46+20E*	10	0.2	1.72	<5	412	<1	3	0.05	0.5	8	30	10	2.52	0.20	10	1.36	282	2	0.02	11	0.03	8	6	9	0.12	83	<10	78
L98+00N-46+40E	<5	0.3	3.30	15	555	<1	<2	0.12	0.8	13	47	32	4.52	0.41	25	2.01	447	4	0.02	31	0.06	21	<5	21	0.15	131	<10	183
L98+00N-46+60E	<5	0.2	4.22	11	665	<1	<2	0.18	0.5	14	47	25	5.08	0.33	23	2.82	488	<1	0.03	26	0.07	17	<5	23	0.18	132	<10	155
L98+00N-46+80E	<5	0.2	2.81	11	406	<1	3	0.07	0.5	8	58	27	4.26	0.21	18	1.68	455	6	0.02	29	0.05	23	<5	22	0.18	158	<10	157
L98+00N-47+00E	<5	0.5	2.65	<5	348	<1	3	0.12	0.9	7	48	21	3.11	0.17	15	1.46	351	3	0.03	23	0.05	14	<5	19	0.10	103	<10	138
L98+00N-47+20E	<5	0.3	3.67	9	468	<1	<2	0.27	0.8	10	63	25	4.56	0.27	18	1.99	571	2	0.03	25	0.07	15	<5	29	0.15	145	<10	187
L98+00N-47+40E	<5	0.5	2.80	10	246	<1	<2	0.14	0.5	7	42	22	3.79	0.13	15	1.22	299	1	0.02	24	0.07	16	<5	17	0.08	88	<10	137
L98+00N-47+60E	<5	0.3	2.17	<5	209	<1	<2	0.12	0.3	6	34	17	2.87	0.11	14	1.02	256	1	0.02	18	0.06	13	<5	15	0.06	73	<10	98
L98+00N-47+80E	<5	0.3	3.04	11	313	<1	<2	0.19	0.3	14	31	28	5.17	0.17	28	1.71	679	<1	0.02	28	0.08	36	8	17	0.07	99	<10	187
L98+00N-48+00E	<5	0.2	1.30	<5	147	<1	<2	0.12	0.3	7	21	14	1.83	0.07	9	0.52	450	<1	0.02	10	0.06	10	<5	13	0.03	42	<10	58
L98+00N-48+00E*	<5	0.2	1.46	<5	165	<1	2	0.13	0.4	8	25	16	2.03	0.08	10	0.58	495	2	0.02	14	0.06	12	7	15	0.03	47	<10	64

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: JULY 16,1991 | Page 2 of 3
Area: FIRE LAKE | Lab Project No.: P1424 | Date Completed: JULY 25, 1991 | Attn: R STROSHEIN
Remarks: SOME SAMPLES RERUN FOR AU AS REQUESTED BY FAX ON SEPT 10, 1991 | J KOWALCHUK
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB) | E KIMURA
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours. | R HODGSON
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L98+00N-48+20E	<5	0.2	3.08	9	527	1	4	0.31	0.6	20	40	38	4.10	0.36	29	1.64	857	1	0.03	37	0.10	33	<5	27	0.10	91	<10	182
L98+00N-48+40E	<5	0.3	3.42	8	623	<1	2	0.30	0.7	17	57	42	4.41	0.56	37	1.94	810	4	0.03	48	0.10	23	7	26	0.12	111	<10	206
L98+00N-48+60E	<5	0.2	4.13	<5	702	<1	<2	0.37	0.3	17	49	35	4.66	0.62	34	2.20	664	3	0.03	37	0.12	18	<5	30	0.15	109	<10	182
L98+00N-48+80E	<5	0.2	1.88	<5	318	<1	<2	0.18	0.2	9	23	17	2.60	0.24	23	0.95	398	<1	0.03	17	0.07	10	<5	15	0.06	52	<10	92
L98+00N-49+00E	6	0.3	3.48	11	532	<1	3	0.23	0.4	14	58	33	4.39	0.46	26	1.94	634	4	0.03	38	0.08	19	<5	23	0.12	115	<10	177
L98+00N-49+20E	<5	0.3	2.41	<5	268	<1	3	0.12	0.3	8	40	25	3.47	0.15	16	1.21	332	4	0.02	25	0.06	16	<5	17	0.09	95	<10	123
L98+00N-49+40E	<5	0.1	3.44	6	1099	<1	<2	0.35	0.2	18	71	22	5.82	1.30	39	2.40	1027	<1	0.02	16	0.11	9	<5	19	0.19	111	<10	148
L98+00N-49+60E	<5	0.9	2.29	8	418	<1	3	0.23	0.5	11	41	27	3.31	0.37	20	1.33	569	5	0.03	30	0.08	37	<5	21	0.08	74	<10	171
L98+00N-49+80E	<5	0.3	3.39	6	559	<1	3	0.29	0.4	14	60	27	4.26	0.38	25	2.00	592	6	0.02	29	0.07	22	6	25	0.13	104	<10	164
STD-AU8-P1	355	0.3	0.99	22	174	<1	3	0.84	0.3	5	92	23	1.99	0.31	9	0.74	522	47	0.06	26	0.07	44	<5	80	0.10	31	<10	145
L98+00N-50+00E	<5	0.2	2.79	18	764	<1	3	0.42	0.7	16	69	33	4.06	0.71	22	2.11	799	<1	0.02	32	0.08	22	9	23	0.15	83	<10	160
106+00N-48+00E		0.4	3.21	17	482	<1	4	0.26	1.2	18	82	45	4.50	0.31	20	1.84	1033	1	0.02	55	0.10	21	7	28	0.08	118	<10	189
106+00N-48+20E		0.2	3.86	13	454	1	3	0.28	0.4	14	84	46	4.20	0.28	22	2.01	547	<1	0.03	60	0.09	18	<5	27	0.10	121	<10	174
106+00N-48+40E		0.3	3.25	11	331	<1	4	0.10	0.5	14	87	36	4.73	0.21	16	1.78	784	3	0.02	51	0.07	20	6	21	0.09	132	<10	223
106+00N-48+60E		0.2	3.48	14	345	<1	3	0.32	0.6	14	79	39	4.73	0.22	18	1.59	551	2	0.02	58	0.11	16	<5	45	0.09	114	<10	173
106+00N-48+80E		0.2	2.71	10	247	<1	3	0.09	0.5	12	73	26	3.97	0.14	13	1.45	768	4	0.02	40	0.08	17	<5	17	0.10	127	<10	171
106+00N-49+00E		0.2	2.81	6	253	<1	5	0.08	0.7	11	71	30	4.08	0.13	16	1.35	764	3	0.02	44	0.07	18	7	16	0.07	116	<10	165
106+00N-49+20E		0.2	2.35	7	207	<1	6	0.10	0.5	9	58	32	4.24	0.16	17	1.26	460	5	0.02	50	0.06	16	<5	20	0.08	101	<10	156
106+00N-49+40E		0.2	2.14	7	214	<1	3	0.06	0.4	10	51	24	3.40	0.13	13	0.98	557	3	0.02	34	0.06	15	6	18	0.08	92	<10	128
106+00N-49+40E*		0.2	2.08	<5	209	<1	<2	0.06	0.3	9	50	23	3.33	0.13	13	0.96	534	<1	0.01	34	0.06	16	<5	18	0.08	89	<10	126
106+00N-49+60E		0.2	2.43	6	202	<1	<2	0.09	0.5	11	51	38	3.68	0.12	20	1.10	348	4	0.02	43	0.06	17	<5	19	0.08	94	12	130
106+00N-49+80E		0.3	3.35	7	279	1	<2	0.20	0.7	15	59	51	4.07	0.19	26	1.39	722	5	0.03	59	0.10	18	<5	28	0.06	93	<10	182
106+00N-60+20E		0.3	1.27	<5	122	<1	<2	0.16	0.7	10	18	21	3.05	0.07	13	0.49	1313	3	<0.01	22	0.15	15	<5	24	<0.01	37	<10	101
106+00N-60+40E		0.2	1.85	<5	70	<1	3	0.07	0.4	11	19	27	3.04	0.05	20	0.47	861	3	0.01	24	0.12	15	6	14	0.01	36	<10	86
106+00N-60+60E		0.3	2.43	<5	68	<1	4	0.06	0.5	10	22	30	3.88	0.06	19	0.57	596	4	<0.01	29	0.18	18	<5	12	0.01	43	<10	101
106+00N-60+80E		0.2	2.29	<5	78	<1	2	0.06	0.4	11	24	41	3.88	0.06	23	0.65	647	5	<0.01	33	0.14	18	5	13	0.01	49	<10	110
106+00N-61+20E		0.1	2.17	<5	65	<1	<2	0.10	0.3	12	21	36	3.56	0.06	28	0.69	471	2	0.01	36	0.11	16	<5	15	0.02	42	<10	96
106+00N-61+40E		0.1	2.02	11	82	<1	<2	0.11	0.3	15	20	37	3.57	0.06	24	0.82	819	3	0.01	39	0.13	16	<5	18	0.01	39	<10	102
106+00N-61+60E		0.2	1.99	<5	108	<1	4	0.11	0.5	14	17	25	3.79	0.13	22	0.55	1359	2	<0.01	26	0.18	21	<5	18	0.01	37	<10	106
106+00N-61+60E*		0.2	2.01	<5	109	<1	5	0.11	0.5	14	17	25	3.83	0.14	23	0.56	1389	2	<0.01	26	0.18	22	<5	18	0.01	37	<10	108
106+00N-61+80E		0.2	2.36	9	87	1	3	0.11	0.3	14	20	38	4.16	0.08	41	0.65	722	3	<0.01	33	0.13	18	6	16	0.01	43	<10	102
106+00N-62+00E		0.3	1.82	<5	144	<1	2	0.21	0.2	10	18	21	2.85	0.10	25	0.38	1036	3	0.01	17	0.19	15	<5	25	<0.01	33	<10	[illegible]
106+00N-62+20E		0.2	2.11	30	114	<1	4	0.14	0.3	13	28	23	3.71	0.09	22	0.47	1423	5	<0.01	29	0.22	16	<5	18	<0.01	31	<10	6
106+00N-62+40E		0.3	1.85	17	86	<1	2	0.10	0.3	9	39	22	3.46	0.10	17	0.58	709	2	<0.01	36	0.17	17	<5	14	<0.01	33	<10	84
106+00N-62+60E		0.1	2.42	26	81	<1	3	0.09	0.2	9	22	27	4.08	0.09	23	0.81	469	<1	<0.01	29	0.14	16	<5	12	0.01	37	<10	89
106+00N-62+80E		0.2	2.14	6	82	<1	<2	0.06	0.3	10	21	27	3.77	0.11	21	0.50	678	3	<0.01	22	0.18	14	<5	10	0.01	37	<10	84
106+00N-63+00E		0.3	1.16	<5	135	<1	2	0.20	0.2	7	16	18	2.59	0.13	15	0.26	732	2	<0.01	14	0.20	14	<5	24	<0.01	35	<10	82
106+00N-63+20E		0.2	1.71	<5	83	<1	<2	0.09	0.2	5	14	13	1.49	0.06	23	0.23	357	<1	0.02	12	0.12	6	<5	14	0.01	16	<10	47
106+00N-63+40E		0.1	1.95	37	70	<1	<2	0.18	0.3	16	45	37	3.05	0.05	29	0.79	412	1	0.01	75	0.09	16	<5	16	0.03	41	<10	95
106+00N-63+40E*		0.1	2.01	38	72	<1	3	0.19	0.3	16	46	38	3.11	0.06	31	0.81	428	4	0.01	77	0.09	16	<5	16	0.04	42	<10	97
106+00N-63+80E		0.1	1.99	11	71	<1	5	0.15	0.5	13	26	50	3.47	0.05	38	0.82	389	5	<0.01	42	0.10	20	<5	16	0.02	46	<10	109
106+00N-64+00E		0.3	1.23	13	795	<1	6	0.17	1.0	34	20	26	2.89	0.10	18	0.25	9155	4	<0.01	26	0.13	39	6	16	<0.01	38	<10	102
106+00N-64+20E		0.3	1.49	30	530	<1	4	0.44	0.7	18	82	46	3.89	0.17	27	1.08	1472	3	<0.01	100	0.09	18	<5	21	0.02	59	<10	154
106+00N-64+40E		0.1	1.66	11	262	<1	3	0.12	0.3	13	37	21	3.84	0.17	15	0.49	1321	2	<0.01	30	0.16	21	<5	15	<0.01	45	<10	102
106+00N-64+60E		0.2	1.01	17	556	<1	5	0.57	0.4	18	39	22	2.86	0.11	13	0.45	2879	5	<0.01	30	0.21	21	<5	28	<0.01	41	<10	119
106+00N-64+80E		0.4	1.01	8	357	<1	<2	0.29	0.3	15	26	26	2.81	0.12	24	0.31	2787	2	<0.01	26	0.19	25	<5	18	<0.01	39	<10	95
106+00N-65+00E		0.1	1.80	10	220	<1	4	0.20	0.1	10	29	19	3.99	0.18	16	0.53	764	<1	<0.01	20	0.23	22	<5	20	<0.01	45	<10	115
KONA-B2417		0.2	2.82	72	350	<1	<2	0.81	<0.1	31	135	39	5.21	0.10	22	1.38	1101	<1	0.12	49	0.05	9	10	38	<0.01	98	<10	84
KONA-B2413		0.2	2.41	22	85	2	5	0.37	0.2	49	357	230	6.74	0.04	7	2.51	1787	<1	0.01	174	0.04	7	11	8	0.01	125	<10	114
KONA-B2413*		0.2	2.40	23	83	2	<2	0.36	0.1	50	359	233	6.74	0.05	6	2.51	1784	<1	<0.01	174	0.04	9	6	8	0.01	125	<10	119

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: JULY 16,1991 | Page 3 of 3
Area: FIRE LAKE | Lab Project No.: P1424 | Date Completed: JULY 25, 1991 | Attn: R STROSHEIN, J KOWALCHUK, E KIMURA, R HODGSON
Remarks: SOME SAMPLES RERUN FOR AU AS REQUESTED BY FAX ON SEPT 10, 1991
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
KONA-B2428		0.3	3.08	6	385	2	3	0.21	1.5	32	139	56	7.97	0.55	11	1.48	1573	5	0.03	64	0.10	6	9	23	0.27	198	<10	163
STD-P1		0.2	1.01	21	181	<1	<2	0.85	0.4	6	95	26	2.14	0.32	9	0.77	554	45	0.06	28	0.07	46	9	80	0.10	34	<10	137

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: YUKON VMS | Geol.: R STROSHEIN | Date Received: JULY 23, 1991 | Page 1 of 1
Area: 105G1 | Lab Project No.: P1428 | Date Completed: JULY 30, 1991 | Attn: R STROSHEIN
Remarks: | J KOWALCHUK
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L 5 PPB) | E KIMURA
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours. | R HODGSON
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
B2451	<5	0.6	1.12	18	88	<1	4	0.08	<0.1	3	93	19	3.27	0.07	7	0.93	222	2	0.06	5	0.08	38	<5	39	0.23	27	10	105
B2452	<5	0.3	1.55	29	117	<1	4	0.45	0.2	11	76	21	3.48	0.22	8	1.40	953	2	0.02	10	0.05	32	<5	38	0.12	33	<10	104
B2453	<5	0.5	1.95	47	107	<1	<2	0.45	<0.1	12	86	17	3.92	0.11	4	1.74	1058	3	<0.01	14	0.06	8	<5	31	0.18	28	<10	108
B2454	<5	0.3	2.09	23	91	<1	<2	1.01	1.2	13	66	38	4.15	0.15	8	1.83	1464	1	0.01	8	0.08	72	7	31	0.05	20	<10	529
B2455	<5	0.6	1.73	14	104	<1	2	0.59	0.4	11	77	25	3.25	0.06	4	1.36	1084	<1	0.06	6	0.12	104	<5	32	0.14	20	<10	327
B2456	<5	0.3	1.46	26	43	<1	3	0.53	0.1	13	87	19	3.69	0.03	5	1.42	901	2	0.03	16	0.04	30	12	34	0.11	33	<10	139
B2457	<5	0.2	1.97	32	75	<1	3	0.46	<0.1	16	81	23	3.82	0.10	7	1.94	716	<1	0.02	20	0.06	9	<5	28	0.07	31	<10	114
B2458	<5	0.3	1.60	43	67	<1	<2	0.21	<0.1	10	67	41	6.90	0.18	3	0.77	1578	3	0.01	21	0.11	14	<5	4	<0.01	14	<10	304
[illegible]59	25	1.3	0.08	71	11	<1	<2	<0.01	<0.1	4	137	15	9.01	0.04	2	0.02	35	5	<0.01	41	<0.01	<2	11	<1	<0.01	3	<10	12
–P1/AU8	355	0.3	0.99	21	187	<1	3	0.84	0.4	5	103	24	2.15	0.33	7	0.79	548	52	0.06	30	0.08	49	<5	78	0.09	32	<10	138
B2551	<5	<0.1	2.10	13	145	<1	<2	0.53	<0.1	11	111	35	4.31	0.18	9	1.83	829	2	0.02	60	0.11	<2	9	20	0.35	47	11	66
B2552	<5	<0.1	2.27	<5	136	<1	<2	0.60	<0.1	10	96	20	4.44	0.18	8	1.97	947	<1	0.02	48	0.13	<2	<5	29	0.34	53	<10	73
B2553	<5	0.2	3.40	14	162	<1	<2	0.71	<0.1	21	33	51	6.74	0.19	16	2.99	1645	<1	0.02	46	0.19	3	9	26	0.32	81	<10	124
B2553*	<5	0.2	3.54	15	169	<1	4	0.74	0.1	22	34	53	6.98	0.19	17	3.10	1708	1	0.02	47	0.19	<2	<5	27	0.33	85	<10	128

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE 105G
Geol.: R STROSHEIN
Lab Project No.: P1429
Date Received: JULY 23, 1991
Date Completed: JULY 30, 1991

Attn: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
B2381	<5	0.1	2.03	7	10	<1	4	0.99	0.5	16	86	178	2.99	0.03	<1	1.01	336	3	0.13	26	0.02	3	7	21	0.05	100	<10	90
B2382	<5	0.2	1.52	5	9	<1	<2	0.84	0.3	12	76	219	2.87	0.03	<1	0.91	283	2	0.13	16	0.02	<2	<5	15	0.06	99	<10	74
B2421	5	0.5	1.41	<5	172	<1	2	0.23	0.3	7	113	30	3.79	0.32	22	0.92	299	5	0.05	19	0.06	2	<5	17	0.03	35	<10	79
B2422	<5	0.5	4.52	10	1351	1	<2	1.13	0.5	15	157	45	3.72	1.78	13	2.28	596	9	0.22	41	0.10	13	10	115	0.14	113	<10	191
B2423	<5	0.3	1.10	<5	321	<1	2	0.16	0.2	4	143	7	1.67	0.47	18	0.57	424	<1	0.05	7	0.04	10	<5	14	0.04	12	<10	46
B2424	5	0.3	2.59	10	602	<1	<2	0.97	0.2	15	73	26	3.66	1.28	4	1.82	436	<1	0.14	7	0.11	8	9	71	0.18	87	<10	107
B2425	15	0.1	1.02	6	67	<1	<2	0.88	<0.1	23	44	110	2.95	0.04	<1	1.01	334	<1	0.09	22	0.02	<2	<5	6	0.04	74	<10	27
B2427	20	2.1	1.44	5	34	<1	<2	1.08	1.0	9	130	4517	2.43	0.06	<1	0.66	208	4	0.15	21	0.02	<2	<5	28	0.05	59	<10	45
B2428	<5	0.1	1.67	6	64	<1	<2	1.01	0.1	14	66	560	2.81	0.10	<1	0.99	258	<1	0.17	32	0.02	<2	<5	22	0.05	98	<10	36
B2428*	<5	0.1	1.68	9	67	<1	<2	1.02	0.1	14	60	559	2.83	0.11	<1	1.00	258	<1	0.17	33	0.02	<2	6	22	0.06	98	<10	36
B2429	<5	0.6	2.55	8	15	<1	<2	1.40	0.5	15	79	2084	2.70	0.02	3	1.02	219	1	0.18	34	0.02	4	12	60	0.04	67	104	59
B2430	<5	0.2	2.01	10	62	<1	<2	0.32	<0.1	17	297	318	2.83	0.01	2	2.51	272	3	0.06	71	0.02	<2	12	2	0.02	63	<10	39
STD-AU8-P1	310	0.3	1.03	21	192	<1	<2	0.87	0.3	6	104	28	2.11	0.33	8	0.80	552	49	0.06	29	0.07	47	5	83	0.10	33	<10	138

PLACER DOME RESEARCH CENTRE

Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE 105G
Geol.: R STROSHEIN
Lab Project No.: P1430
Date Received: JULY 16, 1991
Date Completed: AUG 7, 1991

Attn: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L82+00N-40+80E		0.1	2.31	8	109	<1	<2	0.24	0.2	14	131	36	4.06	0.05	7	1.35	202	<1	0.03	39	0.05	4	<5	14	0.18	125	<10	91
L82+00N-41+00E		0.1	1.98	6	114	<1	3	0.56	0.4	14	120	13	2.50	0.06	6	1.30	131	2	0.06	45	0.03	7	8	37	0.29	115	<10	82
L82+00N-41+20E		0.2	1.83	5	145	<1	<2	0.63	0.9	18	120	67	3.07	0.27	8	0.88	664	4	0.03	64	0.04	6	9	22	0.23	93	<10	89
L82+00N-41+60E		<0.1	2.76	10	230	<1	<2	0.48	0.3	19	105	93	3.39	0.13	8	1.65	519	4	0.03	87	0.06	8	9	21	0.16	86	<10	106
L82+00N-41+80E		0.2	2.08	8	167	<1	<2	0.20	0.4	12	77	17	3.15	0.08	11	1.37	236	3	0.02	43	0.06	16	7	16	0.16	77	<10	93
L82+00N-42+00E		<0.1	0.89	<5	83	<1	<2	0.15	0.4	4	48	7	1.08	0.05	9	0.51	92	1	0.02	17	0.02	10	<5	10	0.07	31	<10	39
L82+00N-42+20E		<0.1	1.94	<5	87	<1	<2	0.24	0.3	12	91	14	3.24	0.08	9	1.28	188	1	0.02	44	0.05	17	6	17	0.21	93	<10	80
L82+00N-42+40E		0.1	0.58	<5	70	<1	4	0.12	0.5	2	35	5	0.67	0.04	9	0.23	48	3	0.01	9	0.02	17	<5	10	0.10	26	<10	34
L82+00N-42+60E		<0.1	2.26	7	96	<1	<2	0.37	0.8	16	112	17	2.83	0.08	7	1.60	154	<1	0.04	67	0.04	8	<5	16	0.23	95	<10	95
STD-P1		0.2	1.09	23	187	<1	<2	0.92	0.4	6	107	23	2.09	0.36	10	0.84	569	47	0.07	32	0.08	49	7	85	0.11	33	<10	143
L82+00N-42+80E		0.1	1.19	<5	66	<1	<2	0.21	0.8	13	81	22	2.22	0.08	5	0.82	126	1	0.02	52	0.04	7	<5	14	0.16	59	<10	85
L82+00N-43+00E		0.5	2.12	<5	219	<1	2	0.94	6.0	23	57	185	2.52	0.06	24	0.78	1495	<1	0.02	47	0.06	16	<5	41	0.07	51	<10	199
L82+00N-43+20E		0.8	2.07	6	332	<1	3	2.30	2.8	12	53	81	2.53	0.11	70	1.19	327	1	0.04	41	0.09	20	<5	89	0.05	50	<10	203
L82+00N-43+40E		1.3	2.43	8	360	<1	4	1.70	1.5	13	56	65	2.96	0.26	101	1.33	386	2	0.05	36	0.12	26	<5	73	0.07	61	<10	178
L82+00N-43+60E		0.7	2.00	8	339	<1	3	1.56	2.9	10	45	41	2.35	0.11	61	0.94	529	1	0.03	32	0.10	13	8	69	0.04	45	<10	138
L82+00N-43+80E		0.1	2.97	<5	332	<1	<2	0.76	0.8	18	81	44	3.11	0.18	19	1.83	515	<1	0.03	59	0.08	13	9	36	0.10	68	<10	103
L82+00N-44+00E		0.2	2.35	<5	216	<1	4	0.34	0.6	10	60	15	3.39	0.16	14	1.72	346	3	0.03	24	0.05	15	<5	23	0.13	105	<10	142
L82+00N-44+20E		0.1	2.16	<5	232	<1	2	0.21	0.3	10	42	19	2.86	0.06	15	1.13	254	3	0.02	25	0.05	19	<5	21	0.06	64	<10	116
L82+00N-44+40E		0.4	2.09	<5	330	<1	3	0.65	1.1	13	46	25	2.76	0.12	15	1.28	896	3	0.04	28	0.07	16	<5	40	0.07	63	<10	115
L82+00N-44+40E*		0.4	2.07	<5	327	<1	<2	0.65	1.1	14	45	25	2.74	0.12	15	1.27	875	3	0.03	28	0.07	15	<5	39	0.07	62	<10	115
L82+00N-44+60E		0.1	2.71	10	334	<1	<2	0.51	0.7	13	51	28	3.44	0.18	17	1.69	488	5	0.04	35	0.05	15	<5	33	0.11	86	<10	153
L82+00N-44+80E		0.5	2.77	<5	380	<1	<2	0.68	3.4	14	57	38	3.41	0.14	23	1.54	667	4	0.03	37	0.08	25	10	40	0.09	89	<10	328
L82+00N-45+00E		<0.1	2.87	7	359	<1	<2	0.50	0.4	12	52	27	3.92	0.18	18	1.77	387	3	0.02	33	0.07	23	11	33	0.11	99	<10	167
L82+00N-45+20E		0.2	2.50	<5	300	<1	<2	0.47	0.6	10	47	19	3.68	0.09	13	1.42	300	7	0.02	25	0.05	27	10	31	0.11	99	<10	189
L82+00N-45+40E		0.1	2.68	6	366	<1	<2	0.59	0.7	10	46	20	3.88	0.13	13	1.65	385	4	0.02	20	0.06	27	10	34	0.12	110	<10	213
L82+00N-45+60E		0.3	3.17	10	288	1	<2	0.35	2.3	14	89	103	5.71	0.19	26	2.62	448	19	0.02	62	0.10	15	7	40	0.07	295	<10	541
L82+00N-45+80E		0.5	3.07	7	350	<1	<2	1.45	1.2	12	31	20	3.60	0.06	25	1.59	497	3	0.05	17	0.08	21	7	79	0.08	76	<10	234
L82+00N-46+00E		<0.1	4.09	<5	586	<1	<2	1.55	0.4	16	43	14	4.52	0.24	19	2.14	568	3	0.14	15	0.11	24	6	99	0.17	99	<10	185
L82+00N-46+20E		0.6	1.89	<5	283	<1	<2	0.66	0.3	7	30	17	2.56	0.14	19	0.94	236	3	0.02	18	0.04	15	8	34	0.07	47	<10	95
L82+00N-46+20E*		0.6	1.95	<5	294	<1	<2	0.68	0.3	7	31	18	2.67	0.15	20	0.98	248	5	0.02	18	0.04	16	8	35	0.07	49	<10	98
L82+00N-46+40E		0.5	2.04	5	351	<1	<2	0.09	1.1	8	46	20	3.66	0.12	16	1.18	360	1	0.02	21	0.05	20	<5	20	0.09	91	<10	129
L82+00N-46+60E		0.2	1.96	6	258	<1	3	0.11	0.5	8	39	18	3.76	0.09	15	1.02	297	<1	0.01	23	0.05	16	<5	15	0.09	82	<10	115
L82+00N-46+80E		0.1	1.47	5	217	<1	<2	0.12	1.0	7	31	15	3.25	0.08	15	0.78	271	<1	0.01	19	0.05	16	6	16	0.08	64	<10	104
L82+00N-47+00E		0.4	0.85	<5	117	<1	<2	0.05	0.4	4	19	9	1.92	0.07	16	0.30	124	<1	<0.01	8	0.03	19	<5	9	0.06	41	<10	62
L82+00N-47+20E		0.1	1.07	<5	175	<1	<2	0.04	1.2	5	17	12	2.72	0.06	15	0.37	229	<1	<0.01	10	0.07	21	<5	9	0.08	53	<10	103
L82+00N-47+40E		0.1	1.15	<5	193	<1	5	0.06	0.9	4	21	9	2.53	0.07	15	0.47	230	<1	<0.01	10	0.03	17	<5	10	0.10	60	<10	93
L82+00N-47+60E		0.1	2.44	<5	342	<1	5	0.09	0.5	8	41	18	3.85	0.11	15	1.38	368	<1	0.02	20	0.04	19	<5	15	0.13	100	<10	140
L82+00N-47+80E		0.1	1.33	<5	88	<1	<2	0.04	0.4	6	15	14	3.30	0.06	21	0.47	273	2	<0.01	13	0.05	21	<5	7	0.04	43	<10	127
L82+00N-48+00E		0.3	2.21	<5	248	<1	5	0.13	1.8	8	29	14	4.23	0.08	17	0.92	481	1	0.01	16	0.05	30	9	21	0.11	88	<10	214
L82+00N-48+00E*		0.3	2.07	<5	234	<1	5	0.12	1.5	7	28	13	4.03	0.08	15	0.86	453	<1	0.01	15	0.05	30	<5	20	0.11	83	<10	203
L82+00N-48+20E		0.2	2.50	<5	284	<1	<2	0.09	2.0	8	35	21	3.85	0.07	19	1.32	391	<1	0.01	20	0.04	13	<5	14	0.09	81	<10	204
L82+00N-48+40E		0.6	2.06	<5	369	1	4	0.21	5.8	16	17	16	3.21	0.09	81	0.67	2339	<1	0.01	13	0.06	108	6	21	0.04	45	<10	422
L82+00N-48+60E		5.0	2.43	<5	305	<1	<2	0.13	3.5	12	26	17	4.04	0.10	27	1.12	1667	2	0.01	15	0.05	52	<5	17	0.06	70	<10	399
L82+00N-48+80E		2.2	2.14	<5	239	<1	3	0.06	1.0	7	25	16	3.97	0.17	20	1.00	501	<1	<0.01	13	0.06	38	<5	11	0.07	64	<10	198
L82+00N-49+00E		0.8	1.17	<5	126	<1	<2	0.03	0.4	8	8	23	4.28	0.06	30	0.28	838	2	<0.01	20	0.06	67	<5	9	0.02	48	<10	149
L82+00N-49+20E		0.9	2.51	<5	194	<1	<2	0.08	0.4	9	9	13	3.66	0.06	16	1.12	302	2	<0.01	8	0.05	24	<5	12	0.06	72	<10	80
L82+00N-49+40E		1.8	1.55	<5	178	<1	2	0.03	0.4	6	4	10	3.32	0.16	38	0.41	700	<1	<0.01	5	0.05	67	<5	5	0.06	31	<10	192
L82+00N-49+60E		0.3	4.02	6	192	<1	2	0.14	0.4	14	27	15	5.26	0.05	9	1.63	525	<1	0.02	10	0.07	16	<5	14	0.10	115	<10	170
L82+00N-49+80E		0.5	3.39	55	391	<1	4	0.04	0.2	8	51	33	4.86	0.24	26	1.86	538	5	0.01	23	0.06	16	<5	9	0.09	123	<10	170
L82+00N-49+80E*		0.6	3.61	54	416	<1	5	0.09	0.3	8	52	35	5.17	0.26	28	1.98	578	3	0.01	22	0.06	17	<5	9	0.09	131	<10	181

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE 105G
Geol.: R STROSHEIN
Lab Project No.: P1430
Date Received: JULY 16, 1991
Date Completed: AUG 7, 1991
Page 2 of 7
Attn: R STROSHEIN, J KOWALCHUK, E KIMURA, R HODGSON

Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L83+00N-40+80E		<0.1	1.23	<5	99	<1	<2	0.31	0.4	7	58	20	1.89	0.04	8	0.73	150	<1	0.02	19	0.03	10	<5	14	0.16	74	17	70
L83+00N-41+00E		<0.1	1.41	<5	106	<1	<2	0.28	0.2	9	51	46	1.95	0.03	9	0.52	146	<1	0.02	27	0.03	14	<5	15	0.20	58	<10	36
L83+00N-41+20E		<0.1	2.92	<5	170	<1	3	0.72	0.5	27	159	39	3.21	0.17	5	1.94	919	<1	0.07	72	0.10	5	<5	38	0.24	101	<10	86
L83+00N-41+40E		<0.1	0.80	<5	103	<1	<2	0.42	0.6	7	52	20	1.32	0.05	7	0.43	168	<1	0.02	23	0.02	14	<5	21	0.17	42	<10	47
L83+00N-41+60E		<0.1	1.59	<5	105	<1	<2	0.19	0.4	10	67	15	2.79	0.07	9	1.04	203	<1	0.02	31	0.05	17	7	14	0.17	77	<10	74
L83+00N-41+80E		0.2	1.28	<5	67	<1	2	0.22	0.6	9	64	17	1.72	0.04	6	0.82	151	<1	0.02	34	0.04	12	<5	15	0.09	46	<10	52
L83+00N-42+00E		0.1	2.22	8	112	<1	4	0.24	0.4	14	93	17	3.26	0.08	9	1.54	239	2	0.02	46	0.06	15	7	18	0.20	87	<10	122
00N-42+20E		0.1	0.52	<5	43	<1	4	0.14	0.2	4	46	10	0.66	0.02	5	0.41	57	<1	0.01	17	0.02	9	<5	7	0.03	18	<10	17
L83+00N-42+40E		0.1	1.47	<5	129	<1	<2	0.13	0.2	9	64	15	2.07	0.05	9	0.90	220	1	0.01	27	0.03	24	6	9	0.08	57	<10	78
STD-P1		0.2	1.05	18	197	<1	<2	0.91	0.4	6	110	25	2.24	0.34	8	0.83	584	54	0.08	30	0.08	52	9	85	0.11	35	<10	143
L83+00N-42+60E		0.1	0.47	<5	28	<1	<2	0.20	0.2	4	38	8	0.84	0.02	3	0.37	70	4	0.02	17	0.01	5	<5	4	0.10	25	<10	18
L83+00N-42+80E		<0.1	1.51	5	181	<1	<2	0.13	0.8	10	51	14	3.05	0.06	6	1.02	183	3	0.01	31	0.05	12	<5	11	0.14	109	<10	106
L83+00N-43+00E		<0.1	1.46	<5	84	<1	<2	0.17	0.5	11	81	17	2.08	0.03	4	1.24	249	5	0.01	46	0.08	5	<5	12	0.07	50	<10	73
L83+00N-43+20E		<0.1	0.70	<5	52	<1	<2	0.21	1.2	4	42	17	0.86	0.02	5	0.51	137	5	<0.01	17	0.01	20	<5	10	0.04	23	<10	37
L83+00N-43+40E		0.2	0.91	<5	66	<1	<2	0.20	1.3	7	55	11	1.33	0.03	4	0.77	148	4	0.01	29	0.02	10	6	13	0.06	36	<10	49
L83+00N-43+60E		0.2	1.18	<5	143	<1	2	0.20	0.7	7	51	11	2.14	0.06	7	0.80	232	4	0.02	22	0.03	20	<5	14	0.13	69	<10	90
L83+00N-43+80E		<0.1	0.94	<5	138	<1	<2	0.22	2.1	7	46	15	1.56	0.04	7	0.61	139	3	0.02	24	0.03	16	<5	16	0.12	42	<10	57
L83+00N-44+00E		0.1	2.10	<5	174	<1	<2	0.31	1.1	9	53	14	3.32	0.11	11	1.41	323	4	0.02	24	0.04	15	7	23	0.10	90	<10	146
L83+00N-44+20E		0.3	2.06	8	224	<1	<2	0.43	1.1	10	48	23	2.85	0.08	28	1.24	300	3	0.02	24	0.05	32	<5	23	0.08	70	<10	205
L83+00N-44+20E*		0.4	2.06	<5	227	<1	<2	0.43	1.1	10	48	23	2.88	0.08	28	1.25	303	4	0.02	24	0.05	31	11	24	0.08	71	<10	207
L83+00N-44+40E		0.7	2.42	16	333	<1	<2	0.84	5.1	16	46	55	3.43	0.17	43	1.27	952	<1	0.02	35	0.07	33	<5	42	0.07	79	<10	395
L83+00N-44+60E		0.4	2.53	10	441	<1	<2	0.52	1.2	12	47	22	3.19	0.18	34	1.43	647	<1	0.03	25	0.06	20	<5	32	0.09	76	<10	287
L83+00N-44+80E		1.0	2.36	8	363	<1	<2	0.99	1.3	13	37	35	3.21	0.31	165	1.28	731	2	0.03	24	0.07	31	6	43	0.09	64	<10	236
L83+00N-45+00E		0.6	1.97	10	297	<1	<2	1.37	1.8	9	31	25	2.02	0.08	26	0.75	868	1	0.03	15	0.14	13	<5	66	0.03	51	<10	100
L83+00N-45+20E		0.3	2.49	12	283	<1	<2	0.93	0.6	11	54	19	3.10	0.09	27	1.56	476	3	0.05	23	0.07	17	<5	49	0.09	78	<10	133
L83+00N-45+40E		0.2	2.07	6	287	<1	<2	0.39	0.7	9	39	14	2.95	0.13	16	1.34	346	3	0.02	18	0.04	18	<5	26	0.09	73	<10	138
L83+00N-45+60E		0.3	1.42	<5	165	<1	<2	0.17	1.3	8	46	9	2.21	0.10	11	0.82	371	3	0.02	12	0.04	15	<5	14	0.08	55	<10	212
L83+00N-45+80E		0.1	2.18	<5	357	<1	<2	0.26	0.7	7	34	17	2.88	0.13	15	1.38	349	2	0.03	14	0.06	17	<5	23	0.09	79	<10	113
L83+00N-46+00E		0.2	1.99	6	342	<1	<2	0.22	0.8	7	48	18	3.06	0.11	15	1.17	287	<1	0.02	21	0.06	17	<5	24	0.08	72	<10	113
+00N-46+00E*		0.2	2.01	<5	345	<1	<2	0.22	0.8	7	48	18	3.08	0.11	15	1.19	286	<1	0.02	21	0.06	17	<5	24	0.08	72	<10	114
L83+00N-46+40E		0.2	2.79	5	362	<1	3	0.14	0.5	9	54	22	3.78	0.19	18	1.60	403	3	0.02	25	0.05	15	<5	19	0.11	93	<10	188
L83+00N-46+60E		0.1	2.38	9	308	<1	<2	0.17	0.3	8	38	15	3.56	0.11	14	1.10	270	1	0.01	22	0.06	14	<5	19	0.08	66	<10	119
L83+00N-46+80E		0.2	1.35	<5	236	<1	<2	0.12	0.6	4	29	13	2.33	0.07	12	0.58	178	4	<0.01	12	0.05	14	<5	20	0.03	49	<10	85
L83+00N-47+00E		0.2	1.46	<5	163	<1	<2	0.10	0.2	5	29	10	2.44	0.06	12	0.61	192	1	<0.01	13	0.03	14	<5	13	0.09	57	<10	74
L83+00N-47+20E		0.2	1.59	<5	139	<1	<2	0.08	0.4	5	33	12	2.56	0.06	13	0.66	195	<1	<0.01	13	0.04	13	<5	10	0.07	59	<10	76
L83+00N-47+40E		0.2	2.34	<5	263	<1	<2	0.21	0.9	9	34	15	3.95	0.12	14	1.10	454	<1	0.01	18	0.05	22	<5	23	0.08	77	<10	199
L83+00N-47+60E		0.2	2.22	7	300	<1	<2	0.12	0.6	9	35	15	3.70	0.11	19	1.08	329	<1	0.01	17	0.04	18	6	16	0.08	78	<10	131
L83+00N-47+80E		0.2	1.44	<5	261	<1	<2	0.11	1.3	9	27	13	2.64	0.09	17	0.69	489	<1	0.01	13	0.04	18	15	17	0.04	54	<10	111
L83+00N-48+00E		0.2	2.65	6	267	1	2	0.09	0.7	13	16	18	4.84	0.21	37	1.40	599	<1	0.01	17	0.05	36	10	15	0.06	74	<10	216
L83+00N-48+00E*		0.2	2.65	7	270	1	3	0.10	0.7	12	15	19	4.89	0.21	38	1.39	602	2	0.01	17	0.05	33	<5	16	0.06	75	<10	223
L83+00N-48+20E		0.2	2.63	<5	183	1	<2	0.13	0.6	10	19	19	3.79	0.16	35	1.14	405	<1	0.01	18	0.04	50	<5	14	0.08	52	<10	189
L83+00N-48+40E		0.4	2.91	<5	261	<1	3	0.12	1.1	10	36	21	4.36	0.14	36	1.35	446	<1	0.01	23	0.05	100	<5	14	0.08	80	<10	426
L83+00N-48+60E		0.7	1.28	5	162	<1	<2	0.09	1.5	5	13	18	3.94	0.09	41	0.34	401	2	<0.01	18	0.06	97	6	15	0.01	36	<10	326
L83+00N-48+80E		0.5	3.03	5	487	<1	<2	0.20	1.8	12	10	13	5.34	0.08	16	1.58	507	<1	<0.01	5	0.08	98	11	25	0.01	108	<10	292
L83+00N-49+00E		0.4	1.20	<5	233	<1	<2	0.04	3.9	4	18	13	2.11	0.06	18	0.32	1416	<1	<0.01	8	0.05	61	<5	8	0.02	37	<10	156
L83+00N-49+20E		0.2	3.38	<5	327	<1	<2	0.14	0.5	13	42	23	4.43	0.22	16	1.73	429	2	0.02	26	0.04	21	5	14	0.12	100	<10	143
L83+00N-49+40E		0.1	2.95	<5	407	<1	<2	0.09	0.1	9	52	17	3.92	0.28	12	1.74	506	<1	0.02	20	0.05	17	17	13	0.08	114	<10	134
L83+00N-49+60E		0.2	3.61	<5	395	1	2	0.08	0.2	9	35	31	5.23	0.48	35	2.11	546	4	0.01	32	0.05	35	<5	11	0.12	110	<10	246
L83+00N-49+80E		0.2	1.93	<5	60	<1	2	0.02	0.2	7	89	19	3.45	0.02	12	0.79	478	2	<0.01	10	0.06	10	8	3	0.03	74	<10	68
L83+00N-49+80E*		0.2	1.87	<5	59	<1	2	0.03	0.2	8	93	20	3.42	0.02	15	0.83	489	<1	<0.01	12	0.07	10	7	4	0.03	78	<10	69

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE 105G
Geol.: R STROSHEIN
Lab Project No.: P1430
Date Received: JULY 16, 1991
Date Completed: AUG 7, 1991

Attn: R STROSHEIN, J KOWALCHUK, E KIMURA, R HODGSON

Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L83 +00N –50 +00E		0.3	5.13	9	843	1	3	0.13	0.6	14	50	60	5.69	0.48	24	2.32	550	7	0.02	47	0.10	23	19	20	0.08	121	<10	243
L84 +00N –40 +60E		0.1	2.04	6	155	<1	4	0.39	0.4	10	83	22	3.14	0.18	7	1.51	306	<1	0.02	35	0.06	11	14	24	0.16	93	<10	130
L84 +00N –40 +80E		0.1	0.98	<5	148	<1	4	0.40	0.3	4	40	42	1.13	0.03	9	0.35	66	<1	0.01	18	0.03	11	<5	27	0.04	28	<10	35
L84 +00N –41 +00E		<0.1	2.60	12	202	<1	<2	0.57	<0.1	16	103	33	3.23	0.09	10	1.71	256	<1	0.03	59	0.06	17	28	27	0.17	89	<10	94
L84 +00N –41 +20E		<0.1	1.27	<5	95	<1	2	0.21	0.3	8	63	10	1.77	0.08	7	0.96	152	<1	0.02	28	0.02	12	<5	12	0.15	56	<10	58
L84 +00N –41 +40E		<0.1	1.79	5	280	<1	<2	0.27	0.5	9	43	14	2.95	0.12	7	1.21	219	<1	0.04	23	0.06	12	9	21	0.18	93	<10	96
L84 +00N –41 +60E		0.1	0.73	<5	82	<1	4	0.22	0.8	5	48	9	1.21	0.04	5	0.47	140	<1	0.02	18	0.02	11	<5	13	0.16	40	<10	41
00N –41 +80E		0.3	1.22	<5	211	<1	2	0.35	2.5	8	58	40	1.63	0.06	9	0.84	207	<1	0.02	25	0.04	22	<5	20	0.08	44	<10	55
[illegible] +00N –42 +00E		0.4	2.05	<5	135	<1	4	0.19	1.0	13	70	62	2.65	0.05	11	1.27	241	<1	0.02	40	0.05	39	6	13	0.09	60	<10	112
STD – P1		0.2	1.04	23	188	<1	3	0.88	0.3	5	105	25	2.09	0.33	7	0.78	560	41	0.06	31	0.07	48	12	83	0.11	34	<10	143
L84 +00N –42 +20E		0.2	1.19	5	146	<1	<2	0.45	4.8	12	70	42	1.98	0.06	6	0.77	254	4	0.02	34	0.04	26	<5	28	0.06	49	<10	116
L84 +00N –42 +40E		0.1	2.63	11	218	<1	<2	0.44	0.2	13	58	30	3.15	0.13	14	1.76	360	3	0.03	36	0.05	17	6	21	0.10	74	<10	116
L84 +00N –42 +60E		0.3	0.62	<5	130	<1	<2	1.28	1.2	3	19	33	0.46	0.03	12	0.09	110	6	0.03	6	0.07	4	<5	42	0.01	11	<10	25
L84 +00N –42 +80E		<0.1	1.10	6	96	<1	<2	0.23	0.7	9	56	31	1.48	0.03	4	0.94	138	4	0.02	33	0.04	18	<5	13	0.06	40	<10	51
L84 +00N –43 +00E		0.1	1.59	10	168	<1	<2	0.44	2.9	12	66	39	2.23	0.07	10	1.13	464	4	0.02	38	0.04	14	<5	23	0.08	57	<10	147
L84 +00N –43 +20E		0.7	2.53	12	402	<1	<2	0.86	1.0	13	50	60	3.20	0.14	23	1.33	470	9	0.03	38	0.08	27	6	45	0.08	72	<10	231
L84 +00N –43 +40E		0.8	2.11	12	498	<1	<2	1.19	0.8	15	40	56	2.90	0.10	13	0.87	773	7	0.03	31	0.11	28	<5	56	0.04	62	<10	159
L84 +00N –43 +60E		0.4	1.39	10	255	<1	3	0.67	0.6	9	39	30	1.77	0.06	14	0.75	434	4	0.03	30	0.05	21	<5	34	0.05	40	<10	119
L84 +00N –43 +80E		0.3	1.95	9	326	<1	4	0.32	1.8	10	45	21	2.59	0.11	13	1.10	287	3	0.02	22	0.05	26	9	22	0.06	67	<10	168
L84 +00N –43 +80E*		0.4	2.02	7	340	<1	3	0.33	1.9	10	46	22	2.68	0.11	14	1.13	297	5	0.02	23	0.06	29	<5	23	0.06	70	<10	176
L84 +00N –44 +00E		0.2	1.63	<5	287	<1	<2	0.13	1.5	7	55	23	2.27	0.06	16	0.79	205	8	0.01	23	0.05	27	<5	17	0.05	58	<10	104
L84 +00N –44 +20E		0.1	1.77	5	359	<1	<2	0.40	0.4	8	42	15	2.52	0.11	17	1.06	285	3	0.01	18	0.03	20	<5	25	0.09	67	<10	128
L84 +00N –44 +40E		2.4	4.31	30	477	2	4	0.98	3.6	23	46	54	3.92	0.25	334	1.23	1935	5	0.03	42	0.11	279	5	46	0.07	82	<10	459
L84 +00N –44 +60E		<0.1	2.05	7	245	<1	<2	0.11	0.3	6	35	12	3.28	0.08	15	0.94	306	3	<0.01	14	0.04	26	<5	17	0.10	83	<10	121
L84 +00N –44 +80E		<0.1	1.89	6	231	<1	<2	0.12	0.5	7	22	12	3.00	0.09	16	0.92	234	5	0.01	15	0.04	16	<5	16	0.09	54	<10	108
L84 +00N –45 +00E		<0.1	1.64	<5	301	<1	<2	0.13	0.4	6	33	13	2.96	0.09	15	0.87	257	2	0.01	16	0.04	16	<5	18	0.10	75	<10	100
L84 +00N –45 +20E		0.2	1.42	<5	197	<1	<2	0.05	0.4	5	34	12	2.63	0.07	13	0.72	204	1	0.01	15	0.04	18	<5	9	0.08	68	<10	88
L84 +00N –45 +40E		<0.1	1.73	<5	388	<1	<2	0.15	1.0	7	36	15	3.30	0.11	14	0.90	302	5	0.01	18	0.05	19	<5	24	0.10	78	<10	117
L84 +00N –45 +60E		<0.1	1.39	<5	164	<1	<2	0.10	1.3	6	28	14	2.55	0.08	14	0.65	252	4	0.02	14	0.03	18	<5	15	0.07	64	<10	125
[illegible] +00N –45 +60E*		<0.1	1.35	<5	160	<1	<2	0.09	1.3	5	27	14	2.48	0.07	13	0.63	243	4	0.01	13	0.03	17	<5	15	0.07	63	<10	128
L84 +00N –45 +80E		0.6	1.66	<5	292	<1	2	0.21	2.5	16	26	16	2.56	0.06	37	0.64	1175	1	0.02	12	0.04	48	<5	17	0.07	54	10	220
L84 +00N –46 +00E		<0.1	1.68	<5	194	<1	<2	0.09	0.6	6	25	13	2.57	0.06	18	0.74	316	<1	0.01	12	0.04	22	<5	13	0.06	56	<10	121
L84 +00N –46 +20E		<0.1	1.61	5	357	<1	<2	0.15	0.6	5	30	13	2.80	0.06	14	0.86	254	<1	<0.01	16	0.03	18	<5	22	0.08	71	<10	127
L84 +00N –46 +40E		0.1	1.20	<5	286	<1	<2	0.26	3.1	15	19	13	1.91	0.06	14	0.32	1341	<1	0.01	8	0.05	29	<5	25	0.03	34	<10	112
L84 +00N –46 +60E		0.1	1.50	5	206	<1	<2	0.16	0.9	5	29	13	2.67	0.10	12	0.76	271	<1	0.01	13	0.04	18	<5	16	0.07	63	<10	121
L84 +00N –46 +80E		<0.1	1.37	<5	384	<1	<2	0.12	2.7	7	27	13	2.58	0.15	15	0.66	600	<1	<0.01	13	0.05	19	<5	16	0.08	60	<10	219
L84 +00N –47 +00E		<0.1	1.46	<5	213	<1	<2	0.16	1.2	7	33	14	2.70	0.11	11	0.79	309	<1	0.01	15	0.05	17	6	18	0.07	60	<10	131
L84 +00N –47 +20E		<0.1	1.90	<5	299	<1	<2	0.13	1.6	6	32	17	3.06	0.11	13	0.92	350	<1	0.01	15	0.05	16	<5	17	0.06	64	<10	156
L84 +00N –47 +40E		<0.1	2.00	7	325	<1	<2	0.33	0.6	8	39	18	3.54	0.10	16	1.18	355	<1	0.01	21	0.05	22	<5	27	0.09	79	<10	185
L84 +00N –47 +40E*		<0.1	1.94	5	316	<1	3	0.33	0.6	8	37	18	3.66	0.10	15	1.15	349	<1	0.01	20	0.05	20	<5	26	0.08	77	<10	180
L84 +00N –47 +60E		0.2	1.87	8	302	<1	<2	0.45	1.6	11	31	26	3.06	0.12	21	0.93	788	2	0.02	22	0.07	24	<5	30	0.04	58	11	155
L84 +00N –47 +80E		<0.1	2.80	5	397	<1	3	0.18	2.1	12	46	12	3.79	0.08	20	1.47	904	<1	0.02	14	0.07	30	5	16	0.04	69	<10	215
L84 +00N –48 +00E		0.7	0.97	<5	187	<1	<2	0.18	2.6	4	12	13	3.34	0.07	31	0.19	538	<1	<0.01	11	0.07	30	<5	28	0.01	48	<10	198
L84 +00N –48 +20E		0.1	2.41	7	261	<1	2	0.08	3.8	8	40	20	3.93	0.09	20	1.14	856	<1	0.01	22	0.05	37	9	17	0.06	87	<10	367
L84 +00N –48 +40E		0.4	0.98	45	168	<1	<2	0.05	2.6	5	8	15	2.91	0.09	47	0.13	304	4	<0.01	11	0.06	23	<5	8	0.01	28	<10	139
L84 +00N –48 +60E		0.1	0.95	<5	139	<1	<2	0.08	1.9	3	14	9	2.01	0.06	24	0.19	215	<1	<0.01	6	0.03	33	<5	11	0.03	35	<10	112
L84 +00N –48 +80E		0.2	1.77	7	186	<1	<2	0.06	0.5	6	35	15	2.74	0.09	14	0.91	341	<1	0.02	15	0.04	22	<5	11	0.05	70	<10	108
L84 +00N –49 +00E		0.1	2.40	<5	328	<1	2	0.09	0.6	9	42	20	4.22	0.21	17	1.29	663	<1	0.01	19	0.06	28	10	15	0.07	111	<10	162
L84 +00N –49 +20E		0.1	4.04	11	207	<1	3	0.10	0.3	13	29	23	5.17	0.11	21	2.12	515	<1	0.01	24	0.05	24	6	11	0.06	109	<10	174
L84 +00N –49 +20E*		0.1	3.97	9	202	<1	<2	0.10	0.3	13	29	23	5.04	0.11	20	2.08	508	<1	0.01	25	0.05	23	8	11	0.05	107	<10	170

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE 105G
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

Geol.: R STROSHEIN
Lab Project No.: P1430
Date Received: JULY 16, 1991
Date Completed: AUG 7, 1991
Page 4 of 7
Attn: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L84+00N-49+40E		0.1	2.26	<5	188	<1	<2	0.03	0.2	6	25	18	3.38	0.14	25	1.28	390	<1	<0.01	17	0.05	27	<5	8	0.09	76	<10	121
L84+00N-49+60E		0.3	3.29	11	271	<1	<2	0.07	0.5	14	79	30	4.99	0.16	10	1.95	671	1	0.01	31	0.06	15	<5	12	0.08	132	<10	172
L84+00N-49+80E		0.2	6.16	10	736	1	<2	0.27	<0.1	20	105	20	5.98	0.61	13	2.62	1364	<1	0.03	24	0.07	14	7	24	0.14	89	<10	151
L84+00N-50+00E		0.5	1.52	<5	193	<1	<2	0.05	0.9	10	38	31	2.53	0.07	11	0.34	2573	4	<0.01	17	0.09	14	<5	12	0.01	58	<10	64
L85+00N-40+80E		<0.1	2.29	<5	141	<1	3	0.38	0.3	20	104	35	3.05	0.20	10	1.47	440	<1	0.03	58	0.06	12	<5	19	0.21	102	<10	90
L85+00N-41+00E		<0.1	1.19	<5	72	<1	2	0.28	0.4	9	56	17	1.89	0.05	5	0.75	186	<1	0.02	28	0.03	9	<5	17	0.12	55	<10	66
L85+00N-41+20E		<0.1	2.37	<5	127	<1	<2	0.50	<0.1	14	89	31	3.03	0.09	7	1.58	277	<1	0.03	49	0.04	12	<5	24	0.16	88	<10	85
00N-41+40E		<0.1	1.67	<5	171	<1	3	0.65	0.4	9	68	48	2.04	0.04	9	0.98	138	<1	0.02	37	0.06	9	5	32	0.07	52	<10	55
..00N-41+60E		<0.1	2.71	<5	118	<1	3	0.29	0.3	16	119	33	3.90	0.15	7	2.20	215	<1	0.02	72	0.04	10	11	18	0.21	123	<10	92
STD-P1		0.2	1.08	21	192	<1	<2	0.86	0.3	5	102	24	2.07	0.35	6	0.77	537	43	0.08	28	0.07	47	8	87	0.11	34	<10	133
L85+00N-41+80E		<0.1	2.72	9	85	<1	<2	0.35	0.5	18	108	19	3.55	0.05	4	2.08	215	<1	0.03	69	0.05	2	<5	26	0.24	118	<10	161
L85+00N-42+00E		<0.1	1.39	<5	286	<1	<2	0.23	0.5	7	52	29	1.70	0.11	6	0.85	315	<1	0.02	21	0.03	13	<5	13	0.12	59	<10	70
L85+00N-42+40E		<0.1	1.35	<5	163	<1	<2	0.18	0.4	6	45	7	2.21	0.09	6	0.79	176	<1	<0.01	22	0.03	5	<5	14	0.04	47	<10	54
L85+00N-42+60E		<0.1	2.60	10	192	<1	<2	0.19	1.2	21	106	79	3.17	0.02	12	2.16	513	2	<0.01	60	0.06	9	5	17	0.14	79	<10	93
L85+00N-42+80E		0.4	2.01	9	292	<1	<2	0.23	0.6	8	51	21	2.98	0.13	12	1.23	305	3	0.01	20	0.03	20	<5	18	0.12	86	<10	118
L85+00N-43+00E		0.6	1.57	<5	318	<1	<2	0.55	1.5	10	34	51	2.13	0.08	11	0.77	360	3	0.02	24	0.06	16	<5	31	0.05	41	<10	125
L85+00N-43+20E		0.3	0.63	<5	129	<1	<2	0.21	0.3	2	28	9	1.00	0.03	3	0.34	88	2	0.01	10	0.03	5	<5	14	0.03	23	<10	50
L85+00N-43+40E		0.7	3.15	7	318	<1	<2	0.26	0.7	15	53	54	3.97	0.13	19	1.60	509	3	0.02	43	0.06	29	<5	20	0.10	87	<10	285
L85+00N-43+60E		0.3	2.16	<5	288	<1	<2	0.33	0.4	7	36	13	3.07	0.15	13	1.14	268	1	0.01	17	0.05	15	<5	24	0.08	66	<10	147
STD-P1		0.2	1.06	22	195	<1	<2	0.86	0.3	5	103	22	2.22	0.32	5	0.77	557	50	0.07	28	0.07	42	<5	84	0.11	32	<10	142
L85+00N-43+80E		0.4	2.42	13	300	<1	<2	0.39	0.4	9	51	21	3.26	0.16	20	1.49	335	5	0.02	24	0.06	18	<5	25	0.10	80	<10	140
L85+00N-44+00E		0.2	2.59	7	280	<1	<2	0.22	0.3	11	37	19	3.06	0.10	37	1.32	351	2	0.02	20	0.05	19	<5	20	0.09	65	<10	128
L85+00N-44+20E		0.1	2.79	17	267	<1	<2	0.19	0.3	11	42	16	3.84	0.11	22	1.53	429	5	0.02	22	0.04	31	<5	18	0.10	88	<10	190
L85+00N-44+40E		0.2	1.50	6	152	<1	<2	0.11	0.3	5	27	9	2.37	0.09	17	0.85	186	3	0.01	12	0.03	19	<5	14	0.09	52	<10	71
L85+00N-44+60E		<0.1	0.83	<5	179	<1	<2	0.08	0.4	3	22	9	1.75	0.08	12	0.40	148	2	0.01	8	0.03	16	<5	13	0.09	45	<10	54
L85+00N-44+80E		<0.1	1.78	11	322	<1	<2	0.24	0.4	7	38	15	3.20	0.11	16	1.01	281	6	0.01	18	0.04	19	<5	29	0.11	77	<10	108
L85+00N-45+00E		<0.1	2.06	11	382	<1	<2	0.09	1.6	10	36	19	3.47	0.11	18	1.18	724	4	0.02	21	0.05	16	<5	15	0.08	76	<10	157
L85+00N-45+20E		0.1	2.12	8	475	<1	<2	0.20	0.8	8	40	19	3.16	0.14	18	1.23	337	2	0.02	23	0.04	18	<5	29	0.09	76	<10	146
L85+00N-45+40E		0.1	1.07	<5	288	<1	<2	0.12	1.2	5	22	9	2.31	0.09	12	0.47	371	5	<0.01	9	0.04	20	<5	16	0.05	57	<10	100
..+00N-45+40E*		0.1	1.01	<5	274	<1	<2	0.11	1.1	5	22	9	2.21	0.08	11	0.44	348	2	<0.01	8	0.04	19	<5	15	0.05	54	<10	95
L85+00N-45+60E		0.1	2.22	<5	320	<1	<2	0.13	0.4	10	33	16	3.21	0.10	18	1.15	473	<1	0.01	17	0.04	20	<5	18	0.09	72	<10	184
L85+00N-45+80E		<0.1	2.80	8	364	<1	6	0.16	0.5	10	45	21	3.82	0.11	18	1.51	378	3	0.02	25	0.04	22	<5	21	0.12	92	<10	208
L85+00N-46+00E		0.2	2.47	9	334	<1	6	0.10	1.0	12	33	17	3.52	0.13	17	1.22	809	<1	0.02	18	0.05	17	<5	15	0.09	79	<10	172
L85+00N-46+20E		0.2	2.20	7	395	<1	5	0.18	1.5	9	25	18	3.35	0.11	34	0.84	557	4	0.01	14	0.06	28	9	27	0.06	71	<10	125
L85+00N-46+40E		0.1	2.37	7	330	<1	5	0.15	2.7	12	30	16	3.92	0.15	15	1.14	589	<1	0.02	17	0.06	24	<5	17	0.10	83	<10	325
L85+00N-46+60E		<0.1	2.61	6	395	<1	4	0.10	1.5	11	32	19	4.03	0.18	19	1.47	560	3	0.01	21	0.04	27	7	17	0.11	88	<10	233
L85+00N-46+80E		0.2	1.10	<5	173	<1	3	0.07	0.9	3	22	9	1.41	0.05	9	0.35	141	2	0.01	7	0.05	16	5	12	0.02	31	<10	54
L85+00N-47+00E		0.3	2.28	8	307	<1	5	0.18	0.8	9	34	18	3.07	0.23	17	1.16	357	<1	0.02	21	0.06	26	<5	19	0.07	67	<10	152
L85+00N-47+20E		0.3	2.80	9	344	<1	3	0.16	1.4	9	46	19	3.81	0.12	18	1.42	476	2	0.02	21	0.06	24	5	21	0.09	94	<10	292
L85+00N-47+20E*		0.3	2.86	7	349	<1	5	0.16	1.4	9	47	19	3.91	0.13	18	1.45	491	<1	0.02	23	0.06	24	<5	21	0.09	96	<10	298
L85+00N-47+40E		0.1	2.32	9	292	<1	3	0.12	0.9	8	36	18	3.03	0.11	16	1.09	461	<1	0.02	16	0.05	22	<5	16	0.06	69	<10	163
L85+00N-47+60E		0.2	2.24	7	255	<1	<2	0.09	0.8	6	37	18	3.21	0.10	16	1.06	310	3	0.01	18	0.06	21	<5	15	0.05	78	<10	133
L85+00N-47+80E		0.2	2.69	11	385	<1	5	0.17	1.4	9	42	18	3.75	0.17	16	1.32	445	<1	0.02	21	0.07	19	<5	20	0.11	88	<10	185
L85+00N-48+00E		0.1	2.95	5	312	<1	<2	0.15	1.1	11	45	16	4.20	0.10	16	1.60	641	2	0.01	19	0.06	20	<5	19	0.08	107	<10	215
L85+00N-48+20E		<0.1	3.11	7	337	<1	3	0.13	0.7	12	43	21	4.48	0.19	20	1.79	474	<1	0.01	26	0.06	18	<5	14	0.12	105	<10	270
L85+00N-48+40E		<0.1	3.18	9	490	<1	4	0.41	0.6	14	32	23	4.43	0.15	15	1.92	880	2	0.02	20	0.07	18	<5	28	0.08	101	<10	183
L85+00N-48+60E		0.3	1.96	10	316	<1	5	0.59	0.6	7	31	15	2.33	0.09	21	1.01	461	4	0.04	14	0.10	13	<5	38	0.04	56	<10	134
L85+00N-48+80E		<0.1	2.87	12	499	<1	2	0.18	0.8	11	46	25	4.33	0.34	16	1.82	553	3	0.02	21	0.08	18	5	22	0.07	109	<10	188
L85+00N-49+00E		0.1	3.42	16	527	<1	<2	1.73	2.3	12	23	22	4.06	0.10	17	2.04	590	2	0.05	14	0.15	6	<5	78	0.07	109	<10	214
L85+00N-49+00E*		0.1	3.40	16	519	<1	<2	1.72	2.3	12	23	22	4.05	0.10	17	2.03	591	4	0.05	14	0.15	6	<5	78	0.07	108	<10	215

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE 105G
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

Geol.: R STROSHEIN
Lab Project No.: P1430
Date Received: JULY 16, 1991
Date Completed: AUG 7, 1991

Attn: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Tl %	V ppm	W ppm	Zn ppm
L85+00N-49+20E		0.2	3.29	8	620	<1	<2	0.87	1.4	15	10	21	4.43	0.21	20	2.04	1166	3	0.03	9	0.16	18	7	43	0.06	111	<10	208
L85+00N-49+40E		0.1	2.41	11	239	<1	2	0.96	2.2	14	3	20	3.95	0.14	23	1.36	1495	7	0.02	7	0.19	7	<5	45	0.03	89	<10	171
L85+00N-49+60E		0.8	1.48	7	448	2	<2	0.08	2.3	12	32	60	5.47	0.05	31	0.13	663	9	<0.01	70	0.23	97	6	20	<0.01	80	<10	333
L85+00N-49+80E		2.0	1.86	<5	187	<1	<2	0.02	0.7	9	28	41	4.20	0.06	21	0.42	2005	5	<0.01	32	0.18	39	<5	9	<0.01	72	<10	183
L85+00N-50+00E		0.3	3.63	9	244	1	3	0.05	0.4	7	80	40	4.12	0.18	18	1.80	509	6	<0.01	47	0.06	29	5	7	0.06	130	<10	214
L86+00N-40+60E		<0.1	2.33	<5	154	<1	4	0.67	0.2	12	86	22	3.08	0.11	10	1.57	302	<1	0.03	41	0.05	13	8	27	0.20	102	<10	108
L86+00N-40+80E		<0.1	4.88	5	148	<1	<2	1.25	0.1	23	150	35	5.50	0.05	7	2.86	381	<1	0.10	81	0.10	3	6	48	0.41	229	<10	122
L86+00N-41+00E		0.1	1.72	<5	131	<1	3	0.63	0.4	10	74	33	2.49	0.04	8	0.80	389	<1	0.02	28	0.04	9	<5	31	0.16	79	<10	52
L86+00N-41+20E		<0.1	1.88	6	94	<1	<2	0.46	0.2	14	107	20	3.19	0.14	7	1.10	174	<1	0.03	47	0.04	5	6	18	0.33	125	<10	60
L86+00N-41+20E*		<0.1	1.77	<5	88	<1	<2	0.43	0.2	13	103	18	3.03	0.13	7	1.04	161	<1	0.03	45	0.03	2	<5	17	0.32	119	<10	59
L86+00N-41+40E		<0.1	2.25	8	89	<1	<2	0.25	0.2	15	106	23	3.41	0.06	10	1.54	191	1	0.02	54	0.05	10	<5	19	0.21	108	11	106
L86+00N-41+60E		<0.1	1.73	9	103	<1	<2	0.59	0.3	21	161	11	2.94	0.31	3	1.44	166	<1	0.02	88	0.06	<2	<5	27	0.34	95	<10	114
L86+00N-41+80E		0.1	2.23	14	111	<1	<2	0.75	1.1	21	104	120	2.73	0.04	8	1.47	459	2	0.06	65	0.04	57	<5	42	0.15	68	<10	203
L86+00N-42+20E		<0.1	2.16	<5	146	<1	<2	0.48	0.4	14	75	50	2.85	0.06	12	1.63	369	<1	0.02	46	0.03	7	<5	22	0.12	68	<10	92
L86+00N-42+40E		0.2	2.52	10	230	<1	<2	0.71	0.4	18	99	110	3.17	0.05	15	1.86	407	2	0.02	66	0.05	14	6	30	0.13	81	<10	93
L86+00N-42+60E		0.1	2.24	9	188	<1	<2	0.22	0.5	14	53	79	3.58	0.07	11	1.01	581	<1	0.02	45	0.04	21	<5	14	0.13	83	<10	153
L86+00N-42+80E		<0.1	2.23	<5	199	<1	<2	0.21	0.5	10	66	22	3.33	0.10	11	1.52	310	7	0.02	32	0.06	18	<5	18	0.11	97	<10	147
L86+00N-43+00E		0.6	1.70	<5	260	<1	<2	0.16	3.2	8	44	57	2.60	0.09	11	0.72	229	6	0.01	27	0.04	22	<5	18	0.07	68	<10	155
L86+00N-43+20E		0.1	1.71	14	152	<1	3	0.17	0.8	9	61	18	2.61	0.06	10	1.16	256	7	0.02	30	0.03	17	<5	12	0.13	78	<10	147
STD-P1		0.2	1.06	22	198	<1	<2	0.89	0.5	6	101	24	2.12	0.33	7	0.80	561	41	0.07	28	0.07	55	6	86	0.11	33	<10	140
L86+00N-43+40E		<0.1	1.89	<5	231	<1	3	0.12	0.5	7	64	18	2.94	0.12	12	1.22	304	3	0.02	21	0.04	18	<5	12	0.08	95	<10	110
L86+00N-43+60E		0.1	1.92	<5	304	<1	4	0.13	0.8	8	48	14	3.10	0.19	14	1.24	342	4	0.02	18	0.04	21	<5	13	0.11	86	<10	147
L86+00N-43+80E		<0.1	1.20	<5	471	<1	5	0.17	1.1	6	32	11	2.11	0.20	13	0.87	252	<1	0.01	12	0.05	19	<5	23	0.08	52	<10	101
L86+00N-44+00E		<0.1	1.53	<5	345	<1	4	0.15	0.7	6	32	13	2.21	0.11	16	0.80	251	2	0.02	12	0.05	17	<5	21	0.07	54	<10	97
L86+00N-44+20E		0.1	2.00	<5	464	<1	5	0.20	1.0	7	44	18	2.90	0.11	23	1.10	318	<1	0.02	21	0.06	18	8	24	0.06	70	<10	115
L86+00N-44+40E		0.2	2.29	<5	379	<1	3	0.35	1.0	17	39	17	3.42	0.10	27	1.12	853	<1	0.02	18	0.06	25	<5	23	0.08	73	<10	162
L86+00N-44+60E		<0.1	2.39	6	479	<1	7	0.24	2.5	20	61	20	3.51	0.13	33	1.17	1309	<1	0.02	22	0.06	34	7	24	0.09	81	<10	192
L86+00N-44+80E		<0.1	0.91	<5	292	<1	5	0.16	1.1	5	20	14	1.95	0.10	17	0.36	196	<1	0.01	7	0.04	20	<5	22	0.06	43	<10	78
L86+00N-45+00E		<0.1	1.52	<5	316	<1	5	0.17	1.1	8	21	16	2.87	0.07	44	0.64	399	<1	0.02	11	0.05	28	<5	22	0.06	46	<10	131
L86+00N-45+00E*		<0.1	1.50	<5	312	<1	5	0.16	1.1	8	21	15	2.84	0.07	43	0.63	397	5	0.02	11	0.05	29	<5	22	0.06	46	<10	131
L86+00N-45+20E		0.1	1.52	8	378	<1	<2	0.66	0.7	7	23	20	2.77	0.18	35	0.73	339	<1	0.01	14	0.06	13	<5	35	0.06	51	<10	113
L86+00N-45+40E		3.4	0.96	7	259	<1	<2	0.50	0.7	4	22	26	1.58	0.06	17	0.30	161	<1	0.05	12	0.04	18	<5	27	0.04	30	<10	93
L86+00N-45+60E		0.1	1.70	<5	379	<1	3	0.25	1.1	7	22	12	2.62	0.07	14	0.75	351	<1	0.02	10	0.04	15	<5	25	0.09	52	<10	147
L86+00N-45+80E		0.1	1.72	<5	266	<1	<2	0.14	0.5	6	28	15	2.73	0.08	16	0.80	247	2	0.01	15	0.04	19	<5	20	0.05	62	<10	113
L86+00N-46+00E		<0.1	1.12	<5	217	<1	<2	0.07	0.2	4	21	11	2.11	0.06	13	0.49	171	<1	0.01	10	0.03	15	<5	12	0.08	50	<10	69
L86+00N-46+20E		0.1	0.95	<5	203	<1	2	0.06	0.9	3	21	12	1.88	0.07	14	0.37	243	<1	0.01	8	0.04	20	<5	9	0.04	43	<10	85
L86+00N-46+40E		<0.1	2.18	<5	219	<1	4	0.13	0.6	7	38	18	3.14	0.12	17	1.01	291	<1	0.01	20	0.05	19	<5	17	0.09	73	<10	124
L86+00N-46+60E		0.3	1.92	<5	237	<1	4	0.07	0.9	6	36	18	2.92	0.08	16	1.04	256	1	0.01	19	0.05	19	<5	15	0.05	69	<10	144
L86+00N-46+80E		0.1	2.74	8	411	<1	4	0.18	0.8	12	53	25	4.06	0.20	18	1.58	850	<1	0.02	29	0.07	22	<5	19	0.10	105	<10	181
L86+00N-46+80E*		0.1	2.72	9	412	<1	2	0.18	0.8	12	53	24	4.06	0.20	18	1.57	854	<1	0.02	29	0.07	22	7	19	0.09	104	<10	180
L86+00N-47+00E		0.1	2.47	25	208	<1	<2	0.06	<0.1	8	46	22	4.07	0.12	16	1.36	495	3	0.02	23	0.06	29	<5	10	0.13	104	<10	149
L86+00N-47+20E		0.2	3.45	24	479	<1	<2	0.15	0.2	11	38	20	4.25	0.46	16	1.76	441	1	0.02	24	0.06	30	9	18	0.12	93	<10	155
L86+00N-47+40E		0.3	2.80	22	337	<1	<2	0.11	0.2	8	52	23	3.72	0.19	15	1.39	469	2	0.02	24	0.06	27	6	14	0.08	95	<10	138
L86+00N-47+60E		0.2	3.14	30	373	<1	<2	0.09	<0.1	9	59	25	4.11	0.22	16	1.73	493	<1	0.02	31	0.05	30	6	16	0.10	106	<10	166
L86+00N-47+80E		0.3	3.65	36	400	1	<2	0.10	0.2	10	43	33	5.20	0.28	17	1.98	500	1	0.01	25	0.07	29	<5	13	0.07	111	<10	158
L86+00N-48+00E		0.2	3.15	38	385	<1	<2	0.13	0.8	10	48	31	4.58	0.19	19	1.92	578	1	0.02	32	0.06	30	8	17	0.09	119	<10	243
L86+00N-48+20E		0.3	2.91	28	394	<1	<2	0.11	1.2	8	58	27	3.80	0.18	16	1.39	627	4	0.02	29	0.06	39	8	19	0.08	113	<10	183
L86+00N-48+40E		0.3	3.58	33	345	<1	<2	0.07	0.8	13	68	29	4.17	0.19	16	1.66	876	5	0.02	31	0.06	42	<5	17	0.07	125	<10	211
L86+00N-48+60E		0.2	3.21	25	365	<1	<2	0.11	0.2	9	59	24	4.03	0.23	14	1.38	450	2	0.01	30	0.05	31	<5	15	0.10	92	<10	179
L86+00N-48+60E*		0.2	3.21	31	367	<1	<2	0.11	0.2	9	58	24	4.05	0.23	14	1.68	448	3	0.01	29	0.05	29	10	15	0.10	90	<10	180

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE 105G
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

Geol.: R STROSHEIN
Lab Project No.: P1430
Date Received: JULY 16, 1991
Date Completed: AUG 7, 1991
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Attn: R STROSHEIN, J KOWALCHUK, E KIMURA, R HODGSON

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L86 +00N –48 +80E		0.3	3.46	19	540	<1	<2	0.20	0.5	11	58	33	3.87	0.34	16	1.74	485	3	0.02	32	0.09	33	9	20	0.08	102	15	187
L86 +00N –49 +00E		0.3	2.80	23	375	<1	2	0.11	0.8	8	50	24	3.73	0.21	12	1.35	419	<1	0.01	26	0.07	29	9	16	0.05	87	<10	174
L86 +00N –49 +20E		0.3	2.08	14	332	<1	<2	0.08	1.8	8	42	26	3.40	0.13	10	0.93	671	3	0.01	19	0.08	26	10	12	0.02	84	<10	132
L86 +00N –49 +40E		0.6	3.69	10	276	1	<2	0.10	1.0	14	68	62	5.11	0.09	14	1.82	1047	5	0.01	51	0.08	37	22	15	0.06	129	<10	333
L86 +00N –49 +60E		0.3	2.50	16	313	<1	<2	0.08	0.8	10	28	19	3.01	0.07	10	0.92	875	5	0.02	12	0.10	19	6	11	0.02	53	<10	114
L86 +00N –49 +80E		0.2	2.65	18	250	<1	2	0.04	<0.1	11	46	17	4.71	0.16	7	1.71	660	<1	<0.01	18	0.06	15	12	8	0.08	108	<10	131
L86 +00N –50 +00E		0.4	3.19	21	427	<1	<2	0.12	0.5	19	7	16	4.18	0.10	7	1.03	5893	<1	0.01	7	0.12	23	7	20	0.02	54	<10	156
00N –40 +60E		<0.1	2.51	19	147	<1	<2	0.46	<0.1	17	84	28	3.68	0.12	7	1.69	297	4	0.02	50	0.05	20	6	18	0.17	101	<10	98
...00N –40 +80E		0.1	2.01	19	118	<1	<2	0.49	<0.1	10	62	17	3.12	0.09	5	1.38	294	4	0.02	31	0.03	11	9	23	0.16	93	<10	105
L87 +00N –40 +80E*		0.1	1.97	16	114	<1	<2	0.48	<0.1	10	61	16	3.07	0.09	5	1.36	288	4	0.02	30	0.03	13	10	22	0.15	92	<10	102
L87 +00N –41 +00E		<0.1	1.95	10	114	1	<2	0.34	0.1	11	65	30	2.89	0.07	8	1.26	251	4	0.01	38	0.05	18	<5	17	0.12	70	<10	113
L87 +00N –41 +20E		<0.1	2.92	15	124	1	<2	0.54	0.1	18	116	33	3.65	0.05	7	1.71	321	1	0.02	67	0.08	16	15	27	0.15	85	<10	120
L87 +00N –41 +40E		0.1	2.57	15	81	1	<2	0.22	<0.1	16	101	40	3.71	0.04	6	1.48	260	2	0.01	67	0.05	14	14	14	0.16	98	<10	164
L87 +00N –41 +60E		0.2	2.43	13	151	1	<2	0.88	0.1	16	105	80	2.80	0.05	7	1.60	383	3	0.03	68	0.10	18	10	47	0.08	68	<10	271
L87 +00N –42 +00E		0.4	2.08	10	251	1	<2	0.75	0.2	18	64	99	2.87	0.05	5	1.20	705	4	0.01	46	0.06	41	7	32	0.08	70	<10	258
L87 +00N –42 +20E		0.2	1.27	7	252	1	<2	0.63	0.1	7	41	37	1.85	0.04	6	0.65	151	2	0.01	22	0.06	17	<5	27	0.07	45	<10	86
L87 +00N –42 +40E		<0.1	2.25	17	202	1	<2	0.37	<0.1	22	53	43	3.71	0.08	7	1.34	460	2	0.01	69	0.07	36	14	26	0.09	70	<10	193
L87 +00N –42 +60E		0.1	0.84	<5	120	<1	<2	0.18	0.4	7	17	21	1.35	0.05	5	0.54	113	1	0.01	22	0.04	16	8	9	0.07	32	<10	66
L87 +00N –42 +80E		0.1	2.70	7	437	1	<2	0.25	<0.1	12	22	18	3.85	0.20	7	1.65	372	4	0.01	35	0.07	17	10	14	0.10	84	<10	181
STD–P1		0.3	0.98	17	197	1	<2	0.82	<0.1	5	96	20	1.96	0.19	6	0.75	527	44	0.05	28	0.09	43	14	76	0.09	30	<10	141
L87 +00N –43 +00E		0.2	3.18	15	381	<1	2	0.34	0.2	12	62	28	3.94	0.16	16	1.84	405	6	0.03	30	0.06	32	<5	24	0.10	114	16	165
L87 +00N –43 +20E		<0.1	3.55	11	485	<1	<2	0.27	<0.1	14	34	21	4.47	0.42	18	1.79	407	6	0.02	20	0.09	33	9	22	0.11	84	<10	143
L87 +00N –43 +40E		0.2	2.44	11	236	<1	2	0.15	0.4	10	26	13	3.49	0.10	14	1.12	412	2	0.01	14	0.05	25	<5	15	0.08	69	<10	210
L87 +00N –43 +60E		0.1	2.34	5	256	<1	<2	0.31	0.2	8	27	15	3.32	0.19	14	1.09	285	2	0.02	16	0.06	20	<5	22	0.09	60	<10	105
L87 +00N –43 +80E		<0.1	2.36	12	270	<1	<2	0.16	0.2	9	45	19	3.68	0.12	15	1.28	367	4	0.02	26	0.04	22	7	16	0.09	81	<10	116
L87 +00N –44 +00E		<0.1	2.45	11	270	<1	<2	0.16	0.2	10	51	12	3.59	0.11	13	1.41	377	3	0.01	21	0.04	21	<5	18	0.12	87	<10	240
L87 +00N –44 +20E		<0.1	1.80	8	277	<1	<2	0.11	1.2	7	26	9	2.59	0.09	13	0.83	340	4	0.02	12	0.03	19	<5	14	0.09	51	<10	173
L87 +00N –44 +40E		<0.1	1.77	8	198	<1	<2	0.13	0.4	8	27	11	3.05	0.10	12	0.82	460	2	0.01	14	0.04	19	<5	15	0.09	63	<10	124
L87 +00N –44 +60E		<0.1	2.11	9	345	<1	<2	0.25	0.1	9	26	13	3.37	0.24	19	1.16	332	3	0.02	17	0.04	19	<5	34	0.10	60	<10	111
...+00N –44 +60E*		<0.1	2.14	11	349	<1	<2	0.26	0.1	9	24	14	3.41	0.24	19	1.18	333	2	0.02	16	0.04	17	<5	35	0.10	61	<10	113
...7 +00N –44 +80E		0.2	2.28	18	296	<1	2	0.18	0.3	10	26	21	3.64	0.15	20	1.08	483	<1	0.01	17	0.04	27	6	20	0.12	70	11	147
L87 +00N –45 +00E		0.1	2.31	20	330	<1	<2	0.20	0.2	9	39	21	3.55	0.19	14	1.28	352	<1	0.02	22	0.05	20	11	23	0.11	78	<10	131
L87 +00N –45 +20E		<0.1	3.53	19	415	<1	2	0.26	<0.1	13	25	20	4.38	0.36	17	1.72	448	1	0.03	17	0.04	21	<5	21	0.16	79	<10	106
L87 +00N –45 +40E		0.1	2.84	20	300	<1	<2	0.21	<0.1	8	41	18	3.26	0.16	19	1.26	291	<1	0.02	24	0.05	23	6	21	0.09	67	<10	112
L87 +00N –45 +60E		<0.1	3.11	19	504	<1	<2	0.27	<0.1	14	29	17	4.11	0.46	16	1.60	430	2	0.02	17	0.05	19	6	24	0.15	64	<10	122
L87 +00N –45 +80E		0.1	2.68	16	457	<1	<2	0.34	<0.1	11	46	23	3.52	0.33	26	1.54	417	2	0.02	27	0.07	20	8	26	0.11	73	<10	127
L87 +00N –46 +00E		<0.1	2.47	17	439	<1	3	0.19	0.3	9	47	24	3.39	0.28	29	1.40	390	3	0.01	28	0.06	22	<5	18	0.08	74	<10	142
L87 +00N –46 +20E		0.1	2.75	23	409	<1	<2	0.23	0.5	9	53	25	3.59	0.23	17	1.40	391	<1	0.02	29	0.09	24	6	22	0.08	80	<10	137
L87 +00N –46 +40E		<0.1	2.69	23	315	<1	<2	0.11	0.4	9	43	20	4.07	0.11	18	1.29	389	3	0.01	24	0.06	27	8	13	0.06	80	<10	176
L87 +00N –46 +40E*		<0.1	2.59	20	306	<1	2	0.11	0.4	8	42	19	3.93	0.10	17	1.24	374	2	0.01	23	0.06	25	<5	13	0.06	77	<10	170
L87 +00N –46 +60E		0.1	2.43	7	311	<1	2	0.09	0.6	8	44	27	3.76	0.12	18	1.25	449	<1	0.01	22	0.06	21	10	17	0.07	85	11	205
L87 +00N –46 +80E		0.1	2.80	<5	293	<1	<2	0.09	0.3	7	47	21	3.72	0.09	15	1.32	334	<1	0.01	22	0.05	26	7	14	0.10	94	<10	119
L87 +00N –47 +00E		<0.1	2.43	<5	205	<1	<2	0.07	<0.1	7	45	22	3.92	0.12	16	1.33	475	<1	0.01	22	0.06	26	<5	11	0.13	100	<10	146
L87 +00N –47 +20E		0.1	3.77	11	522	<1	3	0.18	<0.1	11	40	24	4.52	0.50	19	1.93	471	1	0.02	26	0.06	27	<5	21	0.13	100	<10	170
L87 +00N –47 +40E		0.2	2.91	10	351	<1	<2	0.12	0.2	8	54	25	3.79	0.20	16	1.44	472	<1	0.02	26	0.06	21	6	15	0.08	97	<10	144
L87 +00N –47 +60E		<0.1	3.29	<5	389	<1	<2	0.10	0.1	10	62	27	4.19	0.23	17	1.82	509	9	0.02	32	0.05	22	7	16	0.10	108	<10	173
L87 +00N –47 +80E		0.2	3.72	16	411	1	<2	0.10	0.2	10	44	35	5.23	0.28	18	2.01	498	<1	0.01	26	0.07	23	9	13	0.07	110	<10	167
L87 +00N –48 +00E		<0.1	3.26	10	401	<1	<2	0.13	0.7	11	49	34	4.65	0.19	20	1.99	586	4	0.01	34	0.06	26	11	18	0.09	121	<10	248
L87 +00N –48 +20E		0.2	2.97	<5	404	<1	<2	0.11	1.3	9	59	29	3.80	0.18	16	1.40	651	5	0.01	29	0.06	33	5	19	0.06	114	<10	186
L87 +00N –48 +20E*		0.3	2.90	9	396	<1	<2	0.10	1.3	8	58	29	3.71	0.17	16	1.38	612	5	0.01	29	0.06	32	7	19	0.06	110	<10	181

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE 105G
Geol.: R STROSHEIN
Lab Project No.: P1430
Date Received: JULY 16, 1991
Date Completed: AUG 7, 1991

Attn: R STROSHEIN, J KOWALCHUK, E KIMURA, R HODGSON

Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L87 +00N –48 +40E		0.2	3.76	20	364	1	3	0.08	0.7	14	69	38	4.28	0.19	18	1.73	905	4	0.02	34	0.07	39	<5	18	0.07	131	13	221
L87 +00N –48 +60E		<0.1	3.30	15	379	<1	<2	0.12	0.3	10	60	28	4.06	0.23	15	1.72	455	<1	0.01	30	0.05	30	<5	16	0.10	92	<10	183
L87 +00N –48 +80E		0.2	3.34	19	585	<1	<2	0.13	0.5	15	67	36	4.60	0.48	17	1.94	703	2	0.02	42	0.07	30	<5	19	0.10	105	<10	234
L87 +00N –49 +00E		0.7	5.05	20	592	1	4	0.14	0.3	8	63	79	5.30	0.55	35	2.70	598	8	0.03	43	0.10	34	8	38	0.11	130	<10	284
L87 +00N –49 +20E		0.2	4.19	25	396	<1	2	0.12	0.6	14	47	31	4.88	0.14	14	2.22	977	<1	<0.01	19	0.07	36	12	14	0.08	160	<10	167
L87 +00N –49 +40E		1.4	5.10	76	756	1	<2	0.24	0.1	13	54	38	5.45	0.34	31	2.52	693	<1	0.03	22	0.07	27	10	26	0.13	123	<10	184
L87 +00N –49 +60E		0.3	3.88	30	526	<1	<2	0.16	0.3	14	109	21	4.18	0.28	13	2.15	664	<1	0.01	32	0.05	28	<5	15	0.14	96	<10	151
L87 +00N –49 +80E		0.2	4.38	26	644	<1	<2	0.18	<0.1	21	39	20	5.59	0.40	26	2.73	1175	<1	0.02	19	0.06	23	<5	13	0.15	129	<10	138
L87 +00N –50 +00E		0.2	3.43	13	442	<1	2	0.14	0.1	9	68	24	3.93	0.19	11	1.54	507	<1	0.01	25	0.07	28	7	16	0.07	86	<10	151
L87 +00N –50 +00E*		0.2	3.35	19	431	<1	4	0.13	0.1	9	67	24	3.85	0.19	11	1.51	500	<1	0.01	24	0.07	27	<5	16	0.07	84	<10	147
L88 +00N –44 +80E		<0.1	2.04	13	269	<1	<2	0.18	0.2	8	43	47	3.27	0.11	15	1.18	344	4	0.01	24	0.04	18	<5	22	0.10	79	13	125
L88 +00N –45 +00E		0.3	2.33	<5	258	<1	<2	0.20	0.2	7	21	18	2.88	0.09	17	0.97	290	3	0.02	11	0.06	21	<5	19	0.06	66	<10	103
L88 +00N –45 +20E		0.2	2.16	12	300	<1	<2	0.16	0.1	7	48	21	3.26	0.12	15	1.26	359	3	0.01	24	0.05	20	<5	20	0.06	82	<10	150
L88 +00N –45 +40E		0.2	2.31	11	267	<1	<2	0.16	0.2	8	47	20	3.71	0.14	16	1.37	400	3	0.01	25	0.05	22	6	22	0.08	89	<10	153
L88 +00N –45 +60E		<0.1	1.70	6	261	<1	<2	0.16	0.5	6	39	17	2.88	0.12	14	0.93	281	4	<0.01	20	0.05	19	<5	19	0.06	66	<10	185
L88 +00N –45 +80E		0.1	1.48	7	169	<1	<2	0.06	0.4	5	32	18	2.53	0.08	13	0.68	270	3	<0.01	15	0.04	17	<5	13	0.07	69	<10	118
L88 +00N –46 +00E		0.1	1.90	8	141	<1	<2	0.07	0.2	6	19	23	3.48	0.11	19	0.69	295	2	<0.01	15	0.05	24	7	13	0.07	55	<10	102
L88 +00N –46 +20E		0.1	1.72	11	468	<1	<2	0.26	1.5	6	27	20	3.28	0.11	35	0.77	399	2	0.01	18	0.05	26	<5	28	0.07	66	<10	193
L88 +00N –46 +40E		0.2	2.54	8	445	<1	<2	0.16	1.8	12	36	22	3.56	0.12	46	1.01	1105	5	0.01	21	0.07	40	5	19	0.04	72	<10	205
STD –P1		0.2	0.99	22	186	<1	<2	0.84	0.3	5	100	23	2.14	0.33	6	0.79	562	50	0.06	29	0.08	50	9	78	0.10	33	<10	148
L88 +00N –46 +60E		0.2	2.50	8	294	<1	<2	0.10	0.5	7	32	24	4.32	0.09	18	1.17	486	2	<0.01	22	0.06	19	<5	14	0.06	99	<10	161
L88 +00N –46 +80E		1.3	1.84	<5	328	<1	<2	0.09	2.1	17	19	18	1.61	0.03	12	0.29	2070	2	<0.01	10	0.12	26	<5	14	0.01	32	<10	67
L88 +00N –47 +00E		0.2	2.34	<5	379	<1	<2	0.08	1.2	7	35	17	3.55	0.14	15	1.13	742	4	<0.01	15	0.06	20	<5	13	0.05	91	<10	145
L88 +00N –47 +20E		0.3	2.70	12	370	<1	<2	0.14	0.6	9	50	21	4.08	0.26	12	1.59	794	<1	<0.01	24	0.06	15	<5	15	0.08	97	<10	184
L88 +00N –47 +40E		0.2	1.77	<5	276	<1	<2	0.10	1.0	6	35	17	2.82	0.05	13	0.72	483	4	<0.01	14	0.07	15	<5	14	0.03	63	<10	96
L88 +00N –47 +60E		0.1	1.81	<5	180	<1	<2	0.05	0.3	6	37	17	3.32	0.06	10	0.80	769	4	<0.01	14	0.05	20	<5	10	0.04	76	<10	108
L88 +00N –47 +80E		0.2	2.36	6	328	<1	<2	0.17	0.2	10	51	19	3.85	0.13	11	1.35	1289	4	<0.01	21	0.06	20	<5	25	0.06	104	<10	152
L88 +00N –48 +00E		0.2	3.12	7	433	<1	<2	0.17	0.4	12	56	36	4.25	0.26	19	1.59	628	5	0.01	41	0.08	20	<5	19	0.08	95	<10	171
L88 +00N –48 +20E		0.3	3.28	<5	386	<1	<2	0.06	0.6	4	69	37	3.68	0.18	14	1.85	498	1	0.01	27	0.07	22	<5	25	0.06	120	<10	223
STD –P1		0.3	1.02	21	189	<1	<2	0.85	0.2	4	100	25	2.18	0.33	4	0.79	573	50	0.06	27	0.07	42	<5	81	0.10	33	<10	142
L88 +00N –48 +40E		0.4	3.44	18	406	<1	5	0.06	0.4	11	14	37	5.38	0.21	17	1.88	1001	2	<0.01	16	0.08	24	8	11	0.05	140	11	12
L88 +00N –48 +60E		0.8	3.41	12	519	1	<2	0.08	1.3	13	60	57	4.22	0.21	24	1.53	851	11	0.02	40	0.09	33	<5	27	0.05	109	<10	292
L88 +00N –48 +80E		0.3	1.58	7	313	<1	2	0.09	0.6	9	45	21	2.82	0.11	15	0.66	1225	4	<0.01	15	0.08	21	<5	16	0.02	59	<10	95
L88 +00N –49 +00E		0.2	2.47	13	750	<1	4	0.26	0.2	9	70	25	3.67	0.50	16	1.71	582	4	0.02	25	0.07	22	10	26	0.07	86	<10	184
L88 +00N –49 +20E		0.4	3.13	20	511	<1	4	0.19	0.6	12	78	38	3.54	0.20	23	1.45	721	7	0.01	34	0.07	28	<5	20	0.07	86	<10	144
L88 +00N –49 +40E		0.2	2.55	23	536	<1	3	0.22	0.6	11	93	25	3.77	0.20	16	1.39	652	3	0.01	22	0.07	53	19	18	0.09	72	<10	184
L88 +00N –49 +60E		0.1	2.35	9	211	<1	2	0.08	0.2	7	39	12	3.54	0.09	18	0.96	354	4	<0.01	13	0.05	17	<5	10	0.08	78	<10	128
L88 +00N –49 +80E		0.1	3.32	13	496	<1	3	0.18	0.3	15	192	7	4.80	0.15	13	2.16	454	<1	<0.01	17	0.05	11	8	17	0.26	101	<10	222
L88 +00N –50 +00E		0.1	3.11	<5	769	<1	3	0.20	0.2	13	134	10	3.53	0.24	12	2.08	406	<1	0.02	19	0.06	8	5	18	0.19	59	<10	107
L88 +00N –50 +00E*		0.1	2.99	9	746	<1	5	0.19	0.1	13	130	9	3.39	0.23	12	2.00	390	1	0.02	18	0.06	9	7	18	0.19	57	<10	102

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: JULY 30, 1991 | Page 1 of 3
Area: FIRE 105G2 | Lab Project No.: P1441 | Date Completed: SEPT 4, 1991 | Attn: R STROSHEIN
Remarks: SOME SAMPLE RERUN FOR AU ONLY REQUESTED BY FAX AUG 26, 1991 | J KOWALCHUK
R HODGSON
E KIMURA

Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L +00E-100+00N		0.1	2.30	12	309	<1	<2	0.10	0.8	8	66	27	2.93	0.17	16	1.83	437	7	0.03	24	0.04	21	13	26	0.16	140	14	116
L +00E-100+20N		0.2	2.54	11	263	<1	<2	0.09	0.5	9	54	26	3.22	0.12	16	1.48	452	4	0.02	28	0.05	21	<5	22	0.11	123	<10	147
L +00E-100+40N		0.3	1.92	<5	329	<1	<2	0.07	0.7	8	40	30	2.54	0.08	17	0.77	381	3	0.01	20	0.06	26	<5	20	0.03	71	<10	77
L +00E-100+60N		<0.1	3.00	10	388	<1	<2	0.14	0.2	10	58	24	3.69	0.18	15	1.88	498	3	0.02	31	0.05	19	<5	23	0.12	115	<10	120
L +00E-100+80N		<0.1	2.77	11	400	<1	<2	0.15	0.5	10	51	20	3.88	0.22	14	1.56	383	2	0.02	28	0.06	25	<5	24	0.16	115	<10	135
L +00E-101+00N		0.2	3.06	9	422	<1	2	0.20	0.7	12	58	25	4.17	0.26	16	1.87	415	3	0.03	32	0.09	25	<5	27	0.14	107	<10	166
L +00E-101+20N		0.1	2.55	<5	305	<1	<2	0.10	0.5	9	38	14	3.81	0.18	12	1.29	398	4	0.02	18	0.04	20	<5	16	0.16	96	<10	117
L +00E-101+40N		0.3	3.18	12	423	<1	<2	0.11	0.8	11	61	23	4.85	0.20	14	1.81	444	4	0.02	27	0.07	19	<5	20	0.17	126	<10	156
L +00E-101+60N		0.2	3.04	14	493	<1	3	0.15	0.3	13	36	16	4.49	0.25	15	1.54	413	1	0.03	24	0.06	15	<5	16	0.14	91	<10	91
L +00E-101+60N*		0.1	2.94	14	485	<1	<2	0.15	0.2	12	34	16	4.38	0.24	13	1.50	398	<1	0.02	23	0.06	13	<5	16	0.14	88	<10	87
L +00E-101+80N		<0.1	1.26	<5	299	<1	<2	0.07	0.2	4	11	13	1.73	0.17	7	0.57	214	3	0.02	4	0.04	7	7	15	0.09	31	10	49
L +00E-102+00N		<0.1	2.94	<5	448	<1	<2	0.10	0.3	10	33	18	4.64	0.21	13	1.62	586	1	0.02	15	0.06	15	6	18	0.23	111	<10	173
L +00E-102+20N		<0.1	3.10	<5	327	<1	<2	0.14	<0.1	11	40	16	4.08	0.14	13	1.42	398	<1	0.02	22	0.05	12	6	15	0.16	84	<10	119
L +00E-102+40N		<0.1	3.45	9	394	<1	<2	0.16	<0.1	13	36	15	4.44	0.18	12	1.77	466	2	0.02	23	0.05	14	9	17	0.18	98	<10	116
L +00E-102+60N		<0.1	2.84	<5	492	<1	<2	0.16	0.1	11	33	19	3.94	0.17	13	1.33	456	2	0.02	16	0.06	15	14	20	0.12	103	<10	109
L +00E-102+80N		0.2	2.05	5	307	<1	<2	0.10	0.2	8	24	12	3.51	0.13	9	1.10	386	3	0.02	11	0.05	14	16	14	0.22	92	<10	95
L +00E-103+00N		0.2	2.74	<5	391	<1	<2	0.12	0.1	11	22	13	4.31	0.19	9	1.39	498	2	0.02	13	0.05	12	8	17	0.19	90	<10	160
L +00E-103+20N		0.1	3.16	<5	332	<1	<2	0.15	<0.1	12	41	13	4.64	0.22	9	1.87	497	1	0.02	18	0.06	11	6	17	0.23	104	<10	137
L +00E-103+40N		<0.1	2.77	<5	487	<1	3	0.23	0.1	12	38	17	4.25	0.17	12	1.47	681	3	0.02	16	0.06	234	979	25	0.21	118	<10	164
L +00E-103+40N*		<0.1	2.82	7	496	<1	<2	0.23	0.2	12	39	18	4.33	0.17	13	1.49	710	4	0.02	17	0.06	243	1037	25	0.21	121	<10	170
L +00E-103+60N		0.2	4.48	161	1502	1	<2	0.13	<0.1	10	86	42	5.14	0.82	28	2.49	554	7	0.04	34	0.06	322	776	42	0.26	200	11	202
L +00E-103+80N		<0.1	1.95	<5	268	<1	<2	0.10	<0.1	5	26	19	2.87	0.06	14	0.82	251	<1	0.02	12	0.04	15	5	17	0.10	63	<10	67
L +00E-104+00N		0.3	2.50	<5	354	<1	<2	0.12	<0.1	7	21	15	3.33	0.13	15	1.15	349	<1	0.02	15	0.05	13	<5	15	0.13	70	<10	90
L +00E-104+20N		0.1	2.21	<5	364	<1	<2	0.13	<0.1	8	39	20	3.11	0.19	14	1.20	368	<1	0.03	20	0.04	12	<5	17	0.11	81	<10	98
L +00E-104+40N		<0.1	2.88	<5	354	<1	<2	0.13	<0.1	9	42	22	4.17	0.18	15	1.50	421	<1	0.02	23	0.05	19	13	18	0.14	104	<10	115
L +00E-104+60N		<0.1	3.59	12	744	<1	<2	0.32	<0.1	13	40	30	4.32	0.49	21	1.95	490	<1	0.04	25	0.06	15	<5	28	0.16	107	<10	120
L +00E-104+80N		<0.1	3.57	<5	672	<1	<2	0.27	<0.1	13	40	32	4.22	0.56	19	1.94	488	<1	0.03	25	0.07	11	<5	26	0.16	100	<10	112
L +00E-105+00N		0.3	3.15	<5	499	<1	<2	0.14	0.1	10	53	21	3.85	0.26	16	1.87	423	<1	0.02	23	0.05	93	339	18	0.14	110	<10	123
L +00E-105+20N		0.2	3.53	5	660	<1	2	0.29	<0.1	14	43	29	4.26	0.50	22	2.06	585	<1	0.03	30	0.08	17	<5	24	0.13	111	<10	137
L +00E-105+20N*		0.1	3.39	6	631	<1	<2	0.27	<0.1	14	42	28	4.10	0.48	21	1.97	559	<1	0.03	29	0.07	15	<5	23	0.13	106	<10	133
L +00E-105+40N		0.2	2.60	9	436	<1	<2	0.26	0.1	10	46	31	3.60	0.27	20	1.35	405	3	0.03	28	0.06	19	<5	28	0.11	89	12	117
L +00E-105+60N		0.2	2.66	7	405	<1	<2	0.28	<0.1	9	44	27	3.19	0.22	21	1.25	343	3	0.03	30	0.07	15	<5	24	0.10	75	<10	98
L +00E-105+80N		0.4	2.72	12	696	<1	<2	0.69	0.3	15	43	26	3.84	0.24	22	1.64	1115	8	0.03	29	0.09	14	<5	41	0.11	86	<10	121
L +00E-106+00N		0.2	2.37	<5	406	<1	<2	0.20	0.1	9	45	24	3.00	0.14	16	1.18	343	3	0.02	26	0.06	16	<5	23	0.08	76	<10	103
L5 +60E-99+00N		0.7	3.00	10	234	<1	<2	0.10	<0.1	16	75	24	4.40	0.22	11	1.88	2164	10	0.02	31	0.11	23	<5	11	0.08	135	<10	250
L5 +60E-99+20N		0.8	3.87	7	205	<1	<2	0.13	<0.1	8	72	29	4.45	0.12	18	1.57	360	3	0.02	23	0.09	24	<5	15	0.12	145	<10	132
L5 +60E-99+40N		0.2	2.77	11	165	<1	<2	0.10	<0.1	8	62	26	3.44	0.10	17	1.36	344	2	0.02	30	0.06	25	<5	12	0.10	100	<10	115
L5 +60E-99+60N		0.1	1.55	<5	106	<1	<2	0.04	<0.1	5	39	16	2.81	0.07	13	0.77	240	6	<0.01	14	0.04	19	<5	10	0.09	99	<10	74
L5 +60E-99+80N		<0.1	2.32	8	165	<1	<2	0.07	<0.1	6	58	21	3.54	0.09	16	1.39	305	6	0.02	24	0.05	23	<5	14	0.11	127	<10	119
ST -AU8-P1		0.1	1.07	21	191	<1	<2	0.90	0.3	5	104	24	2.11	0.35	9	0.81	566	49	0.07	29	0.08	49	<5	85	0.11	34	<10	143
L5 +60E-100+00N		0.1	1.72	9	139	<1	<2	0.05	<0.1	5	47	23	2.85	0.09	16	1.08	256	4	0.02	17	0.03	24	<5	15	0.12	112	15	98
L5 +80E-99+00N		0.5	2.87	10	168	<1	<2	0.10	<0.1	7	54	27	3.89	0.10	15	1.22	356	<1	0.01	30	0.07	21	<5	11	0.06	88	<10	131
L5 +80E-99+20N		0.3	2.85	6	212	<1	<2	0.13	<0.1	4	71	23	3.40	0.13	12	1.13	352	7	0.02	18	0.06	27	7	15	0.08	173	<10	125
L5 +80E-99+40N		0.2	3.30	10	182	<1	<2	0.10	<0.1	6	63	23	5.44	0.06	16	1.81	364	<1	0.01	24	0.08	24	<5	17	0.18	190	<10	148
L5 +80E-99+60N		0.1	3.01	10	193	<1	<2	0.06	<0.1	7	57	20	4.46	0.09	16	1.33	377	2	0.01	27	0.05	24	<5	10	0.10	110	<10	122
L5 +80E-99+80N		0.2	2.89	<5	172	<1	<2	0.06	<0.1	5	62	20	4.37	0.09	16	1.38	350	3	0.01	19	0.05	24	13	14	0.13	147	<10	135
L5 +80E-100+00N		0.2	2.90	6	180	<1	<2	0.11	<0.1	7	57	24	4.09	0.13	16	2.00	461	<1	0.03	26	0.05	25	<5	18	0.15	156	<10	147
L5 +00E-99+00N		0.7	3.15	8	243	<1	<2	0.20	<0.1	9	65	30	3.63	0.17	17	1.41	357	1	0.02	38	0.09	24	<5	13	0.07	84	<10	153
L5 +00E-99+20N		0.2	2.85	7	154	<1	<2	0.08	<0.1	5	58	20	4.04	0.08	16	1.04	287	2	0.02	20	0.06	21	<5	13	0.07	134	<10	101
L5 +00E-99+20N*		0.2	2.53	6	147	<1	<2	0.07	<0.1	5	56	19	3.89	0.07	15	1.00	277	2	0.02	19	0.06	21	<5	12	0.07	128	<10	91

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: JULY 30, 1991 | Page 2 of 3
Area: FIRE 105G2 | Lab Project No.: P1441 | Date Completed: SEPT 4, 1991 | Attn: R STROSHEIN
Remarks: SOME SAMPLE RERUN FOR AU ONLY REQUESTED BY FAX AUG 26, 1991 | J KOWALCHUK
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB) | R HODGSON
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours. | E KIMURA
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L[illegible]+00E-99+40N		0.1	3.29	16	200	<1	5	0.11	<0.1	7	65	27	5.22	0.10	18	1.63	372	5	0.02	27	0.07	24	6	16	0.14	176	<10	135
L[illegible]+00E-99+60N		0.3	3.30	10	142	<1	4	0.13	<0.1	15	76	40	4.90	0.09	14	2.13	492	3	0.02	40	0.06	19	7	8	0.19	136	<10	139
L[illegible]+00E-99+80N		0.1	1.48	10	103	<1	5	0.05	<0.1	6	40	21	2.93	0.06	16	0.79	203	7	0.01	25	0.04	16	6	8	0.08	88	<10	93
L[illegible]+00E-100+00N		0.4	2.27	6	153	<1	<2	0.08	<0.1	3	56	18	2.77	0.09	15	1.21	290	5	0.02	15	0.04	20	<5	13	0.12	111	<10	93
L[illegible]+00E-123+20N	<5	0.2	2.01	5	34	<1	3	0.07	<0.1	11	192	96	2.88	0.03	7	1.45	198	1	<0.01	73	0.04	9	5	6	0.05	55	<10	62
L[illegible]+00E-123+40N	<5	<0.1	1.97	<5	56	<1	2	0.08	<0.1	11	154	55	3.12	0.04	13	1.15	275	3	<0.01	56	0.04	9	<5	9	0.07	59	<10	77
L[illegible]+00E-123+60N	<5	<0.1	1.80	<5	56	<1	<2	0.08	<0.1	15	190	174	2.42	0.04	10	1.26	328	<1	<0.01	75	0.05	9	5	7	0.03	54	<10	65
L[illegible]+00E-123+80N	<5	0.2	1.87	<5	43	<1	<2	0.08	<0.1	12	240	77	2.78	0.02	8	1.84	201	<1	<0.01	77	0.03	4	6	5	0.05	56	<10	51
L[illegible]+00E-124+00N	<5	0.6	1.42	6	52	<1	5	0.06	<0.1	7	141	100	1.57	0.02	7	0.89	120	<1	0.01	44	0.04	6	8	7	0.02	28	<10	37
L[illegible]+00E-124+00N	<5	0.6	1.43	<5	53	<1	2	0.06	<0.1	7	142	102	1.57	0.02	6	0.89	120	5	0.01	45	0.04	5	<5	7	0.02	29	<10	39
L[illegible]+00E-124+20N	<5	0.2	2.48	8	116	<1	<2	0.10	<0.1	15	195	115	3.17	0.03	9	1.06	340	<1	<0.01	55	0.06	9	<5	11	0.03	46	13	60
L[illegible]+00E-124+40N	<5	0.2	2.12	<5	39	<1	<2	0.07	<0.1	11	208	201	2.57	0.02	5	1.15	316	<1	<0.01	58	0.06	7	<5	5	0.03	50	<10	50
L[illegible]+00E-124+60N	<5	0.1	2.21	8	41	<1	<2	0.08	<0.1	12	213	125	2.65	0.02	6	1.25	250	<1	<0.01	62	0.05	8	<5	5	0.04	48	<10	52
L[illegible]+00E-124+80N	<5	0.1	2.35	6	38	<1	<2	0.08	<0.1	16	314	104	3.77	0.02	5	1.95	321	<1	<0.01	69	0.04	7	<5	5	0.05	74	<10	68
L[illegible]+00E-125+00N	<5	0.3	1.72	6	53	<1	2	0.16	<0.1	13	207	57	2.82	0.03	6	1.80	269	<1	<0.01	66	0.03	5	<5	8	0.05	64	<10	64
L[illegible]+00E-125+20N	<5	<0.1	1.33	<5	42	<1	<2	0.09	<0.1	9	150	29	2.24	0.02	6	1.03	212	<1	<0.01	45	0.03	4	<5	6	0.04	56	<10	42
L[illegible]+00E-125+40N	<5	0.1	1.72	9	78	<1	<2	0.17	<0.1	12	222	64	2.61	0.02	5	1.44	222	<1	<0.01	69	0.03	6	<5	10	0.04	55	<10	47
L[illegible]+00E-125+60N	<5	0.1	1.81	5	45	<1	<2	0.08	<0.1	12	211	56	2.39	0.02	5	1.31	299	<1	<0.01	66	0.04	8	<5	8	0.03	52	<10	45
L[illegible]+00E-125+80N	<5	<0.1	1.57	5	39	<1	<2	0.09	<0.1	13	214	30	2.39	0.01	3	1.50	319	<1	<0.01	66	0.03	4	<5	7	0.04	58	<10	47
S[illegible]-AU8-P1	320	0.3	1.05	21	188	<1	<2	0.90	0.3	6	106	23	2.09	0.33	7	0.78	555	48	0.06	30	0.06	46	<5	86	0.11	33	<10	134
L[illegible]+00E-126+00N	<5	<0.1	1.89	6	104	<1	<2	0.17	<0.1	17	260	162	2.50	0.02	8	1.87	412	<1	<0.01	106	0.03	7	<5	13	0.03	57	13	54
L[illegible]+00E-123+20N	<5	0.1	1.82	7	40	<1	<2	0.06	<0.1	9	179	53	3.17	0.02	9	1.21	179	<1	<0.01	53	0.03	8	<5	5	0.05	61	<10	54
L[illegible]+00E-123+40N	<5	0.2	1.57	<5	33	<1	3	0.07	<0.1	9	167	43	2.17	0.02	8	1.13	184	<1	<0.01	51	0.03	6	<5	5	0.04	44	<10	50
L[illegible]+00E-123+60N	<5	<0.1	1.71	<5	32	<1	3	0.07	<0.1	11	186	66	2.21	0.02	8	1.31	203	2	<0.01	58	0.03	6	7	5	0.04	45	<10	45
L[illegible]+00E-123+80N	<5	0.1	1.19	<5	30	<1	2	0.06	<0.1	8	128	33	1.85	0.02	7	0.92	166	<1	0.01	36	0.04	4	<5	4	0.02	36	<10	35
L[illegible]+00E-124+00N	<5	0.1	1.57	<5	32	<1	5	0.06	<0.1	13	216	33	2.39	0.02	7	1.53	279	<1	<0.01	66	0.03	6	<5	3	0.05	52	<10	50
L[illegible]+00E-124+20N	<5	0.1	1.97	<5	55	<1	3	0.09	<0.1	16	262	40	3.53	0.03	9	1.80	525	<1	<0.01	82	0.04	5	7	7	0.07	66	<10	65
L[illegible]+00E-124+40N	<5	0.1	1.57	<5	34	<1	<2	0.07	<0.1	10	199	34	2.43	0.02	7	1.32	219	<1	<0.01	61	0.03	6	<5	4	0.04	47	<10	46
L[illegible]+00E-124+60N	<5	0.3	1.34	<5	21	<1	<2	0.05	0.1	10	193	46	1.58	0.01	6	1.20	139	<1	<0.01	58	0.03	5	7	3	0.02	32	<10	34
L[illegible]+00E-124+80N	<5	0.3	1.81	<5	36	<1	<2	0.08	<0.1	12	203	88	2.31	0.02	9	1.29	283	2	<0.01	60	0.03	6	7	5	0.03	49	13	52
L[illegible]+00E-125+00N	<5	0.3	1.00	<5	46	<1	<2	0.07	0.5	7	123	88	1.20	0.02	5	0.60	85	3	<0.01	37	0.09	4	<5	5	<0.01	20	<10	38
L[illegible]+00E-125+20N	<5	0.1	1.78	<5	50	<1	<2	0.06	<0.1	18	261	33	3.28	0.03	9	1.49	402	<1	<0.01	69	0.03	3	8	5	0.06	69	<10	62
L[illegible]+00E-125+40N	15	0.2	1.56	<5	43	<1	<2	0.08	0.2	14	261	46	2.63	0.02	7	1.55	235	1	<0.01	73	0.04	2	<5	5	0.04	58	<10	54
L[illegible]+00E-125+60N	10	0.2	2.36	6	45	<1	<2	0.11	<0.1	25	395	89	3.46	0.02	8	2.57	524	2	<0.01	117	0.04	4	<5	6	0.04	70	<10	67
L[illegible]+00E-125+80N	15	0.1	2.13	<5	60	<1	<2	0.11	<0.1	20	302	182	3.32	0.02	9	2.16	344	2	<0.01	105	0.04	4	<5	7	0.04	69	<10	82
L[illegible]+00E-126+00N	<5	<0.1	2.20	<5	44	<1	<2	0.10	<0.1	20	318	89	3.24	0.03	8	2.25	380	<1	<0.01	103	0.03	3	<5	9	0.04	69	<10	61
L[illegible]+00E-123+20N	10	0.1	1.34	<5	39	<1	<2	0.12	<0.1	9	168	47	1.91	0.02	8	1.17	188	2	<0.01	51	0.03	5	<5	8	0.03	40	<10	40
L[illegible]+00E-123+40N	<5	<0.1	1.80	<5	32	<1	<2	0.11	<0.1	11	189	70	2.40	0.02	7	1.29	181	1	<0.01	57	0.03	6	<5	7	0.05	48	<10	44
L[illegible]+00E-123+40N	<5	<0.1	1.84	<5	33	<1	<2	0.10	<0.1	11	192	71	2.44	0.02	7	1.31	183	<1	<0.01	59	0.03	5	<5	7	0.05	49	<10	44
L[illegible]+00E-123+60N	<5	<0.1	1.70	19	44	<1	<2	0.10	<0.1	10	138	112	2.16	0.02	10	1.01	248	1	<0.01	47	0.03	7	<5	8	0.04	40	12	49
L[illegible]+00E-123+80N	<5	0.1	0.62	<5	22	<1	<2	0.04	<0.1	2	52	26	0.67	0.01	3	0.27	42	2	0.02	12	0.03	2	<5	5	0.02	13	<10	17
L[illegible]+00E-124+00N	<5	0.1	1.75	6	42	<1	<2	0.09	<0.1	10	181	66	2.08	0.01	7	1.29	218	2	<0.01	58	0.04	6	<5	6	0.03	39	<10	42
L[illegible]+00E-124+20N	<5	0.1	1.67	<5	40	<1	<2	0.10	<0.1	12	180	55	2.22	0.02	6	1.25	373	1	<0.01	54	0.04	5	<5	6	0.02	43	<10	46
L[illegible]+00E-124+40N	5	<0.1	1.57	7	36	<1	<2	0.09	<0.1	9	164	39	2.05	0.01	5	1.09	215	<1	<0.01	46	0.04	6	<5	5	0.02	41	<10	41
L[illegible]+00E-124+60N	<5	<0.1	1.88	5	38	<1	<2	0.10	<0.1	12	202	47	2.17	0.01	5	1.41	319	5	<0.01	61	0.03	6	<5	5	0.03	43	<10	40
L[illegible]+00E-124+80N	<5	0.1	1.69	<5	38	<1	<2	0.10	<0.1	11	210	57	2.18	0.02	6	1.37	254	<1	<0.01	63	0.04	6	<5	5	0.03	44	<10	39
L[illegible]+00E-125+00N	<5	<0.1	1.83	8	32	<1	<2	0.08	<0.1	16	292	33	2.55	0.02	6	1.98	266	3	<0.01	92	0.02	4	<5	4	0.04	55	<10	46
L[illegible]+00E-125+20N	<5	<0.1	2.14	9	54	<1	<2	0.17	<0.1	18	328	92	2.72	0.02	6	2.23	317	3	<0.01	107	0.04	6	<5	6	0.04	55	<10	58
ST-AU8-P1	300	0.3	1.10	22	182	<1	<2	0.96	0.3	5	111	24	2.10	0.33	9	0.79	563	53	0.07	28	0.07	47	<5	94	0.12	34	<10	136

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: JULY 30, 1991 | Page 3 of 3
Area: FIRE 105G2 | Lab Project No.: P1441 | Date Completed: SEPT 4, 1991 | Attn: R STROSHEIN
Remarks: SOME SAMPLE RERUN FOR AU ONLY REQUESTED BY FAX AUG 26, 1991 | J KOWALCHUK
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB) | R HODGSON
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours. | E KIMURA
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L5	+00E-125+40N	<5	0.1	2.01	<5	65	<1	<2	0.15	<0.1	17	335	118	2.59	0.02	8	2.10	330	3	<0.01	107	0.04	5	<5	6	0.03	57	13	51
L5	+00E-125+60N	<5	<0.1	1.84	10	57	<1	3	0.17	<0.1	16	274	224	2.49	0.02	9	1.81	304	3	<0.01	94	0.03	5	<5	6	0.04	52	<10	53
L5	+00E-125+80N	<5	<0.1	1.28	<5	44	<1	<2	0.13	<0.1	9	167	104	1.57	0.02	5	1.02	172	3	0.02	51	0.05	4	<5	7	0.03	34	<10	33
L6	+00E-126+00N	<5	<0.1	1.83	<5	65	<1	<2	0.13	<0.1	16	268	106	2.58	0.02	8	1.92	282	3	<0.01	100	0.03	5	<5	7	0.04	55	<10	53
L6	+00E-126+00N	<5	0.1	1.99	7	70	<1	<2	0.14	<0.1	17	291	114	2.80	0.02	7	2.09	304	2	<0.01	107	0.04	6	<5	8	0.04	60	<10	57

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE 105G2
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

Geologist: R STROSHEIN
Lab Project No.: P1442

Date Received: JULY 30, 1991
Date Completed: AUG 20, 1991

Attn: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
2397		0.1	5.39	75	370	2	<2	0.52	1.8	284	336	0.46%	13.16	0.27	83	3.57	1647	7	0.03	227	0.12	21	20	28	0.08	146	13	1651
2397*		0.3	5.62	78	346	2	<2	0.56	1.8	293	339	0.46%	13.67	0.28	83	3.83	1673	7	0.04	233	0.13	21	16	31	0.09	148	<10	1703
STD P1		0.3	2.85	60	489	1	<2	2.40	0.4	13	238	139	5.35	0.90	16	2.04	1460	123	0.17	74	0.19	114	<5	232	0.30	87	<10	361

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE 105G2
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

Geologist: R STROSHEIN
Lab Project No.: P1443

Date Received: JULY 30, 1991
Date Completed: AUG 14, 1991

Attn: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
2383	<5	0.2	0.60	6	301	<1	<2	1.00	<0.1	8	161	63	1.48	0.09	5	0.53	772	4	0.04	33	0.02	8	<5	21	0.02	26	<10	41
2384	<5	0.2	1.69	7	754	<1	<2	0.12	<0.1	10	127	62	3.21	0.54	7	1.46	725	<1	0.03	17	0.03	6	<5	4	0.07	76	<10	67
2385	<5	<0.1	1.28	<5	576	<1	<2	0.88	<0.1	9	214	39	1.99	0.23	7	1.06	725	3	0.03	38	0.03	7	<5	32	0.03	32	<10	42
2386	<5	0.1	0.96	6	412	<1	<2	0.72	<0.1	8	196	50	1.83	0.21	5	0.78	722	8	0.03	28	0.02	6	<5	14	0.02	38	<10	43
2387	25	0.2	1.44	41	627	<1	4	0.27	<0.1	60	69	545	12.87	0.46	3	0.71	295	2	0.02	35	0.06	<2	8	10	0.06	146	<10	586
2388	<5	0.1	2.57	<5	303	1	<2	1.26	0.6	14	193	104	2.79	0.51	8	0.82	423	9	0.11	62	0.07	12	<5	59	0.06	78	<10	91
2389	5	1.4	0.56	<5	487	<1	<2	0.07	0.4	1	157	61	1.08	0.16	10	0.43	133	<1	0.03	6	0.01	77	<5	18	<0.01	3	<10	134
2390	<5	0.1	0.58	<5	195	<1	<2	1.27	<0.1	<1	215	7	0.83	0.20	25	0.56	207	6	0.02	7	<0.01	4	<5	18	<0.01	2	<10	62
2391	<5	<0.1	0.40	29	65	1	<2	4.28	<0.1	33	326	11	4.46	0.05	<1	3.55	1103	<1	<0.01	198	<0.01	<2	<5	33	<0.01	81	<10	72
STD-AU8-P1	310	0.3	0.96	22	194	<1	<2	0.81	0.3	6	104	24	2.06	0.34	5	0.79	538	46	0.06	28	0.08	46	<5	76	0.09	30	<10	136
2392	<5	<0.1	0.46	19	263	<1	<2	1.48	0.2	15	139	61	3.11	0.05	9	1.31	1045	2	0.01	42	0.02	9	5	49	<0.01	46	12	68
2393	<5	0.1	0.73	12	675	<1	<2	1.07	<0.1	13	143	58	2.90	0.10	8	1.42	814	2	0.02	44	0.02	5	<5	27	<0.01	43	<10	53
2394	<5	0.1	0.48	<5	331	<1	<2	0.30	<0.1	10	133	81	2.34	0.09	10	0.25	858	2	0.01	35	0.03	<2	<5	11	<0.01	17	<10	59
2395	<5	0.9	3.46	6	189	2	<2	1.41	3.4	6	133	80	3.92	0.70	17	1.17	428	43	0.17	29	0.08	51	<5	65	0.13	101	<10	166
2396	185	0.8	0.05	115	14	<1	<2	0.02	<0.1	466	218	1412	7.88	0.01	<1	0.02	34	13	<0.01	11	<0.01	3	<5	1	<0.01	3	<10	18
2398	<5	0.3	2.24	10	663	<1	<2	1.41	0.1	20	225	64	3.52	1.09	9	1.89	429	10	0.08	63	0.08	4	<5	26	0.18	149	<10	148
2431	45	0.1	1.22	24	61	<1	10	0.03	<0.1	100	163	2767	16.91	<0.01	<1	0.80	195	2	<0.01	60	0.02	<2	15	2	0.01	51	<10	159
2432	15	<0.1	1.19	20	26	<1	8	0.09	<0.1	117	265	1508	14.97	<0.01	<1	1.02	162	4	0.01	90	0.02	<2	6	1	0.01	53	<10	160
2433	65	<0.1	1.81	25	15	<1	5	0.04	0.4	140	226	0.56%	13.72	<0.01	<1	1.52	204	9	<0.01	113	0.03	<2	10	<1	0.02	67	<10	283
2433*	25	<0.1	1.87	26	16	<1	7	0.04	0.4	146	234	0.56%	14.19	<0.01	<1	1.57	213	9	<0.01	116	0.03	<2	9	<1	0.02	70	<10	296
2434	<5	<0.1	4.44	22	193	<1	2	0.04	<0.1	90	420	161	10.13	0.02	1	4.56	583	<1	<0.01	183	0.03	<2	17	4	0.02	137	<10	127
2435	3955	17.0	0.06	200	6	<1	15	<0.01	<0.1	837	50	2.08%	16.00	<0.01	<1	0.06	33	<1	<0.01	10	0.03	<2	11	<1	<0.01	4	<10	174
2576	<5	0.1	1.53	9	1422	<1	<2	0.42	<0.1	12	166	241	2.15	0.41	8	0.99	413	7	0.08	26	0.03	5	<5	19	0.05	34	<10	30
2577	<5	0.1	1.83	<5	626	<1	<2	0.57	0.5	7	160	69	2.59	0.27	11	1.03	582	12	0.06	27	0.07	7	<5	18	0.03	79	<10	71
2578	<5	0.1	1.87	6	572	<1	<2	0.71	0.1	10	198	91	2.70	0.12	6	0.84	523	7	0.06	46	0.04	7	<5	28	0.02	41	<10	49
2579	<5	0.1	2.33	9	680	<1	<2	0.66	0.3	14	240	48	3.03	0.44	17	1.80	664	12	0.10	71	0.06	7	<5	20	0.04	80	<10	85
2580	<5	0.1	2.34	11	470	<1	<2	0.60	<0.1	23	456	8	3.09	0.20	<1	2.99	580	2	0.02	138	0.02	<2	<5	6	0.04	74	<10	65
2581	<5	0.1	1.04	<5	600	<1	<2	0.27	<0.1	4	210	29	2.25	0.35	9	0.73	394	8	0.04	18	0.03	12	<5	7	0.04	33	<10	36
2582	<5	0.1	0.97	<5	399	<1	<2	0.13	<0.1	5	160	23	2.13	0.33	6	0.80	428	6	0.02	15	0.03	2	<5	3	0.02	25	<10	40
2582*	<5	0.1	0.92	<5	385	<1	<2	0.12	<0.1	6	153	21	2.01	0.31	6	0.76	404	6	0.02	14	0.03	<2	<5	3	0.02	23	<10	38
2583	<5	<0.1	1.74	17	640	<1	<2	1.39	<0.1	18	158	55	3.16	0.69	7	1.35	921	2	0.08	51	0.03	5	<5	15	0.09	71	13	57
2584	<5	<0.1	2.05	8	1588	<1	<2	0.31	<0.1	20	232	96	3.42	0.73	8	1.99	642	1	0.04	85	0.03	<2	<5	13	0.10	64	<10	63
2585	<5	0.2	3.03	8	577	<1	<2	0.86	0.1	11	300	64	3.54	0.68	11	2.09	585	10	0.10	47	0.10	5	<5	23	0.07	153	<10	102
2586	<5	0.1	1.87	<5	210	<1	<2	0.65	0.4	5	176	60	2.63	0.41	16	0.79	527	19	0.05	22	0.09	4	<5	16	0.04	119	<10	96
2587	<5	0.1	2.81	13	829	<1	<2	1.10	<0.1	19	235	149	3.51	0.21	8	1.88	965	3	0.10	81	0.03	15	11	60	0.02	61	<10	68
2588	<5	0.2	3.43	21	40	<1	<2	2.66	<0.1	27	292	53	4.97	0.01	<1	4.00	1602	<1	0.03	83	0.03	11	9	78	<0.01	112	<10	98
2589	<5	<0.1	1.46	6	1152	<1	<2	0.99	<0.1	13	206	85	2.55	0.54	6	1.28	970	3	0.03	44	0.03	3	<5	19	0.06	43	<10	61
2590	<5	<0.1	2.07	12	386	<1	<2	0.30	<0.1	19	136	67	3.95	0.19	6	1.97	867	<1	0.02	41	0.02	4	<5	7	0.03	97	<10	84
2591	<5	<0.1	1.44	6	1056	<1	<2	0.29	<0.1	13	149	232	2.30	0.59	6	1.36	574	1	0.03	53	0.03	<2	<5	10	0.07	44	<10	58
2591*	<5	<0.1	1.42	7	1040	<1	3	0.28	<0.1	12	147	231	2.29	0.59	6	1.35	570	<1	0.03	52	0.03	3	<5	10	0.06	44	<10	58
2592	5	0.1	2.29	6	1140	<1	<2	0.57	<0.1	11	161	121	3.01	0.61	17	1.54	382	10	0.09	43	0.05	7	8	42	0.09	95	13	93
2593	5	<0.1	3.12	7	349	<1	<2	0.71	<0.1	21	376	57	2.91	0.15	3	2.85	470	3	0.08	113	0.02	7	13	66	0.04	55	<10	60
2594	<5	0.1	3.08	8	1438	1	<2	1.03	<0.1	12	211	64	3.19	0.65	13	1.71	516	6	0.17	58	0.06	6	8	55	0.09	69	<10	86
2595	<5	0.5	3.28	7	565	<1	<2	0.90	<0.1	14	110	76	3.91	0.84	4	1.74	921	5	0.10	20	0.03	15	6	45	0.09	98	<10	89
2596	5	0.1	1.82	<5	2164	<1	<2	0.29	<0.1	14	132	54	3.11	0.97	10	1.16	679	2	0.04	49	0.03	5	<5	20	0.11	50	<10	71
2597	10	<0.1	1.66	7	941	<1	<2	0.21	<0.1	15	139	27	3.34	0.32	12	1.31	898	2	0.03	62	0.03	7	<5	15	0.04	51	<10	83
2598	5	0.1	1.99	<5	2444	<1	<2	0.26	<0.1	17	155	27	3.48	1.17	12	1.41	723	2	0.06	60	0.04	5	6	21	0.16	68	<10	81
2599	5	0.2	2.48	<5	427	<1	<2	0.98	0.2	13	207	117	3.13	0.63	9	1.07	563	11	0.10	52	0.05	11	<5	46	0.06	69	<10	77
2600	5	0.2	1.92	<5	879	<1	<2	0.50	<0.1	6	156	37	2.62	0.61	12	1.08	545	5	0.09	18	0.05	15	<5	19	0.06	37	<10	59
2600*	5	0.2	1.98	<5	943	<1	<2	0.51	<0.1	6	159	38	2.70	0.64	12	1.12	561	2	0.09	16	0.05	16	<5	20	0.07	38	<10	61

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE 105G2
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

Geologist: R STROSHEIN
Lab Project No.: P1443
Date Received: JULY 30, 1991
Date Completed: AUG 14, 1991
Page 2 of 2
Attn: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Tl %	V ppm	W ppm	Zn ppm
2601	<5	0.2	1.17	6	114	<1	<2	0.58	1.3	10	142	67	3.24	0.24	13	0.56	505	19	0.07	28	0.11	24	5	18	0.02	103	11	98
2602	10	0.1	1.21	<5	303	<1	2	0.11	<0.1	4	117	38	2.31	0.30	11	1.04	482	3	0.03	11	0.02	10	<5	6	0.02	20	11	58
2603	5	0.1	1.33	<5	198	<1	<2	0.37	<0.1	3	199	39	2.41	0.44	13	0.79	506	6	0.07	13	0.05	5	<5	16	0.03	44	<10	51
2604	10	0.1	2.43	<5	146	1	<2	1.38	0.9	8	155	84	3.28	0.36	16	0.52	631	21	0.11	30	0.09	7	<5	57	0.05	88	<10	110
2605	5	0.1	1.43	<5	1013	<1	<2	0.51	<0.1	5	217	84	2.77	0.49	9	0.79	392	15	0.07	21	0.09	2	<5	17	0.09	61	<10	35
2606	5	<0.1	1.67	8	1020	<1	<2	0.46	<0.1	11	174	32	2.58	0.50	9	1.70	718	3	0.04	41	0.04	4	<5	16	0.06	56	<10	55
2607	5	<0.1	1.81	11	1248	<1	<2	0.19	<0.1	7	122	49	3.08	0.70	13	1.60	778	3	0.04	18	0.06	8	<5	6	0.06	54	<10	68
2608	5	0.4	2.71	5	470	<1	<2	0.93	<0.1	11	156	70	4.00	0.95	14	1.08	801	13	0.14	37	0.14	14	<5	26	0.11	136	<10	89
2609	5	0.1	1.32	5	326	<1	<2	0.42	<0.1	2	127	23	2.19	0.78	12	1.26	626	6	0.03	6	0.04	7	<5	12	0.06	28	<10	56
2609*	<5	0.1	1.36	7	330	<1	<2	0.43	<0.1	2	130	23	2.26	0.82	12	1.30	648	7	0.04	8	0.04	7	<5	12	0.06	29	<10	58
2610	<5	<0.1	1.60	6	339	<1	<2	0.09	<0.1	6	96	84	2.94	0.62	7	1.41	616	2	0.03	11	0.03	7	<5	5	0.05	36	13	74
TD-AU8-P1	320	0.2	0.96	23	185	<1	<2	0.79	0.3	6	102	26	2.12	0.34	7	0.80	555	45	0.06	29	0.08	52	<5	73	0.09	32	<10	141

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: YUKON VMS | Geol.: R STROSHEIN | Date Received: JULY 30, 1991 | Page 1 of 2
Area: 105G | Lab Project No.: P1445 | Date Completed: AUG 12, 1991 | Attn: R STROSHEIN
Remarks: J KOWALCHUK
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L 5 PPB) E KIMURA
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours. R HODGSON
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
B2476	<5	0.9	0.62	47	136	<1	3	0.02	0.2	4	28	53	4.35	0.13	33	0.18	190	1	0.02	10	0.06	229	6	20	0.03	17	13	142
B2477	55	3.0	1.01	88	827	<1	6	0.35	5.4	19	49	173	4.84	0.06	34	0.56	868	19	<0.01	143	0.18	248	19	39	0.01	87	<10	1117
B2478	25	7.0	0.62	286	142	<1	<2	1.31	6.9	29	142	196	7.07	0.08	19	0.59	924	25	<0.01	267	0.15	609	16	50	<0.01	114	<10	1459
B2479	5	2.4	0.77	129	710	<1	3	0.29	11.8	19	48	186	4.62	0.05	31	0.47	657	14	<0.01	177	0.17	70	17	39	0.01	65	<10	1521
B2480	10	1.9	0.66	174	721	<1	5	0.42	14.5	19	57	131	4.38	0.05	22	0.50	566	10	<0.01	184	0.17	51	15	42	0.02	57	<10	1728
B2481	15	1.0	0.56	98	1015	<1	<2	0.34	5.7	13	52	84	3.82	0.04	20	0.42	391	8	<0.01	111	0.14	43	10	39	0.02	49	<10	835
B2482	10	1.4	0.62	112	699	<1	3	0.38	9.6	16	58	97	3.76	0.04	18	0.49	483	11	<0.01	170	0.16	47	13	37	0.03	50	<10	1281
B2490	5	0.2	0.86	45	184	<1	<2	0.13	0.4	8	35	16	2.50	0.14	68	0.25	709	<1	<0.01	10	0.05	60	<5	14	0.01	16	<10	109
B2493	10	0.4	0.36	36	38	<1	10	<0.01	<0.1	1	16	41	5.69	0.03	10	0.22	431	22	<0.01	5	0.06	72	<5	6	0.02	46	<10	180
B2493*	<5	0.4	0.38	41	39	<1	11	<0.01	<0.1	2	15	43	5.97	0.03	10	0.23	448	24	<0.01	5	0.06	78	10	7	0.02	48	<10	193
B2495	10	0.8	0.86	23	111	<1	4	0.09	0.4	13	24	170	5.21	0.15	41	0.28	549	12	<0.01	18	0.07	337	<5	33	0.12	10	20	128
B2500	<5	0.6	0.63	12	65	<1	5	0.08	1.6	11	44	31	1.70	0.07	22	0.19	571	2	<0.01	29	0.06	56	<5	6	0.01	14	<10	1223
B2554	5	1.0	1.74	25	213	<1	11	0.07	0.1	11	164	214	13.99	0.07	34	0.64	309	2	0.05	51	0.55	11	7	103	0.48	108	<10	95
B2557	<5	0.4	1.43	12	304	<1	8	0.19	0.3	23	101	98	6.89	0.09	22	0.69	597	3	0.03	49	0.22	20	<5	56	0.32	80	<10	132
B2559	<5	0.4	0.48	14	134	<1	<2	<0.01	<0.1	2	31	66	4.73	0.10	18	0.14	75	2	<0.01	17	0.06	103	<5	5	<0.01	13	<10	105
B2560	15	2.4	0.40	47	221	<1	6	<0.01	<0.1	11	17	213	6.80	0.05	26	0.03	139	1	<0.01	60	0.12	1491	<5	23	<0.01	17	<10	459
B2561	10	0.7	0.36	18	239	<1	<2	<0.01	<0.1	<1	34	26	3.16	0.06	26	0.15	44	3	<0.01	6	0.05	58	<5	4	<0.01	13	<10	100
B2563	10	3.4	0.88	576	3006	<1	6	0.87	33.0	44	179	609	7.69	0.07	29	0.34	1795	47	<0.01	578	0.63	35	94	226	<0.01	160	<10	2251
B2565	10	0.9	0.54	190	469	<1	4	0.61	6.4	67	246	123	8.11	0.04	17	0.40	1693	4	<0.01	725	0.19	10	41	67	<0.01	72	<10	1497
STD-AU8-P1	300	0.3	1.01	23	194	<1	<2	0.84	0.5	5	126	24	2.20	0.35	6	0.81	577	48	0.06	31	0.08	47	<5	79	0.10	32	<10	155
B2568	<5	0.6	2.04	34	634	1	2	0.35	10.3	59	69	482	5.99	0.11	122	1.75	1424	13	<0.01	414	0.16	12	28	41	0.03	206	16	840
B2569	<5	0.3	2.27	63	447	<1	<2	1.37	1.0	49	82	51	6.09	0.06	19	1.40	2152	2	<0.01	68	0.06	9	10	22	<0.01	100	<10	295
B2570	1270	1.2	0.88	2766	587	<1	<2	0.96	0.2	32	41	32	4.87	0.06	8	0.65	1243	<1	<0.01	37	0.03	5	135	26	<0.01	78	<10	104
B2571	5	0.3	0.43	87	403	<1	<2	3.27	0.4	30	51	26	4.08	0.08	14	0.54	935	<1	<0.01	43	0.03	6	9	61	<0.01	44	<10	126
B2572	5	0.9	0.13	13	544	<1	10	0.06	0.8	7	33	50	2.54	0.04	33	0.02	298	1	<0.01	35	0.03	43	<5	59	<0.01	15	<10	137
B2719	<5	0.4	1.29	20	96	<1	7	0.10	0.2	10	61	31	3.38	0.07	14	0.72	447	<1	<0.01	29	0.07	23	<5	8	0.03	48	<10	118
B2720	<5	0.1	1.53	19	135	<1	7	0.33	0.2	11	54	58	3.48	0.06	27	0.76	488	<1	<0.01	34	0.13	25	7	15	0.03	45	<10	154
B2721	5	0.2	1.27	19	87	<1	8	0.45	0.4	9	49	33	3.34	0.04	16	0.73	344	1	<0.01	28	0.14	31	<5	19	0.02	45	<10	188
B2722	5	0.1	1.30	17	189	<1	4	0.27	0.3	10	57	26	3.43	0.10	19	0.77	382	2	<0.01	28	0.07	26	5	12	0.06	53	<10	110
B2722*	<5	0.1	1.31	19	192	<1	5	0.27	0.3	11	58	26	3.51	0.11	19	0.78	386	<1	<0.01	29	0.07	24	<5	12	0.06	54	<10	113
B2726	<5	0.3	1.67	9	1096	3	<2	0.33	1.0	21	61	33	6.40	0.53	51	0.85	1372	<1	0.02	35	0.10	24	10	22	0.09	91	13	302
B2727	<5	0.2	2.14	32	902	3	<2	0.38	<0.1	23	35	45	7.43	0.56	87	0.95	929	3	0.01	23	0.15	8	<5	15	0.13	91	<10	121
B2737	10	0.6	0.56	<5	199	1	<2	0.69	0.8	7	30	19	3.19	0.08	91	0.14	939	<1	<0.01	13	0.05	452	<5	28	<0.01	12	<10	156
B2738	5	2.8	0.99	8	220	<1	4	0.28	0.7	17	55	42	3.50	0.13	25	0.41	682	1	0.01	47	0.13	558	<5	43	0.04	39	<10	333
B2739	<5	0.4	0.62	<5	61	1	<2	<0.01	0.5	2	35	48	1.85	0.14	50	0.15	363	<1	<0.01	4	0.04	29	<5	12	<0.01	8	<10	313
B2801	<5	0.3	1.03	14	87	<1	2	0.08	0.3	5	52	11	2.52	0.06	9	0.50	264	<1	<0.01	13	0.06	21	<5	5	0.03	43	<10	66
B2802	<5	0.3	1.60	25	74	<1	2	0.16	0.2	10	60	25	3.90	0.07	9	0.98	304	1	<0.01	28	0.10	20	7	8	0.03	60	<10	129
B2803	<5	0.3	1.50	14	51	<1	<2	0.19	0.3	11	58	31	3.99	0.05	10	0.98	413	<1	<0.01	30	0.10	20	<5	8	0.04	62	<10	141
B2804	<5	0.4	1.33	13	308	1	3	0.50	1.7	5	46	19	2.73	0.04	35	0.25	2514	<1	<0.01	14	0.41	21	<5	27	<0.01	35	<10	97
B2804*	<5	0.3	1.36	9	312	1	<2	0.50	1.8	8	48	18	2.77	0.05	36	0.26	2547	1	<0.01	16	0.42	21	5	27	<0.01	36	<10	99
B2805	<5	1.3	1.30	9	123	<1	8	2.07	0.7	5	43	60	1.01	0.04	200	0.11	568	2	0.02	15	0.16	16	<5	87	<0.01	12	14	70
B2806	<5	0.2	1.29	5	334	<1	4	0.72	0.5	7	50	18	2.28	0.04	9	0.47	510	2	<0.01	13	0.12	15	<5	39	0.01	34	<10	60
B2807	<5	0.2	0.63	<5	37	<1	<2	0.05	0.2	3	46	7	1.10	0.08	8	0.22	79	1	<0.01	5	0.07	11	<5	4	<0.01	14	<10	36
B2808	5	1.0	1.91	38	234	<1	<2	0.82	0.8	11	53	76	5.38	0.11	42	1.45	501	2	<0.01	30	0.20	9	<5	65	<0.01	49	<10	195
B2809	5	0.7	1.19	11	135	<1	<2	1.45	0.7	7	47	44	2.09	0.05	22	0.43	317	1	0.01	16	0.15	11	<5	56	0.02	23	<10	120
B2826	<5	0.6	0.54	22	94	<1	3	0.12	1.2	6	37	78	1.98	0.09	33	0.11	413	4	<0.01	8	0.06	124	<5	9	<0.01	11	<10	422
B2827	10	1.2	0.34	46	43	<1	<2	0.11	0.7	<1	2	144	8.30	0.06	15	0.05	89	<1	<0.01	2	0.04	106	<5	20	<0.01	4	<10	562
B2829	<5	0.7	0.59	8	119	<1	<2	0.05	0.2	6	21	17	5.16	0.37	57	0.24	112	9	<0.01	5	0.08	467	<5	24	0.01	10	<10	185
B2832	35	1.5	1.06	15	100	<1	<2	0.75	3.3	13	30	184	3.77	0.15	28	0.84	527	<1	<0.01	12	0.07	163	<5	33	0.03	15	<10	853
B2832*	10	1.6	1.06	18	101	<1	<2	0.75	3.4	14	34	184	3.78	0.15	28	0.85	529	<1	<0.01	18	0.07	166	<5	33	0.03	15	<10	865

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: YUKON VMS | Geol.: R STROSHEIN | Date Received: JULY 30, 1991 | Page 2 of 2
Area: 105G | Lab Project No.: P1445 | Date Completed: AUG 12, 1991 | Attn: R STROSHEIN
Remarks: J KOWALCHUK
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB) E KIMURA
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours. R HODGSON
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
B2840	<5	0.6	0.56	<5	130	<1	4	0.04	0.4	4	41	28	1.79	0.03	13	0.05	283	2	<0.01	14	0.05	10	<5	8	0.01	29	12	45
B2841	<5	0.2	1.64	18	164	<1	4	0.17	0.3	18	52	50	3.95	0.06	23	0.99	666	2	<0.01	47	0.08	13	10	14	0.06	48	<10	88
B2842	15	0.5	1.55	46	107	<1	4	0.13	0.2	20	67	49	5.08	0.04	24	0.95	587	1	<0.01	68	0.15	29	<5	16	0.01	51	<10	112
B2843	<5	0.6	0.80	57	124	<1	<2	0.03	<0.1	12	46	51	4.02	0.03	21	0.26	375	3	<0.01	46	0.09	16	<5	16	0.01	38	<10	66
B2844	5	0.3	0.98	21	143	<1	3	0.05	0.1	19	55	82	4.16	0.03	22	0.52	551	2	<0.01	70	0.09	12	<5	20	0.01	37	<10	67
B2845	<5	0.2	0.96	<5	290	<1	6	0.09	0.1	8	34	14	4.38	0.07	50	0.14	334	1	<0.01	10	0.13	10	<5	21	<0.01	28	<10	135
STD-AU8-P1	265	0.3	1.00	22	181	<1	<2	0.85	0.5	5	126	24	2.10	0.33	8	0.77	551	48	0.06	28	0.07	46	6	80	0.10	32	<10	145

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE 105G1
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissloved with this acid dissolution method.

Geol.: R STROSHEIN
Lab Project No.: P1459

Date Received: AUG 7, 1991
Date Completed: AUG 20, 1991

Attn: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
B	9	<5	0.7	6.23	11	186	1	<2	2.81	1.5	13	179	54	4.08	1.71	10	2.08	835	4	0.34	16	0.09	111	<5	117	0.16	99	<10	323
B	0	10	0.2	6.41	26	142	1	<2	2.79	<0.1	15	108	70	4.89	1.88	3	1.94	951	1	0.33	8	0.08	99	8	151	0.23	114	20	179
B	11	<5	0.2	6.87	15	212	1	<2	2.70	<0.1	16	124	79	5.05	2.34	2	2.32	1053	4	0.33	9	0.08	125	7	146	0.27	115	<10	327
B	12	<5	<0.1	1.31	19	87	<1	<2	0.50	<0.1	12	128	78	2.89	0.10	<1	1.56	287	<1	0.10	25	0.01	<2	<5	3	0.04	81	<10	77
B	13	10	<0.1	1.94	8	348	<1	<2	0.85	0.2	14	162	174	2.52	0.25	10	0.88	302	14	0.08	53	0.05	17	<5	35	0.04	81	<10	39
B	14	<5	0.2	2.08	7	783	<1	<2	0.86	<0.1	11	197	179	3.22	0.32	11	0.76	368	16	0.10	47	0.08	4	7	38	0.05	105	<10	39
B	15	35	0.2	1.91	10	108	<1	<2	0.46	<0.1	13	95	2359	5.08	0.29	<1	0.76	178	5	0.09	8	0.03	<2	<5	17	0.06	75	<10	15
B	16	5	<0.1	4.16	12	20	<1	<2	2.97	<0.1	18	96	266	3.15	0.02	<1	0.73	219	3	0.28	17	0.02	8	<5	80	0.05	90	<10	12
B	17	5	<0.1	0.78	<5	138	<1	<2	0.39	<0.1	4	111	119	1.85	<0.01	<1	0.89	117	<1	0.08	18	<0.01	<2	<5	4	0.04	37	<10	11
B	17*	<5	<0.1	0.79	8	143	<1	<2	0.39	<0.1	5	116	122	1.71	<0.01	<1	0.91	120	<1	0.08	19	<0.01	<2	<5	4	0.04	37	<10	11

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE 105G1
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissloved with this acid dissolution method.

Geol.: R STROSHEIN
Lab Project No.: P1460

Date Received: AUG 7, 1991
Date Completed: AUG 20, 1991

Attn: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
10 00N-30+00E		1.6	1.68	<5	166	1	<2	0.80	0.5	10	37	76	2.17	0.07	130	0.49	190	4	0.03	50	0.07	18	<5	44	0.03	34	13	57
10 00N-30+20E		1.0	2.65	<5	177	1	<2	0.55	1.3	30	43	64	3.58	0.22	97	0.75	468	5	0.02	77	0.07	22	<5	38	0.04	50	<10	89
10 00N-30+40E		1.2	2.94	6	262	2	<2	0.84	0.9	31	61	84	4.21	0.21	110	0.79	586	3	0.02	94	0.08	27	11	27	0.04	50	<10	141
10 00N-30+60E		0.9	2.70	16	198	1	<2	0.87	0.8	22	61	79	3.34	0.14	110	0.91	719	2	0.02	101	0.07	23	11	23	0.04	44	<10	119
10 00N-30+80E		0.4	1.75	<5	120	<1	<2	0.38	0.3	18	46	31	2.71	0.08	42	0.76	572	3	0.02	41	0.04	15	<5	16	0.04	36	<10	58
10 00N-31+20E		0.3	0.89	<5	123	<1	<2	0.22	0.7	4	40	14	1.49	0.06	12	0.41	118	2	0.01	22	0.02	11	<5	12	0.04	34	<10	46
10 00N-31+40E		<0.1	0.82	<5	67	<1	<2	0.06	0.8	4	34	10	1.92	0.07	12	0.34	118	<1	<0.01	14	0.02	9	<5	7	0.05	42	<10	44
10 00N-31+60E		<0.1	0.84	<5	66	<1	<2	0.05	0.2	6	68	19	2.81	0.04	12	0.38	122	5	<0.01	21	0.03	13	<5	6	0.08	71	<10	39
10 00N-31+80E		0.2	0.68	<5	57	<1	<2	0.14	0.8	3	37	10	1.51	0.06	12	0.26	130	1	<0.01	11	0.02	11	6	9	0.05	30	<10	42
10 00N-31+80E*		0.2	0.65	<5	55	<1	<2	0.13	0.8	3	36	9	1.46	0.06	12	0.25	124	4	<0.01	11	0.02	10	<5	9	0.05	28	<10	39
10 00N-32+00E		<0.1	0.95	<5	65	<1	7	0.09	1.2	6	41	23	2.23	0.08	17	0.36	148	5	<0.01	19	0.03	11	<5	9	0.06	45	14	65
10 00N-32+20E		0.5	2.40	12	173	1	4	0.41	1.1	57	49	81	4.03	0.13	26	0.81	1152	6	0.02	62	0.06	30	18	23	0.07	63	<10	223
10 00N-32+40E		0.8	1.85	5	159	<1	3	1.54	3.6	15	57	121	2.41	0.09	45	0.81	605	9	0.02	79	0.07	14	6	49	0.07	45	<10	118
10 00N-32+60E		0.6	0.50	<5	39	<1	6	2.09	0.4	3	21	28	0.35	0.02	13	0.05	26	5	0.18	15	0.04	4	15	56	0.02	9	<10	27
10 00N-33+00E		1.3	1.04	8	65	<1	<2	3.25	3.5	11	24	100	0.89	0.03	37	0.17	120	4	0.19	43	0.09	5	5	85	0.01	16	<10	43
10 00N-33+20E		0.6	1.71	7	89	<1	<2	0.23	1.7	6	35	27	3.44	0.17	27	0.87	193	9	0.04	21	0.04	11	12	35	0.08	54	<10	118
10 00N-33+40E		3.2	1.51	7	141	2	8	1.48	1.7	13	24	169	0.95	0.02	78	0.09	264	7	0.02	22	0.12	12	19	55	0.01	17	<10	39
10 00N-33+60E		0.3	5.38	13	323	1	2	1.16	0.5	20	<1	75	6.05	0.12	10	2.87	511	<1	0.11	24	0.07	22	15	86	0.18	169	<10	224
10 00N-33+80E		0.3	1.48	8	113	<1	4	1.13	1.0	7	56	28	1.42	0.03	14	0.53	236	3	0.03	25	0.05	9	11	40	0.07	31	<10	56
10 00N-33+80E*		0.4	1.36	9	115	<1	4	1.08	1.0	7	54	28	1.39	0.03	14	0.53	245	3	0.03	26	0.05	9	12	41	0.07	31	<10	57
10 00N-34+00E		<0.1	5.31	25	544	2	3	1.32	1.2	31	66	45	6.05	0.24	14	2.70	1471	<1	0.05	66	0.36	33	13	94	0.25	171	12	202
10 00N-34+20E		0.4	2.29	11	164	<1	<2	1.08	2.4	28	35	53	4.34	0.06	18	1.15	1877	6	0.07	66	0.09	29	6	43	0.07	124	<10	343
10 00N-34+40E		0.1	3.70	23	177	<1	<2	0.21	0.4	24	<1	45	5.75	0.23	7	2.61	519	<1	0.02	19	0.03	13	7	23	0.12	161	<10	126
10 00N-34+60E		0.2	4.35	10	356	1	6	0.55	<0.1	23	101	89	5.29	0.34	22	2.29	511	<1	0.03	69	0.08	22	12	63	0.17	148	<10	126
10 00N-34+80E		0.2	2.53	11	176	<1	7	0.80	<0.1	12	70	66	2.46	0.06	22	1.13	559	<1	0.03	38	0.12	21	14	35	0.05	59	<10	81
10 00N-35+00E		0.1	2.65	7	106	<1	7	0.34	<0.1	13	79	40	3.53	0.12	15	1.55	298	<1	0.02	47	0.06	25	5	20	0.14	79	<10	100
10 00N-35+20E		0.4	2.13	7	52	<1	6	0.44	<0.1	14	91	43	3.25	0.05	8	1.29	283	<1	0.03	51	0.04	10	<5	19	0.23	80	<10	78
10 00N-35+40E		<0.1	2.41	14	72	<1	4	0.88	<0.1	20	140	49	2.87	0.05	7	1.58	309	<1	0.07	70	0.08	10	<5	26	0.25	77	<10	93
10 00N-35+60E		0.1	1.27	<5	69	<1	8	0.28	<0.1	8	66	13	2.26	0.04	9	0.79	235	<1	0.02	31	0.03	12	6	15	0.15	61	<10	46
10 00N-35+60E*		0.1	1.20	5	66	<1	5	0.26	0.2	8	63	12	2.15	0.04	8	0.75	223	<1	0.02	29	0.03	12	13	14	0.14	58	<10	43
10 00N-35+80E		<0.1	2.34	11	99	<1	<2	0.25	<0.1	11	69	25	3.63	0.09	12	1.40	299	4	0.02	32	0.05	24	<5	13	0.17	100	16	95
10 00N-36+00E		0.1	2.16	9	67	<1	<2	0.26	<0.1	15	67	29	2.79	0.05	7	1.60	274	2	0.02	53	0.04	13	<5	18	0.15	67	<10	59
10 00N-36+20E		0.1	1.33	<5	64	<1	4	0.35	0.3	6	55	20	2.01	0.05	9	0.79	206	1	0.03	28	0.07	16	<5	18	0.14	50	<10	49
10 00N-36+40E		<0.1	1.56	8	46	<1	6	0.28	<0.1	12	69	15	2.46	0.04	7	1.41	238	2	0.02	40	0.03	12	<5	16	0.16	60	<10	52
10 00N-36+60E		<0.1	1.33	<5	47	<1	4	0.22	<0.1	9	67	10	2.05	0.04	7	1.20	176	2	0.02	36	0.05	13	<5	10	0.15	56	<10	40
10 00N-36+80E		<0.1	1.33	<5	58	<1	<2	0.27	<0.1	9	60	14	1.94	0.03	6	0.84	170	3	0.02	27	0.04	10	<5	13	0.12	50	<10	62
10 00N-37+00E		0.1	1.10	<5	61	<1	3	0.20	<0.1	6	56	8	1.69	0.03	6	0.58	123	2	0.02	19	0.06	13	9	11	0.10	47	<10	33
10 00N-37+20E		0.1	1.67	<5	75	<1	4	0.28	<0.1	6	66	13	2.85	0.03	5	0.78	168	1	0.02	27	0.07	13	<5	15	0.09	63	<10	53
10 00N-37+40E		<0.1	1.36	<5	44	<1	<2	0.20	0.1	8	68	7	2.22	0.03	7	0.83	169	1	0.02	29	0.03	11	13	10	0.10	54	<10	53
STD-P1		0.2	0.98	21	167	<1	<2	0.84	0.3	5	103	25	1.88	0.31	6	0.71	546	49	0.06	25	0.07	48	<5	80	0.10	30	<10	144
10 00N-37+60E		<0.1	1.11	<5	51	<1	6	0.20	<0.1	7	38	15	1.94	0.02	6	0.80	124	<1	0.02	15	0.04	8	6	11	0.12	53	15	45
10 00N-37+80E		0.1	2.01	9	103	<1	7	0.22	<0.1	9	43	22	3.50	0.04	9	0.77	157	<1	0.02	24	0.06	12	6	13	0.14	61	<10	54
10 00N-38+00E		0.2	2.02	8	97	<1	6	0.18	<0.1	7	51	14	2.75	0.05	12	0.83	191	3	0.01	22	0.06	17	8	13	0.09	68	<10	64
10 00N-38+20E		0.5	0.84	<5	55	<1	4	0.06	0.2	3	30	12	0.90	0.03	7	0.22	62	4	0.02	7	0.05	9	<5	6	0.01	22	<10	25
10 00N-38+40E		0.2	1.76	<5	137	<1	5	0.25	<0.1	9	46	21	2.26	0.07	12	0.97	192	2	0.03	23	0.04	12	7	15	0.09	63	<10	67
10 00N-38+60E		0.2	1.14	<5	116	<1	7	0.11	0.4	4	41	10	2.09	0.09	11	0.59	247	3	0.02	11	0.04	21	<5	12	0.13	82	<10	67
10 00N-38+80E		0.2	2.06	<5	192	<1	5	0.06	0.1	5	55	16	2.59	0.11	14	1.11	278	2	0.02	19	0.05	21	<5	17	0.11	91	<10	78
10 00N-39+00E		0.3	2.47	<5	229	<1	11	0.11	0.2	6	53	18	3.24	0.10	16	1.12	316	3	0.02	18	0.05	25	6	17	0.13	108	<10	102
10 00N-39+20E		0.1	1.83	<5	146	<1	8	0.06	0.2	6	55	19	2.31	0.06	13	1.00	342	8	0.01	26	0.03	23	<5	14	0.12	106	<10	119
10 00N-39+20E*		0.1	1.58	6	142	<1	5	0.07	0.2	5	54	19	2.27	0.06	13	0.98	339	7	0.01	26	0.03	20	6	14	0.12	106	<10	117

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE 105G1
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissloved with this acid dissolution method.

Geol.: R STROSHEIN
Lab Project No.: P1460

Date Received: AUG 7, 1991
Date Completed: AUG 20, 1991

Attn: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
1(	+00N–39+40E		<0.1	1.22	<5	254	<1	9	0.07	3.8	8	48	23	2.20	0.09	13	0.70	464	6	0.02	17	0.04	20	<5	16	0.08	86	11	101
1(	+00N–39+60E		0.1	1.56	11	195	<1	8	0.04	1.1	7	39	28	2.88	0.11	14	0.80	277	6	0.01	27	0.05	20	<5	19	0.04	82	<10	133
1(	+00N–39+80E		0.2	1.40	10	227	<1	6	0.08	0.8	4	36	24	2.45	0.14	13	0.80	234	6	0.03	12	0.04	22	<5	23	0.07	82	<10	85
S	)–P1		0.2	1.00	25	174	<1	<2	0.85	0.2	5	104	21	1.94	0.31	7	0.73	517	46	0.06	28	0.07	44	<5	82	0.10	31	<10	146

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE 105G02
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved with this acid dissolution method.

Geol.: R STROSHEIN
Lab Project No.: P1471

Date Received: AUG 12, 1991
Date Completed: AUG 23, 1991

Attn: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
2618		0.3	2.49	15	588	<1	<2	0.71	1.4	16	48	46	3.58	0.34	37	1.72	636	3	0.04	51	0.09	21	11	35	0.09	87	10	198
3+00N-37+00E		0.2	2.01	5	111	<1	3	0.13	0.1	11	46	18	3.30	0.08	6	1.38	290	<1	0.01	31	0.04	18	8	9	0.11	82	<10	129
3+00N-37+20E		0.2	2.41	<5	166	<1	<2	0.20	<0.1	10	56	20	3.54	0.07	10	1.35	275	1	0.01	37	0.06	18	6	15	0.09	71	<10	108
3+00N-37+40E		<0.2	1.79	<5	122	<1	<2	0.24	<0.1	12	61	16	2.75	0.07	7	1.16	260	<1	<0.01	44	0.05	9	<5	13	0.08	58	<10	110
3+00N-37+60E		0.4	1.76	<5	197	<1	<2	0.61	0.9	14	66	50	2.39	0.04	15	1.00	450	<1	0.01	45	0.04	12	<5	24	0.05	54	<10	148
3+00N-37+80E		<0.2	1.78	<5	129	<1	<2	0.28	<0.1	10	56	17	2.70	0.06	7	1.31	256	<1	0.01	38	0.03	7	6	16	0.10	70	<10	80
3+00N-38+00E		<0.2	2.14	<5	107	<1	<2	0.35	<0.1	14	70	20	3.33	0.08	7	1.36	325	<1	0.02	48	0.04	9	7	21	0.13	80	<10	119
3+00N-38+20E		<0.2	2.01	<5	83	<1	<2	0.15	<0.1	10	54	21	3.35	0.04	6	1.12	219	1	0.01	40	0.03	7	<5	12	0.11	72	<10	74
3+00N-38+40E		<0.2	2.11	<5	140	<1	2	0.15	<0.1	11	49	22	3.49	0.06	6	1.33	259	<1	0.01	35	0.04	15	<5	12	0.14	86	<10	90
3+00N-38+40E*		<0.2	2.07	<5	136	<1	2	0.14	<0.1	11	48	22	3.46	0.06	6	1.32	256	<1	0.01	34	0.04	13	<5	12	0.14	84	<10	89
3+00N-38+60E		<0.2	0.97	<5	81	<1	<2	0.10	0.2	7	27	15	1.83	0.04	6	0.48	219	2	<0.01	20	0.04	16	<5	11	0.09	42	14	65
3+00N-38+80E		0.2	1.86	6	123	<1	<2	0.18	<0.1	11	51	14	3.08	0.04	5	1.07	209	3	0.01	34	0.03	18	10	12	0.13	77	<10	101
3+00N-39+00E		<0.2	0.85	<5	53	<1	4	0.22	0.1	5	37	8	1.51	0.03	4	0.50	60	2	0.01	22	0.02	11	7	13	0.20	55	<10	26
3+00N-39+20E		<0.2	2.35	12	86	<1	5	0.34	<0.1	19	71	20	4.03	0.03	4	1.18	954	1	0.02	53	0.05	13	12	20	0.21	103	<10	70
3+00N-39+40E		<0.2	2.01	10	66	<1	4	0.54	<0.1	14	66	36	2.79	0.04	3	1.22	281	2	0.02	59	0.10	11	11	26	0.16	65	<10	62
3+00N-39+60E		<0.2	2.25	6	166	<1	2	0.17	0.7	10	46	17	4.05	0.07	5	1.26	269	<1	0.01	29	0.05	31	9	16	0.20	110	<10	148
3+00N-39+80E		<0.2	3.00	9	187	<1	2	0.18	0.1	11	40	26	4.25	0.15	7	1.44	324	<1	0.02	31	0.06	99	11	16	0.16	93	<10	173
3+00N-40+00E		<0.2	2.19	13	137	<1	<2	0.19	0.2	11	42	27	3.55	0.07	6	1.22	269	2	0.02	34	0.05	27	12	18	0.11	76	<10	128
3+00N-35+00E		<0.2	6.61	15	559	3	<2	1.88	<0.1	32	262	91	5.92	0.71	4	2.68	797	<1	0.17	168	0.18	19	12	112	0.39	119	<10	181
3+00N-35+00E*		<0.2	6.25	18	522	3	<2	1.82	<0.1	30	268	85	5.57	0.66	3	2.52	732	1	0.16	158	0.19	20	16	107	0.37	112	<10	170
3+00N-35+20E		0.5	2.18	6	307	1	<2	1.02	0.4	17	32	146	3.24	0.06	19	1.02	462	4	0.02	55	0.12	20	8	35	0.06	71	<10	138
3+00N-35+40E		<0.2	0.71	<5	110	<1	<2	0.20	0.1	5	10	14	1.33	0.07	4	0.47	123	2	0.01	11	0.02	8	<5	9	0.07	35	<10	41
3+00N-35+60E		<0.2	2.36	6	454	<1	<2	0.69	0.4	15	85	26	3.32	0.24	6	1.86	402	2	0.03	54	0.06	17	5	29	0.22	96	<10	148
3+00N-35+80E		<0.2	1.72	<5	174	<1	<2	0.21	0.3	10	30	22	3.12	0.10	6	1.19	271	3	<0.01	25	0.03	31	<5	17	0.09	71	<10	178
3+00N-36+00E		<0.2	1.53	<5	259	<1	<2	0.26	0.2	9	29	19	2.70	0.13	8	1.01	214	3	0.01	27	0.03	17	<5	31	0.12	73	<10	129
3+00N-36+20E		<0.2	2.12	<5	163	<1	<2	0.28	<0.1	12	44	17	2.88	0.08	7	1.82	333	2	0.02	32	0.04	15	<5	18	0.11	88	<10	151
3+00N-36+40E		<0.2	1.07	<5	65	<1	<2	0.14	<0.1	6	26	14	2.08	0.06	5	0.86	171	<1	<0.01	17	0.03	17	<5	10	0.06	56	<10	58
3+00N-36+60E		<0.2	1.61	<5	140	<1	<2	0.12	0.1	10	38	17	2.42	0.04	5	1.01	276	3	0.01	26	0.03	25	<5	10	0.11	61	<10	97
3+00N-36+80E		<0.2	1.22	<5	64	<1	<2	0.35	<0.1	9	36	30	1.89	0.04	5	0.75	156	2	0.02	33	0.04	7	5	16	0.10	44	<10	53
3+00N-36+80E*		<0.2	1.21	<5	64	<1	<2	0.34	<0.1	9	36	29	1.86	0.04	4	0.76	154	3	0.02	33	0.04	6	10	16	0.10	44	<10	52
3+00N-37+20E		<0.2	2.00	<5	70	<1	<2	0.17	<0.1	9	37	27	2.18	0.03	5	0.85	150	<1	0.01	34	0.05	11	<5	13	0.08	45	14	49
3+00N-37+40E		<0.2	1.77	<5	148	<1	<2	0.22	<0.1	11	49	21	3.00	0.06	6	1.15	193	<1	0.01	33	0.09	27	7	19	0.11	64	<10	126
3+00N-37+60E		<0.2	1.22	<5	107	<1	<2	0.11	0.2	7	37	18	2.66	0.04	4	0.82	167	<1	0.01	24	0.05	24	6	11	0.12	69	<10	86
3+00N-37+80E		<0.2	0.97	<5	87	<1	<2	0.08	0.2	3	22	14	1.53	0.03	6	0.49	122	2	<0.01	12	0.03	16	<5	8	0.03	45	<10	42
3+00N-38+00E		<0.2	1.48	<5	128	<1	<2	0.13	<0.1	6	24	16	2.10	0.04	10	0.87	157	<1	<0.01	21	0.04	17	7	11	0.05	44	<10	51
TD-P1		0.2	0.96	23	187	<1	<2	0.82	0.3	5	85	24	2.13	0.34	6	0.79	543	44	0.06	29	0.08	51	14	78	0.10	32	<10	140

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE 105G02
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved with this acid dissolution method.

Geol.: R STROSHEIN
Lab Project No.: P1472

Date Received: AUG 12, 1991
Date Completed: AUG 23, 1991

Attn: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
32619		<0.2	2.38	20	1510	<1	<2	0.44	0.1	16	209	119	3.57	0.94	5	2.21	391	<1	0.10	61	0.04	6	<5	16	0.10	88	<10	72
32620		<0.2	1.02	11	264	<1	<2	0.49	0.1	11	232	92	2.02	0.22	<1	1.30	291	2	0.06	61	0.02	<2	<5	10	0.03	41	<10	32
32621		<0.2	2.91	17	835	<1	<2	0.83	<0.1	10	140	56	3.73	0.89	9	1.66	441	12	0.11	28	0.10	5	5	21	0.11	127	<10	84
32622		<0.2	1.80	16	483	<1	<2	0.55	<0.1	9	127	124	2.93	0.56	<1	1.34	222	<1	0.14	21	0.02	4	<5	24	0.09	110	<10	39
32623		<0.2	3.82	16	1679	<1	2	1.16	<0.1	14	156	93	3.86	0.94	7	1.89	377	3	0.19	41	0.06	12	8	34	0.13	115	<10	131
32623*		<0.2	3.92	16	1722	<1	3	1.18	<0.1	14	156	97	3.89	0.94	7	1.91	394	6	0.20	41	0.06	11	<5	35	0.13	117	12	134
STD-P1		0.2	0.98	20	190	<1	2	0.84	0.4	5	104	24	2.08	0.32	6	0.78	534	43	0.06	28	0.07	45	8	79	0.10	32	<10	136

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: AUG 22, 1991 | Page 1 of 4
Area: FIRE LAKE 105G02 | Lab Project No.: P1491 | Date Completed: SEPT 6, 1991 | Attn: R STROSHEIN, J KOWALCHUK, E KIMURA, R HODGSON
Remarks: SOME SAMPLES RERUN FOR AU AS REQUESTED BY FAX ON SEPT 10, 1991
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
81+00N-55+00E		0.7	2.09	9	469	<1	<2	0.42	0.4	11	76	29	3.16	0.11	20	1.47	458	6	0.02	59	0.06	31	8	24	0.06	69	<10	233
81+00N-55+20E		1.1	1.60	<5	451	<1	<2	0.37	0.5	6	68	28	2.77	0.08	19	0.91	347	4	0.01	50	0.06	36	<5	23	0.03	57	<10	178
81+00N-55+40E		0.6	1.64	<5	508	<1	<2	0.73	0.7	9	64	17	2.82	0.15	16	1.22	390	5	0.02	40	0.06	28	<5	36	0.07	62	<10	199
81+00N-55+60E		1.3	1.16	<5	448	<1	<2	0.71	0.9	5	42	21	1.42	0.05	13	0.53	311	2	0.03	27	0.07	17	6	37	0.03	26	<10	92
81+00N-55+80E		0.9	1.83	6	509	<1	<2	0.46	0.7	10	69	30	3.06	0.09	23	1.32	434	6	0.01	62	0.07	46	<5	24	0.05	62	<10	270
81+00N-56+00E		1.1	1.83	<5	389	<1	<2	0.29	0.8	10	73	20	3.04	0.08	18	1.33	380	5	<0.01	54	0.05	35	<5	18	0.04	57	<10	291
81+00N-56+20E		5.0	4.62	27	787	<1	<2	0.76	2.0	22	109	42	6.17	1.11	28	3.76	1129	5	0.02	105	0.08	149	<5	32	0.19	131	10	897
81+00N-56+40E		1.4	1.64	9	560	<1	<2	0.53	3.1	10	68	36	3.00	0.07	31	1.06	608	8	<0.01	66	0.06	43	<5	29	0.03	59	<10	480
81+00N-56+60E		0.5	1.53	<5	474	<1	<2	0.54	1.8	10	60	37	2.56	0.05	14	0.86	358	6	<0.01	48	0.08	28	<5	37	0.02	59	<10	261
81+00N-56+60E*		0.5	1.48	<5	453	<1	<2	0.52	1.8	9	59	36	2.53	0.05	13	0.84	349	7	<0.01	47	0.08	26	<5	36	0.02	58	<10	255
81+00N-56+80E		0.3	1.41	<5	423	<1	<2	0.30	0.8	7	58	27	2.16	0.05	17	0.73	257	5	0.01	36	0.07	21	<5	24	0.03	62	17	213
81+00N-57+00E		0.8	1.85	<5	514	<1	<2	0.25	1.8	5	54	24	2.76	0.15	16	1.14	268	7	0.02	17	0.07	21	<5	28	0.04	80	10	211
81+00N-57+20E		0.9	3.18	34	1082	1	2	0.70	3.3	19	130	57	4.32	0.15	108	2.12	1037	4	0.02	116	0.12	33	<5	47	0.06	128	14	340
81+00N-57+40E		<0.1	2.95	<5	400	<1	<2	0.13	0.7	17	93	30	4.83	0.25	19	2.04	768	2	0.02	59	0.07	35	<5	11	0.09	108	12	176
81+00N-57+60E		0.1	0.44	<5	93	<1	<2	0.03	0.5	2	30	6	0.89	0.04	12	0.13	148	1	0.01	8	0.04	22	<5	4	0.01	17	<10	52
81+00N-57+80E		0.1	1.44	<5	699	<1	<2	0.06	2.0	4	17	6	2.54	0.15	15	0.95	325	3	<0.01	7	0.04	18	<5	8	0.04	44	<10	160
81+00N-58+00E		0.2	0.60	<5	198	<1	<2	0.01	1.4	4	32	31	2.66	0.04	17	0.04	135	5	<0.01	25	0.09	31	<5	8	<0.01	30	<10	310
81+00N-58+20E		0.5	1.29	27	2393	<1	<2	0.18	4.2	24	188	71	4.81	0.05	15	0.52	552	4	<0.01	269	0.13	35	<5	24	<0.01	81	<10	328
81+00N-58+40E		2.0	1.16	106	124	<1	7	0.09	3.1	10	106	140	11.27	0.77	8	0.37	239	17	0.05	133	0.21	159	14	31	0.02	83	<10	483
81+00N-58+40E*		2.0	1.11	107	123	<1	10	0.09	3.0	10	103	133	10.92	0.75	8	0.35	225	14	0.05	128	0.21	152	12	31	0.02	80	11	463
81+00N-58+60E		0.5	2.86	130	887	<1	<2	0.53	6.0	37	418	43	5.40	0.06	28	1.83	5700	3	0.01	315	0.12	89	<5	26	0.03	70	22	490
81+00N-58+80E		0.2	1.45	<5	141	<1	<2	0.03	0.4	9	228	16	2.66	0.04	10	1.10	305	<1	<0.01	113	0.06	21	<5	7	0.01	63	<10	101
81+00N-59+00E		0.4	1.68	19	246	<1	<2	0.09	0.5	25	369	18	3.59	0.05	11	2.02	707	<1	0.01	270	0.06	35	<5	14	0.03	72	11	154
81+00N-59+20E		0.5	2.66	7	256	<1	<2	0.13	0.4	14	117	27	4.36	0.09	12	1.54	480	2	0.02	99	0.06	22	10	20	0.08	89	<10	217
81+00N-59+40E		0.2	2.55	9	189	<1	<2	0.08	0.3	11	112	27	4.31	0.07	13	1.52	497	3	0.01	77	0.06	23	<5	14	0.09	101	<10	246
81+00N-59+60E		0.1	1.36	25	223	<1	3	0.11	0.4	37	336	14	3.82	0.05	9	2.30	1091	1	<0.01	396	0.07	24	<5	14	0.04	61	<10	153
81+00N-59+80E		0.1	1.43	13	360	<1	<2	0.09	0.4	35	228	20	2.85	0.04	13	1.11	1946	1	<0.01	297	0.08	17	6	17	0.02	53	<10	89
81+00N-60+00E		0.1	1.09	195	253	<1	7	0.08	0.5	54	437	17	6.40	0.04	6	1.44	1926	3	0.01	751	0.12	14	11	12	0.02	32	<10	145
82+00N-55+00E		0.4	1.95	11	366	<1	<2	0.38	0.7	9	70	17	2.76	0.06	16	1.20	326	1	0.02	43	0.08	18	<5	22	0.06	63	<10	161
STD-P1		0.2	1.09	23	203	<1	<2	0.89	0.4	6	114	24	2.18	0.36	8	0.82	573	47	0.07	30	0.08	48	<5	87	0.11	34	<10	143
82+00N-55+20E		0.6	1.52	<5	443	<1	<2	0.36	0.8	11	53	23	2.25	0.06	16	0.79	411	5	0.02	33	0.08	15	<5	23	0.05	43	17	121
82+00N-55+40E		0.4	2.43	5	632	<1	<2	0.40	0.9	15	76	40	3.77	0.16	27	1.57	658	6	0.03	84	0.08	33	7	27	0.08	81	11	228
82+00N-55+60E		0.9	2.63	9	634	<1	<2	0.51	2.1	13	74	39	3.62	0.07	33	1.48	512	4	0.02	65	0.06	33	<5	29	0.06	78	10	237
82+00N-55+80E		0.2	1.93	<5	409	<1	<2	0.43	0.9	10	57	19	2.73	0.13	18	1.12	540	5	0.02	32	0.06	24	7	25	0.06	62	<10	163
82+00N-56+00E		0.6	2.26	12	516	<1	<2	0.21	2.2	14	85	25	3.51	0.13	21	1.37	536	3	0.01	72	0.08	30	<5	18	0.06	71	<10	217
82+00N-56+20E		0.5	2.90	<5	774	<1	2	0.40	0.8	10	59	19	3.88	0.19	22	1.81	479	4	0.02	28	0.07	25	8	30	0.09	104	<10	238
82+00N-56+40E		0.2	3.35	9	479	<1	6	0.31	1.2	17	67	29	4.75	0.31	20	1.86	648	8	0.02	53	0.10	30	<5	22	0.11	96	10	240
82+00N-56+60E		0.5	1.87	<5	307	<1	<2	0.11	0.7	6	60	18	2.43	0.05	20	1.02	265	2	0.02	26	0.06	18	<5	12	0.04	65	<10	146
82+00N-56+80E		0.4	2.84	8	543	<1	4	0.22	0.8	14	80	39	4.39	0.27	25	1.78	684	8	0.02	60	0.09	29	<5	19	0.08	99	13	288
82+00N-56+80E*		0.4	2.82	11	533	<1	<2	0.21	0.9	14	79	38	4.38	0.27	25	1.77	687	7	0.02	60	0.09	26	<5	19	0.08	98	<10	285
82+00N-57+00E		0.6	3.81	12	554	1	5	0.17	0.7	17	94	38	5.28	0.45	26	2.37	865	5	0.02	55	0.08	30	<5	19	0.11	129	23	271
82+00N-57+20E		0.6	1.44	<5	410	<1	<2	0.13	1.4	6	53	31	1.84	0.10	53	0.55	373	4	0.02	23	0.09	26	<5	15	0.02	45	<10	84
82+00N-57+40E		0.3	3.63	8	601	2	3	0.49	0.8	11	85	30	4.05	0.20	63	2.11	677	5	0.03	49	0.08	43	<5	30	0.10	112	13	202
82+00N-57+60E		0.6	3.13	11	720	2	<2	0.58	0.9	12	88	33	4.25	0.26	236	1.79	625	4	0.02	57	0.08	47	6	31	0.07	99	11	222
82+00N-57+80E		0.1	1.67	<5	249	<1	<2	0.06	0.3	6	62	21	2.85	0.10	16	0.90	288	5	0.01	31	0.04	22	<5	11	0.07	79	<10	117
82+00N-58+00E		0.2	1.14	8	205	<1	<2	0.06	0.2	7	79	20	2.64	0.06	21	0.58	199	4	<0.01	48	0.04	22	<5	7	0.02	62	<10	110
82+00N-58+20E		0.1	1.38	<5	829	<1	<2	0.28	1.0	7	64	17	2.89	0.11	26	0.62	643	7	0.01	30	0.07	37	<5	23	0.04	69	<10	184
82+00N-58+40E		0.2	2.05	51	824	<1	2	0.30	2.7	32	153	51	6.38	0.07	10	1.26	2976	8	<0.01	161	0.17	32	<5	23	0.02	128	11	724
82+00N-58+60E		0.8	1.16	44	3445	<1	3	0.09	2.3	15	50	156	6.49	0.08	12	0.14	1526	14	<0.01	114	0.28	140	6	25	<0.01	63	<10	1036
82+00N-58+60E*		0.8	1.11	41	3294	<1	4	0.08	2.3	14	48	149	6.22	0.08	12	0.13	1456	16	<0.01	110	0.27	132	7	23	<0.01	61	<10	998

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: AUG 22, 1991 | Page 2 of 4
Area: FIRE LAKE 105G02 | Lab Project No.: P1491 | Date Completed: SEPT 6, 1991 | Attn: R STROSHEIN, J KOWALCHUK, E KIMURA, R HODGSON
Remarks: SOME SAMPLES RERUN FOR AU AS REQUESTED BY FAX ON SEPT 10, 1991
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
82+00N-58+80E		0.1	1.87	26	335	<1	<2	0.28	0.5	16	192	23	3.60	0.08	15	1.41	548	2	<0.01	160	0.07	16	<5	24	0.04	76	14	335
82+00N-59+00E		0.7	1.65	52	452	<1	2	0.75	2.7	15	188	31	2.69	0.10	11	1.02	609	2	0.02	183	0.28	24	<5	53	0.02	47	<10	207
82+00N-59+20E		0.3	1.40	25	206	<1	3	0.08	0.8	15	265	28	3.87	0.09	14	1.03	528	2	<0.01	181	0.09	15	<5	14	0.02	67	<10	112
82+00N-59+40E		0.1	2.94	28	337	<1	5	0.15	0.4	24	204	31	5.00	0.19	16	1.72	1118	<1	0.01	188	0.08	23	<5	16	0.08	98	<10	183
82+00N-59+60E		0.2	1.19	<5	134	<1	<2	0.07	0.2	7	45	18	2.89	0.10	14	0.30	578	2	<0.01	23	0.09	15	<5	13	0.01	43	<10	75
82+00N-59+80E		0.1	1.13	9	282	<1	<2	0.05	0.2	12	90	36	4.00	0.10	15	0.47	595	5	<0.01	75	0.11	21	<5	8	0.02	179	<10	208
82+00N-60+00E		0.2	3.45	18	574	<1	9	0.12	0.2	33	159	37	6.84	0.31	13	1.86	1975	2	<0.01	126	0.07	8	<5	10	0.20	152	11	137
83+00N-55+00E		0.2	2.71	6	285	<1	4	0.19	0.4	10	60	19	4.22	0.21	16	1.46	764	5	0.02	23	0.07	24	<5	18	0.08	107	<10	154
83+00N-55+20E		0.2	2.71	<5	447	<1	2	0.21	0.3	11	69	24	4.43	0.16	18	1.62	510	4	0.01	33	0.06	27	<5	22	0.08	107	<10	181
83+00N-55+20E*		0.2	2.74	7	454	<1	<2	0.21	0.4	11	69	24	4.48	0.16	18	1.64	515	3	0.01	33	0.06	29	<5	22	0.08	108	<10	181
83+00N-55+40E		0.4	2.64	<5	628	<1	<2	0.66	0.7	11	55	34	3.33	0.06	25	1.22	850	6	0.02	32	0.16	29	<5	43	0.04	75	17	147
83+00N-55+60E		0.1	2.56	<5	352	<1	<2	0.41	0.5	11	51	17	3.12	0.13	15	1.38	668	5	0.03	22	0.08	25	<5	26	0.08	81	10	168
83+00N-55+80E		0.1	3.12	<5	540	<1	3	0.40	1.1	17	57	24	4.23	0.32	18	1.90	2004	6	0.04	26	0.09	25	<5	32	0.10	109	12	235
83+00N-56+00E		0.3	1.90	<5	507	<1	<2	0.34	0.7	9	56	22	2.66	0.06	16	0.98	530	4	0.02	28	0.11	19	<5	25	0.04	66	<10	158
83+00N-56+20E		<0.1	3.26	<5	357	<1	<2	0.12	0.5	11	73	20	4.44	0.20	17	1.96	660	6	0.02	29	0.08	22	<5	16	0.11	132	11	211
83+00N-56+40E		0.1	3.59	11	484	<1	<2	0.54	0.4	14	78	22	4.38	0.14	19	2.22	975	5	0.04	33	0.09	18	<5	36	0.12	126	12	248
83+00N-56+60E		1.8	2.86	11	519	1	<2	0.60	1.2	13	64	86	3.47	0.16	29	1.76	668	10	0.01	53	0.13	34	<5	35	0.04	144	<10	410
83+00N-56+80E		0.1	2.18	7	462	<1	<2	0.44	0.7	9	61	18	3.29	0.08	38	1.29	360	2	0.01	37	0.08	29	<5	24	0.04	60	<10	223
83+00N-57+00E		0.2	2.30	18	573	<1	<2	0.64	1.8	12	76	31	3.78	0.10	43	1.35	655	3	0.03	49	0.08	31	8	32	0.06	71	<10	322
83+00N-57+00E*		0.2	2.26	10	550	<1	<2	0.62	1.8	13	76	30	3.72	0.09	42	1.32	641	3	0.02	48	0.08	32	<5	31	0.06	70	<10	314
83+00N-57+20E		0.1	2.71	9	516	<1	5	0.64	1.4	11	65	21	3.71	0.14	22	1.54	847	3	0.03	25	0.10	19	<5	36	0.08	93	20	293
83+00N-57+40E		0.3	3.00	7	628	<1	<2	0.80	2.2	11	72	21	3.94	0.14	18	1.74	561	<1	0.04	30	0.09	15	7	40	0.10	98	14	278
83+00N-57+60E		<0.1	1.81	<5	408	<1	<2	0.35	4.4	6	55	17	2.04	0.04	13	0.63	284	<1	0.02	30	0.10	11	6	22	0.04	41	<10	283
83+00N-57+80E		<0.1	3.77	5	274	<1	7	0.18	0.5	10	86	23	5.27	0.17	16	1.59	731	2	0.02	27	0.09	22	10	17	0.08	118	13	192
83+00N-58+00E		0.3	3.58	<5	316	<1	7	0.14	0.4	15	91	28	5.46	0.22	18	1.76	1491	4	0.02	38	0.11	27	6	15	0.09	128	11	185
83+00N-58+20E		<0.1	3.08	<5	169	<1	8	0.12	0.3	14	82	29	5.77	0.10	19	1.46	1193	5	0.01	45	0.10	35	8	18	0.07	117	10	187
83+00N-58+40E		0.1	2.68	<5	178	<1	3	0.06	0.2	9	75	20	5.31	0.10	21	1.01	814	5	0.01	22	0.09	27	<5	14	0.05	118	11	126
83+00N-58+60E		0.2	3.11	<5	297	<1	6	0.14	0.5	13	89	27	5.04	0.22	20	1.61	1018	5	0.02	36	0.09	25	9	17	0.08	117	<10	195
83+00N-58+80E		0.6	2.81	15	309	1	5	0.16	0.4	14	91	29	4.52	0.19	21	1.28	997	2	0.01	58	0.08	26	5	18	0.05	82	<10	226
STD-P1		0.2	1.16	22	209	<1	<2	0.93	0.4	6	140	24	2.37	0.36	9	0.84	625	50	0.07	32	0.08	49	8	94	0.12	39	<10	148
83+00N-59+00E		0.3	2.77	8	232	<1	4	0.09	0.4	14	52	63	5.79	0.16	14	1.26	853	4	0.02	44	0.07	19	12	10	0.06	137	17	137
83+00N-59+20E		0.4	1.19	<5	138	<1	<2	0.07	0.4	11	47	30	2.83	0.12	15	0.34	1680	1	0.01	27	0.09	40	9	10	0.01	49	11	81
83+00N-59+40E		0.2	1.81	12	199	<1	2	0.18	0.5	12	53	28	3.60	0.13	17	0.71	1001	2	0.01	29	0.08	31	8	13	0.02	50	13	119
83+00N-59+60E		0.3	2.04	8	236	<1	3	0.09	0.8	19	77	36	4.87	0.15	19	0.87	2561	4	0.01	46	0.10	49	<5	12	0.03	78	12	146
83+00N-59+80E		0.1	1.96	6	204	<1	5	0.13	0.8	19	77	33	4.36	0.20	17	0.89	2118	5	0.01	44	0.12	40	<5	17	0.02	78	12	132
83+00N-60+00E		0.1	1.80	<5	263	<1	2	0.08	0.7	25	59	25	3.51	0.17	18	0.45	3655	4	0.01	27	0.09	46	9	12	0.03	82	11	120
127+00N-45+00E	<5	0.2	1.73	<5	290	<1	2	0.13	0.4	9	91	44	2.81	0.16	11	0.70	229	2	0.02	28	0.04	17	7	11	0.09	68	17	65
127+00N-45+20E	<5	0.1	3.19	<5	281	1	4	0.14	0.4	15	176	68	4.23	0.13	9	1.23	319	3	0.02	51	0.07	14	8	10	0.10	75	25	101
127+00N-45+40E	<5	0.2	2.72	<5	275	1	2	0.12	0.3	16	142	57	4.10	0.18	10	1.19	249	4	0.02	48	0.05	14	10	13	0.12	90	17	87
127+00N-45+40E*	<5	0.2	2.82	<5	284	1	2	0.12	0.4	16	146	60	4.26	0.18	10	1.23	258	3	0.03	50	0.05	15	11	13	0.12	93	15	91
127+00N-45+60E	<5	0.1	2.29	<5	242	<1	<2	0.13	0.2	15	163	81	3.13	0.16	9	1.35	302	4	0.01	59	0.04	8	<5	12	0.08	80	20	89
127+00N-45+80E	<5	0.2	1.91	<5	110	<1	<2	0.12	0.2	12	176	64	2.47	0.04	5	1.22	172	5	<0.01	57	0.03	3	<5	5	0.06	51	<10	57
127+00N-46+00E	<5	0.2	1.23	<5	99	<1	<2	0.12	0.1	10	140	33	1.90	0.03	5	0.82	280	<1	0.01	39	0.03	4	<5	6	0.04	40	<10	42
127+00N-46+20E	<5	0.1	2.09	<5	121	<1	<2	0.10	0.2	16	223	38	3.18	0.07	4	1.61	200	<1	0.01	69	0.03	3	<5	4	0.06	61	49	66
127+00N-46+40E	<5	0.1	1.75	<5	101	<1	<2	0.13	0.3	15	176	60	2.71	0.05	8	1.07	264	2	0.01	57	0.04	6	<5	7	0.05	43	13	57
127+00N-46+60E	<5	0.1	1.69	<5	83	<1	<2	0.13	0.3	13	217	58	2.74	0.04	7	1.37	143	3	0.01	70	0.03	6	<5	6	0.05	49	15	45
127+00N-46+80E	<5	0.2	2.88	5	76	<1	7	0.09	0.1	23	300	62	5.32	0.05	9	2.07	267	6	0.01	93	0.05	10	8	6	0.07	80	22	74
127+00N-47+00E	<5	0.2	3.70	10	106	1	6	0.12	0.3	34	313	124	5.37	0.05	9	2.66	310	3	0.01	116	0.06	7	5	6	0.05	79	28	82
127+00N-47+20E	<5	0.2	2.73	<5	101	<1	3	0.09	0.4	25	243	103	4.82	0.05	10	1.89	289	2	<0.01	88	0.05	8	11	5	0.06	70	16	86
STD-AU8-P1	320	0.2	1.21	21	211	<1	<2	1.02	0.5	6	128	26	2.32	0.38	12	0.89	556	51	0.08	33	0.08	55	9	101	0.13	38	<10	153

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: AUG 22, 1991 | Page 3 of 4
Area: FIRE LAKE 105G02 | Lab Project No.: P1491 | Date Completed: SEPT 6, 1991 | Attn: R STROSHEIN, J KOWALCHUK, E KIMURA, R HODGSON
Remarks: SOME SAMPLES RERUN FOR AU AS REQUESTED BY FAX ON SEPT 10, 1991
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Tl %	V ppm	W ppm	Zn ppm
127+00N-47+40E	<5	0.1	2.43	6	58	<1	<2	0.05	0.1	25	240	74	3.83	0.02	5	1.92	475	4	<0.01	77	0.06	6	<5	4	0.02	68	22	71
127+00N-47+60E	<5	0.1	2.10	<5	68	<1	<2	0.10	<0.1	29	283	73	3.54	0.02	4	2.00	360	2	<0.01	104	0.03	6	6	4	0.05	64	13	58
127+00N-47+80E	<5	0.1	1.58	<5	51	<1	<2	0.11	<0.1	16	203	58	2.53	0.02	4	1.22	177	<1	<0.01	73	0.02	3	<5	4	0.05	47	10	44
127+00N-48+00E	<5	0.1	1.79	<5	42	<1	<2	0.05	<0.1	14	200	41	3.40	0.02	4	1.46	188	3	<0.01	56	0.03	6	<5	3	0.05	74	<10	54
127+00N-48+20E	<5	0.1	3.10	<5	70	<1	<2	0.06	<0.1	30	313	126	4.94	0.06	4	2.71	419	5	<0.01	98	0.05	4	<5	4	0.06	82	15	82
127+00N-48+40E	<5	0.2	2.81	<5	132	1	<2	0.08	0.1	26	299	279	5.71	0.06	4	2.26	322	8	<0.01	109	0.07	3	<5	5	0.04	78	13	87
127+00N-48+60E	<5	<0.1	3.89	<5	87	<1	<2	0.04	<0.1	35	379	118	5.99	0.05	3	3.64	304	4	<0.01	120	0.04	2	<5	3	0.05	98	15	89
127+00N-48+80E	<5	<0.1	3.01	11	67	<1	<2	0.06	<0.1	31	226	126	4.96	0.03	6	2.38	242	3	<0.01	109	0.04	4	<5	4	0.05	82	11	79
127+00N-49+00E	<5	<0.1	2.12	<5	69	<1	<2	0.08	<0.1	17	148	96	3.43	0.04	6	1.64	293	2	<0.01	64	0.03	4	<5	5	0.06	57	<10	89
127+00N-49+00E*	<5	<0.1	2.04	<5	66	<1	<2	0.08	0.1	16	143	91	3.30	0.04	6	1.58	283	2	<0.01	62	0.03	5	<5	5	0.06	55	<10	83
127+00N-49+20E	<5	0.1	1.80	<5	72	<1	<2	0.09	0.2	31	112	94	4.04	0.05	10	1.00	1076	4	<0.01	45	0.04	6	<5	8	0.07	68	18	89
127+00N-49+40E	<5	<0.1	1.98	6	60	<1	<2	0.08	0.1	24	172	221	3.38	0.05	6	1.59	320	2	<0.01	78	0.03	7	<5	5	0.04	56	13	93
127+00N-49+60E	<5	0.1	1.33	<5	40	<1	<2	0.04	0.1	9	158	62	1.79	0.02	5	1.27	149	2	<0.01	52	0.03	5	<5	3	0.02	34	<10	61
127+00N-49+80E	<5	0.1	1.45	<5	46	<1	<2	0.06	0.1	12	178	80	2.53	0.02	5	1.31	195	1	<0.01	60	0.03	5	<5	3	0.03	47	15	77
127+00N-50+00E	<5	0.3	3.16	7	150	<1	5	0.05	<0.1	23	339	201	4.79	0.08	3	3.01	327	2	0.01	105	0.04	4	5	3	0.05	72	14	173
127+00N-50+20E	<5	0.1	2.68	<5	99	<1	3	0.05	<0.1	19	322	212	3.69	0.08	4	2.92	312	2	<0.01	131	0.03	3	<5	3	0.03	59	18	131
127+00N-50+40E	<5	0.3	1.68	<5	71	<1	<2	0.10	0.2	14	204	263	2.79	0.04	5	1.63	179	1	<0.01	98	0.03	5	<5	5	0.04	47	<10	78
127+00N-50+60E	<5	0.2	2.77	<5	88	1	3	0.07	<0.1	22	330	373	5.01	0.06	4	2.68	352	<1	<0.01	99	0.03	5	<5	4	0.04	74	19	139
127+00N-50+80E	<5	0.1	1.84	<5	71	<1	<2	0.12	0.2	22	180	328	2.50	0.04	5	1.56	252	2	<0.01	96	0.03	3	<5	6	0.04	46	<10	75
127+00N-50+80E*	<5	0.1	1.87	<5	71	<1	<2	0.12	0.1	22	182	334	2.55	0.04	5	1.59	257	2	<0.01	98	0.03	4	<5	6	0.04	47	<10	77
127+00N-51+00E	<5	0.2	1.46	<5	42	<1	<2	0.09	0.2	12	199	231	2.25	0.02	7	1.24	216	4	<0.01	58	0.04	4	<5	6	0.04	47	17	52
128+00N-45+00E	<5	0.1	3.03	<5	456	<1	<2	0.06	<0.1	8	72	36	4.38	0.84	15	1.32	417	5	0.05	15	0.06	6	<5	26	0.16	71	14	93
128+00N-45+20E	<5	0.2	2.14	<5	290	<1	<2	0.24	0.1	17	129	124	2.92	0.06	9	0.85	376	2	0.02	77	0.09	10	<5	26	0.02	57	<10	94
128+00N-45+40E	<5	0.1	0.87	<5	144	<1	<2	0.10	<0.1	9	166	11	1.35	0.05	3	0.79	135	3	0.01	43	0.01	<2	<5	3	0.06	37	22	30
128+00N-45+60E	<5	0.1	1.20	<5	112	<1	<2	0.12	<0.1	11	186	27	2.06	0.04	3	1.11	191	3	0.01	52	0.02	<2	<5	4	0.06	47	<10	43
128+00N-45+80E	<5	0.1	1.12	<5	74	<1	<2	0.12	0.1	9	167	18	1.69	0.03	4	1.06	139	1	0.01	52	0.02	3	<5	4	0.05	38	<10	32
128+00N-46+00E	<5	0.1	0.93	<5	32	<1	<2	0.10	<0.1	8	175	16	1.57	0.01	3	0.95	102	1	<0.01	51	0.01	<2	<5	3	0.05	38	16	29
128+00N-46+20E	<5	0.1	1.29	<5	52	<1	<2	0.12	<0.1	11	205	14	2.08	0.02	2	1.15	163	<1	0.01	60	0.02	2	<5	3	0.05	47	<10	50
128+00N-46+40E	<5	<0.1	1.84	<5	119	<1	<2	0.16	<0.1	18	296	112	2.48	0.05	3	1.85	192	3	0.01	108	0.03	<2	<5	6	0.06	50	12	46
128+00N-46+40E*	<5	<0.1	2.01	<5	134	<1	<2	0.18	<0.1	20	322	124	2.70	0.05	3	2.01	210	2	0.01	118	0.03	<2	7	7	0.06	55	16	51
128+00N-46+60E	<5	<0.1	1.00	<5	74	<1	<2	0.11	0.2	10	175	28	1.45	0.01	3	1.04	113	<1	<0.01	57	0.02	<2	<5	5	0.03	29	22	37
128+00N-46+80E	<5	<0.1	2.06	<5	140	<1	<2	0.13	0.1	17	248	49	3.68	0.11	4	1.87	213	<1	0.01	78	0.03	3	<5	4	0.07	79	215	74
128+00N-47+00E	<5	<0.1	1.67	<5	87	<1	<2	0.11	<0.1	13	237	37	3.95	0.08	4	1.53	228	1	0.01	70	0.03	2	<5	3	0.08	98	114	57
128+00N-47+20E	<5	<0.1	3.01	5	55	<1	<2	0.08	<0.1	34	353	69	6.29	0.04	3	2.92	363	3	<0.01	112	0.05	<2	<5	3	0.05	117	15	85
128+00N-47+40E	<5	0.1	1.06	<5	32	<1	<2	0.03	<0.1	4	58	27	0.90	0.02	3	0.33	39	3	0.02	13	0.04	4	<5	5	0.02	14	<10	20
128+00N-47+60E	<5	0.1	2.84	<5	31	<1	5	0.05	<0.1	31	285	54	5.86	<0.01	3	2.65	288	3	<0.01	95	0.03	3	<5	2	0.05	104	12	87
128+00N-47+80E	<5	0.1	4.49	7	71	<1	10	0.07	0.2	47	466	144	8.89	0.04	4	3.92	415	4	<0.01	136	0.08	<2	8	3	0.06	138	21	103
128+00N-48+00E	<5	<0.1	5.73	11	71	<1	14	0.03	0.2	59	810	154	12.51	0.03	4	4.65	420	3	<0.01	110	0.05	<2	<5	3	0.04	205	21	95
128+00N-48+20E	<5	<0.1	3.88	8	125	<1	3	0.05	0.1	32	473	273	5.35	0.07	5	4.25	382	<1	<0.01	155	0.03	<2	<5	3	0.05	94	14	113
128+00N-48+20E*	<5	<0.1	3.65	<5	116	<1	<2	0.04	<0.1	30	445	257	5.05	0.08	4	3.99	361	<1	<0.01	145	0.03	<2	<5	2	0.05	88	12	105
128+00N-48+40E	<5	<0.1	3.31	12	25	<1	<2	0.03	0.1	30	446	121	4.57	<0.01	2	3.90	355	4	<0.01	165	0.02	<2	<5	1	0.02	74	24	85
128+00N-48+60E	<5	<0.1	3.27	5	18	<1	<2	0.03	<0.1	41	525	95	3.96	<0.01	2	4.00	280	2	<0.01	193	0.02	<2	<5	1	0.03	80	14	81
128+00N-48+80E	<5	0.2	1.19	<5	51	<1	<2	0.07	0.2	8	99	56	1.70	0.03	4	0.84	225	4	0.01	34	0.08	4	<5	5	0.01	33	<10	51
128+00N-49+00E	<5	0.4	1.72	<5	71	<1	<2	0.11	0.5	11	120	107	2.53	0.04	6	1.34	186	2	0.01	45	0.07	8	<5	7	0.02	48	<10	70
128+00N-49+20E	<5	0.1	2.87	<5	120	<1	<2	0.10	0.2	28	249	289	4.44	0.10	6	2.54	352	2	<0.01	97	0.04	4	<5	5	0.06	76	11	123
128+00N-49+40E	<5	0.1	0.63	<5	21	<1	<2	0.05	0.1	3	43	42	0.96	0.02	2	0.25	63	2	0.02	11	0.04	4	<5	5	0.02	19	<10	23
128+00N-49+60E	<5	0.1	2.17	<5	32	<1	2	0.06	0.1	11	203	87	3.18	0.02	5	1.88	269	2	0.01	58	0.04	4	<5	4	0.03	51	<10	145
128+00N-49+80E	<5	0.1	2.14	<5	37	<1	<2	0.06	0.2	17	269	158	2.77	0.02	4	2.12	257	4	<0.01	111	0.03	4	<5	4	0.03	47	<10	92
128+00N-50+00E	<5	0.1	1.56	<5	45	<1	<2	0.07	0.2	12	194	139	2.35	0.02	5	1.51	187	2	<0.01	72	0.03	6	<5	5	0.04	45	<10	69
128+00N-50+00E*	<5	0.1	1.56	<5	46	<1	<2	0.08	0.2	12	194	137	2.39	0.02	5	1.52	189	4	<0.01	72	0.03	4	<5	5	0.04	46	<10	69

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: AUG 22, 1991 | Page 4 of 4
Area: FIRE LAKE 105G02 | Lab Project No.: P1491 | Date Completed: SEPT 6, 1991 | Attn: R STROSHEIN, J KOWALCHUK, E KIMURA, R HODGSON
Remarks: SOME SAMPLES RERUN FOR AU AS REQUESTED BY FAX ON SEPT 10, 1991
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
128+00N–50+20E	<5	0.2	1.28	<5	37	<1	<2	0.07	0.3	8	148	117	1.62	0.02	5	1.05	125	1	0.01	46	0.04	5	<5	6	0.02	28	17	54
128+00N–50+40E	<5	0.1	2.50	6	90	<1	3	0.09	0.3	16	331	251	3.75	0.09	3	3.05	335	1	<0.01	107	0.04	6	<5	4	0.06	73	16	106
128+00N–50+60E	<5	<0.1	2.46	6	25	<1	5	0.06	0.2	14	302	189	3.45	0.02	4	2.99	353	1	<0.01	100	0.03	3	<5	3	0.04	63	11	136
128+00N–50+80E	<5	<0.1	1.26	<5	28	<1	<2	0.07	0.2	11	218	60	1.94	0.02	5	1.49	173	3	<0.01	69	0.02	6	<5	4	0.04	39	<10	54
128+00N–51+00E	5	0.2	1.53	<5	30	<1	4	0.07	0.2	12	248	164	2.35	0.02	6	1.85	185	2	<0.01	72	0.04	6	<5	4	0.03	46	<10	59
129+00N–45+00E	5	<0.1	1.73	<5	477	<1	<2	0.19	<0.1	14	192	176	3.03	0.24	12	1.49	210	3	0.02	74	0.03	7	<5	13	0.07	53	11	77
129+00N–45+20E	<5	<0.1	1.53	<5	126	<1	<2	0.17	0.1	16	278	91	2.07	0.06	7	1.83	178	2	0.01	97	0.02	7	<5	8	0.05	36	10	45
129+00N–45+40E	<5	0.1	1.74	<5	234	<1	<2	0.17	0.2	18	315	97	2.39	0.12	5	1.86	173	2	0.01	116	0.02	4	<5	7	0.07	44	<10	51
129+00N–45+60E	<5	0.1	1.26	<5	116	<1	<2	0.13	0.2	11	208	58	2.19	0.03	4	1.28	126	1	0.01	72	0.02	4	<5	6	0.06	39	<10	42
STD–AU8–P1	260	0.2	1.13	20	190	<1	<2	1.00	0.4	6	123	25	2.23	0.34	12	0.87	567	51	0.07	30	0.08	49	<5	97	0.12	34	<10	143
129+00N–45+80E	<5	0.1	1.21	<5	125	<1	<2	0.15	<0.1	11	181	52	1.66	0.06	2	1.19	126	2	0.02	57	0.02	3	<5	4	0.05	36	12	37
129+00N–46+00E	<5	0.1	0.94	<5	42	<1	<2	0.11	<0.1	8	148	19	1.43	0.03	2	0.93	98	<1	0.02	45	0.02	2	<5	3	0.04	36	<10	30
129+00N–46+20E	<5	0.1	1.61	<5	150	<1	<2	0.17	0.1	15	220	80	2.18	0.08	5	1.63	184	4	0.02	82	0.02	3	<5	5	0.07	45	<10	48
129+00N–46+40E	<5	0.1	1.59	<5	150	<1	<2	0.18	<0.1	15	220	64	2.18	0.08	3	1.85	160	5	0.02	78	0.02	3	<5	5	0.06	46	<10	49
129+00N–46+60E	<5	<0.1	1.58	<5	177	<1	<2	0.17	<0.1	16	247	113	2.19	0.13	4	1.76	192	12	0.02	93	0.02	3	<5	4	0.06	44	<10	47
129+00N–46+80E	<5	0.1	1.89	<5	69	<1	<2	0.21	<0.1	19	333	102	2.17	0.05	3	2.06	241	2	0.01	111	0.03	<2	<5	6	0.05	44	<10	42
129+00N–47+00E	<5	0.1	1.28	<5	52	<1	<2	0.11	<0.1	11	219	45	1.62	0.05	2	1.25	92	<1	0.02	73	0.02	4	<5	2	0.04	31	<10	30
129+00N–47+20E	<5	0.1	1.34	<5	67	<1	<2	0.16	<0.1	12	160	51	1.83	0.05	4	1.29	139	<1	0.02	62	0.02	4	<5	5	0.06	39	<10	33
129+00N–47+40E	<5	0.1	1.09	<5	62	<1	<2	0.16	<0.1	9	133	30	1.96	0.04	4	0.92	114	<1	0.02	48	0.02	4	<5	5	0.06	57	12	31
129+00N–47+40E*	5	0.1	1.08	<5	61	<1	<2	0.16	<0.1	9	133	29	1.96	0.03	4	0.90	112	<1	0.02	45	0.02	5	<5	5	0.06	57	23	31
129+00N–47+60E	<5	0.1	3.34	<5	129	<1	5	0.10	<0.1	27	356	46	4.26	0.03	3	3.89	324	1	<0.01	175	0.03	2	<5	5	0.10	88	23	69
129+00N–47+80E	5	0.1	4.36	<5	84	<1	11	0.04	<0.1	58	427	116	9.07	0.08	4	3.20	268	3	<0.01	145	0.04	<2	<5	2	0.06	129	22	78
129+00N–48+00E	10	<0.1	2.99	5	41	<1	<2	0.07	<0.1	22	342	94	3.92	0.02	3	3.09	247	2	<0.01	104	0.03	<2	<5	3	0.04	73	11	72
129+00N–48+20E	<5	0.2	2.14	<5	43	<1	<2	0.05	<0.1	14	286	47	3.04	<0.01	3	1.98	151	2	<0.01	72	0.07	4	<5	4	0.02	56	<10	57
129+00N–48+40E	<5	<0.1	24.58	34	688	5	97	0.91	0.7	166	2189	1736	33.99	0.36	72	22.03	2729	22	0.08	963	0.34	47	77	50	0.49	598	106	829
129+00N–48+60E	<5	<0.1	2.12	<5	49	<1	<2	0.12	<0.1	14	179	152	2.84	0.03	7	1.81	229	<1	<0.01	81	0.04	3	<5	6	0.04	48	<10	74
129+00N–48+80E	5	<0.1	2.10	<5	51	<1	<2	0.08	<0.1	12	189	253	2.73	0.04	6	1.84	232	2	<0.01	81	0.03	3	<5	5	0.04	45	<10	68
129+00N–49+00E	5	0.1	2.84	9	44	<1	3	0.09	<0.1	19	303	122	3.89	0.02	6	2.64	355	<1	<0.01	114	0.05	3	<5	5	0.04	85	<10	103
129+00N–49+20E	<5	<0.1	2.04	<5	56	<1	<2	0.19	<0.1	15	145	244	2.60	0.03	7	1.64	291	2	0.01	75	0.04	3	<5	8	0.05	48	<10	81
STD–AU8–P1	455	0.2	1.12	21	191	<1	<2	0.85	0.3	6	118	27	2.20	0.34	8	0.82	567	49	0.07	30	0.08	44	<5	88	0.12	35	<10	141
129+00N–49+40E	<5	0.1	1.85	<5	44	<1	<2	0.17	0.1	9	94	73	2.14	0.02	10	0.99	167	3	0.01	35	0.04	6	<5	7	0.04	48	19	57
129+00N–49+60E	<5	0.1	1.70	<5	54	<1	<2	0.12	0.3	14	89	84	2.53	0.04	10	0.83	437	3	0.01	30	0.07	8	<5	8	0.02	52	11	74
129+00N–49+80E	<5	0.1	2.11	<5	58	<1	<2	0.13	0.2	16	112	294	2.66	0.03	9	1.20	282	3	0.01	49	0.05	4	12	7	0.04	50	12	84
129+00N–50+00E	<5	<0.1	1.75	<5	52	<1	<2	0.11	<0.1	12	163	297	2.47	0.03	8	1.47	199	3	0.01	62	0.03	3	7	7	0.05	47	11	64
129+00N–50+20E	<5	<0.1	1.16	<5	27	<1	<2	0.08	<0.1	9	124	103	1.94	0.02	6	1.05	163	2	0.01	38	0.03	2	<5	4	0.03	41	<10	46
129+00N–50+40E	<5	0.4	2.26	<5	43	<1	<2	0.08	0.1	13	251	258	3.32	0.03	6	1.94	260	4	<0.01	69	0.05	4	8	5	0.04	65	11	80
129+00N–50+60E	<5	0.1	1.49	<5	25	<1	<2	0.06	0.1	10	193	80	2.36	0.02	5	1.44	173	5	<0.01	52	0.03	4	<5	3	0.04	56	<10	55
129+00N–50+80E	<5	0.1	2.31	<5	37	<1	<2	0.11	<0.1	13	258	200	3.30	0.05	3	2.31	289	3	0.01	77	0.03	2	<5	4	0.06	67	<10	77
129+00N–51+00E	<5	<0.1	1.14	<5	19	<1	<2	0.05	<0.1	7	123	52	1.34	0.02	4	0.78	101	3	0.02	32	0.03	2	<5	4	0.03	29	<10	34
129+00N–51+00E*	<5	<0.1	1.07	<5	18	<1	<2	0.04	<0.1	6	115	47	1.27	0.02	3	0.72	95	3	0.02	30	0.02	<2	<5	4	0.03	27	<10	33

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: AUG 23, 1991 | Page 1 of 3
Area: FIRE LAKE 105G2 | Lab Project No.: P1503 | Date Completed: SEPT 10, 1991 | Attn: R STROSHEIN
Remarks: SOME SAMPLES RERUN FOR AU AS REQUESTED BY FAX ON SEPTEMBER 9, 1991 | J KOWALCHUK
E KIMURA
R HODGSON

Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
B 45		0.5	1.98	14	205	<1	<2	0.48	1.0	23	76	79	4.63	0.13	66	1.25	905	4	0.03	116	0.10	19	9	29	0.03	54	17	193
B 46		0.4	2.38	14	223	<1	<2	0.25	0.9	95	177	2977	5.92	0.10	32	1.88	731	7	0.01	105	0.06	11	<5	13	0.03	63	11	490
B 47		0.2	1.94	13	213	<1	<2	0.30	0.8	78	141	2012	4.97	0.12	25	1.39	502	7	0.02	83	0.06	12	5	15	0.04	58	<10	558
B 24		0.1	1.70	16	108	<1	<2	0.57	0.2	21	131	78	2.82	0.03	6	2.19	370	2	<0.01	120	0.03	6	<5	20	0.07	38	<10	61
B 25		0.6	2.27	11	541	<1	<2	0.88	4.9	15	71	39	3.56	0.23	24	1.47	784	5	0.03	55	0.09	32	11	42	0.07	64	<10	386
8 +00N-46+20E		0.1	2.90	<5	378	<1	<2	0.26	0.3	11	67	27	4.36	0.22	18	1.79	414	6	0.02	32	0.07	19	8	24	0.12	100	12	159
8 +00N-54+40E		0.8	1.70	15	418	<1	<2	1.28	3.0	11	56	45	2.94	0.48	29	1.14	844	5	0.02	55	0.12	19	<5	51	0.05	53	<10	195
8 +00N-55+00E		0.3	3.70	<5	424	1	<2	0.18	0.8	14	82	40	5.23	0.28	20	2.31	647	7	0.02	47	0.09	24	<5	19	0.11	126	11	252
8 +00N-55+20E		0.7	3.30	11	507	1	<2	0.24	0.7	18	72	47	4.89	0.41	25	2.05	891	6	0.02	49	0.09	30	9	18	0.10	93	<10	224
S)-AU8-P1		0.3	1.13	21	205	<1	<2	0.96	0.4	6	116	28	2.34	0.39	7	0.89	569	52	0.07	32	0.08	54	5	89	0.11	34	<10	154
8 00N-55+40E		0.1	3.06	6	312	<1	<2	0.09	0.3	12	70	29	4.41	0.12	23	1.80	942	8	0.01	27	0.05	26	<5	14	0.06	113	24	179
8 00N-55+60E		<0.1	2.45	6	222	<1	<2	0.07	0.3	11	69	31	4.12	0.14	21	1.82	533	7	0.01	33	0.04	21	<5	12	0.09	91	14	169
8 00N-55+80E		0.2	2.86	7	185	<1	<2	0.07	0.3	11	79	28	5.27	0.12	21	1.56	447	7	<0.01	34	0.08	29	<5	11	0.06	101	12	189
8 00N-56+00E		0.5	3.06	5	395	<1	<2	0.13	0.5	13	79	24	4.55	0.30	16	1.38	1653	5	0.01	23	0.16	23	<5	13	0.06	89	12	159
8 00N-56+20E		0.2	3.36	14	620	<1	<2	0.66	0.8	15	84	34	4.70	0.23	19	2.02	711	4	0.02	37	0.08	30	<5	25	0.09	112	11	212
8 00N-56+40E		0.3	2.56	39	307	<1	<2	0.37	1.5	26	111	59	5.15	0.16	23	1.39	1483	5	0.01	164	0.12	40	11	22	0.05	68	<10	441
8 00N-56+60E		0.4	2.27	28	297	<1	<2	0.10	0.8	16	101	35	4.66	0.16	18	1.07	2580	5	0.01	67	0.11	45	5	13	0.03	76	<10	254
8 00N-56+80E		0.1	2.60	9	384	<1	<2	0.16	0.9	13	95	23	4.56	0.27	18	1.61	718	4	0.01	42	0.09	28	<5	15	0.07	88	<10	217
8 00N-57+00E		2.0	1.75	16	172	1	<2	0.31	2.4	22	56	107	5.93	0.09	25	1.19	764	21	<0.01	102	0.13	50	<5	16	0.02	69	<10	513
8 00N-57+00E*		2.0	1.76	16	169	1	<2	0.31	2.5	21	56	109	6.02	0.09	25	1.19	781	22	<0.01	102	0.13	50	<5	16	0.02	69	<10	521
8 00N-57+20E		0.2	2.00	10	233	<1	<2	0.08	0.5	15	78	33	3.75	0.11	17	1.15	1719	7	0.01	38	0.07	28	<5	11	0.04	76	22	163
8 00N-57+40E		0.3	3.53	18	388	<1	<2	0.17	0.8	15	99	36	4.89	0.30	18	1.94	675	3	0.01	62	0.07	26	<5	18	0.10	103	16	270
8 00N-57+60E		0.1	2.74	15	291	<1	<2	0.16	0.5	13	86	34	4.65	0.18	21	1.43	544	4	<0.01	61	0.08	28	<5	16	0.06	84	11	259
8 00N-57+80E		0.1	2.18	12	232	<1	<2	0.11	0.8	12	81	27	4.12	0.13	19	1.24	604	3	<0.01	48	0.06	24	<5	12	0.05	82	<10	220
8 00N-58+00E		<0.1	2.51	12	250	<1	<2	0.08	0.5	11	83	26	4.71	0.13	18	1.24	815	3	<0.01	42	0.07	27	<5	11	0.06	99	<10	178
8 00N-58+20E		0.1	3.85	12	300	<1	<2	0.09	0.4	13	98	29	5.17	0.26	18	1.85	631	4	0.01	36	0.07	23	<5	14	0.10	107	13	194
8 00N-58+40E		0.2	1.67	11	256	<1	<2	0.17	0.7	12	86	43	3.74	0.15	23	0.97	572	3	<0.01	82	0.09	23	<5	16	0.03	53	<10	250
8 00N-58+60E		0.3	2.61	5	230	<1	<2	0.10	0.8	15	82	54	4.53	0.12	17	1.05	1352	4	<0.01	51	0.11	46	<5	13	0.03	72	<10	293
8 00N-58+80E		2.4	2.13	16	195	<1	<2	0.07	1.9	16	81	78	5.43	0.11	20	0.88	2416	6	<0.01	66	0.11	235	<5	12	0.02	62	<10	1008
8 00N-58+80E*		2.3	2.02	14	186	<1	<2	0.07	1.9	15	77	75	5.20	0.11	19	0.84	2241	5	<0.01	63	0.11	225	<5	11	0.02	60	<10	970
8 00N-59+00E		0.4	1.78	11	147	<1	<2	0.15	0.8	15	98	35	3.99	0.12	23	0.94	603	1	<0.01	98	0.09	22	<5	15	0.03	50	23	238
8 00N-59+20E		0.5	1.84	13	133	<1	<2	0.08	0.2	10	77	31	4.03	0.09	20	0.78	377	4	<0.01	53	0.07	24	5	10	0.02	56	12	162
8 00N-59+40E		0.4	3.31	11	189	1	<2	0.10	0.5	13	85	34	5.28	0.15	20	1.17	623	4	<0.01	42	0.10	26	<5	11	0.04	79	14	207
8 00N-59+60E		0.3	1.45	8	249	<1	<2	0.09	0.4	22	71	23	2.78	0.10	13	0.34	4658	<1	0.01	34	0.14	33	<5	14	<0.01	40	<10	106
8 00N-59+80E		0.3	1.99	7	116	<1	<2	0.12	0.3	13	60	24	4.26	0.17	21	0.72	886	<1	<0.01	32	0.11	24	<5	14	0.02	49	10	133
8 00N-60+00E		0.2	1.82	7	124	<1	<2	0.13	0.4	12	57	24	3.83	0.17	25	0.88	754	<1	<0.01	30	0.08	25	<5	13	0.02	45	<10	127
1 +00N-45+00E	<5	0.3	2.85	<5	454	<1	<2	0.13	0.3	24	149	58	4.14	0.27	11	1.85	349	3	0.02	91	0.04	7	<5	14	0.16	94	15	148
1 +00N-45+20E	5	0.1	1.87	<5	171	<1	<2	0.05	0.2	12	152	33	3.66	0.05	8	1.34	230	4	<0.01	54	0.03	10	<5	8	0.08	94	<10	83
1 +00N-45+40E	<5	0.3	2.58	<5	174	<1	<2	0.09	0.2	27	141	101	4.74	0.14	20	1.49	522	5	<0.01	95	0.06	14	<5	9	0.04	63	11	112
1 +00N-45+40E*	<5	0.3	2.68	6	180	<1	<2	0.09	0.2	27	146	106	4.91	0.15	21	1.56	535	4	0.01	97	0.07	13	<5	10	0.04	65	12	115
1 +00N-45+60E	<5	0.3	2.23	<5	109	<1	<2	0.04	0.2	14	134	64	4.33	0.09	12	1.26	538	6	<0.01	52	0.05	11	<5	7	0.06	77	20	90
1 +00N-45+80E	<5	0.3	2.24	<5	84	<1	<2	0.06	0.1	17	215	62	4.54	0.04	6	1.82	256	5	<0.01	68	0.05	5	<5	7	0.06	85	14	88
1 +00N-46+00E	<5	<0.1	1.55	<5	91	<1	<2	0.04	0.3	11	137	31	3.25	0.04	8	1.19	223	3	<0.01	44	0.03	8	<5	5	0.05	74	<10	73
1 +00N-46+20E	<5	0.1	2.03	<5	202	<1	<2	0.08	0.3	13	96	45	4.05	0.06	7	1.42	292	4	0.01	38	0.04	10	<5	12	0.11	112	10	90
1 +00N-46+40E	5	0.1	1.17	<5	152	<1	<2	0.04	0.2	7	61	24	1.99	0.05	4	0.75	149	2	0.01	20	0.02	5	<5	5	0.09	63	<10	48
1 +00N-46+60E	5	<0.1	1.11	<5	90	<1	<2	0.03	0.1	7	87	18	2.82	0.04	7	0.71	150	2	<0.01	24	0.03	12	<5	5	0.09	73	<10	49
1 +00N-46+80E	30	0.2	1.16	<5	58	<1	<2	0.03	0.1	5	66	12	1.71	0.02	5	0.49	132	2	0.01	18	0.02	5	<5	4	0.05	39	<10	34
1 +00N-47+00E	5	0.1	1.46	<5	98	<1	<2	0.05	0.1	10	135	28	3.19	0.03	5	1.04	207	1	<0.01	41	0.03	5	<5	7	0.05	64	<10	70
1 +00N-47+20E	<5	0.1	1.82	<5	74	<1	<2	0.03	0.1	10	147	40	3.45	0.04	7	1.04	172	5	<0.01	44	0.03	8	<5	4	0.05	67	<10	67
1 +00N-47+20E*	<5	0.1	1.72	<5	70	<1	<2	0.03	<0.1	10	140	37	3.25	0.04	6	0.99	162	6	<0.01	42	0.03	8	<5	4	0.05	63	<10	59

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: AUG 23, 1991 | Page 2 of 3
Area: FIRE LAKE 105G2 | Lab Project No.: P1503 | Date Completed: SEPT 10, 1991 | Attn: R STROSHEIN, J KOWALCHUK, E KIMURA, R HODGSON
Remarks: SOME SAMPLES RERUN FOR AU AS REQUESTED BY FAX ON SEPTEMBER 9, 1991
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
4+00N–47+40E	<5	0.3	1.90	7	83	<1	<2	0.04	0.2	12	173	42	3.77	0.03	9	1.26	212	2	<0.01	51	0.05	10	<5	6	0.05	72	21	76
4+00N–47+60E	<5	0.5	1.10	<5	56	<1	<2	0.04	<0.1	5	78	17	1.28	0.03	5	0.46	99	<1	0.01	16	0.03	3	<5	5	0.03	25	<10	28
4+00N–47+80E	<5	0.3	1.82	<5	68	<1	<2	0.03	0.1	14	131	44	2.98	0.03	4	1.02	148	<1	<0.01	44	0.04	4	<5	5	0.03	46	<10	50
4+00N–48+00E	<5	0.2	1.21	<5	49	<1	<2	0.03	<0.1	8	118	19	1.94	0.02	3	0.84	201	<1	<0.01	33	0.02	4	<5	3	0.02	44	<10	44
4+00N–48+20E	<5	0.3	1.80	<5	58	<1	<2	0.04	0.3	10	158	33	3.12	0.03	4	1.00	169	2	<0.01	44	0.04	3	<5	4	0.04	69	<10	67
4+00N–48+40E	<5	0.3	1.75	<5	96	<1	<2	0.05	0.1	22	158	147	2.91	0.02	3	1.29	221	<1	<0.01	72	0.04	4	<5	4	0.03	51	<10	86
4+00N–48+60E	<5	0.3	0.77	<5	49	<1	<2	0.03	<0.1	5	80	28	1.07	0.02	2	0.51	75	<1	<0.01	22	0.03	<2	<5	3	0.01	21	<10	27
4+00N–48+80E	<5	0.2	1.13	<5	50	<1	<2	0.03	<0.1	7	103	39	1.80	0.02	3	0.76	93	<1	<0.01	27	0.04	4	<5	4	0.02	40	<10	44
4+00N–49+00E	<5	0.4	1.50	<5	74	<1	<2	0.06	0.1	10	145	81	2.42	0.03	2	1.09	139	<1	<0.01	49	0.04	2	<5	5	0.03	45	<10	65
O–AU8–P1	365	0.3	1.04	23	189	<1	<2	0.87	0.3	6	108	24	2.16	0.34	5	0.80	560	43	0.07	29	0.08	47	<5	79	0.10	32	<10	141
4+00N–49+20E	<5	0.2	1.25	<5	49	<1	<2	0.04	0.2	9	127	56	2.11	0.02	4	0.94	132	<1	<0.01	41	0.03	4	7	5	0.03	43	19	56
4+00N–49+40E	<5	0.3	0.93	<5	93	<1	<2	0.09	0.7	31	98	65	1.52	0.03	4	0.73	895	<1	<0.01	30	0.08	4	<5	7	<0.01	27	<10	49
4+00N–49+60E	<5	0.1	1.55	<5	93	<1	<2	0.06	0.1	27	155	165	2.99	0.04	4	1.24	448	4	<0.01	65	0.05	5	<5	5	0.04	55	12	71
4+00N–49+80E	<5	<0.1	1.92	5	85	<1	<2	0.06	<0.1	18	214	207	3.88	0.04	4	1.74	257	2	<0.01	81	0.04	5	<5	5	0.04	64	13	81
4+00N–50+00E	<5	0.3	1.85	<5	132	<1	<2	0.07	0.4	47	168	145	3.08	0.03	5	1.53	774	5	<0.01	55	0.07	6	6	6	0.01	56	<10	69
4+00N–50+20E	<5	0.2	0.52	<5	43	<1	<2	0.03	<0.1	3	55	31	0.78	0.02	3	0.30	45	<1	0.01	12	0.03	2	<5	4	0.01	14	<10	18
4+00N–50+40E	<5	0.2	0.78	<5	28	<1	<2	0.02	0.1	5	82	33	1.19	0.02	3	0.69	87	2	<0.01	22	0.03	4	<5	3	0.01	25	<10	34
4+00N–50+60E	<5	<0.1	0.75	<5	37	<1	<2	0.03	<0.1	6	97	40	1.23	0.02	3	0.67	79	<1	<0.01	27	0.03	3	<5	4	0.02	23	<10	31
4+00N–50+80E	<5	0.1	1.45	<5	71	<1	<2	0.05	0.2	12	174	145	2.81	0.03	3	1.32	168	2	<0.01	53	0.03	4	<5	4	0.03	51	<10	59
4+00N–50+80E*	<5	0.1	1.41	<5	70	<1	<2	0.04	0.2	12	170	141	2.75	0.03	3	1.28	162	<1	<0.01	52	0.03	3	<5	4	0.03	50	<10	56
4+00N–45+00E	<5	0.1	1.98	<5	321	1	<2	0.25	0.7	21	90	73	3.94	0.13	45	0.79	826	5	<0.01	34	0.08	9	<5	20	0.04	72	20	96
4+00N–45+20E	<5	0.2	0.53	<5	81	<1	<2	0.07	0.2	4	51	14	1.19	0.04	1	0.34	187	2	0.01	13	0.03	<2	<5	6	0.03	23	<10	32
4+00N–45+40E	<5	0.2	0.68	<5	95	<1	<2	0.03	0.8	4	54	15	1.01	0.03	2	0.30	95	<1	<0.01	12	0.02	<2	<5	4	0.02	19	<10	29
4+00N–45+60E	<5	0.2	0.68	<5	142	<1	<2	0.06	0.5	5	69	11	1.35	0.09	1	0.45	102	1	0.01	16	0.02	4	<5	4	0.06	28	<10	31
4+00N–45+80E	<5	0.2	0.46	<5	84	<1	<2	0.28	1.3	7	33	42	0.81	0.03	12	0.15	681	2	0.02	13	0.03	3	<5	12	0.02	11	<10	55
4+00N–46+00E	<5	0.3	1.46	7	210	2	<2	1.09	1.3	14	101	378	1.92	0.04	69	0.68	852	4	0.02	119	0.13	6	<5	31	0.02	26	<10	172
4+00N–46+20E	<5	0.1	1.19	<5	147	<1	<2	0.34	0.3	11	94	43	2.15	0.04	5	0.65	382	3	0.01	39	0.03	7	<5	12	0.04	37	<10	72
4+00N–46+40E	<5	0.3	0.71	<5	57	<1	<2	0.03	<0.1	3	59	15	1.34	0.02	5	0.30	77	1	<0.01	13	0.03	5	<5	4	0.03	27	<10	24
4+00N–46+60E	<5	0.3	0.57	<5	48	<1	<2	0.04	<0.1	3	58	10	0.81	0.02	<1	0.32	48	<1	<0.01	13	0.03	<2	<5	4	<0.01	15	<10	18
4+00N–46+60E*	<5	0.2	0.58	<5	50	<1	<2	0.04	<0.1	3	59	11	0.83	0.02	2	0.33	50	<1	<0.01	13	0.03	2	<5	4	<0.01	16	<10	19
4+00N–46+80E	<5	0.3	1.02	<5	60	<1	<2	0.06	<0.1	8	75	26	1.33	0.03	2	0.40	109	5	0.01	19	0.04	4	<5	7	0.03	25	15	29
4+00N–47+00E	<5	0.1	2.44	6	73	<1	<2	0.06	<0.1	20	188	98	3.91	0.03	3	1.43	163	5	<0.01	63	0.04	2	<5	6	0.02	71	12	56
4+00N–47+20E	<5	<0.1	1.17	<5	60	<1	<2	0.05	<0.1	12	118	27	2.36	0.03	2	0.93	134	5	<0.01	38	0.03	3	<5	4	0.03	46	<10	53
4+00N–47+40E	<5	0.2	0.88	<5	43	<1	<2	0.04	<0.1	6	87	14	1.53	0.03	2	0.60	95	4	<0.01	24	0.02	<2	<5	4	0.03	32	<10	31
4+00N–47+60E	<5	0.1	1.67	<5	77	<1	<2	0.05	0.1	14	170	50	3.11	0.03	2	1.28	163	4	<0.01	57	0.03	<2	<5	5	0.05	55	<10	63
4+00N–47+80E	<5	<0.1	0.66	<5	51	<1	<2	0.04	<0.1	2	40	14	0.52	0.02	<1	0.12	24	3	0.01	7	0.03	<2	<5	6	0.01	7	<10	15
4+00N–48+00E	<5	0.1	1.62	<5	74	<1	<2	0.06	<0.1	14	195	61	3.86	0.03	<1	1.32	188	5	<0.01	57	0.04	<2	<5	4	0.05	76	<10	59
4+00N–48+20E	<5	0.3	1.73	<5	75	<1	<2	0.05	<0.1	15	172	38	3.45	0.02	<1	1.17	174	4	<0.01	49	0.03	<2	<5	4	0.05	63	<10	56
4+00N–48+40E	<5	0.2	1.55	<5	62	<1	<2	0.06	<0.1	15	137	124	2.92	0.02	<1	1.16	192	4	<0.01	68	0.03	<2	<5	5	0.04	47	<10	61
4+00N–48+40E*	<5	0.1	1.62	<5	66	<1	<2	0.06	<0.1	16	143	134	3.11	0.02	<1	1.21	202	3	<0.01	72	0.03	<2	<5	5	0.04	50	<10	65
4+00N–48+60E	<5	0.3	1.32	7	52	<1	<2	0.04	0.2	12	140	62	2.44	0.02	6	1.07	143	2	<0.01	47	0.03	6	<5	5	0.02	43	18	52
4+00N–48+80E	<5	0.3	2.01	18	63	<1	<2	0.05	0.2	25	232	233	4.09	0.03	4	1.84	276	2	<0.01	98	0.03	4	<5	3	0.05	66	12	96
4+00N–49+00E	<5	0.2	2.04	16	58	<1	<2	0.06	<0.1	19	213	203	3.31	0.02	3	1.93	203	<1	<0.01	85	0.02	3	<5	3	0.04	56	10	93
4+00N–49+20E	<5	0.2	2.01	12	71	<1	<2	0.04	<0.1	15	210	145	3.48	0.03	3	1.70	181	<1	<0.01	65	0.03	<2	<5	3	0.05	60	11	84
4+00N–49+40E	<5	0.2	2.76	13	128	<1	<2	0.04	<0.1	22	270	251	4.82	0.06	3	2.35	238	<1	<0.01	96	0.03	<2	<5	2	0.05	75	12	116
4+00N–49+60E	<5	0.4	2.18	<5	85	<1	<2	0.05	<0.1	16	202	241	3.11	0.03	4	1.63	209	2	<0.01	80	0.03	2	<5	4	0.04	50	<10	94
4+00N–49+80E	<5	0.3	1.29	<5	79	<1	<2	0.06	0.1	9	143	58	1.75	0.02	3	1.25	141	<1	<0.01	47	0.02	2	<5	4	0.03	34	<10	53
4+00N–50+00E	<5	0.2	2.32	15	123	<1	<2	0.07	<0.1	20	248	201	3.66	0.04	3	2.30	245	1	<0.01	89	0.03	<2	<5	3	0.04	61	18	76
4+00N–50+20E	<5	0.1	1.73	8	81	<1	<2	0.06	<0.1	12	170	163	2.52	0.02	5	1.50	191	<1	<0.01	62	0.02	<2	<5	4	0.04	45	<10	60
4+00N–50+20E*	<5	0.2	1.73	8	81	<1	<2	0.06	<0.1	12	170	165	2.52	0.02	4	1.50	189	<1	<0.01	63	0.02	<2	<5	4	0.04	45	<10	61

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA | Geol.: R STROSHEIN | Date Received: AUG 23, 1991 | Page 3 of 3
Area: FIRE LAKE 105G2 | Lab Project No.: P1503 | Date Completed: SEPT 10, 1991 | Attn: R STROSHEIN, J KOWALCHUK, E KIMURA, R HODGSON
Remarks: SOME SAMPLES RERUN FOR AU AS REQUESTED BY FAX ON SEPTEMBER 9, 1991
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved with this acid dissolution method.

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
5+00N-50+40E	<5	0.1	2.13	<5	101	<1	<2	0.04	<0.1	16	234	160	3.41	0.05	4	2.12	231	1	<0.01	69	0.02	3	<5	4	0.05	65	23	78
5+00N-50+60E	<5	0.2	1.92	<5	60	<1	<2	0.04	<0.1	12	201	177	3.06	0.03	3	1.65	202	<1	<0.01	63	0.02	2	<5	4	0.04	53	14	68
5+00N-50+80E	<5	0.2	1.41	<5	43	<1	<2	0.04	<0.1	9	162	98	1.92	0.02	3	1.14	129	<1	<0.01	48	0.02	3	<5	4	0.03	42	<10	47
6+00N-45+00E	<5	0.2	2.24	<5	288	<1	<2	0.09	0.1	13	100	47	3.37	0.13	9	1.23	339	3	<0.01	39	0.04	7	<5	8	0.09	75	13	82
6+00N-45+20E	<5	0.3	2.23	<5	217	<1	<2	0.10	0.1	13	123	48	3.30	0.09	9	1.30	274	3	0.01	46	0.04	5	<5	8	0.08	68	10	78
6+00N-45+40E	<5	0.3	2.01	8	239	<1	<2	0.11	0.2	15	144	59	3.61	0.12	11	0.91	597	6	0.01	65	0.06	11	6	13	0.07	71	12	97
6+00N-45+60E	<5	0.2	1.84	10	104	<1	<2	0.08	0.1	14	165	47	3.42	0.06	6	1.20	210	2	<0.01	56	0.04	4	<5	6	0.06	64	10	74
6+00N-45+80E	<5	0.2	0.95	<5	72	<1	<2	0.06	0.2	5	99	17	1.50	0.03	4	0.50	177	1	<0.01	24	0.04	5	<5	4	0.02	34	<10	36
6+00N-46+00E	<5	0.4	1.67	<5	126	<1	<2	0.08	0.2	12	146	41	2.66	0.07	7	0.91	300	3	<0.01	44	0.06	7	<5	6	0.05	45	<10	70
D-AU8-P1	325	0.3	1.14	21	202	<1	<2	0.96	0.4	6	120	25	2.30	0.37	8	0.88	578	55	0.07	33	0.08	50	<5	92	0.12	36	<10	154
6+00N-46+20E	<5	0.4	1.90	8	94	<1	<2	0.09	0.2	11	177	43	3.61	0.05	6	0.96	200	5	<0.01	46	0.09	8	<5	8	0.07	71	24	73
6+00N-46+40E	<5	0.3	1.74	6	104	<1	<2	0.09	0.2	16	203	50	3.42	0.04	4	1.21	244	1	<0.01	64	0.05	5	6	7	0.08	57	28	65
6+00N-46+60E	<5	0.3	1.94	11	113	<1	<2	0.08	0.1	11	155	38	3.64	0.07	9	1.07	200	2	<0.01	50	0.05	6	<5	9	0.07	61	16	71
6+00N-46+80E	<5	0.4	1.68	<5	112	<1	<2	0.09	<0.1	11	180	34	3.51	0.05	5	1.01	238	2	<0.01	52	0.05	6	9	7	0.07	65	11	64
7+00N-47+00E	<5	0.3	1.96	<5	203	<1	<2	0.09	<0.1	14	166	44	2.99	0.13	6	1.03	262	5	0.01	52	0.04	9	<5	8	0.06	52	<10	73
7+00N-47+20E	<5	0.5	1.78	<5	94	<1	<2	0.09	0.2	11	183	37	2.82	0.03	4	0.87	162	2	<0.01	56	0.04	4	<5	6	0.05	45	<10	58
7+00N-47+40E	<5	0.3	1.58	<5	91	<1	<2	0.10	<0.1	12	185	62	2.21	0.04	4	1.05	160	2	<0.01	61	0.03	5	<5	5	0.05	43	<10	45
7+00N-47+60E	<5	0.2	2.18	8	188	<1	<2	0.12	0.1	18	263	90	2.85	0.10	2	1.83	205	2	0.01	96	0.03	4	7	5	0.06	49	12	61
7+00N-47+80E	<5	0.4	1.85	<5	48	<1	<2	0.06	<0.1	16	207	64	3.45	0.02	2	1.38	163	1	<0.01	65	0.03	4	<5	3	0.05	62	<10	52
7+00N-47+80E*	<5	0.4	1.81	<5	47	<1	<2	0.06	<0.1	17	206	63	3.41	0.02	2	1.35	162	2	<0.01	66	0.03	3	<5	3	0.05	62	<10	51
7+00N-48+00E	5	0.4	2.70	17	83	<1	<2	0.04	0.1	30	303	156	6.03	0.04	6	2.06	213	6	<0.01	85	0.04	6	<5	5	0.04	106	26	77
7+00N-48+20E	<5	0.3	2.87	34	72	<1	<2	0.05	<0.1	32	340	211	5.58	0.03	4	2.33	238	4	<0.01	120	0.03	6	<5	4	0.06	103	18	68
7+00N-48+40E	<5	0.3	3.86	14	60	<1	<2	0.04	0.1	64	344	380	7.41	0.04	6	2.69	428	3	<0.01	175	0.05	9	6	4	0.05	120	20	98
7+00N-48+60E	<5	0.3	3.13	20	48	<1	<2	0.05	<0.1	42	293	152	5.50	0.03	5	2.43	576	3	<0.01	112	0.05	7	<5	3	0.05	94	16	87
7+00N-48+80E	<5	0.2	4.38	35	36	<1	5	0.03	<0.1	62	471	292	7.22	0.02	4	4.00	403	2	<0.01	187	0.04	8	<5	2	0.04	118	21	96
7+00N-49+00E	<5	0.1	5.01	37	64	1	8	0.02	<0.1	51	485	374	10.79	0.04	4	3.90	343	10	<0.01	114	0.05	8	7	2	0.04	153	23	126
7+00N-49+20E	10	0.2	2.05	12	56	<1	<2	0.05	0.1	17	184	133	3.16	0.03	6	1.62	209	<1	<0.01	75	0.02	6	<5	4	0.04	56	11	76
7+00N-49+40E	<5	0.1	1.65	13	60	<1	<2	0.06	0.2	18	167	159	2.65	0.03	6	1.33	274	1	<0.01	90	0.02	6	<5	4	0.04	48	<10	99
7+00N-49+60E	<5	0.3	2.62	20	68	<1	<2	0.07	0.1	22	261	243	3.67	0.04	3	2.46	272	3	<0.01	105	0.03	5	<5	4	0.04	66	14	115
7+00N-49+60E*	<5	0.2	2.53	15	65	<1	<2	0.07	0.1	22	271	240	3.59	0.03	3	2.39	265	1	<0.01	102	0.03	3	<5	4	0.04	64	13	113
7+00N-49+80E	<5	0.2	2.09	10	57	<1	<2	0.04	<0.1	15	226	108	3.11	0.02	4	1.90	174	2	0.01	61	0.03	5	<5	4	0.03	58	22	66
7+00N-50+00E	<5	0.7	2.16	<5	74	<1	<2	0.04	<0.1	15	200	160	3.32	0.03	4	1.71	186	2	0.01	61	0.05	4	<5	4	0.03	55	17	85
7+00N-50+20E	<5	0.3	2.09	10	59	<1	<2	0.06	0.1	14	223	115	2.94	0.02	2	1.93	246	<1	<0.01	72	0.03	4	<5	4	0.03	51	14	98
7+00N-50+40E	<5	0.5	0.99	<5	44	<1	<2	0.05	<0.1	3	59	122	0.92	0.02	2	0.25	34	2	0.02	12	0.04	2	<5	5	0.02	14	<10	20
7+00N-50+60E	10	0.1	3.21	14	152	<1	<2	0.05	<0.1	35	274	379	4.80	0.06	3	2.92	334	2	<0.01	136	0.03	2	<5	3	0.06	85	12	137
7+00N-50+80E	5	0.1	1.59	10	37	<1	<2	0.06	<0.1	9	161	119	2.00	0.01	3	1.08	145	<1	<0.01	46	0.03	3	<5	4	0.03	36	<10	46
7+00N-51+00E	<5	0.4	1.33	<5	47	<1	<2	0.07	0.2	9	109	192	1.87	0.02	5	0.86	140	<1	<0.01	48	0.04	5	<5	6	0.02	33	<10	61
D-AU8-P1	435	0.3	1.11	24	200	<1	<2	0.95	0.3	6	125	26	2.26	0.35	7	0.86	599	50	0.07	31	0.08	50	<5	90	0.11	35	<10	147

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V272 KONA
Area: FIRE LAKE 105G1G2
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by A.A. (D.L 5 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements and Ba, Be, Cr, La and W are rarely dissolved with this acid dissolution method.

Geol.: R STROSHEIN
Lab Project No.: D1566
Date Received: SEPT 19, 1991
Date Completed: OCT 22, 1991
Page 1 of 1
Attn: R STROSHEIN
J KOWALCHUK
E KIMURA
R HODGSON

SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
B1992	1115	2.7	0.01	119	3	<1	4	0.01	<0.1	649	2	561	14.07	<0.01	2	0.01	15	6	<0.01	11	0.02	47	<5	<1	<0.01	2	14	58
B1993	1055	2.4	0.03	167	3	<1	<2	<0.01	14.8	341	<1	0.88%	14.23	<0.01	2	0.01	21	3	<0.01	16	0.03	49	<5	<1	<0.01	3	11	1.15%
B1994	860	3.0	0.02	121	4	<1	<2	<0.01	0.4	463	16	2330	13.95	<0.01	2	0.01	15	4	<0.01	14	0.02	24	<5	<1	<0.01	2	11	285
B1995	275	1.3	0.76	105	22	<1	5	<0.01	0.3	286	178	1372	13.23	0.04	3	0.64	103	13	<0.01	28	0.02	14	<5	<1	0.02	81	11	243
B1996	240	1.3	0.98	128	19	<1	4	<0.01	0.5	363	196	1277	14.67	0.04	2	0.83	122	15	<0.01	30	0.03	17	<5	<1	0.02	89	13	260
B1996*	210	1.4	0.95	139	19	<1	3	<0.01	0.5	352	190	1248	14.52	0.04	3	0.80	120	15	<0.01	28	0.03	18	<5	<1	0.02	88	12	253
STD-P1		0.2	1.00	23	188	<1	<2	0.86	0.4	6	109	25	2.16	0.33	8	0.79	560	52	0.06	31	0.08	51	<5	82	0.10	32	<10	151

APPENDIX III

ROCK SAMPLE

STATISTICS OF GEOCHEMICAL RESULTS

BY

LITHOLOGY

ROCK SAMPLES

SULPHIDES/MAGNETITE

P L A C E R D O M E I N C .

Placer Data Analysis System - LISTDF

run on 91:12:11 at 14:52:50

V272 KONA ROCK SAMPLE LOCATIONS AND ASSAYS

Summary of data from file : rock.asy

The internal header for this file has 8 records

Title and comments:
V272 KONA rock sample locations and assays

Data grouped into 35 fields by the following format:
(2A8,A4,2F8.1,2F10.1,2F8.2,5F7.1,2F8.2,3F7.1,F8.2,F9.3,F7.1,F8.2,2F7.1,F9.3,F7.1
,F8.2,3F7.1,F9.3,3F7.1)

Character ID fields:
SAMP GRID PROJ

Coordinate fields:
GRDX GRDY UTMX UTMY

Numeric data fields:

AG	AL	AS	AU	BA	BE	BI	CA	CD	CO	CR	CU
FE	K	LA	MG	MN	MO	NA	NI	P	PB	SB	SR
TI	V	W	ZN								

Missing data indicated by NULL value 99999.0

CHARACTER (ID) AND COORDINATE FIELDS

NAME	NDATA	NULLS	MINIMUM	MAXIMUM
SAMP	11	0	B2387	B2441
GRID	11	0	FIRE LAK	FIRE LAK
PROJ	11	0	1443	1504
GRDX	11	0	5234.000	6140.000
GRDY	11	0	11550.00	13478.00
UTMX	11	0	418629.0	419237.4
UTMY	11	0	6788876.	6790841.

BASIC STATISTICS OF NUMERIC DATA FIELDS:

NAME	NDATA	NULLS	MINIMUM	MAXIMUM	MEAN	STD. DEV.
AG	11	0	.500000E-01	17.0000	1.95455	5.02973
AL	11	0	.600000E-01	1.91000	1.26182	.548340
AS	11	0	2.50000	200.000	30.9091	57.4508
AU	11	0	2.50000	3955.00	390.682	1182.56
BA	11	0	6.00000	627.000	85.9091	181.767
BE	11	0	.500000	1.00000	.545455	.150756
BI	11	0	1.00000	15.0000	6.27273	3.82337
CA	11	0	.000000	.810000	.310000	.312730
CD	11	0	.500000E-01	1.00000	.222727	.301134
CO	11	0	10.0000	637.000	107.364	181.340
CR	11	0	50.0000	265.000	158.000	62.8363
CU	11	0	316.000	20800.0	5672.55	7304.85
FE	11	0	2.27000	16.9100	8.74727	5.98109

K	11	0	.500000E-02	.460000	.954545E-01	.147503
LA	11	0	.500000	3.00000	1.45455	.879049
MG	11	0	.600000E-01	1.61000	.930000	.441588
MN	11	0	33.0000	308.000	192.000	85.1105
MO	11	0	.500000	12.0000	5.04545	3.36493
NA	11	0	.500000E-02	.120000	.504545E-01	.425120E-01
NI	11	0	10.0000	113.000	47.6364	30.9977
P	11	0	.200000E-01	.800000E-01	.327273E-01	.167874E-01
PB	11	0	1.00000	8.00000	3.36364	2.90767
SB	11	0	2.50000	15.0000	5.90909	4.46552
SR	11	0	.500000	10.0000	4.45455	3.28979
TI	11	0	.500000E-02	.600000E-01	.286364E-01	.187204E-01
V	11	0	4.00000	146.000	58.9091	37.2087
W	11	0	5.00000	5.00000	5.00000	.000000
ZN	11	0	10.0000	586.000	138.000	173.285

LIST DATA FILE: V272 KONA ROCK SAMPLE LOCATIONS AND ASSAYS DATE:
91:12:11 PAGE 1

SAMP	AG	AU	CA	CU	FE	MG	NA	PB	ZN
B2387	.20	25.00	.27	545.00	12.67	.71	.02	1.00	586.00
B2431	.10	45.00	.03	2767.00	16.91	.80	.00	1.00	159.00
B2432	.05	15.00	.09	1508.00	14.97	1.02	.01	1.00	160.00
B2433	.05	65.00	.04	5600.00	13.72	1.52	.00	1.00	283.00
B2435	17.00	3955.00	.00	20800.00	16.00	.06	.00	1.00	174.00
B2436	.10	2.50	.22	1782.00	5.02	1.00	.07	8.00	19.00
B2437	.20	2.50	.37	316.00	2.27	.52	.08	4.00	10.00
B2438	1.80	95.00	.81	18800.00	3.68	1.04	.12	1.00	53.00
B2439	.10	2.50	.69	1403.00	4.23	1.61	.07	7.00	25.00
B2440	.30	20.00	.79	1677.00	3.30	1.22	.07	7.00	28.00
B2441	1.60	70.00	.10	7200.00	3.45	.73	.10	5.00	21.00

END OF LISTING - 11 RECORDS PRINTED

ROCK SAMPLES

EXHALATIVE

P L A C E R D O M E I N C .

Placer Data Analysis System - LISTDF

run on 91:12:11 at 11:10:37

V272 KONA ROCK SAMPLE LOCATIONS AND ASSAYS

Summary of data from file : rock.exh

The internal header for this file has 8 records

Title and comments:
V272 KONA rock sample locations and assays

Data grouped into 35 fields by the following format:
(2A8,A4,2F8.1,2F10.1,2F8.2,5F7.1,2F8.2,3F7.1,F8.2,F9.3,F7.1,F8.2,2F7.1,F9.3,F7.1
,F8.2,3F7.1,F9.3,3F7.1)

Character ID fields:
SAMP GRID PROJ

Coordinate fields:
GRDX GRDY UTMX UTMY

Numeric data fields:

AG	AL	AS	AU	BA	BE	BI	CA	CD	CO	CR	CU
FE	K	LA	MG	MN	MO	NA	NI	P	PB	SB	SR
TI	V	W	ZN								

Missing data indicated by NULL value 99999.0

CHARACTER (ID) AND COORDINATE FIELDS

NAME	NDATA	NULLS	MINIMUM	MAXIMUM
SAMP	25	0	B2383	B2623
GRID	25	0	FIRE 105	FIRE LAK
PROJ	25	0	1443	1472
GRDX	25	0	4418.000	6370.000
GRDY	25	0	11360.00	13465.00
UTMX	25	0	417541.4	419378.8
UTMY	25	0	6788687.	6790800.

BASIC STATISTICS OF NUMERIC DATA FIELDS:

NAME	NDATA	NULLS	MINIMUM	MAXIMUM	MEAN	STD. DEV.
AG	25	0	.500000E-01	.500000	.122000	.102144
AL	25	0	.460000	3.82000	1.73480	.818378
AS	25	0	2.50000	19.0000	7.88000	5.15849
AU	22	3	2.50000	35.0000	5.79545	7.00282
BA	25	0	108.000	2444.00	810.880	585.699
BE	25	0	.500000	.500000	.500000	.000000
BI	25	0	1.00000	2.00000	1.08000	.276887
CA	25	0	.110000	1.48000	.660000	.391876
CD	25	0	.500000E-01	.200000	.700000E-01	.500000E-01
CO	25	0	4.00000	20.0000	11.7600	4.12593
CR	25	0	95.0000	225.000	156.440	35.8470
CU	25	0	27.0000	2359.00	165.880	459.294
FE	25	0	1.48000	5.08000	2.96880	.779628

K	25	0	.500000E-01	1.17000	.505600	.334889
LA	25	0	.500000	13.0000	7.96000	3.29431
MG	25	0	.250000	1.97000	1.25120	.439273
MN	25	0	178.000	1045.00	639.800	239.285
MO	25	0	.500000	15.0000	4.84000	4.25666
NA	25	0	.100000E-01	.190000	.604000E-01	.442041E-01
NI	25	0	8.00000	63.0000	36.8800	16.0528
P	25	0	.200000E-01	.100000	.400000E-01	.227303E-01
PB	25	0	1.00000	17.0000	6.76000	4.49333
SB	25	0	2.50000	8.00000	3.20000	1.51383
SR	25	0	6.00000	49.0000	22.3200	12.1028
TI	25	0	.500000E-02	.180000	.650000E-01	.471478E-01
V	25	0	17.0000	149.000	64.2800	34.6212
W	25	0	5.00000	12.0000	5.52000	1.80555
ZN	25	0	15.0000	148.000	65.6400	28.9265

LIST DATA FILE: V272 KONA ROCK SAMPLE LOCATIONS AND ASSAYS DATE:
91:12:11 PAGE 1

SAMP	AG	AU	CA	CU	FE	MG	NA	PB	ZN
B2383	.20	2.50	1.00	63.00	1.48	.53	.04	8.00	41.00
B2385	.05	2.50	.88	39.00	1.99	1.06	.03	7.00	42.00
B2386	.10	2.50	.72	50.00	1.83	.78	.03	6.00	43.00
B2392	.05	2.50	1.48	61.00	3.11	1.31	.01	9.00	68.00
B2393	.10	2.50	1.07	58.00	2.90	1.42	.02	5.00	53.00
B2394	.10	2.50	.30	81.00	2.34	.25	.01	1.00	59.00
B2398	.30	2.50	1.41	64.00	3.52	1.89	.08	4.00	148.00
B2589	.05	2.50	.99	85.00	2.55	1.28	.03	3.00	61.00
B2590	.05	2.50	.30	67.00	3.95	1.97	.02	4.00	84.00
B2591	.05	2.50	.29	232.00	2.30	1.36	.03	1.00	58.00
B2595	.50	2.50	.90	76.00	3.91	1.74	.10	15.00	89.00
B2596	.10	5.00	.29	54.00	3.11	1.16	.04	5.00	71.00
B2597	.05	10.00	.21	27.00	3.34	1.31	.03	7.00	83.00
B2598	.10	5.00	.26	27.00	3.48	1.41	.06	5.00	81.00
B2599	.20	5.00	.98	117.00	3.13	1.07	.10	11.00	77.00
B2600	.20	5.00	.50	37.00	2.62	1.08	.09	15.00	59.00
B2602	.10	10.00	.11	38.00	2.31	1.04	.03	10.00	58.00
B2605	.10	5.00	.51	84.00	2.77	.79	.07	2.00	35.00
B2606	.05	5.00	.46	32.00	2.58	1.70	.04	4.00	55.00
B2607	.05	5.00	.19	49.00	3.08	1.60	.04	8.00	68.00
B2613	.05	10.00	.85	174.00	2.52	.88	.08	17.00	39.00
B2615	.20	35.00	.46	2359.00	5.08	.76	.09	1.00	15.00
B2621	.10	********	.63	56.00	3.73	1.66	.11	5.00	84.00
B2622	.10	********	.55	124.00	2.93	1.34	.14	4.00	39.00
B2623	.10	********	1.16	93.00	3.66	1.89	.19	12.00	131.00

END OF LISTING - 25 RECORDS PRINTED

ROCK SAMPLES

QUARTZ-SERICITE

P L A C E R D O M E I N C .

Placer Data Analysis System - LISTDF

run on 91:12:11 at 11:59:32

V272 KONA ROCK SAMPLE LOCATIONS AND ASSAYS

Summary of data from file : rock.ser

The internal header for this file has 8 records

Title and comments:
V272 KONA rock sample locations and assays

Data grouped into 35 fields by the following format:
(2A8,A4,2F8.1,2F10.1,2F8.2,5F7.1,2F8.2,3F7.1,F8.2,F9.3,F7.1,F8.2,2F7.1,F9.3,F7.1
,F8.2,3F7.1,F9.3,3F7.1)

Character ID fields:
SAMP GRID PROJ

Coordinate fields:
GRDX GRDY UTMX UTMY

Numeric data fields:

AG	AL	AS	AU	BA	BE	BI	CA	CD	CO	CR	CU
FE	K	LA	MG	MN	MO	NA	NI	P	PB	SB	SR
TI	V	W	ZN								

Missing data indicated by NULL value 99999.0

CHARACTER (ID) AND COORDINATE FIELDS

NAME	NDATA	NULLS	MINIMUM	MAXIMUM
SAMP	40	0	B2376	B2623
GRID	40	0	FIRE 105	LAKE
PROJ	40	0	1406	1472
GRDX	40	0	4418.000	6310.000
GRDY	40	0	11000.00	13465.00
UTMX	40	0	417541.4	419400.5
UTMY	40	0	6788147.	6790800.

BASIC STATISTICS OF NUMERIC DATA FIELDS:

NAME	NDATA	NULLS	MINIMUM	MAXIMUM	MEAN	STD. DEV.
AG	40	0	.500000E-01	4.00000	.332500	.702974
AL	40	0	.460000	4.16000	1.83175	.810485
AS	40	0	2.50000	20.0000	8.98750	5.10089
AU	30	10	2.50000	35.0000	4.83333	6.66092
BA	40	0	9.00000	1679.00	469.000	460.852
BE	40	0	.500000	1.00000	.512500	.790569E-01
BI	40	0	1.00000	4.00000	1.12500	.515777
CA	40	0	.900000E-01	2.97000	.731000	.531822
CD	40	0	.500000E-01	1.00000	.146250	.203932
CO	40	0	2.00000	19.0000	10.7500	4.35449
CR	40	0	62.0000	300.000	152.775	58.8346
CU	40	0	23.0000	5508.00	498.350	1159.44
FE	40	0	1.65000	5.42000	3.05050	.781356

K	40	0	.500000E-02	.940000	.318125	.290715
LA	40	0	.500000	17.0000	6.31250	5.12996
MG	40	0	.250000	2.51000	1.29225	.515506
MN	40	0	117.000	1045.00	461.225	228.024
MO	40	0	.500000	16.0000	4.48750	3.97506
NA	40	0	.100000E-01	.280000	.937500E-01	.560534E-01
NI	40	0	6.00000	81.0000	31.6000	18.8949
P	40	0	.000000	.190000	.385000E-01	.333244E-01
PB	40	0	1.00000	15.0000	4.85000	3.51954
SB	40	0	2.50000	12.0000	4.27500	3.05075
SR	40	0	2.00000	80.0000	21.8500	19.0432
TI	40	0	.500000E-02	.380000	.618750E-01	.607927E-01
V	40	0	17.0000	174.000	75.0250	38.2961
W	40	0	5.00000	104.000	8.40000	15.7020
ZN	40	0	11.0000	131.000	59.3250	25.4582

LIST DATA FILE: V272 KONA ROCK SAMPLE LOCATIONS AND ASSAYS DATE:
91:12:11 PAGE 1

SAMP	AG	AU	CA	CU	FE	MG	NA	PB	ZN
B2376	.50	********	1.45	52.00	4.36	.57	.14	5.00	70.00
B2381	.10	2.50	.99	178.00	2.99	1.01	.13	3.00	90.00
B2382	.20	2.50	.84	219.00	2.87	.91	.13	1.00	74.00
B2384	.20	2.50	.12	62.00	3.21	1.46	.03	6.00	67.00
B2392	.05	2.50	1.48	61.00	3.11	1.31	.01	9.00	68.00
B2393	.10	2.50	1.07	58.00	2.90	1.42	.02	5.00	53.00
B2394	.10	2.50	.30	81.00	2.34	.25	.01	1.00	59.00
B2401	.70	********	.45	671.00	4.62	2.19	.10	1.00	84.00
B2402	1.20	********	.40	299.00	5.42	1.94	.10	1.00	78.00
B2405	4.00	********	.79	5508.00	2.65	1.50	.10	1.00	31.00
B2411	.20	********	.37	155.00	2.39	1.64	.08	4.00	42.00
B2412	.50	********	.51	560.00	3.40	1.45	.09	1.00	42.00
B2427	2.10	20.00	1.08	4517.00	2.43	.66	.15	1.00	45.00
B2428	.10	2.50	1.01	580.00	2.81	.99	.17	1.00	36.00
B2429	.60	2.50	1.40	2084.00	2.70	1.02	.18	4.00	59.00
B2430	.20	2.50	.32	318.00	2.83	2.51	.06	1.00	39.00
B2576	.10	2.50	.42	241.00	2.15	.99	.08	5.00	30.00
B2577	.10	2.50	.57	69.00	2.59	1.03	.06	7.00	71.00
B2578	.10	2.50	.71	91.00	2.70	.84	.06	7.00	49.00
B2579	.10	2.50	.66	48.00	3.03	1.60	.10	7.00	85.00
B2581	.10	2.50	.27	29.00	2.25	.73	.04	12.00	36.00
B2582	.10	2.50	.13	23.00	2.13	.80	.02	2.00	40.00
B2583	.05	2.50	1.39	55.00	3.16	1.35	.08	5.00	57.00
B2585	.20	2.50	.86	64.00	3.54	2.09	.10	5.00	102.00
B2587	.10	2.50	1.10	149.00	3.51	1.88	.10	15.00	68.00
B2592	.10	5.00	.57	121.00	3.01	1.54	.09	7.00	93.00
B2594	.10	2.50	1.03	64.00	3.19	1.71	.17	6.00	86.00
B2602	.10	10.00	.11	38.00	2.31	1.04	.03	10.00	58.00
B2603	.10	5.00	.37	39.00	2.41	.79	.07	5.00	51.00
B2609	.10	5.00	.42	23.00	2.19	1.26	.03	7.00	56.00
B2610	.05	2.50	.09	84.00	2.94	1.41	.03	7.00	74.00
B2612	.05	2.50	.50	78.00	2.89	1.56	.10	1.00	77.00
B2614	.20	2.50	.86	179.00	3.22	.76	.10	4.00	39.00
B2615	.20	35.00	.46	2359.00	5.08	.76	.09	1.00	15.00
B2616	.05	5.00	2.97	266.00	3.15	.73	.28	8.00	12.00
B2617	.05	5.00	.39	119.00	1.65	.89	.08	1.00	11.00
B2619	.10	********	.44	119.00	3.57	2.21	.10	6.00	72.00
B2621	.10	********	.63	56.00	3.73	1.66	.11	5.00	84.00
B2622	.10	********	.55	124.00	2.93	1.34	.14	4.00	39.00
B2623	.10	********	1.16	93.00	3.66	1.89	.19	12.00	131.00

END OF LISTING - 40 RECORDS PRINTED

ROCK SAMPLES

ALL FELSIC VOLCANICS

P L A C E R D O M E I N C .

Placer Data Analysis System - LISTDF

run on 91:12:11 at 11:57:39

V272 KONA ROCK SAMPLE LOCATIONS AND ASSAYS

Summary of data from file : rock.fel

The internal header for this file has 8 records

Title and comments:
V272 KONA rock sample locations and assays

Data grouped into 35 fields by the following format:
(2A8,A4,2F8.1,2F10.1,2F8.2,5F7.1,2F8.2,3F7.1,F8.2,F9.3,F7.1,F8.2,2F7.1,F9.3,F7.1
,F8.2,3F7.1,F9.3,3F7.1)

Character ID fields:
SAMP GRID PROJ

Coordinate fields:
GRDX GRDY UTMX UTMY

Numeric data fields:

AG	AL	AS	AU	BA	BE	BI	CA	CD	CO	CR	CU
FE	K	LA	MG	MN	MO	NA	NI	P	PB	SB	SR
TI	V	W	ZN								

Missing data indicated by NULL value 99999.0

CHARACTER (ID) AND COORDINATE FIELDS

NAME	NDATA	NULLS	MINIMUM	MAXIMUM
SAMP	67	0	B2376	B2623
GRID	67	0	FIRE 105	LAKE
PROJ	67	0	1406	1504
GRDX	67	0	4418.000	6370.000
GRDY	67	0	9600.000	13478.00
UTMX	67	0	417541.4	420131.2
UTMY	67	0	6787142.	6790841.

BASIC STATISTICS OF NUMERIC DATA FIELDS:

NAME	NDATA	NULLS	MINIMUM	MAXIMUM	MEAN	STD. DEV.
AG	67	0	.500000E-01	4.00000	.308209	.608811
AL	67	0	.500000E-01	4.16000	1.70925	.768139
AS	67	0	2.50000	115.000	9.73881	14.0990
AU	55	12	2.50000	185.000	10.9091	28.6880
BA	67	0	9.00000	2444.00	523.403	536.953
BE	67	0	.500000	1.00000	.522388	.104186
BI	67	0	1.00000	8.00000	1.38806	1.24262
CA	67	0	.200000E-01	4.28000	.720746	.642956
CD	67	0	.500000E-01	1.00000	.137313	.200254
CO	67	0	2.00000	466.000	19.0746	55.7544
CR	67	0	62.0000	326.000	161.164	55.6778
CU	67	0	11.0000	18800.0	804.761	2565.66
FE	67	0	1.48000	7.88000	3.11567	.997947

K	67	0	.500000E-02	1.17000	.345597	.311959
LA	67	0	.500000	23.0000	6.44776	5.12505
MG	67	0	.200000E-01	3.55000	1.26552	.571498
MN	67	0	34.0000	1103.00	493.716	258.773
MO	67	0	.500000	16.0000	4.87313	4.11422
NA	67	0	.500000E-02	.280000	.798507E-01	.505797E-01
NI	67	0	6.00000	198.000	36.9254	27.3835
P	67	0	.000000	.190000	.373134E-01	.286876E-01
PB	67	0	1.00000	17.0000	5.38806	3.87672
SB	67	0	2.50000	12.0000	3.74627	2.58107
SR	67	0	1.00000	80.0000	20.1194	16.7092
TI	67	0	.500000E-02	.380000	.588806E-01	.539979E-01
V	67	0	3.00000	174.000	67.5672	36.1479
W	67	0	5.00000	104.000	7.02985	12.1866
ZN	67	0	10.0000	148.000	57.5522	27.0753

LIST DATA FILE: V272 KONA ROCK SAMPLE LOCATIONS AND ASSAYS DATE:
91:12:11 PAGE 1

SAMP	AG	AU	CA	CU	FE	MG	NA	PB	ZN
B2376	.50	*********	1.45	52.00	4.36	.57	.14	5.00	70.00
B2377	.10	*********	.54	15.00	2.26	.50	.11	8.00	71.00
B2381	.10	2.50	.99	178.00	2.99	1.01	.13	3.00	90.00
B2382	.20	2.50	.84	219.00	2.87	.91	.13	1.00	74.00
B2383	.20	2.50	1.00	63.00	1.48	.53	.04	8.00	41.00
B2384	.20	2.50	.12	62.00	3.21	1.46	.03	6.00	67.00
B2385	.05	2.50	.88	39.00	1.99	1.06	.03	7.00	42.00
B2386	.10	2.50	.72	50.00	1.83	.78	.03	6.00	43.00
B2391	.05	2.50	4.28	11.00	4.46	3.55	.00	1.00	72.00
B2392	.05	2.50	1.48	61.00	3.11	1.31	.01	9.00	68.00
B2393	.10	2.50	1.07	58.00	2.90	1.42	.02	5.00	53.00
B2394	.10	2.50	.30	81.00	2.34	.25	.01	1.00	59.00
B2396	.80	185.00	.02	1412.00	7.88	.02	.00	3.00	18.00
B2398	.30	2.50	1.41	64.00	3.52	1.89	.08	4.00	148.00
B2401	.70	*********	.45	671.00	4.62	2.19	.10	1.00	84.00
B2402	1.20	*********	.40	299.00	5.42	1.94	.10	1.00	78.00
B2405	4.00	*********	.79	5508.00	2.65	1.50	.10	1.00	31.00
B2411	.20	*********	.37	155.00	2.39	1.64	.08	4.00	42.00
B2412	.50	*********	.51	560.00	3.40	1.45	.09	1.00	42.00
B2427	2.10	20.00	1.08	4517.00	2.43	.66	.15	1.00	45.00
B2428	.10	2.50	1.01	580.00	2.81	.99	.17	1.00	36.00
B2429	.60	2.50	1.40	2084.00	2.70	1.02	.18	4.00	59.00
B2430	.20	2.50	.32	318.00	2.83	2.51	.06	1.00	39.00
B2436	.10	2.50	.22	1782.00	5.02	1.00	.07	8.00	19.00
B2437	.20	2.50	.37	316.00	2.27	.52	.08	4.00	10.00
B2438	1.80	95.00	.81	18800.00	3.68	1.04	.12	1.00	53.00
B2439	.10	2.50	.69	1403.00	4.23	1.61	.07	7.00	25.00
B2440	.30	20.00	.79	1677.00	3.30	1.22	.07	7.00	28.00
B2441	1.60	70.00	.10	7200.00	3.45	.73	.10	5.00	21.00
B2576	.10	2.50	.42	241.00	2.15	.99	.08	5.00	30.00
B2577	.10	2.50	.57	69.00	2.59	1.03	.06	7.00	71.00
B2578	.10	2.50	.71	91.00	2.70	.84	.06	7.00	49.00
B2579	.10	2.50	.66	48.00	3.03	1.60	.10	7.00	85.00
B2581	.10	2.50	.27	29.00	2.25	.73	.04	12.00	36.00
B2582	.10	2.50	.13	23.00	2.13	.80	.02	2.00	40.00
B2583	.05	2.50	1.39	55.00	3.16	1.35	.08	5.00	57.00
B2585	.20	2.50	.86	64.00	3.54	2.09	.10	5.00	102.00
B2587	.10	2.50	1.10	149.00	3.51	1.88	.10	15.00	68.00
B2589	.05	2.50	.99	85.00	2.55	1.28	.03	3.00	61.00
B2590	.05	2.50	.30	67.00	3.95	1.97	.02	4.00	84.00
B2591	.05	2.50	.29	232.00	2.30	1.36	.03	1.00	58.00
B2592	.10	5.00	.57	121.00	3.01	1.54	.09	7.00	93.00
B2594	.10	2.50	1.03	64.00	3.19	1.71	.17	6.00	86.00
B2595	.50	2.50	.90	76.00	3.91	1.74	.10	15.00	89.00
B2596	.10	5.00	.29	54.00	3.11	1.16	.04	5.00	71.00
B2597	.05	10.00	.21	27.00	3.34	1.31	.03	7.00	83.00
B2598	.10	5.00	.26	27.00	3.48	1.41	.06	5.00	81.00
B2599	.20	5.00	.98	117.00	3.13	1.07	.10	11.00	77.00
B2600	.20	5.00	.50	37.00	2.62	1.08	.09	15.00	59.00
B2602	.10	10.00	.11	38.00	2.31	1.04	.03	10.00	58.00
B2603	.10	5.00	.37	39.00	2.41	.79	.07	5.00	51.00
B2605	.10	5.00	.51	84.00	2.77	.79	.07	2.00	35.00
B2606	.05	5.00	.46	32.00	2.58	1.70	.04	4.00	55.00
B2607	.05	5.00	.19	49.00	3.08	1.60	.04	8.00	68.00
B2609	.10	5.00	.42	23.00	2.19	1.26	.03	7.00	56.00

SAMP	AG	AU	CA	CU	FE	MG	NA	PB	ZN
B2610	.05	2.50	.09	84.00	2.94	1.41	.03	7.00	74.00
B2612	.05	2.50	.50	78.00	2.89	1.56	.10	1.00	77.00
B2613	.05	10.00	.85	174.00	2.52	.88	.08	17.00	39.00
B2614	.20	2.50	.86	179.00	3.22	.76	.10	4.00	39.00
B2615	.20	35.00	.46	2359.00	5.08	.76	.09	1.00	15.00
B2616	.05	5.00	2.97	266.00	3.15	.73	.28	8.00	12.00
B2617	.05	5.00	.39	119.00	1.65	.89	.08	1.00	11.00
B2619	.10	**********	.44	119.00	3.57	2.21	.10	6.00	72.00
B2620	.10	**********	.49	92.00	2.02	1.30	.06	1.00	32.00
B2621	.10	**********	.63	56.00	3.73	1.66	.11	5.00	84.00
B2622	.10	**********	.55	124.00	2.93	1.34	.14	4.00	39.00
B2623	.10	**********	1.16	93.00	3.66	1.89	.19	12.00	131.00

END OF LISTING - 67 RECORDS PRINTED

ROCK SAMPLES

MAFIC VOLCANICS

P L A C E R D O M E I N C .

Placer Data Analysis System - LISTDF

run on 91:12:11 at 12:02:05

V272 KONA ROCK SAMPLE LOCATIONS AND ASSAYS

Summary of data from file : rock.maf

The internal header for this file has 8 records

Title and comments:
V272 KONA rock sample locations and assays

Data grouped into 35 fields by the following format:
(2A8,A4,2F8.1,2F10.1,2F8.2,5F7.1,2F8.2,3F7.1,F8.2,F9.3,F7.1,F8.2,2F7.1,F9.3,F7.1
,F8.2,3F7.1,F9.3,3F7.1)

Character ID fields:
SAMP GRID PROJ

Coordinate fields:
GRDX GRDY UTMX UTMY

Numeric data fields:

AG	AL	AS	AU	BA	BE	BI	CA	CD	CO	CR	CU
FE	K	LA	MG	MN	MO	NA	NI	P	PB	SB	SR
TI	V	W	ZN								

Missing data indicated by NULL value 99999.0

CHARACTER (ID) AND COORDINATE FIELDS

NAME	NDATA	NULLS	MINIMUM	MAXIMUM
SAMP	23	0	B2376	B2623
GRID	23	0	FIRE LAK	LAKE
PROJ	23	0	1406	1472
GRDX	23	0	4418.000	5870.000
GRDY	23	0	10975.00	13071.00
UTMX	23	0	417541.4	419382.7
UTMY	23	0	6788126.	6790135.

BASIC STATISTICS OF NUMERIC DATA FIELDS:

NAME	NDATA	NULLS	MINIMUM	MAXIMUM	MEAN	STD. DEV.
AG	23	0	.500000E-01	3.60000	.402174	.772169
AL	23	0	.570000	4.44000	2.08739	1.07113
AS	23	0	2.50000	22.0000	11.2826	5.42475
AU	8	15	2.50000	15.0000	4.68750	4.31722
BA	23	0	8.00000	1679.00	467.913	555.190
BE	23	0	.500000	.500000	.500000	.000000
BI	23	0	1.00000	2.00000	1.08696	.288104
CA	23	0	.400000E-01	2.66000	.797826	.530548
CD	23	0	.500000E-01	1.10000	.152174	.241434
CO	23	0	9.00000	90.0000	18.6087	16.4917
CR	23	0	44.0000	456.000	223.522	112.328
CU	23	0	8.00000	7467.00	647.522	1650.30
FE	23	0	1.51000	10.1300	3.36304	1.66000

K	23	0	.100000E-01	1.08000	.318261	.369012
LA	23	0	.500000	15.0000	3.50000	4.69042
MG	23	0	.570000	4.56000	1.86217	.995353
MN	23	0	151.000	1602.00	430.913	287.706
MO	23	0	.500000	12.0000	3.10870	3.40773
NA	23	0	.500000E-02	.190000	.923913E-01	.453739E-01
NI	23	0	16.0000	183.000	61.0000	40.6280
P	23	0	.000000	.190000	.373913E-01	.403640E-01
PB	23	0	1.00000	12.0000	3.43478	3.64101
SB	23	0	2.50000	17.0000	5.06522	4.25682
SR	23	0	2.00000	78.0000	21.3478	22.0837
TI	23	0	.500000E-02	.380000	.702174E-01	.756559E-01
V	23	0	36.0000	137.000	81.6087	28.5080
W	23	0	5.00000	5.00000	5.00000	.000000
ZN	23	0	22.0000	179.000	66.3913	38.5778

LIST DATA FILE: V272 KONA ROCK SAMPLE LOCATIONS AND ASSAYS DATE:
91:12:11 PAGE 1

SAMP	AG	AU	CA	CU	FE	MG	NA	PB	ZN
B2376	.50	********	1.45	52.00	4.36	.57	.14	5.00	70.00
B2378	.40	********	1.26	60.00	3.54	1.99	.14	3.00	179.00
B2382	.20	2.50	.84	219.00	2.87	.91	.13	1.00	74.00
B2403	.10	********	.72	58.00	2.93	2.01	.08	1.00	28.00
B2404	.20	********	.59	269.00	2.83	2.47	.10	1.00	48.00
B2406	.60	********	.75	1035.00	2.35	1.79	.11	1.00	26.00
B2407	3.60	********	.48	7467.00	2.71	.87	.06	1.00	71.00
B2408	.10	********	1.29	535.00	2.24	1.86	.14	1.00	58.00
B2412	.50	********	.51	560.00	3.40	1.45	.09	1.00	42.00
B2414	.20	********	.72	106.00	2.10	.93	.12	1.00	34.00
B2420	1.60	********	.29	3446.00	1.51	1.11	.05	2.00	22.00
B2425	.10	15.00	.88	110.00	2.95	1.01	.09	1.00	27.00
B2434	.05	2.50	.04	161.00	10.13	4.56	.00	1.00	127.00
B2580	.10	2.50	.60	8.00	3.09	2.99	.02	1.00	65.00
B2584	.05	2.50	.31	96.00	3.42	1.99	.04	1.00	63.00
B2588	.20	2.50	2.66	53.00	4.97	4.00	.03	11.00	98.00
B2593	.05	5.00	.71	57.00	2.91	2.85	.08	7.00	60.00
B2599	.20	5.00	.98	117.00	3.13	1.07	.10	11.00	77.00
B2619	.10	********	.44	119.00	3.57	2.21	.10	6.00	72.00
B2620	.10	********	.49	92.00	2.02	1.30	.06	1.00	32.00
B2621	.10	********	.63	56.00	3.73	1.66	.11	5.00	84.00
B2622	.10	********	.55	124.00	2.93	1.34	.14	4.00	39.00
B2623	.10	********	1.16	93.00	3.66	1.89	.19	12.00	131.00

END OF LISTING - 23 RECORDS PRINTED

ROCK SAMPLES

BLACK CLASTICS

P L A C E R D O M E I N C .

Placer Data Analysis System - LISTDF

run on 91:12:11 at 15:34:13

V272 KONA ROCK SAMPLE LOCATIONS AND ASSAYS

Summary of data from file : rock.blc

The internal header for this file has 8 records

Title and comments:
V272 KONA rock sample locations and assays

Data grouped into 35 fields by the following format:
(2A8,A4,2F8.1,2F10.1,2F8.2,5F7.1,2F8.2,3F7.1,F8.2,F9.3,F7.1,F8.2,2F7.1,F9.3,F7.1
,F8.2,3F7.1,F9.3,3F7.1)

Character ID fields:
SAMP GRID PROJ

Coordinate fields:
GRDX GRDY UTMX UTMY

Numeric data fields:

AG	AL	AS	AU	BA	BE	BI	CA	CD	CO	CR	CU
FE	K	LA	MG	MN	MO	NA	NI	P	PB	SB	SR
TI	V	W	ZN								

Missing data indicated by NULL value 99999.0

CHARACTER (ID) AND COORDINATE FIELDS

NAME	NDATA	NULLS	MINIMUM	MAXIMUM
SAMP	12	1	B2388	B2651
GRID	12	1	FIRE LAK	LAKE
PROJ	12	1	1417	1504
GRDX	13	0	.0000000	6600.000
GRDY	13	0	.0000000	11860.00
UTMX	13	0	.0000000	420271.6
UTMY	13	0	.0000000	6789368.

BASIC STATISTICS OF NUMERIC DATA FIELDS:

NAME	NDATA	NULLS	MINIMUM	MAXIMUM	MEAN	STD. DEV.
AG	13	0	.000000	2.50000	.492308	.675107
AL	13	0	.000000	3.46000	1.88538	.870638
AS	13	0	.000000	20.0000	6.03846	5.53196
AU	8	5	.000000	15.0000	4.06250	4.61703
BA	13	0	.000000	470.000	183.154	121.491
BE	13	0	.000000	2.00000	.615385	.463404
BI	13	0	.000000	3.00000	1.15385	.688737
CA	13	0	.000000	1.41000	.611538	.426475
CD	13	0	.000000	3.40000	.492308	.944909
CO	13	0	.000000	14.0000	7.46154	3.55001
CR	13	0	.000000	194.000	134.231	50.0536
CU	13	0	.000000	104.000	48.9231	28.9841
FE	13	0	.000000	4.38000	2.97308	1.18408

K	13	0	.000000	.950000	.358462	.262959
LA	13	0	.000000	23.0000	12.3077	6.06059
MG	13	0	.000000	1.63000	.918462	.379887
MN	13	0	.000000	801.000	387.846	183.220
MO	13	0	.000000	43.0000	9.69231	11.8560
NA	13	0	.000000	.170000	.846154E-01	.530119E-01
NI	13	0	.000000	62.0000	25.1538	16.4664
P	13	0	.000000	.140000	.723077E-01	.353916E-01
PB	13	0	.000000	51.0000	13.7692	12.8592
SB	13	0	.000000	8.00000	2.92308	1.83537
SR	13	0	.000000	68.0000	31.1538	21.7901
TI	13	0	.000000	.130000	.446154E-01	.368817E-01
V	13	0	.000000	138.000	63.5385	42.6099
W	13	0	.000000	11.0000	5.53846	2.78733
ZN	13	0	.000000	166.000	80.6154	38.3113

LIST DATA FILE: V272 KONA ROCK SAMPLE LOCATIONS AND ASSAYS DATE:
91:12:11 PAGE 1

SAMP	AG	AU	CA	CU	FE	MG	NA	PB	ZN
	.00	.00	.00	.00	.00	.00	.00	.00	.00
B2388	.10	2.50	1.26	104.00	2.79	.82	.11	12.00	91.00
B2395	.90	2.50	1.41	80.00	3.92	1.17	.17	51.00	166.00
B2410	.20	*******	.23	63.00	4.02	1.63	.03	12.00	71.00
B2415	.30	*******	.26	41.00	3.84	1.08	.05	1.00	96.00
B2416	.40	*******	.61	50.00	2.47	.97	.09	13.00	64.00
B2418	2.50	*******	.87	28.00	2.95	.96	.15	8.00	53.00
B2419	1.00	*******	.70	18.00	2.73	1.07	.14	13.00	77.00
B2444	.20	15.00	.27	17.00	1.68	.70	.06	15.00	45.00
B2586	.10	2.50	.65	60.00	2.63	.79	.05	4.00	96.00
B2601	.20	2.50	.58	67.00	3.24	.56	.07	24.00	98.00
B2608	.40	5.00	.93	70.00	4.00	1.08	.14	14.00	89.00
B2651	.10	2.50	.18	38.00	4.38	1.11	.04	12.00	102.00

END OF LISTING - 13 RECORDS PRINTED

ROCK SAMPLES

LOWER LMS

P L A C E R D O M E I N C .

Placer Data Analysis System - LISTDF

run on 91:12:11 at 12:07:29

V272 KONA ROCK SAMPLE LOCATIONS AND ASSAYS

Summary of data from file : rock.lms

The internal header for this file has 8 records

Title and comments:
V272 KONA rock sample locations and assays

Data grouped into 35 fields by the following format:
(2A8,A4,2F8.1,2F10.1,2F8.2,5F7.1,2F8.2,3F7.1,F8.2,F9.3,F7.1,F8.2,2F7.1,F9.3,F7.1
,F8.2,3F7.1,F9.3,3F7.1)

Character ID fields:
SAMP GRID PROJ

Coordinate fields:
GRDX GRDY UTMX UTMY

Numeric data fields:

AG	AL	AS	AU	BA	BE	BI	CA	CD	CO	CR	CU
FE	K	LA	MG	MN	MO	NA	NI	P	PB	SB	SR
TI	V	W	ZN								

Missing data indicated by NULL value 99999.0

CHARACTER (ID) AND COORDINATE FIELDS

NAME	NDATA	NULLS	MINIMUM	MAXIMUM
SAMP	13	2	B2377	B2611
GRID	13	2	FIRE 105	FIRE LAK
PROJ	13	2	1406	1459
GRDX	15	0	.0000000	5900.000
GRDY	15	0	.0000000	12510.00
UTMX	15	0	.0000000	420131.2
UTMY	15	0	.0000000	6789683.

BASIC STATISTICS OF NUMERIC DATA FIELDS:

NAME	NDATA	NULLS	MINIMUM	MAXIMUM	MEAN	STD. DEV.
AG	15	0	.000000	1.40000	.306667	.363449
AL	15	0	.000000	6.87000	2.44467	2.38911
AS	15	0	.000000	26.0000	6.60000	6.95958
AU	12	3	.000000	15.0000	4.37500	4.28064
BA	15	0	.000000	1351.00	276.333	339.229
BE	15	0	.000000	1.00000	.600000	.338062
BI	15	0	.000000	2.00000	1.00000	.534522
CA	15	0	.000000	2.79000	.910000	1.01741
CD	15	0	.000000	1.50000	.250000	.378437
CO	15	0	.000000	23.0000	8.63333	7.20730
CR	15	0	.000000	215.000	103.600	61.9029
CU	15	0	.000000	110.000	36.7333	32.4113
FE	15	0	.000000	5.05000	2.71467	1.69977

K	15	0	.000000	2.34000	.711333	.801640
LA	15	0	.000000	54.0000	14.6333	15.3279
MG	15	0	.000000	2.32000	1.06333	.812542
MN	15	0	.000000	1053.00	422.867	316.932
MO	15	0	.000000	9.00000	2.93333	2.87766
NA	15	0	.000000	.340000	.123333	.122338
NI	15	0	.000000	41.0000	13.4667	11.2876
P	15	0	.000000	.110000	.526667E-01	.382598E-01
PB	15	0	.000000	125.000	30.9333	46.1108
SB	15	0	.000000	10.0000	4.00000	3.16228
SR	15	0	.000000	151.000	50.4000	54.4529
TI	15	0	.000000	.270000	.873333E-01	.902549E-01
V	15	0	.000000	115.000	47.9333	46.4842
W	15	0	.000000	20.0000	5.33333	4.41858
ZN	15	0	.000000	327.000	115.133	101.716

LIST DATA FILE: V272 KONA ROCK SAMPLE LOCATIONS AND ASSAYS DATE:
91:12:11 PAGE 1

SAMP	AG	AU	CA	CU	FE	MG	NA	PB	ZN
B2377	.10	*******	.54	15.00	2.26	.50	.11	8.00	71.00
B2379	.10	*******	.18	19.00	2.33	.51	.07	5.00	82.00
B2380	.10	*******	.12	28.00	4.41	1.01	.07	1.00	99.00
B2389	1.40	5.00	.07	61.00	1.08	.43	.03	77.00	134.00
B2390	.10	2.50	1.27	7.00	.83	.56	.02	4.00	62.00
B2399	.70	2.50	2.61	54.00	4.08	2.08	.34	111.00	323.00
B2400	.20	10.00	2.79	70.00	4.89	1.94	.33	99.00	179.00
B2421	.50	5.00	.23	30.00	3.79	.92	.05	2.00	79.00
B2422	.50	2.50	1.13	45.00	3.72	2.28	.22	13.00	191.00
B2423	.30	2.50	.16	7.00	1.67	.57	.05	10.00	46.00
B2424	.30	5.00	.97	26.00	3.66	1.82	.14	8.00	107.00
B2425	.10	15.00	.88	110.00	2.95	1.01	.09	1.00	27.00
B2611	.20	2.50	2.70	79.00	5.05	2.32	.33	125.00	327.00
	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	.00

END OF LISTING - 15 RECORDS PRINTED

ALL ROCK SAMPLES

KONA

P L A C E R D O M E I N C .

Placer Data Analysis System - LISTDF

run on 91:12:11 at 11:04:46

V272 KONA ROCK SAMPLE LOCATIONS AND ASSAYS

Summary of data from file : rock.asy

The internal header for this file has 8 records

Title and comments:
V272 KONA rock sample locations and assays

Data grouped into 35 fields by the following format:
(2A8,A4,2F8.1,2F10.1,2F8.2,5F7.1,2F8.2,3F7.1,F8.2,F9.3,F7.1,F8.2,2F7.1,F9.3,F7.1
,F8.2,3F7.1,F9.3,3F7.1)

Character ID fields:
SAMP GRID PROJ

Coordinate fields:
GRDX GRDY UTMX UTMY

Numeric data fields:

AG	AL	AS	AU	BA	BE	BI	CA	CD	CO	CR	CU
FE	K	LA	MG	MN	MO	NA	NI	P	PB	SB	SR
TI	V	W	ZN								

Missing data indicated by NULL value 99999.0

CHARACTER (ID) AND COORDINATE FIELDS

NAME	NDATA	NULLS	MINIMUM	MAXIMUM
SAMP	112	0	B2376	B2651
GRID	112	0	FIRE 105	LAKE
PROJ	112	0	1406	1504
GRDX	112	0	3920.000	6600.000
GRDY	112	0	8900.000	13478.00
UTMX	112	0	417220.9	420271.6
UTMY	112	0	6786170.	6790841.

BASIC STATISTICS OF NUMERIC DATA FIELDS:

NAME	NDATA	NULLS	MINIMUM	MAXIMUM	MEAN	STD. DEV.
AG	112	0	.500000E-01	17.0000	.505357	1.69633
AL	112	0	.500000E-01	6.87000	1.88946	1.16281
AS	112	0	2.50000	200.000	11.5491	21.6564
AU	85	27	2.50000	3955.00	56.9412	428.532
BA	112	0	6.00000	2444.00	425.000	485.726
BE	112	0	.500000	2.00000	.558036	.198480
BI	112	0	1.00000	15.0000	1.61607	1.96476
CA	112	0	.000000	4.28000	.731964	.680281
CD	112	0	.500000E-01	3.40000	.209821	.407687
CO	112	0	.500000	637.000	25.6027	74.9611
CR	112	0	44.0000	456.000	169.696	74.4120
CU	112	0	7.00000	20800.0	891.196	2898.16
FE	112	0	.830000	16.9100	3.66411	2.73287

K	112	0	.500000E-02	2.34000	.377277	.422566
LA	112	0	.500000	54.0000	7.76786	8.02808
MG	112	0	.200000E-01	4.56000	1.31732	.738346
MN	112	0	33.0000	1602.00	465.420	268.795
MO	112	0	.500000	43.0000	5.16518	5.72193
NA	112	0	.500000E-02	.340000	.841071E-01	.652204E-01
NI	112	0	5.00000	198.000	39.1071	32.3877
P	112	0	.000000	.190000	.427679E-01	.320532E-01
PB	112	0	1.00000	125.000	9.54464	19.4357
SB	112	0	2.50000	17.0000	4.30357	3.27106
SR	112	0	.500000	151.000	25.3661	28.2201
TI	112	0	.500000E-02	.380000	.585268E-01	.564635E-01
V	112	0	2.00000	174.000	66.5357	37.6776
W	112	0	5.00000	104.000	6.45536	9.55674
ZN	112	0	10.0000	586.000	80.2321	73.0987

LIST DATA FILE: V272 KONA ROCK SAMPLE LOCATIONS AND ASSAYS DATE:
91:12:11 PAGE 1

SAMP	AG	AU	CA	CU	FE	MG	NA	PB	ZN
B2376	.50	*********	1.45	52.00	4.36	.57	.14	5.00	70.00
B2377	.10	*********	.54	15.00	2.26	.50	.11	8.00	71.00
B2378	.40	*********	1.26	60.00	3.54	1.99	.14	3.00	179.00
B2379	.10	*********	.18	19.00	2.33	.51	.07	5.00	82.00
B2380	.10	*********	.12	28.00	4.41	1.01	.07	1.00	99.00
B2381	.10	2.50	.99	178.00	2.99	1.01	.13	3.00	90.00
B2382	.20	2.50	.84	219.00	2.87	.91	.13	1.00	74.00
B2383	.20	2.50	1.00	63.00	1.48	.53	.04	8.00	41.00
B2384	.20	2.50	.12	62.00	3.21	1.46	.03	6.00	67.00
B2385	.05	2.50	.88	39.00	1.99	1.06	.03	7.00	42.00
B2386	.10	2.50	.72	50.00	1.83	.78	.03	6.00	43.00
B2387	.20	25.00	.27	545.00	12.67	.71	.02	1.00	586.00
B2388	.10	2.50	1.26	104.00	2.79	.82	.11	12.00	91.00
B2389	1.40	5.00	.07	61.00	1.08	.43	.03	77.00	134.00
B2390	.10	2.50	1.27	7.00	.83	.56	.02	4.00	62.00
B2391	.05	2.50	4.28	11.00	4.46	3.55	.00	1.00	72.00
B2392	.05	2.50	1.48	61.00	3.11	1.31	.01	9.00	68.00
B2393	.10	2.50	1.07	58.00	2.90	1.42	.02	5.00	53.00
B2394	.10	2.50	.30	81.00	2.34	.25	.01	1.00	59.00
B2395	.90	2.50	1.41	80.00	3.92	1.17	.17	51.00	166.00
B2396	.80	185.00	.02	1412.00	7.88	.02	.00	3.00	18.00
B2398	.30	2.50	1.41	64.00	3.52	1.89	.08	4.00	148.00
B2399	.70	2.50	2.61	54.00	4.08	2.08	.34	111.00	323.00
B2400	.20	10.00	2.79	70.00	4.89	1.94	.33	99.00	179.00
B2401	.70	*********	.45	671.00	4.62	2.19	.10	1.00	84.00
B2402	1.20	*********	.40	299.00	5.42	1.94	.10	1.00	78.00
B2403	.10	*********	.72	58.00	2.93	2.01	.08	1.00	28.00
B2404	.20	*********	.59	269.00	2.83	2.47	.10	1.00	48.00
B2405	4.00	*********	.79	5508.00	2.65	1.50	.10	1.00	31.00
B2406	.60	*********	.75	1035.00	2.35	1.79	.11	1.00	26.00
B2407	3.60	*********	.48	7467.00	2.71	.87	.06	1.00	71.00
B2408	.10	*********	1.29	535.00	2.24	1.86	.14	1.00	58.00
B2410	.20	*********	.23	63.00	4.02	1.63	.03	12.00	71.00
B2411	.20	*********	.37	155.00	2.39	1.64	.08	4.00	42.00
B2412	.50	*********	.51	560.00	3.40	1.45	.09	1.00	42.00
B2414	.20	*********	.72	106.00	2.10	.93	.12	1.00	34.00
B2415	.30	*********	.26	41.00	3.84	1.08	.05	1.00	96.00
B2416	.40	*********	.61	50.00	2.47	.97	.09	13.00	64.00
B2418	2.50	*********	.87	28.00	2.95	.96	.15	8.00	53.00
B2419	1.00	*********	.70	18.00	2.73	1.07	.14	13.00	77.00
B2420	1.60	*********	.29	3446.00	1.51	1.11	.05	2.00	22.00
B2421	.50	5.00	.23	30.00	3.79	.92	.05	2.00	79.00
B2422	.50	2.50	1.13	45.00	3.72	2.28	.22	13.00	191.00
B2423	.30	2.50	.16	7.00	1.67	.57	.05	10.00	46.00
B2424	.30	5.00	.97	26.00	3.66	1.82	.14	8.00	107.00
B2425	.10	15.00	.88	110.00	2.95	1.01	.09	1.00	27.00
B2427	2.10	20.00	1.08	4517.00	2.43	.66	.15	1.00	45.00
B2428	.10	2.50	1.01	580.00	2.81	.99	.17	1.00	36.00
B2429	.60	2.50	1.40	2084.00	2.70	1.02	.18	4.00	59.00
B2430	.20	2.50	.32	318.00	2.83	2.51	.06	1.00	39.00
B2431	.10	45.00	.03	2767.00	16.91	.80	.00	1.00	159.00
B2432	.05	15.00	.09	1508.00	14.97	1.02	.01	1.00	160.00
B2433	.05	65.00	.04	5600.00	13.72	1.52	.00	1.00	283.00
B2434	.05	2.50	.04	161.00	10.13	4.56	.00	1.00	127.00
B2435	17.00	3955.00	.00	20800.00	16.00	.06	.00	1.00	174.00

SAMP	AG	AU	CA	CU	FE	MG	NA	PB	ZN
B2436	.10	2.50	.22	1782.00	5.02	1.00	.07	8.00	19.00
B2437	.20	2.50	.37	316.00	2.27	.52	.08	4.00	10.00
B2438	1.80	95.00	.81	18800.00	3.68	1.04	.12	1.00	53.00
B2439	.10	2.50	.69	1403.00	4.23	1.61	.07	7.00	25.00
B2440	.30	20.00	.79	1677.00	3.30	1.22	.07	7.00	28.00
B2441	1.60	70.00	.10	7200.00	3.45	.73	.10	5.00	21.00
B2442	.10	15.00	.17	26.00	1.38	1.04	.03	18.00	45.00
B2443	.20	10.00	.23	42.00	.86	.27	.07	11.00	30.00
B2444	.20	15.00	.27	17.00	1.68	.70	.06	15.00	45.00
B2576	.10	2.50	.42	241.00	2.15	.99	.08	5.00	30.00
B2577	.10	2.50	.57	69.00	2.59	1.03	.06	7.00	71.00
B2578	.10	2.50	.71	91.00	2.70	.84	.06	7.00	49.00
B2579	.10	2.50	.66	48.00	3.03	1.60	.10	7.00	85.00
B2580	.10	2.50	.60	8.00	3.09	2.99	.02	1.00	65.00
B2581	.10	2.50	.27	29.00	2.25	.73	.04	12.00	36.00
B2582	.10	2.50	.13	23.00	2.13	.80	.02	2.00	40.00
B2583	.05	2.50	1.39	55.00	3.16	1.35	.08	5.00	57.00
B2584	.05	2.50	.31	96.00	3.42	1.99	.04	1.00	63.00
B2585	.20	2.50	.86	64.00	3.54	2.09	.10	5.00	102.00
B2586	.10	2.50	.65	60.00	2.63	.79	.05	4.00	96.00
B2587	.10	2.50	1.10	149.00	3.51	1.88	.10	15.00	68.00
B2588	.20	2.50	2.66	53.00	4.97	4.00	.03	11.00	98.00
B2589	.05	2.50	.99	85.00	2.55	1.28	.03	3.00	61.00
B2590	.05	2.50	.30	67.00	3.95	1.97	.02	4.00	84.00
B2591	.05	2.50	.29	232.00	2.30	1.36	.03	1.00	58.00
B2592	.10	5.00	.57	121.00	3.01	1.54	.09	7.00	93.00
B2593	.05	5.00	.71	57.00	2.91	2.85	.08	7.00	60.00
B2594	.10	2.50	1.03	64.00	3.19	1.71	.17	6.00	86.00
B2595	.50	2.50	.90	76.00	3.91	1.74	.10	15.00	89.00
B2596	.10	5.00	.29	54.00	3.11	1.16	.04	5.00	71.00
B2597	.05	10.00	.21	27.00	3.34	1.31	.03	7.00	83.00
B2598	.10	5.00	.26	27.00	3.48	1.41	.06	5.00	81.00
B2599	.20	5.00	.98	117.00	3.13	1.07	.10	11.00	77.00
B2600	.20	5.00	.50	37.00	2.62	1.08	.09	15.00	59.00
B2601	.20	2.50	.58	67.00	3.24	.56	.07	24.00	98.00
B2602	.10	10.00	.11	38.00	2.31	1.04	.03	10.00	58.00
B2603	.10	5.00	.37	39.00	2.41	.79	.07	5.00	51.00
B2604	.10	10.00	1.38	84.00	3.28	.52	.11	7.00	110.00
B2605	.10	5.00	.51	84.00	2.77	.79	.07	2.00	35.00
B2606	.05	5.00	.46	32.00	2.58	1.70	.04	4.00	55.00
B2607	.05	5.00	.19	49.00	3.08	1.60	.04	8.00	68.00
B2608	.40	5.00	.93	70.00	4.00	1.08	.14	14.00	89.00
B2609	.10	5.00	.42	23.00	2.19	1.26	.03	7.00	56.00
B2610	.05	2.50	.09	84.00	2.94	1.41	.03	7.00	74.00
B2611	.20	2.50	2.70	79.00	5.05	2.32	.33	125.00	327.00
B2612	.05	2.50	.50	78.00	2.89	1.56	.10	1.00	77.00
B2613	.05	10.00	.85	174.00	2.52	.88	.08	17.00	39.00
B2614	.20	2.50	.86	179.00	3.22	.76	.10	4.00	39.00
B2615	.20	35.00	.46	2359.00	5.08	.76	.09	1.00	15.00
B2616	.05	5.00	2.97	266.00	3.15	.73	.28	8.00	12.00
B2617	.05	5.00	.39	119.00	1.65	.89	.08	1.00	11.00
B2619	.10	*********	.44	119.00	3.57	2.21	.10	6.00	72.00
B2620	.10	*********	.49	92.00	2.02	1.30	.06	1.00	32.00
B2621	.10	*********	.63	56.00	3.73	1.66	.11	5.00	84.00
B2622	.10	*********	.55	124.00	2.93	1.34	.14	4.00	39.00

SAMP	AG	AU	CA	CU	FE	MG	NA	PB	ZN
B2623	.10	*********	1.16	93.00	3.66	1.89	.19	12.00	131.00
B2651	.10	2.50	.18	38.00	4.38	1.11	.04	12.00	102.00

END OF LISTING - 112 RECORDS PRINTED

APPENDIX IV

SOIL SAMPLE

STATISTICAL ANALAYSIS

OF

GEOCHEMICAL RESULTS

P L A C E R D O M E I N C .

Placer Data Analysis System -- STATS

run on 91:10:03 at 12.40:20

V272 KOMA SBI: GRID - GROX,Y ARE INTERPOLATED COORDS

Summary of data from file : soil.asy

This data file contains an internal header: (8 records)
Data grouped into 35 fields
with format: (8A,4F8.1,2F10.1,2F8.2,5F7.1,2F8.2,3F7.1,F8.2,2F9.3,F7.1,F8.2,2F7.1,F9.3,F7.1,F8

Character ID fields:
PROJ

Coordinate fields:
OLOX OLOY GROY GROX GIBX GIMY

Other data fields:

AG	AL	AS	BA	BA	BE	BI	CA	CD	CR	CU
FE	K	LA	MG	MN	MO	NA	NI	P	PB	SB	SR
TI	V	W	ZN							

Missing data indicated by NULL value 99999.0

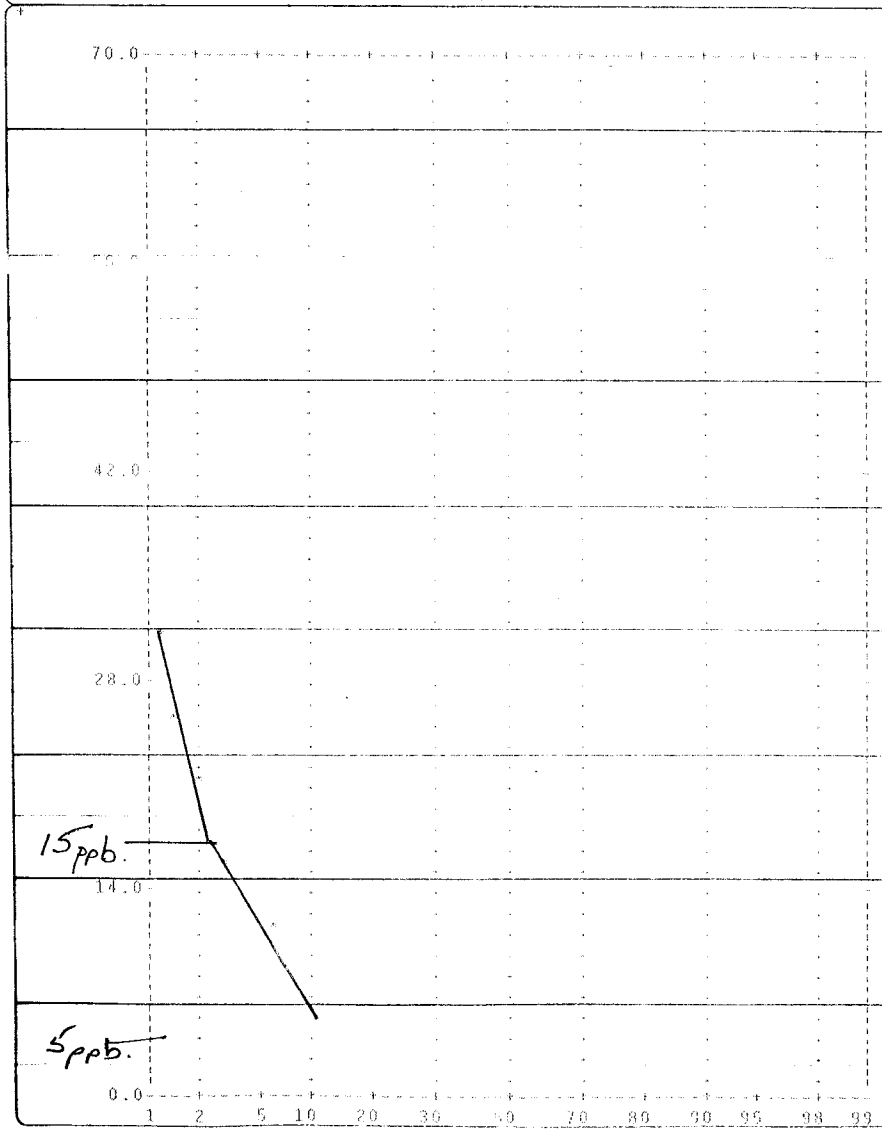
BASIC STATISTICS OF SELECTED ORIG FIELDS:

NAME	NOBIA	NULLS	MINIMUM	MAXIMUM	MEAN	STD. DEV.	GEOM. MEAN	DISPERSION
AG	1750	0	.000000	5.00000	.267715	.318377	.186325	.8136705-01 .426674
AU	484	1266	.900000	70.0000	3.75033	5.85031	2.87660	1.54805 5.34308
CU	1750	0	.650000	1771.00	49.2549	96.1461	31.7480	14.2743 70.6162
FE	1750	0	.000000	33.9300	3.38865	1.34778	3.15392	2.04377 4.86707
PB	1750	0	.000000	543.000	19.1497	27.6575	13.1114	5.16481 33.2845
ZN	1750	0	.000000	1036.00	133.095	84.4917	112.710	59.5940 213.169

PROBLT: V272 KONA SOIL GRID - GROX,Y ARE INTERPOLATED COORDS RUN ON 91:10:03 AT 12:40:20

file: soil.asy Field name: AU LOG =0 REPVAL = .00100

MIN = .00000 MAX = 70.000 MEAN = 3.7603 STD DEV = 5.8503
NUMBER OF DATA PLOTTED = 484 (1266 NULLS 0 < YMIN 0 > YMAX)



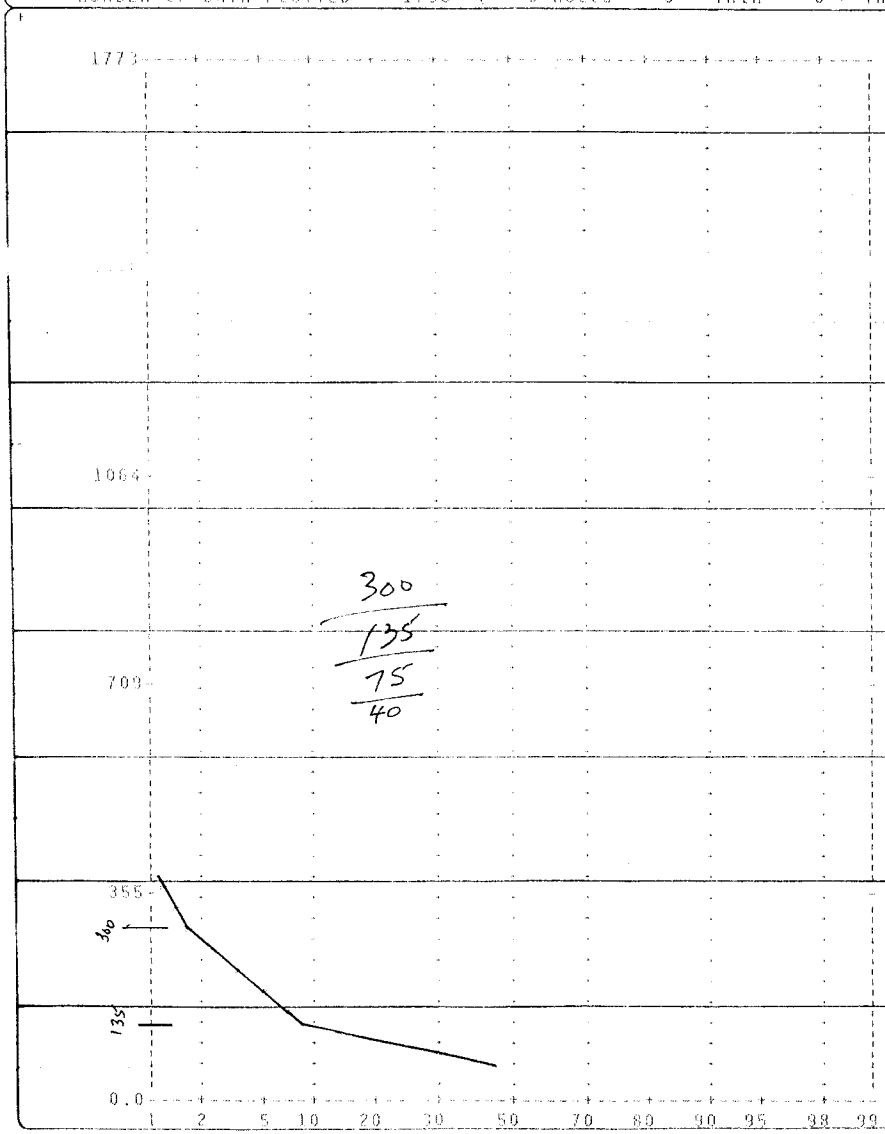
CLASSIFICATION TABLE

Max Val	Mval	Freq	Cum Freq
70.000	1	.002	.002
68.600	0	.000	.002
67.200	0	.000	.002
65.800	1	.002	.004
64.400	0	.000	.004
63.000	0	.000	.004
61.600	0	.000	.004
60.200	0	.000	.004
58.800	0	.000	.004
57.400	0	.000	.004
56.000	0	.000	.004
54.600	0	.000	.004
53.200	0	.000	.004
51.800	0	.000	.004
50.400	0	.000	.004
49.000	0	.000	.004
47.600	0	.000	.004
46.200	1	.002	.006
44.800	0	.000	.006
43.400	0	.000	.006
42.000	0	.000	.006
40.600	0	.000	.006
39.200	0	.000	.006
37.800	0	.000	.006
36.400	0	.000	.006
35.000	2	.004	.010
33.600	0	.000	.010
32.200	0	.000	.010
30.800	2	.004	.014
29.400	0	.000	.014
28.000	0	.000	.014
26.600	0	.000	.014
25.200	1	.002	.017
23.800	0	.000	.017
22.400	0	.000	.017
21.000	4	.008	.025
19.600	0	.000	.025
18.200	0	.000	.025
16.800	0	.000	.025
15.400	4	.008	.033
14.000	0	.000	.033
12.600	0	.000	.033
11.200	16	.033	.066
9.8000	0	.000	.066
8.4000	0	.000	.066
7.0000	0	.000	.066
5.6000	23	.048	.114
4.2000	0	.000	.114
2.8000	428	.884	.998
1.4000	1	.002	1.000
.00000	0	.000	1.000

PROBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:03 AT 12:40:20

file: soil.asy Field name: CU LOG =0 REPVAL = .00100

MIN = .00000 MAX = 1773.0 MEAN = 49.255 STD DEV = 96.146
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



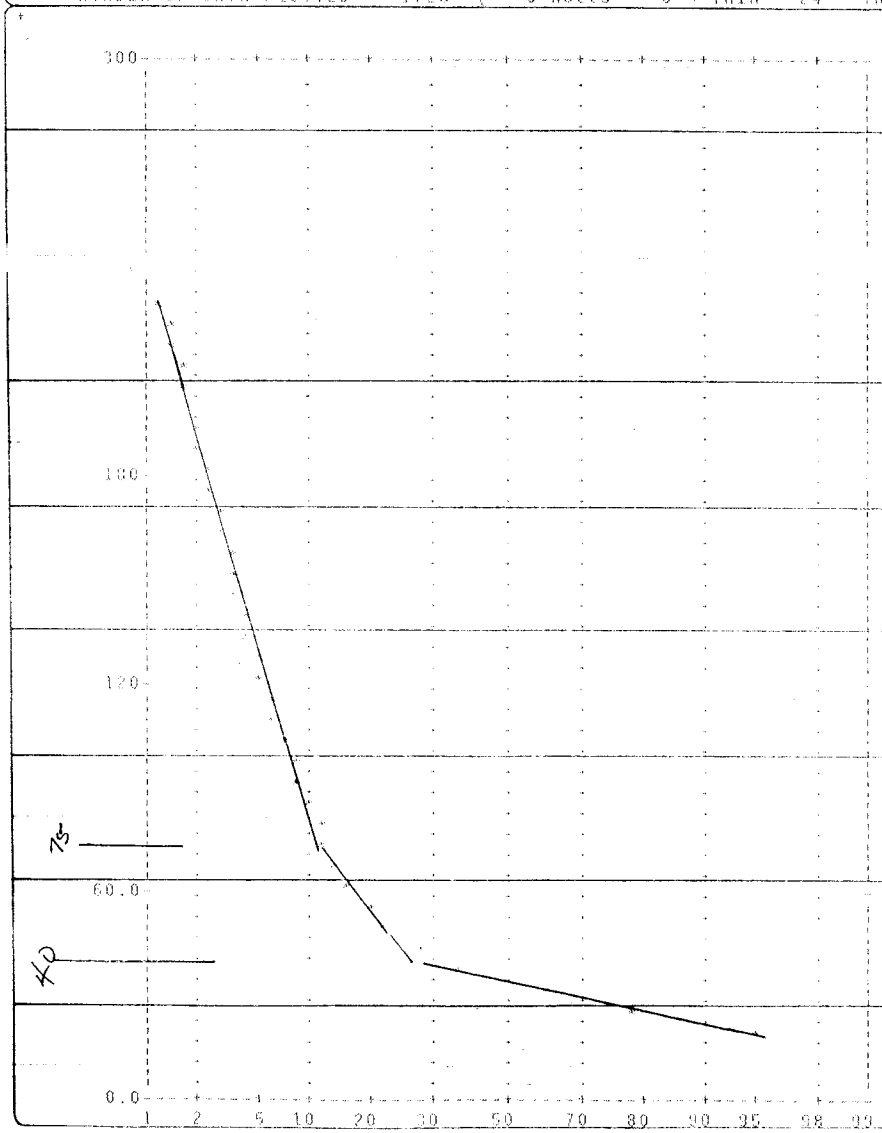
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
1773.0	1	.001	.001
1737.5	1	.001	.001
1702.1	0	.000	.001
1666.6	0	.000	.001
1631.2	0	.000	.001
1595.7	0	.000	.001
1560.2	0	.000	.001
1524.8	0	.000	.001
1489.3	0	.000	.001
1453.9	0	.000	.001
[illegible]	0	.000	.001
1382.9	1	.001	.002
1347.5	0	.000	.002
1312.0	0	.000	.002
1276.6	0	.000	.002
1241.1	0	.000	.002
1205.6	0	.000	.002
1170.2	0	.000	.002
1134.7	0	.000	.002
1099.3	0	.000	.002
1063.8	1	.001	.002
1028.3	0	.000	.002
992.88	0	.000	.002
957.42	0	.000	.002
921.96	2	.001	.003
886.50	0	.000	.003
851.04	0	.000	.003
815.58	1	.001	.004
780.12	0	.000	.004
744.66	0	.000	.004
709.20	0	.000	.004
673.74	0	.000	.004
638.28	0	.000	.004
602.82	1	.001	.005
567.36	2	.001	.006
531.90	2	.001	.007
496.44	0	.000	.007
460.98	1	.001	.007
425.52	0	.000	.007
390.06	5	.003	.010
354.60	4	.002	.013
319.14	6	.003	.016
283.68	10	.006	.022
248.22	15	.009	.030
212.76	19	.011	.041
177.30	29	.017	.058
141.84	38	.022	.079
106.38	96	.055	.134
70.920	328	.187	.322
35.460	1187	.678	1.000
.00000	0	.000	1.000

PROPLT: V272 KONA SOIL GRID - GROX,Y ARE INTERPOLATED COORDS RUN ON 91:10:03 AT 12:40:20

file: soil.asy Field name: CU LOG =0 REPVAL = .00100

MIN = .00000 MAX = 1773.0 MEAN = 49.255 STD DEV = 96.146
NUMBER OF OBTN PLOTTED = 1726 (0 NULLS 0 < YMIN 24 > YMAX)



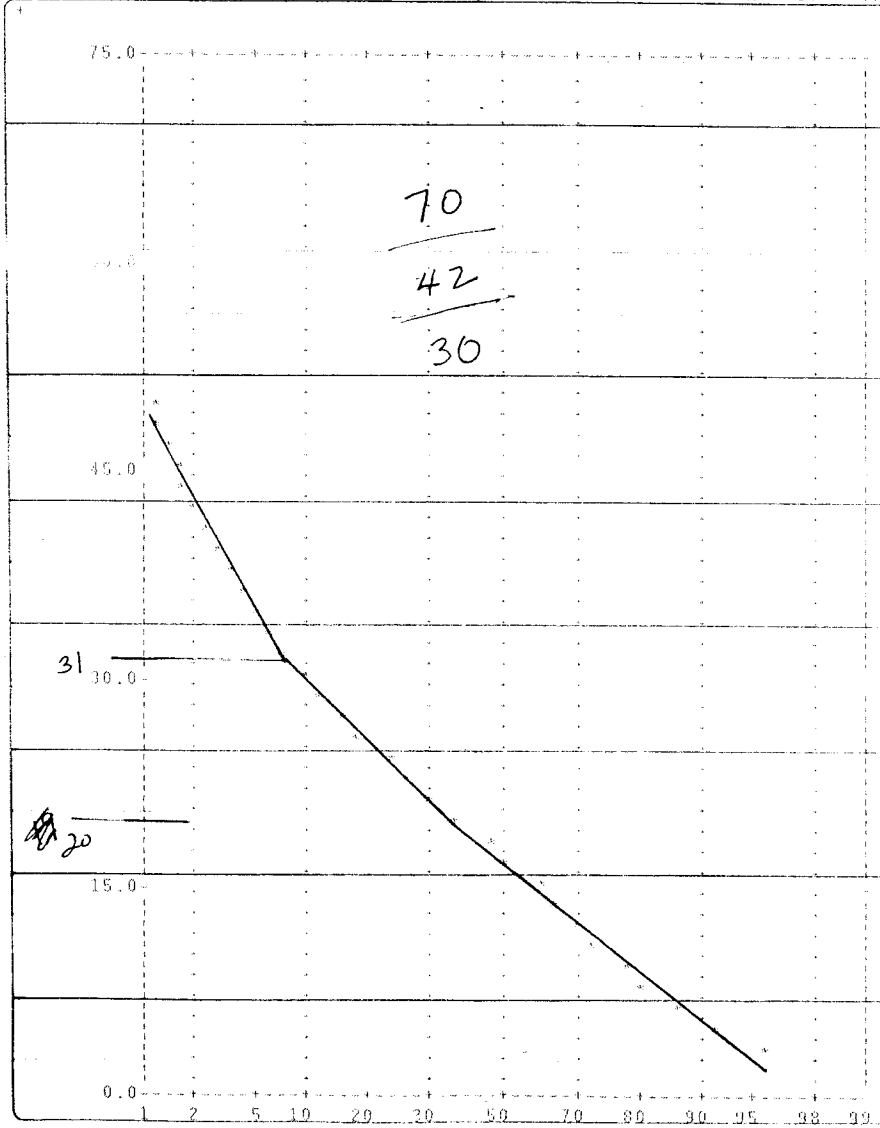
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
300.00	1	.001	.001
294.00	3	.002	.002
288.00	0	.000	.002
282.00	1	.001	.003
276.00	2	.001	.004
270.00	1	.001	.005
264.00	1	.001	.005
258.00	2	.001	.006
252.00	3	.002	.008
246.00	2	.001	.010
240.00	3	.002	.012
234.00	3	.002	.012
228.00	4	.002	.014
222.00	2	.001	.016
216.00	4	.002	.018
210.00	2	.001	.019
204.00	4	.002	.021
198.00	0	.000	.021
192.00	6	.003	.025
186.00	4	.002	.027
180.00	4	.002	.030
174.00	5	.003	.032
168.00	5	.003	.035
162.00	4	.002	.038
156.00	7	.004	.042
150.00	4	.002	.044
144.00	4	.002	.046
138.00	1	.001	.047
132.00	5	.003	.050
126.00	11	.006	.056
120.00	9	.005	.061
114.00	6	.003	.065
108.00	12	.007	.072
102.00	16	.009	.081
96.000	13	.008	.089
90.000	14	.008	.097
84.000	17	.010	.107
78.000	21	.012	.119
72.000	20	.012	.130
66.000	24	.014	.144
60.000	38	.022	.166
54.000	49	.028	.195
48.000	68	.039	.234
42.000	108	.063	.297
36.000	174	.101	.397
30.000	348	.202	.599
24.000	345	.200	.799
18.000	262	.152	.951
12.000	77	.045	.995
6.0000	8	.005	1.000
.00000	0	.000	1.000

PRBPLT: V272 KOMA SOIL GRID - GROX,Y ARE INTERPOLATED COORDS RUN ON 91:10:03 AT 12:40:20

file: soil.asy Field name: PB LOG =0 REPVAL = .00100

MIN = .00000 MAX = 543.00 MEAN = 19.150 STD DEV = 27.657
NUMBER OF DATA PLOTTED = 1723 (0 NULLS 0 < YMIN 27 > YMAX)



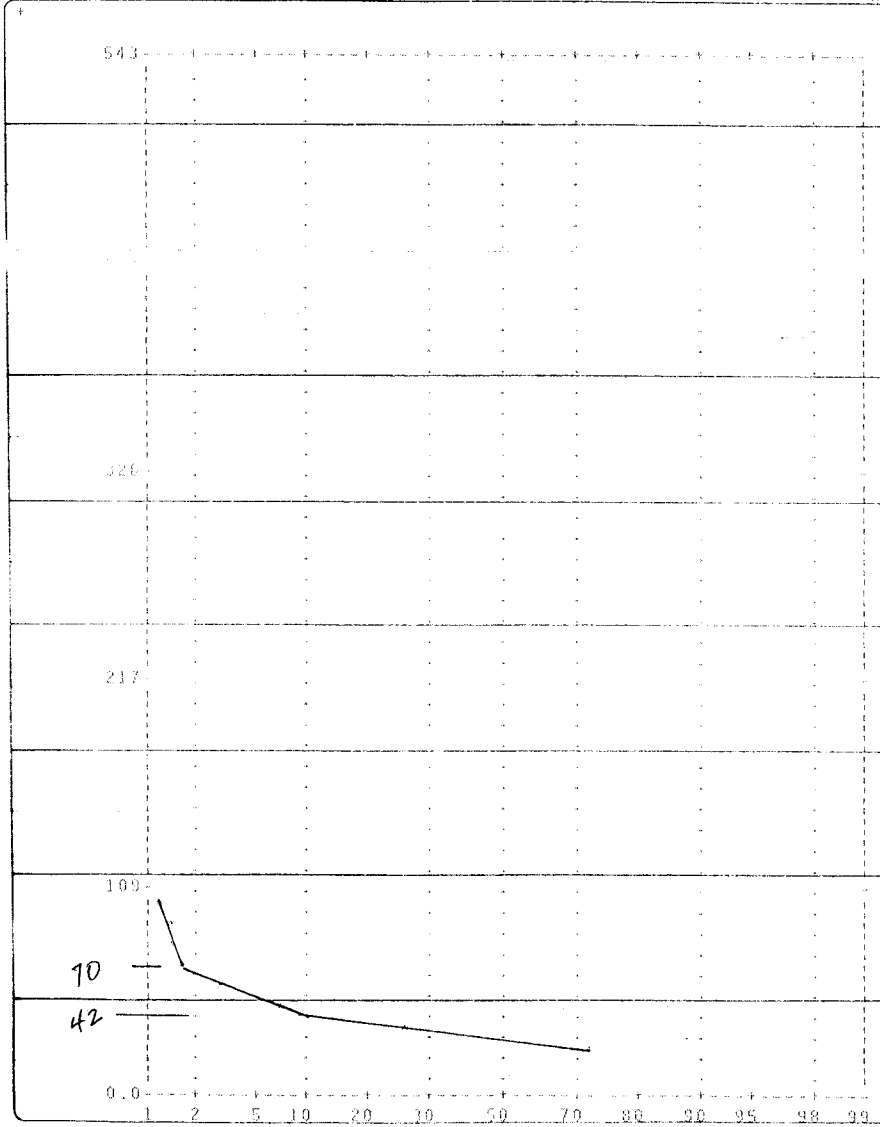
CLASSIFICATION TABLE

Max Val	Mval	Freq	Cum Freq
75.000	0	.000	.000
73.500	0	.000	.000
72.000	0	.000	.000
70.500	0	.000	.000
69.000	1	.001	.001
67.500	2	.001	.002
66.000	0	.000	.002
64.500	0	.000	.002
63.000	2	.001	.003
61.500	2	.001	.004
60.000	0	.000	.004
58.500	0	.000	.004
57.000	2	.001	.005
55.500	0	.000	.005
54.000	5	.003	.008
52.500	1	.001	.009
51.000	4	.002	.011
49.500	4	.002	.013
48.000	3	.002	.015
46.500	5	.003	.018
45.000	4	.002	.020
43.500	4	.002	.023
42.000	4	.002	.025
40.500	7	.004	.029
39.000	11	.006	.035
37.500	9	.005	.041
36.000	18	.010	.051
34.500	7	.004	.055
33.000	26	.015	.070
31.500	13	.008	.078
30.000	47	.027	.105
28.500	23	.013	.118
27.000	76	.044	.163
25.500	33	.019	.182
24.000	97	.056	.238
22.500	56	.033	.270
21.000	127	.074	.344
19.500	71	.041	.385
18.000	147	.085	.471
16.500	83	.048	.519
15.000	137	.080	.598
13.500	64	.037	.636
12.000	128	.074	.710
10.500	45	.026	.736
9.0000	98	.057	.793
7.5000	32	.019	.811
6.0000	105	.061	.872
4.5000	71	.041	.914
3.0000	77	.045	.958
1.5000	72	.042	1.000
.00000	0	.000	1.000

PROPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:03 AT 12:40:20

file: soil.asy Field name: P8 LOG =0 REPVAL = .00100

MIN = .00000 MAX = 543.00 MEAN = 19.150 STD DEV = 27.657
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



CLASSIFICATION TABLE

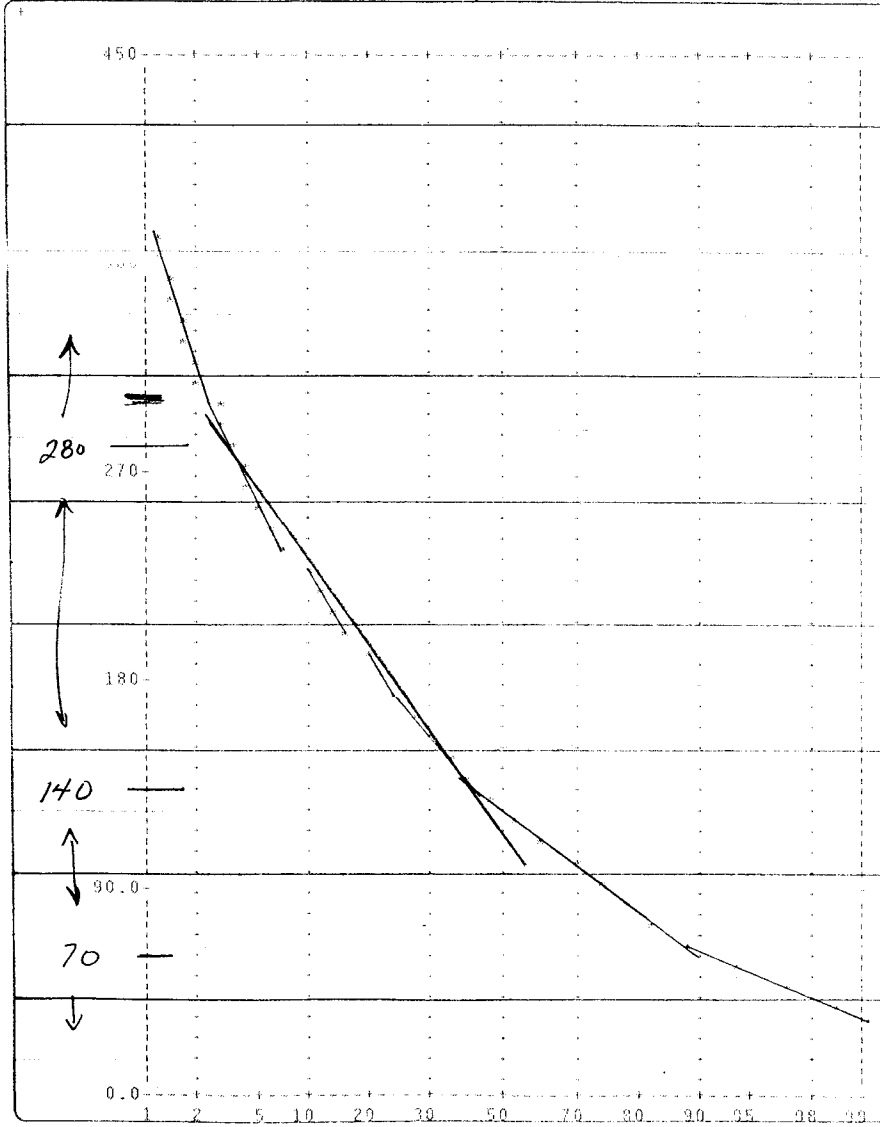
Max Val	Nval	Freq	Cum Freq
543.00	1	.001	.001
532.14	0	.000	.001
521.28	0	.000	.001
510.42	0	.000	.001
499.56	0	.000	.001
488.70	0	.000	.001
477.84	0	.000	.001
466.98	0	.000	.001
456.12	0	.000	.001
445.26	1	.001	.001
434.40	0	.000	.001
423.54	0	.000	.001
412.68	1	.001	.002
401.82	0	.000	.002
390.96	0	.000	.002
380.10	0	.000	.002
369.24	0	.000	.002
358.38	0	.000	.002
347.52	0	.000	.002
336.66	0	.000	.002
325.80	1	.001	.002
314.94	0	.000	.002
304.08	0	.000	.002
293.22	0	.000	.002
282.36	1	.001	.003
271.50	1	.001	.003
260.64	0	.000	.003
249.78	0	.000	.003
238.92	2	.001	.005
228.06	0	.000	.005
217.20	1	.001	.005
206.34	2	.001	.006
195.48	0	.000	.006
184.62	0	.000	.006
173.76	0	.000	.006
162.90	1	.001	.007
152.04	1	.001	.007
141.18	1	.001	.008
130.32	0	.000	.008
119.46	0	.000	.008
108.60	4	.002	.010
97.740	6	.003	.014
86.880	3	.002	.015
76.020	3	.002	.017
65.160	6	.003	.021
54.300	26	.015	.035
43.440	77	.044	.079
32.580	354	.202	.282
21.720	757	.433	.714
10.860	500	.286	1.000
.00000	0	.000	1.000

10
42

PROPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:03 AT 12:40:20

file: soil.asy Field name: ZN LOG =0 REPVAL = .00100

MIN = .00000 MAX = 1036.0 MEAN = 133.10 STD DEV = 84.492
NUMBER OF DATA PLOTTED = 1737 (0 NULLS 0 < YMIN 13 > YMAX)



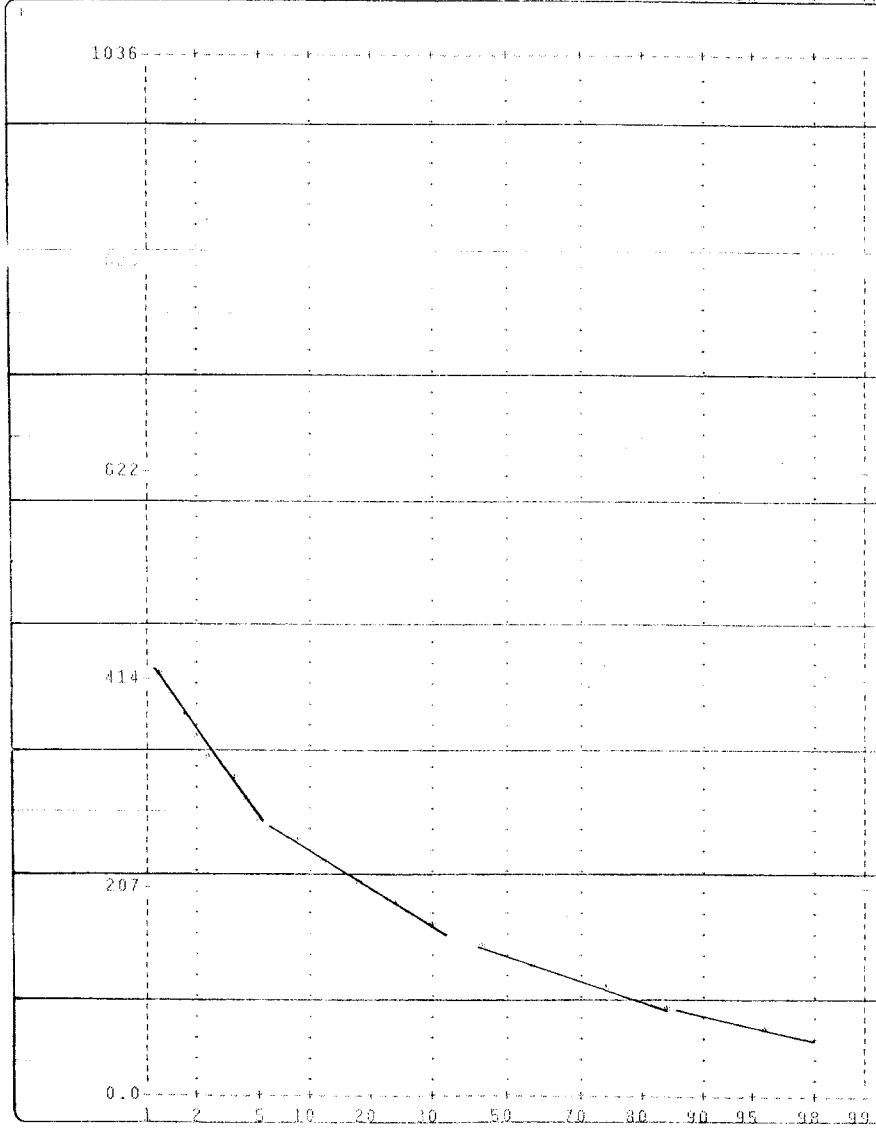
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
450.00	0	.000	.000
441.00	3	.002	.002
432.00	2	.001	.003
423.00	2	.001	.004
414.00	2	.001	.005
405.00	2	.001	.006
396.00	3	.002	.008
387.00	2	.001	.009
378.00	3	.002	.011
369.00	3	.002	.013
360.00	2	.001	.014
351.00	3	.002	.016
342.00	3	.002	.017
333.00	6	.003	.021
324.00	3	.002	.022
315.00	4	.002	.025
306.00	1	.001	.025
297.00	14	.008	.033
288.00	6	.003	.037
279.00	10	.006	.043
270.00	7	.004	.047
261.00	11	.006	.053
252.00	12	.007	.060
243.00	20	.012	.071
234.00	20	.012	.083
225.00	34	.020	.102
216.00	24	.014	.116
207.00	46	.026	.143
198.00	35	.020	.163
189.00	64	.037	.200
180.00	47	.027	.227
171.00	55	.032	.258
162.00	57	.033	.291
153.00	84	.048	.340
144.00	76	.044	.383
135.00	89	.051	.435
126.00	101	.058	.493
117.00	92	.053	.546
108.00	119	.069	.614
99.000	122	.070	.685
90.000	113	.065	.750
81.000	96	.055	.805
72.000	79	.045	.850
63.000	66	.038	.888
54.000	90	.052	.940
45.000	47	.027	.967
36.000	31	.018	.985
27.000	15	.009	.994
18.000	10	.006	.999
9.0000	1	.001	1.000
.00000	0	.000	1.000

PRBPLT: V272 KUNG SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:03 AT 12:40:20

file: soil.asy Field name: ZN LOG =0 REPVAL = .00100

MIN = .00000 MAX = 1036.0 MEAN = 133.10 STD DEV = 84.492
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



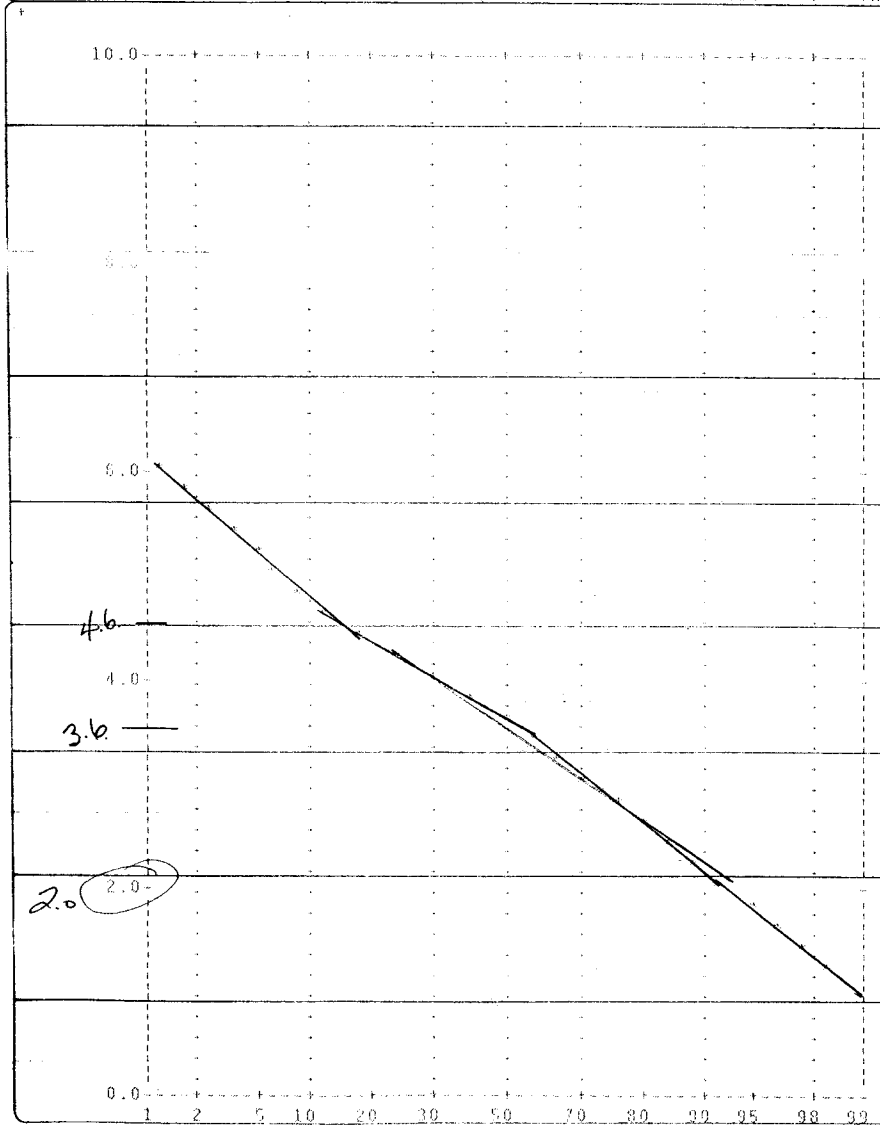
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
1036.0	1	.001	.001
1015.3	1	.001	.001
994.56	0	.000	.001
973.84	0	.000	.001
953.12	0	.000	.001
932.40	0	.000	.001
911.68	1	.001	.002
890.96	0	.000	.002
870.24	0	.000	.002
849.52	1	.001	.002
828.80	0	.000	.002
808.08	0	.000	.002
787.36	0	.000	.002
766.64	0	.000	.002
745.92	0	.000	.002
725.20	1	.001	.003
704.48	0	.000	.003
683.76	0	.000	.003
663.04	0	.000	.003
642.32	0	.000	.003
621.60	1	.001	.003
600.88	0	.000	.003
580.16	0	.000	.003
559.44	1	.001	.004
538.72	0	.000	.004
518.00	1	.001	.005
497.28	3	.002	.006
476.56	2	.001	.007
455.84	1	.001	.008
435.12	6	.003	.011
414.40	5	.003	.014
393.68	6	.003	.018
372.96	6	.003	.021
352.24	8	.005	.026
331.52	8	.005	.030
310.80	17	.010	.040
290.08	20	.011	.051
269.36	22	.013	.064
248.64	42	.024	.088
227.92	61	.035	.123
207.20	94	.054	.177
186.48	135	.077	.254
165.76	151	.086	.340
145.04	194	.111	.451
124.32	229	.131	.582
103.60	287	.164	.746
82.880	191	.109	.855
62.160	177	.101	.956
41.440	63	.036	.992
20.720	14	.008	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:03 AT 12:40:20

file: soil.asy Field name: FE LOG =0 REPVAL = .00100

MIN = .00000 MAX = 33.990 MEAN = 3.3886 STD DEV = 1.3478
NUMBER OF DATA PLOTTED = 1745 (0 NULLS 0 < YMIN 5 > YMAX)



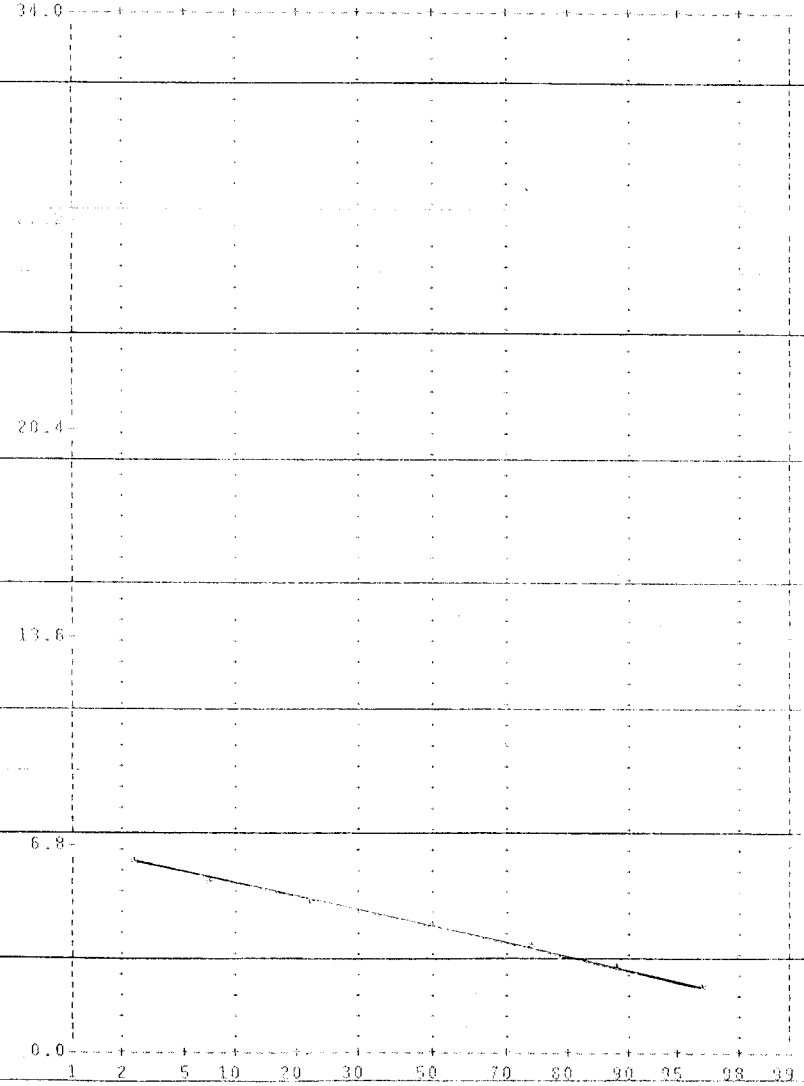
CLASSIFICATION TABLE

Max Val	Mval	Freq	Cum Freq
10.000	0	.000	.000
9.8000	0	.000	.000
9.6000	0	.000	.000
9.4000	0	.000	.000
9.2000	1	.001	.001
9.0000	1	.001	.001
8.8000	0	.000	.001
8.6000	0	.000	.001
8.4000	0	.000	.001
8.2000	0	.000	.001
8.0000	0	.000	.001
7.8000	0	.000	.001
7.6000	2	.001	.002
7.4000	1	.001	.003
7.2000	1	.001	.003
7.0000	2	.001	.005
6.8000	1	.001	.005
6.6000	2	.001	.006
6.4000	3	.002	.008
6.2000	5	.003	.011
6.0000	7	.004	.015
5.8000	7	.004	.019
5.6000	16	.009	.028
5.4000	27	.015	.044
5.2000	26	.015	.058
5.0000	25	.014	.073
4.8000	33	.019	.092
4.6000	56	.032	.124
4.4000	97	.056	.179
4.2000	109	.062	.242
4.0000	158	.091	.332
3.8000	149	.085	.418
3.6000	151	.087	.504
3.4000	125	.072	.576
3.2000	123	.070	.646
3.0000	104	.060	.706
2.8000	118	.068	.774
2.6000	87	.050	.823
2.4000	71	.041	.864
2.2000	57	.033	.897
2.0000	44	.025	.922
1.8000	41	.023	.946
1.6000	30	.017	.963
1.4000	18	.010	.973
1.2000	15	.009	.982
1.0000	13	.007	.989
.80000	11	.006	.995
.60000	5	.003	.998
.40000	2	.001	.999
.20000	1	.001	1.000
.00000	0	.000	1.000

PROPLT: V272 KOMA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:03 AT 12:40:20

file: soil.asy Field name: FE LOG =0 REPVAL = .00100

MIN = .00000 MAX = 33.990 MEAN = 3.3886 STD DEV = 1.3478
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
33.990	1	.001	.001
33.310	0	.000	.001
32.630	0	.000	.001
31.951	0	.000	.001
31.271	0	.000	.001
30.591	0	.000	.001
29.911	0	.000	.001
29.231	0	.000	.001
28.552	0	.000	.001
27.872	0	.000	.001
27.192	0	.000	.001
26.512	0	.000	.001
25.832	0	.000	.001
25.153	0	.000	.001
24.473	0	.000	.001
23.793	0	.000	.001
23.113	0	.000	.001
22.433	0	.000	.001
21.754	0	.000	.001
21.074	0	.000	.001
20.394	0	.000	.001
19.714	0	.000	.001
19.034	0	.000	.001
18.355	0	.000	.001
17.675	0	.000	.001
16.995	0	.000	.001
16.315	0	.000	.001
15.635	0	.000	.001
14.956	0	.000	.001
14.276	0	.000	.001
13.596	0	.000	.001
12.916	1	.001	.001
12.236	0	.000	.001
11.557	1	.001	.002
10.877	2	.001	.003
10.197	0	.000	.003
9.5172	2	.001	.004
8.8374	0	.000	.004
8.1576	1	.001	.005
7.4778	5	.003	.007
6.7980	8	.005	.012
6.1182	31	.018	.030
5.4384	84	.048	.078
4.7586	246	.141	.218
4.0788	510	.291	.510
3.3990	404	.231	.741
2.7192	269	.154	.894
2.0394	122	.070	.964
1.3596	51	.029	.993
.67980	12	.007	1.000
.00000	0	.000	1.000

PLACER DOME INC.

Placer Data Analysis System - STATS

run on 91:10:04 at 8:51:12

V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS

Summary of data from file : soil.asy

This data file contains an internal header: (2 records)
Data grouped into 35 fields
with format: (A4,4F8.1,2F10.1,2F8.2,5F7.1,2F8.2,3F7.1,F8.2,5F7.1,F8.2,2F7.1,F9.2,F7.1,F8.
2,3F7.1,F9.2,F7.1,

Character ID fields:
PROJ

Coordinate fields:
OLOX OLOY GRDY GRDX UTMX UTMY

Other data fields:

AG	AL	AS	AU	BA	BE	BI	CA	CD	CO	CR	CU
FE	K	LA	MG	MN	MO	NA	NI	P	PB	SB	SR
TI	V	W	ZN								

Missing data indicated by NULL value 99999.0

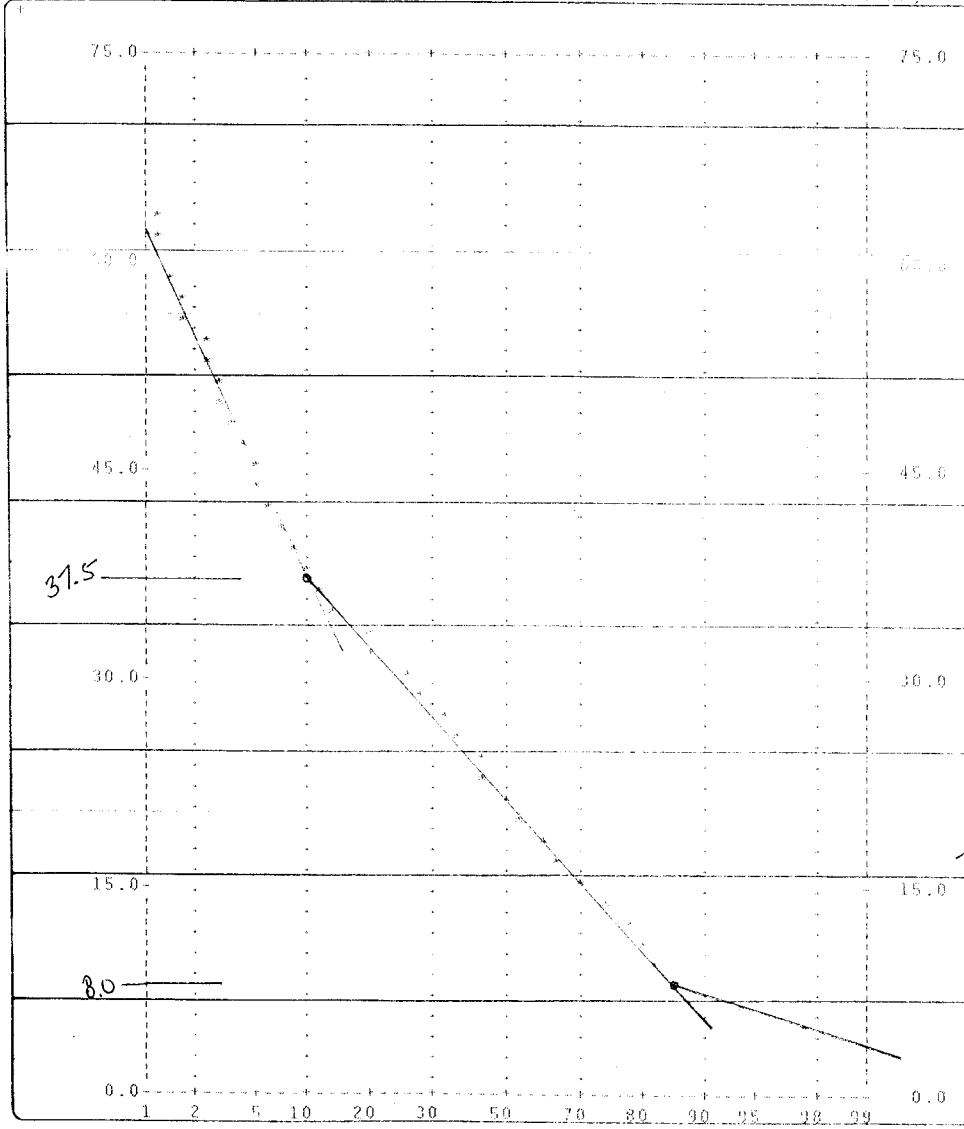
BASIC STATISTICS OF SELECTED DATA FIELDS:

NAME	NOBIR	NULLS	MINIMUM	MAXIMUM	MEAN	STD. DEV.	GEOM. MEAN	DISPERSION	
AL	1750	0	.000000	21.5800	2.30627	1.01518	2.11716	1.34069	3.34334
CA	1750	0	.000000	3.25000	.248771	.304821	.160912	.664371E-01	.389732
MG	1750	0	.000000	22.0300	1.31056	.879332	1.08951	.553720	2.14373
NA	1750	0	.000000	.190000	.175743E-01	.148187E-01	.134334E-01	.644633E-02	.279937E-01
P	1750	0	.000000	.360000	.690629E-01	.386798E-01	.603899E-01	.358342E-01	.101772
SR	1750	0	.000000	112.000	22.1869	14.2088	17.6521	8.24808	37.7779

PROPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 8:51:12

file: soil.asy Field name: SR LOG =0 REFVAL = .00100

MIN = .00000 MAX = 112.00 MEAN = 22.187 STD DEV = 14.209
NUMBER OF DATA PLOTTED = 1735 (0 NULLS 0 < YMIN 15 > YMAX)



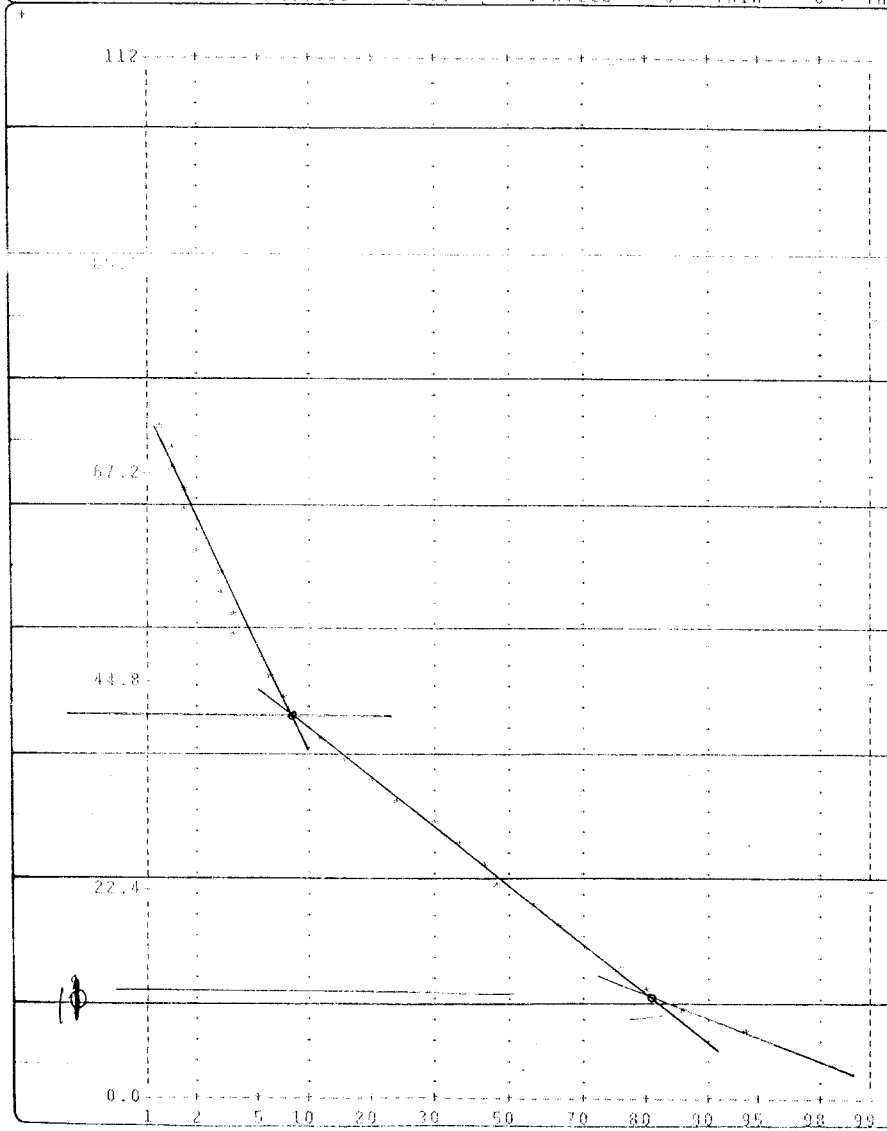
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
75.000	2	.001	.001
73.500	3	.002	.003
72.000	3	.002	.005
70.500	2	.001	.006
69.000	4	.002	.008
67.500	0	.000	.008
66.000	3	.002	.010
64.500	1	.001	.010
63.000	5	.003	.013
61.500	1	.001	.014
60.000	1	.001	.014
58.500	3	.002	.016
57.000	7	.004	.020
55.500	4	.002	.022
54.000	9	.005	.028
52.500	1	.001	.028
51.000	9	.005	.033
49.500	3	.002	.035
48.000	12	.007	.042
46.500	9	.005	.047
45.000	16	.009	.056
43.500	8	.005	.061
42.000	19	.011	.072
40.500	19	.011	.083
39.000	20	.012	.095
37.500	20	.012	.106
36.000	43	.025	.131
34.500	29	.017	.148
33.000	73	.042	.190
31.500	37	.021	.211
30.000	98	.056	.267
28.500	52	.030	.297
27.000	112	.065	.362
25.500	43	.025	.387
24.000	102	.059	.446
22.500	36	.021	.466
21.000	86	.050	.516
19.500	45	.026	.542
18.000	109	.063	.605
16.500	68	.039	.644
15.000	114	.066	.710
13.500	62	.036	.745
12.000	81	.047	.792
10.500	33	.019	.811
9.0000	67	.039	.850
7.5000	45	.026	.876
6.0000	110	.063	.939
4.5000	64	.037	.976
3.0000	39	.022	.998
1.5000	3	.002	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 8:51:12

file: soil.asy Field name: SR LOG =0 REPVAL = .00100

MIN = .00000 MAX = 112.00 MEAN = 22.107 STD DEV = 14.209
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



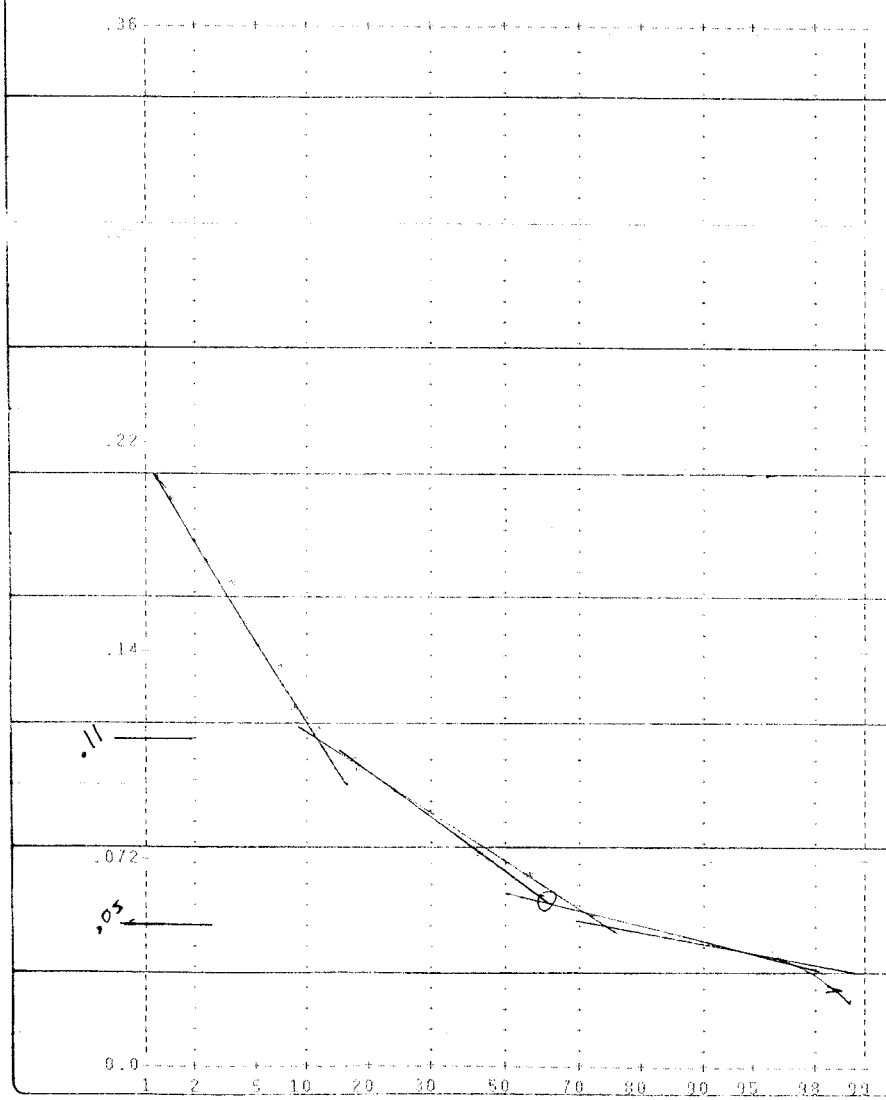
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
112.00	1	.001	.001
109.76	0	.000	.001
107.52	0	.000	.001
105.28	0	.000	.001
103.04	0	.000	.001
100.80	1	.001	.001
98.560	0	.000	.001
96.320	0	.000	.001
94.080	2	.001	.002
91.840	1	.001	.003
89.600	1	.001	.003
87.360	2	.001	.005
85.120	1	.001	.005
82.880	0	.000	.005
80.640	2	.001	.006
78.400	3	.002	.008
76.160	3	.002	.010
73.920	4	.002	.012
71.680	4	.002	.014
69.440	4	.002	.017
67.200	3	.002	.018
64.960	3	.002	.020
62.720	4	.002	.022
60.480	1	.001	.023
58.240	5	.003	.026
56.000	10	.009	.034
53.760	4	.002	.037
51.520	9	.005	.042
49.280	7	.004	.046
47.040	27	.015	.061
44.800	14	.008	.069
42.560	19	.011	.080
40.320	28	.016	.096
38.080	57	.033	.129
35.840	46	.026	.155
33.600	73	.042	.197
31.360	86	.049	.246
29.120	155	.089	.335
26.880	100	.057	.392
24.640	102	.058	.450
22.400	83	.047	.498
20.160	138	.079	.577
17.920	123	.070	.647
15.680	114	.065	.712
13.440	108	.062	.774
11.200	101	.058	.831
8.9600	79	.045	.877
6.7200	110	.063	.939
4.4800	97	.055	.995
2.2400	9	.005	1.000
.00000	0	.000	1.000

PRBPLT: V272 KOMA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 8:51:12

File: soil.asy Field name: P LOG =0 REPVAL = .00100

MIN = .00000 MAX = .35900 MEAN = .69063E-01 STD DEV = .38680E-01
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



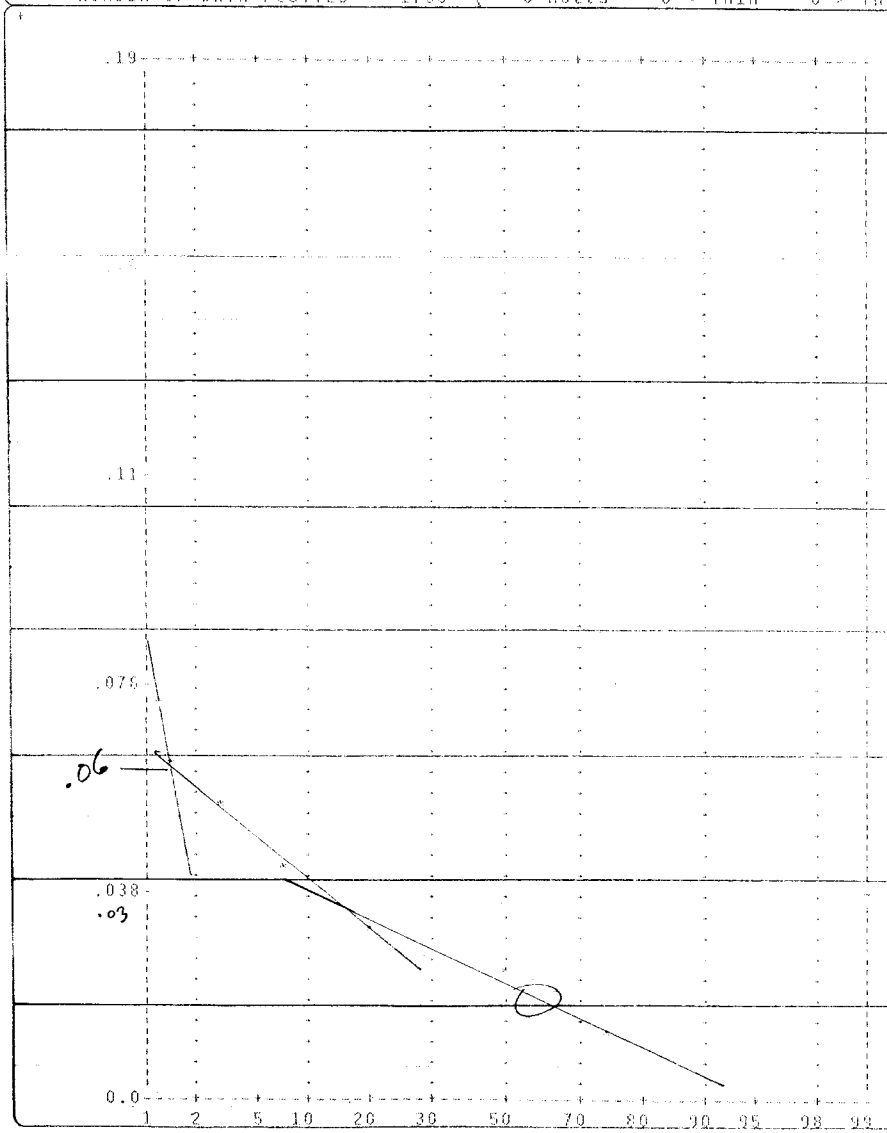
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
.36000	1	.001	.001
.35280	1	.001	.001
.34560	1	.001	.002
.33840	0	.000	.002
.33120	0	.000	.002
.32400	0	.000	.002
.31680	0	.000	.002
.30960	0	.000	.002
.30240	0	.000	.002
.29520	0	.000	.002
.28800	5	.000	.002
.28080	2	.001	.003
.27360	0	.000	.003
.26640	0	.000	.003
.25920	0	.000	.003
.25200	0	.000	.003
.24480	1	.001	.003
.23760	0	.000	.003
.23040	4	.002	.006
.22320	3	.002	.007
.21600	3	.002	.009
.20880	0	.000	.009
.20160	6	.003	.013
.19440	8	.005	.017
.18720	0	.000	.017
.18000	11	.006	.023
.17280	16	.009	.033
.16560	14	.008	.041
.15840	6	.000	.041
.15120	15	.009	.049
.14400	19	.011	.060
.13680	27	.015	.075
.12960	0	.000	.075
.12240	42	.024	.099
.11520	55	.031	.131
.10800	0	.000	.131
.10080	75	.043	.174
.93600E-01	121	.069	.243
.86400E-01	160	.091	.334
.79200E-01	0	.000	.334
.72000E-01	195	.111	.446
.64800E-01	241	.138	.583
.57600E-01	0	.000	.583
.50400E-01	242	.138	.722
.43200E-01	235	.134	.856
.36000E-01	185	.106	.962
.28800E-01	0	.000	.962
.21600E-01	62	.035	.997
.14400E-01	4	.002	.999
.72000E-02	1	.001	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 8:51:12

File: soil.asy Field name: NA LOG =0 REPVAL = .00100

MIN = .00000 MAX = .19000 MEAN = .17574E-01 STD DEV = .14819E-01
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



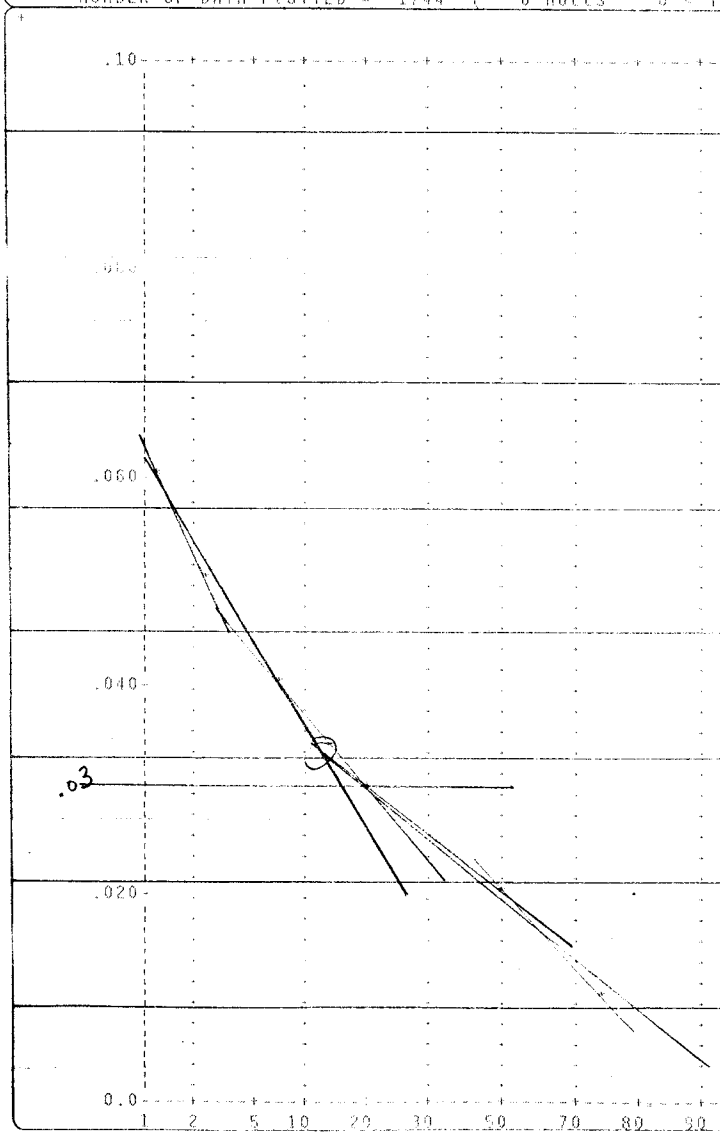
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
.19000	1	.001	.001
.18620	0	.000	.001
.18240	1	.001	.001
.17860	0	.000	.001
.17480	0	.000	.001
.17100	1	.001	.002
.16720	0	.000	.002
.16340	0	.000	.002
.15960	0	.000	.002
.15580	0	.000	.002
.15200	0	.000	.002
.14820	0	.000	.002
.14440	0	.000	.002
.14060	1	.001	.002
.13680	0	.000	.002
.13300	0	.000	.002
.12920	0	.000	.002
.12540	0	.000	.002
.12160	1	.001	.003
.11780	0	.000	.003
.11400	0	.000	.003
.11020	1	.001	.003
.10640	0	.000	.003
.10260	1	.001	.004
.98800E-01	0	.000	.004
.95000E-01	0	.000	.004
.91200E-01	1	.001	.005
.87400E-01	0	.000	.005
.83600E-01	2	.001	.006
.79800E-01	0	.000	.006
.76000E-01	0	.000	.006
.72200E-01	12	.007	.013
.68400E-01	0	.000	.013
.64600E-01	0	.000	.013
.60800E-01	10	.006	.018
.57000E-01	0	.000	.018
.53200E-01	28	.016	.034
.49400E-01	0	.000	.034
.45600E-01	0	.000	.034
.41800E-01	78	.045	.079
.38000E-01	0	.000	.079
.34200E-01	0	.000	.079
.30400E-01	219	.125	.204
.26600E-01	0	.000	.204
.22800E-01	524	.299	.503
.19000E-01	0	.000	.503
.15200E-01	0	.000	.503
.11400E-01	429	.245	.749
.76000E-02	439	.251	.999
.38000E-02	1	.001	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GROX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 8:51:12

file: soil.asy Field name: NA LOG =0 REPVAL = .00100

MIN = .00000 MAX = .19000 MEAN = .17574E-01 STD DEV = .14819E-01
NUMBER OF DATA PLOTTED = 1744 (0 NULLS 0 < YMIN 6 > YMAX)



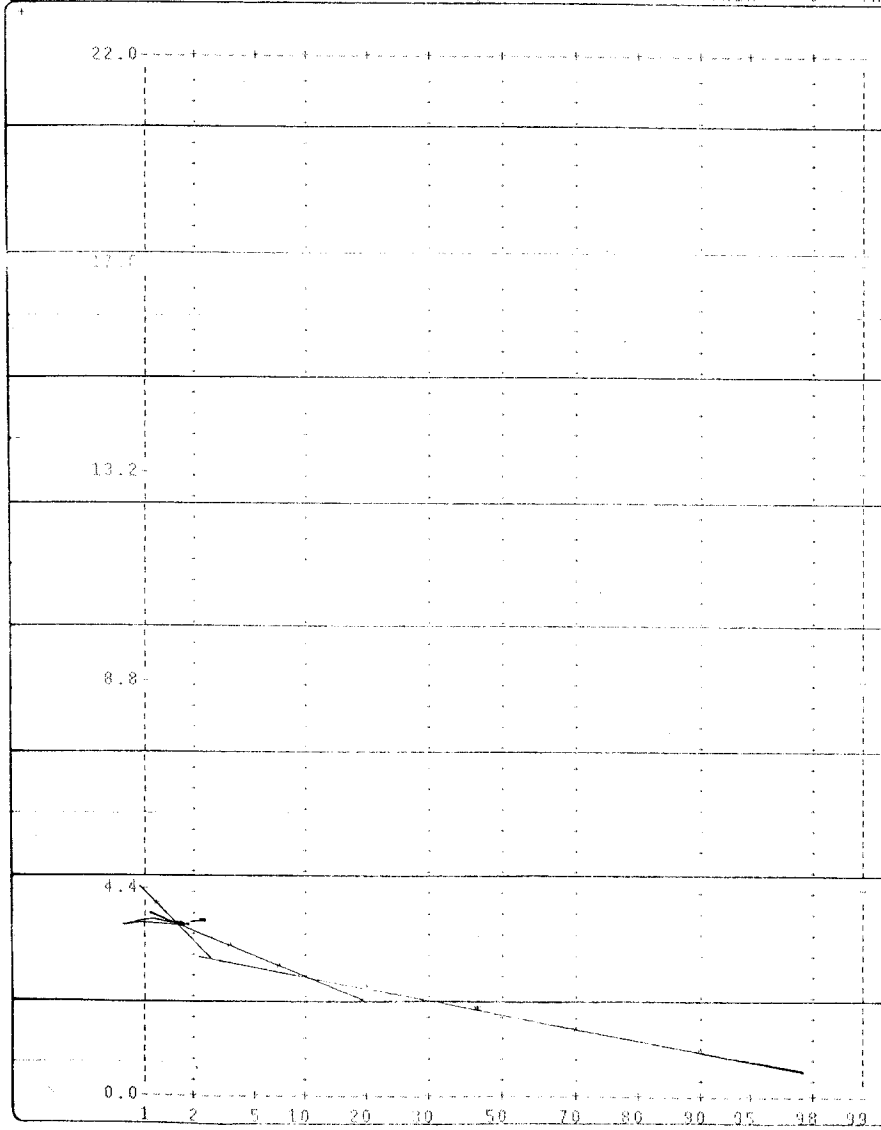
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
.10000	1	.001	.001
.98000E-01	0	.000	.001
.96000E-01	0	.000	.001
.94000E-01	0	.000	.001
.92000E-01	0	.000	.001
.90000E-01	1	.001	.001
.88000E-01	0	.000	.001
.86000E-01	0	.000	.001
.84000E-01	0	.000	.001
.82000E-01	0	.000	.001
.80000E-01	1	.001	.002
.78000E-01	0	.000	.002
.76000E-01	0	.000	.002
.74000E-01	0	.000	.002
.72000E-01	0	.000	.002
.70000E-01	12	.007	.009
.68000E-01	0	.000	.009
.66000E-01	0	.000	.009
.64000E-01	0	.000	.009
.62000E-01	0	.000	.009
.60000E-01	10	.006	.015
.58000E-01	0	.000	.015
.56000E-01	0	.000	.015
.54000E-01	0	.000	.015
.52000E-01	0	.000	.015
.50000E-01	28	.016	.031
.48000E-01	0	.000	.031
.46000E-01	0	.000	.031
.44000E-01	0	.000	.031
.42000E-01	0	.000	.031
.40000E-01	78	.045	.076
.38000E-01	0	.000	.076
.36000E-01	0	.000	.076
.34000E-01	0	.000	.076
.32000E-01	0	.000	.076
.30000E-01	219	.126	.201
.28000E-01	0	.000	.201
.26000E-01	0	.000	.201
.24000E-01	0	.000	.201
.22000E-01	0	.000	.201
.20000E-01	524	.300	.502
.18000E-01	0	.000	.502
.16000E-01	0	.000	.502
.14000E-01	0	.000	.502
.12000E-01	0	.000	.502
.10000E-01	429	.246	.748
.80000E-02	0	.000	.748
.60000E-02	439	.252	.999
.40000E-02	0	.000	.999
.20000E-02	1	.001	1.000
.00000	0	.000	1.000

PROPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 8:51:12

file: soil.asy Field name: M6 IOS =0 REPVAL = .00100

MIN = .00000 MAX = 22.030 MEAN = 1.3106 STD DEV = .87933
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



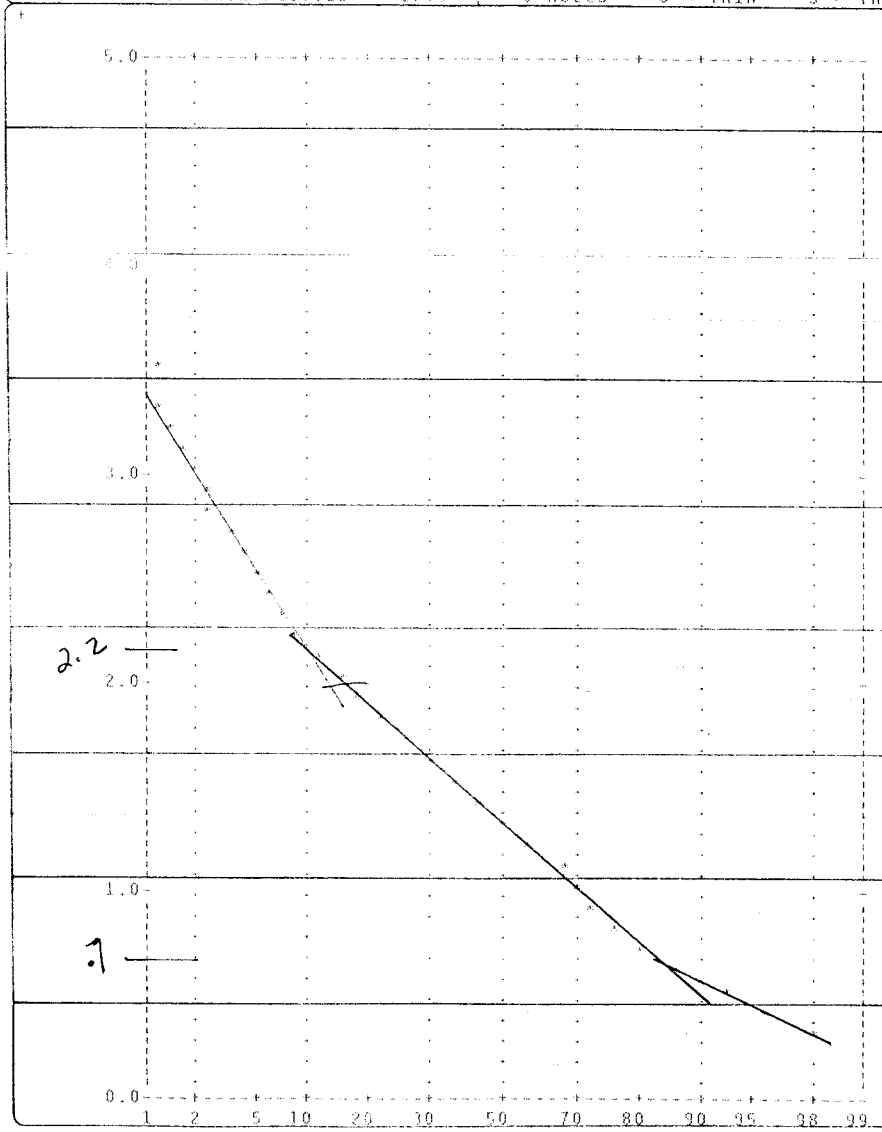
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
22.030	1	.001	.001
21.589	0	.000	.001
21.149	0	.000	.001
20.708	0	.000	.001
20.268	0	.000	.001
19.827	0	.000	.001
19.386	0	.000	.001
18.946	0	.000	.001
18.505	0	.000	.001
18.065	0	.000	.001
17.624	0	.000	.001
17.183	0	.000	.001
16.743	0	.000	.001
16.302	0	.000	.001
15.862	0	.000	.001
15.421	0	.000	.001
14.980	0	.000	.001
14.540	0	.000	.001
14.099	0	.000	.001
13.659	0	.000	.001
13.218	0	.000	.001
12.777	0	.000	.001
12.337	0	.000	.001
11.896	0	.000	.001
11.456	0	.000	.001
11.015	0	.000	.001
10.574	0	.000	.001
10.134	0	.000	.001
9.6932	0	.000	.001
9.2526	0	.000	.001
8.8120	0	.000	.001
8.3714	0	.000	.001
7.9308	0	.000	.001
7.4902	0	.000	.001
7.0496	1	.001	.001
6.6090	1	.001	.002
6.1684	0	.000	.002
5.7278	2	.001	.003
5.2872	2	.001	.004
4.8466	2	.001	.005
4.4060	8	.005	.010
3.9654	9	.005	.015
3.5248	7	.004	.019
3.0842	37	.021	.040
2.6436	70	.040	.080
2.2030	218	.125	.205
1.7624	431	.246	.451
1.3218	437	.250	.701
.88120	370	.211	.912
.44060	154	.088	1.000
.00000	0	.000	1.000

PROPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 8:51:12

file: soil.asy Field name: MG LOG =0 REPVAL = .00100

MIN = .00000 MAX = 22.000 MEAN = 1.3106 STD DEV = .87033
NUMBER OF DATA PLOTTED = 1745 (0 NULLS 0 < YMIN 5 > YMAX)



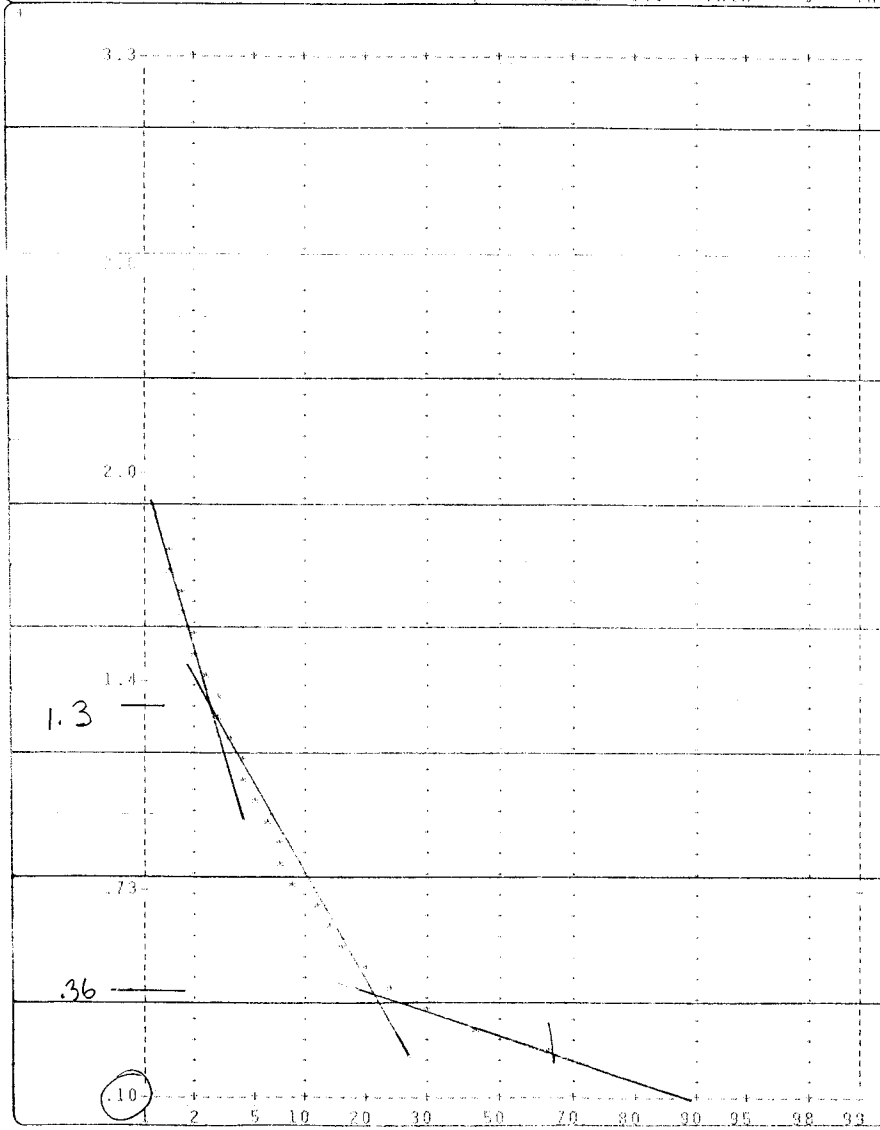
CLASSIFICATION TABLE

Max Val	Mval	Freq	Cum Freq
5.0000	2	.001	.001
4.9000	0	.000	.001
4.8000	0	.000	.001
4.7000	2	.001	.002
4.6000	0	.000	.002
4.5000	0	.000	.002
4.4000	0	.000	.002
4.3000	2	.001	.003
4.2000	1	.001	.004
4.1000	2	.001	.005
4.0000	5	.003	.008
3.9000	3	.002	.010
3.8000	2	.001	.011
3.7000	2	.001	.012
3.6000	0	.000	.012
3.5000	1	.001	.013
3.4000	0	.000	.013
3.3000	3	.002	.014
3.2000	2	.001	.015
3.1000	7	.004	.019
3.0000	7	.004	.023
2.9000	7	.004	.028
2.8000	4	.002	.030
2.7000	22	.013	.042
2.6000	13	.007	.050
2.5000	10	.006	.056
2.4000	17	.010	.065
2.3000	21	.012	.077
2.2000	33	.019	.096
2.1000	36	.021	.117
2.0000	59	.034	.151
1.9000	82	.036	.186
1.8000	78	.045	.231
1.7000	85	.049	.280
1.6000	92	.053	.332
1.5000	103	.059	.391
1.4000	120	.069	.460
1.3000	121	.069	.530
1.2000	112	.064	.594
1.1000	108	.062	.656
1.0000	68	.039	.695
.90000	68	.039	.734
.80000	95	.054	.788
.70000	75	.043	.831
.60000	89	.051	.882
.50000	77	.044	.926
.40000	53	.030	.956
.30000	41	.023	.980
.20000	23	.013	.993
.10000	12	.007	1.000
.00000	0	.000	1.000

PROPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 8:51:12

file: soil.asy Field name: CA LOG =0 REPVAL = .00100

MIN = .00000 MAX = 3.2500 MEAN = .24877 STD DEV = .30482
NUMBER OF DATA PLOTTED = 1250 (0 NULLS 500 < YMIN 0 > YMAX)



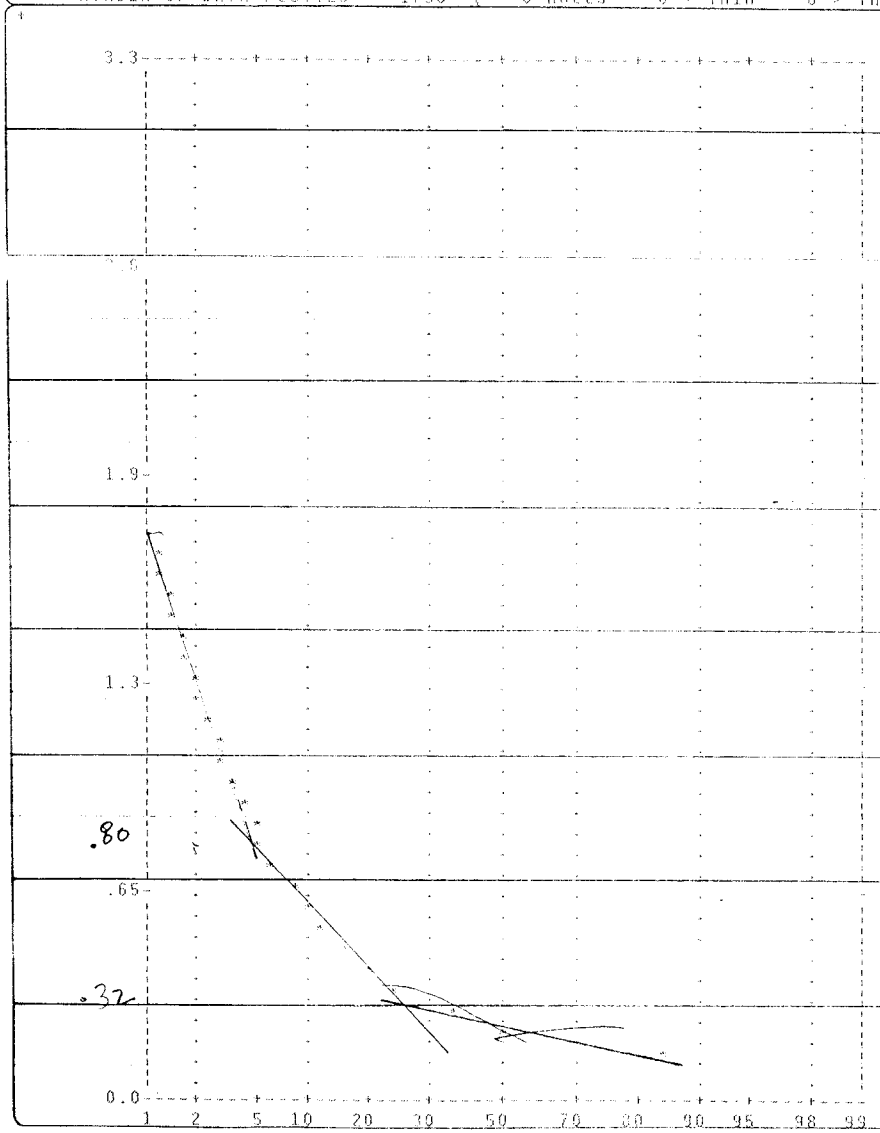
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
3.2500	1	.001	.001
3.1870	0	.000	.001
3.1240	0	.000	.001
3.0610	0	.000	.001
2.9980	0	.000	.001
2.9350	0	.000	.001
2.8720	0	.000	.001
2.8090	0	.000	.001
2.7460	0	.000	.001
2.6830	0	.000	.001
2.6200	0	.000	.001
2.5570	0	.000	.001
2.4940	0	.000	.001
2.4310	0	.000	.001
2.3680	0	.000	.001
2.3050	1	.001	.002
2.2420	0	.000	.002
2.1790	0	.000	.002
2.1160	2	.002	.003
2.0530	0	.000	.003
1.9900	2	.002	.005
1.9270	1	.001	.006
1.8640	2	.002	.007
1.8010	5	.004	.011
1.7380	6	.005	.016
1.6750	2	.002	.018
1.6120	4	.003	.021
1.5490	2	.002	.022
1.4860	3	.002	.025
1.4230	2	.002	.026
1.3600	3	.002	.029
1.2970	8	.006	.035
1.2340	3	.002	.038
1.1710	7	.006	.043
1.1080	5	.004	.047
1.0450	7	.006	.053
.98200	12	.010	.062
.91900	8	.006	.069
.85600	10	.008	.077
.79300	9	.007	.084
.73000	16	.013	.097
.66700	24	.019	.116
.60400	26	.021	.137
.54100	37	.030	.166
.47800	55	.044	.210
.41500	49	.039	.250
.35200	84	.067	.317
.28900	155	.124	.441
.22600	231	.185	.626
.16300	468	.374	1.000
.10000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 8:51:12

file: soil.asy Field name: CR LOG =0 REPVAL = .00100

MIN = .00000 MAX = 3.2500 MEAN = .24877 STD DEV = .30482
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



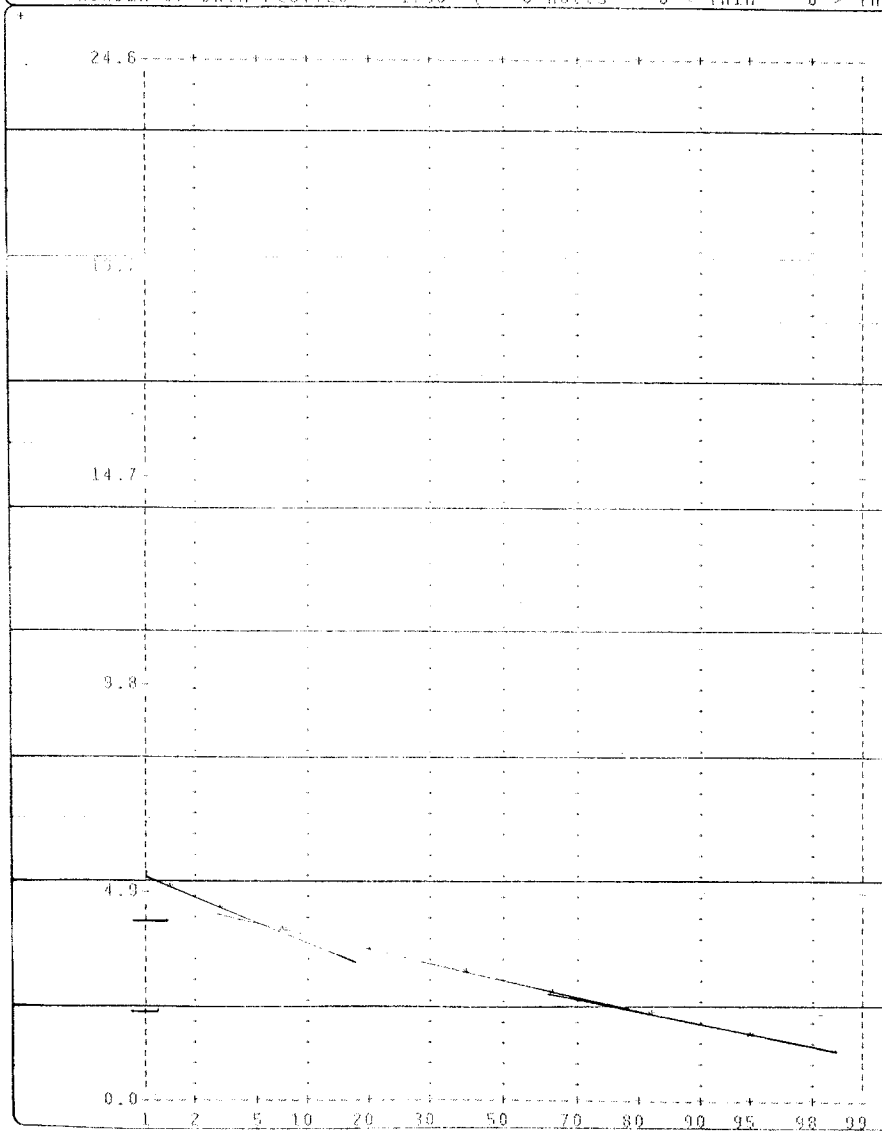
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
3.2500	1	.001	.001
3.1850	0	.000	.001
3.1200	0	.000	.001
3.0550	0	.000	.001
2.9900	0	.000	.001
2.9250	0	.000	.001
2.8600	0	.000	.001
2.7950	0	.000	.001
2.7300	0	.000	.001
2.6650	0	.000	.001
2.6000	0	.000	.001
2.5350	0	.000	.001
2.4700	0	.000	.001
2.4050	0	.000	.001
2.3400	1	.001	.001
2.2750	0	.000	.001
2.2100	0	.000	.001
2.1450	1	.001	.002
2.0800	1	.001	.002
2.0150	2	.001	.003
1.9500	0	.000	.003
1.8850	3	.002	.005
1.8200	3	.002	.007
1.7550	7	.004	.011
1.6900	3	.002	.013
1.6250	1	.001	.013
1.5600	5	.003	.016
1.4950	3	.002	.018
1.4300	2	.001	.019
1.3650	3	.002	.021
1.3000	8	.005	.025
1.2350	3	.002	.027
1.1700	7	.004	.031
1.1050	5	.003	.034
1.0400	9	.005	.039
.97500	11	.006	.045
.91000	8	.005	.050
.84500	9	.005	.055
.78000	13	.007	.062
.71500	17	.010	.072
.65000	29	.017	.089
.58500	30	.017	.106
.52000	36	.021	.126
.45500	63	.036	.162
.39000	66	.038	.200
.32500	92	.053	.253
.26000	214	.122	.375
.19500	269	.154	.529
.13000	579	.331	.859
.65000E-01	246	.141	1.000
.00000	0	.000	1.000

PROBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 8:51:12

file: soil.asy Field name: AL LOG =0 REPVAL = .00100

MIN = .00000 MAX 24.580 MEAN = 2.3062 STD DEV = 1.0152
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



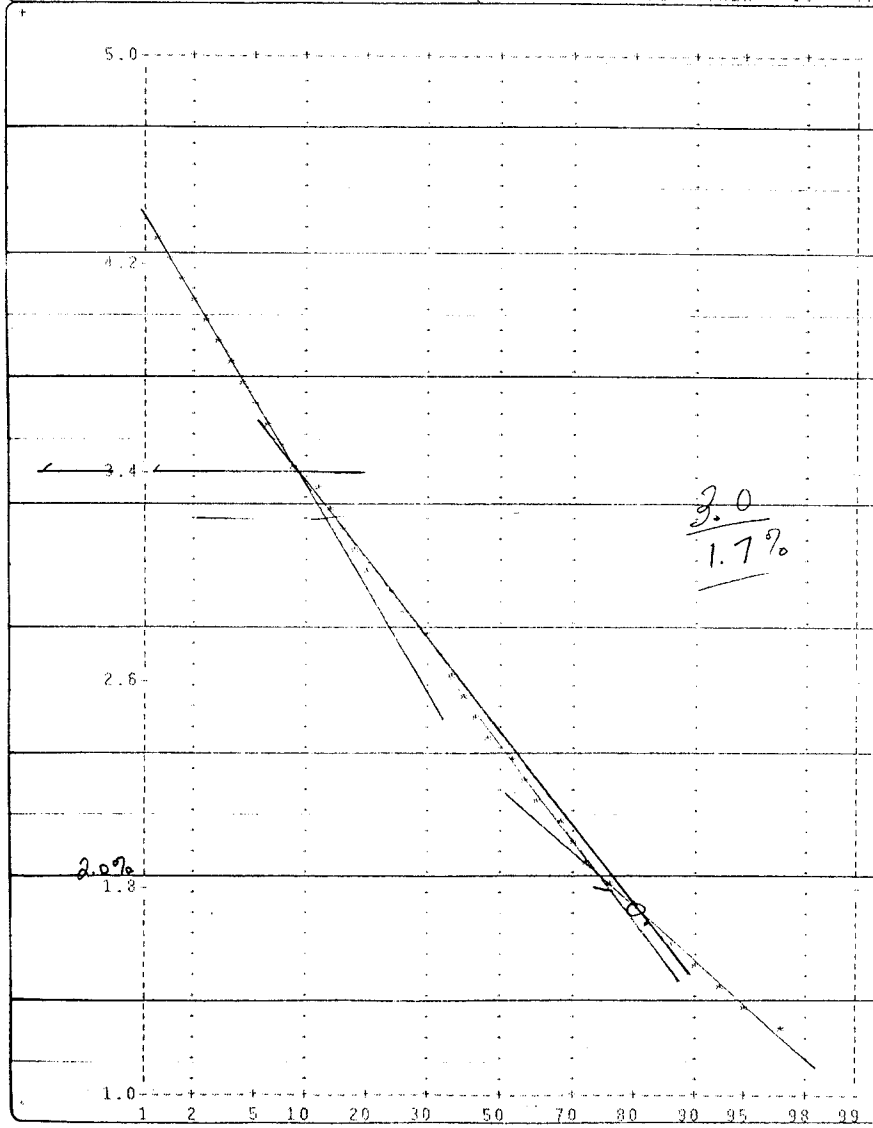
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
24.580	1	.001	.001
24.088	0	.000	.001
23.597	0	.000	.001
23.105	0	.000	.001
22.614	0	.000	.001
22.122	0	.000	.001
21.630	0	.000	.001
21.139	0	.000	.001
20.647	0	.000	.001
20.156	0	.000	.001
19.664	0	.000	.001
19.172	0	.000	.001
18.681	0	.000	.001
18.189	0	.000	.001
17.698	0	.000	.001
17.206	0	.000	.001
16.714	0	.000	.001
16.223	0	.000	.001
15.731	0	.000	.001
15.240	0	.000	.001
14.748	0	.000	.001
14.256	0	.000	.001
13.765	0	.000	.001
13.273	0	.000	.001
12.782	0	.000	.001
12.290	0	.000	.001
11.798	0	.000	.001
11.307	0	.000	.001
10.815	0	.000	.001
10.324	0	.000	.001
9.8320	0	.000	.001
9.3404	0	.000	.001
8.8488	0	.000	.001
8.3572	0	.000	.001
7.8656	0	.000	.001
7.3740	0	.000	.001
6.8824	2	.001	.002
6.3908	2	.001	.003
5.8992	5	.003	.006
5.4076	8	.005	.010
4.9160	11	.006	.017
4.4244	34	.019	.036
3.9328	77	.044	.080
3.4412	208	.119	.199
2.9496	367	.210	.409
2.4580	391	.223	.632
1.9664	356	.203	.835
1.4748	198	.113	.949
.98320	82	.047	.995
.49160	8	.005	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 81 8:51:12

file: soil.asy Field name: A1 LOG =0 REPVAL = .00100

MIN = .00000 MAX = 24.580 MEAN = 2.3062 STD DEV = 1.0152
NUMBER OF DATA PLOTTED = 1640 (0 NULLS 92 < YMIN 18 > YMAX)



CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
5.0000	0	.000	.000
4.9200	1	.001	.001
4.8400	1	.001	.001
4.7600	2	.001	.002
4.5800	3	.002	.004
4.6000	1	.001	.005
4.5200	3	.002	.007
4.4400	3	.002	.009
4.3600	4	.002	.011
4.2800	4	.002	.013
4.2000	5	.003	.016
4.1200	7	.004	.021
4.0400	9	.005	.026
3.9600	8	.005	.031
3.8800	10	.006	.037
3.8000	10	.006	.043
3.7200	10	.006	.049
3.6400	14	.009	.058
3.5600	17	.010	.068
3.4800	24	.015	.083
3.4000	21	.013	.096
3.3200	40	.024	.120
3.2400	28	.017	.137
3.1600	36	.022	.159
3.0800	34	.021	.180
3.0000	48	.029	.209
2.9200	58	.035	.245
2.8400	57	.035	.279
2.7600	67	.041	.320
2.6800	67	.041	.361
2.6000	52	.032	.393
2.5200	59	.036	.429
2.4400	56	.034	.463
2.3600	59	.036	.499
2.2800	62	.038	.537
2.2000	61	.037	.574
2.1200	80	.049	.623
2.0400	67	.041	.663
1.9600	61	.037	.701
1.8800	62	.038	.738
1.8000	55	.034	.772
1.7200	72	.044	.816
1.6400	52	.032	.848
1.5600	46	.028	.876
1.4800	52	.032	.907
1.4000	42	.026	.933
1.3200	23	.014	.947
1.2400	36	.022	.969
1.1600	31	.019	.988
1.0800	20	.012	1.000
1.0000	0	.000	1.000

P L A C E R D O M E I N C .

Placer Data Analysis System - STATS

run on 91:10:04 at 10:39:35

V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS

Summary of data from file : soil.asy

This data file contains an internal header: (8 records)
Data grouped into 35 fields
with format: (A4,4F8.1,2F10.1,2F8.2,5F7.1,2F8.2,2F7.1,F8.2,F9.3,F7.1,F8.2,2F7.1,F9.3,F7.1,F8.
2,3F7.1,F9.2,3F7.1)

Character ID fields:
PROJ

Coordinate fields:
OLDX OLDY GRDY GRDX UTMX UTMY

Other data fields:

AG	AL	AS	AU	BA	BE	BI	CA	CD	CO	CR	CU
FE	K	LA	MG	MN	MO	NA	NI	P	PB	SB	SR
TI	V	W	ZN								

Missing data indicated by NULL value 99999.0

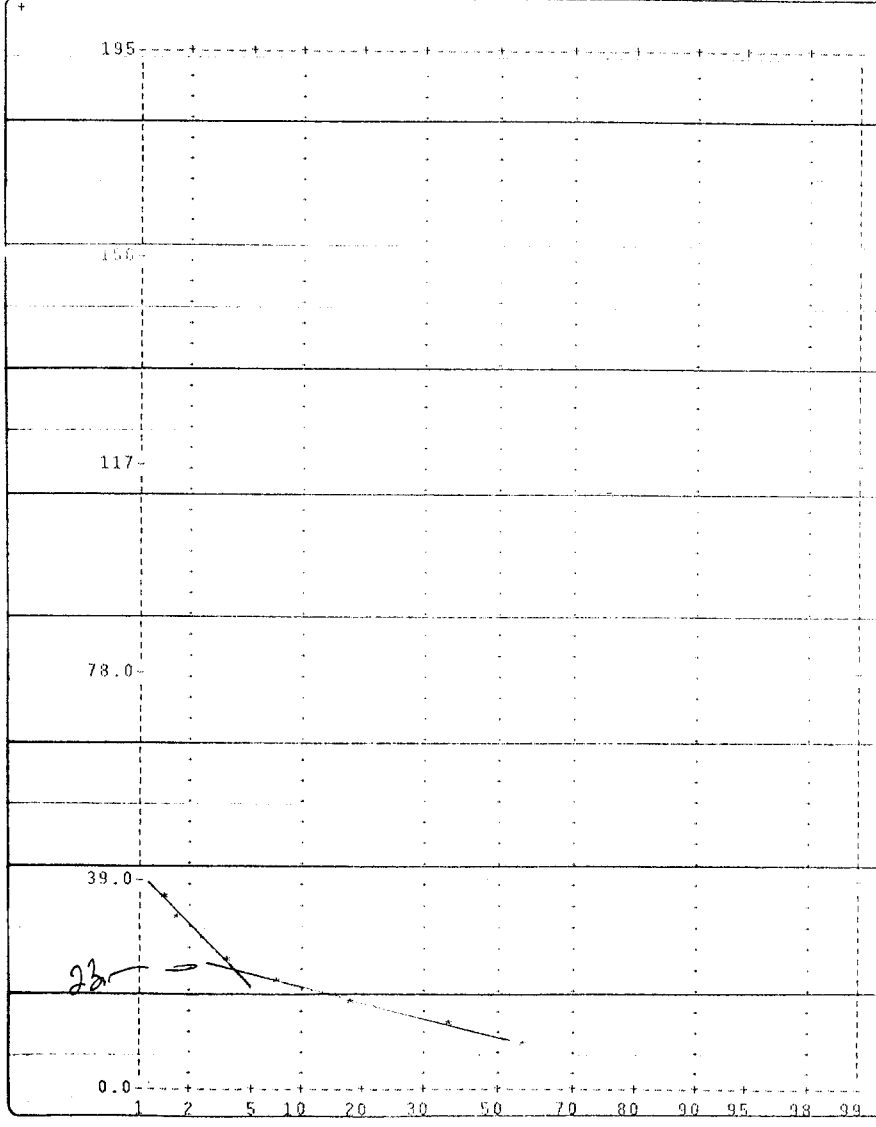
BASIC STATISTICS OF SELECTED DATA FIELDS:

NAME	NDATA	NULLS	MINIMUM	MAXIMUM	MEAN	STD. DEV.	GEOM. MEAN	DISPERSION	
AS	1750	0	.000000	195.000	7.77571	10.2927	5.44976	2.43167	12.2137
BE	1750	0	.000000	5.00000	.544286	.209573	.525786	.406081	.680777
BI	1750	0	.000000	97.0000	1.86000	2.69496	1.46070	.783259	2.72406
CD	1750	0	.000000	8.30000	.626403	.809336	.337971	.105321	1.08454
CO	1750	0	.000000	186.000	12.3414	8.52800	10.6456	6.01762	18.8330
MO	1750	0	.000000	22.0000	2.59057	2.26047	1.76364	.687709	4.52229
NI	1750	0	.000000	963.000	41.3189	43.5600	31.9147	15.5455	65.5203
SB	1750	0	.000000	1954.00	8.09057	69.3227	1.52936	1.80446	6.90307

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:39:35

file: soil.asy Field name: RS LOG =0 REPVAL = .00100

MIN = .00000 MAX = 195.00 MEAN = 7.7757 STD DEV = 10.293
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



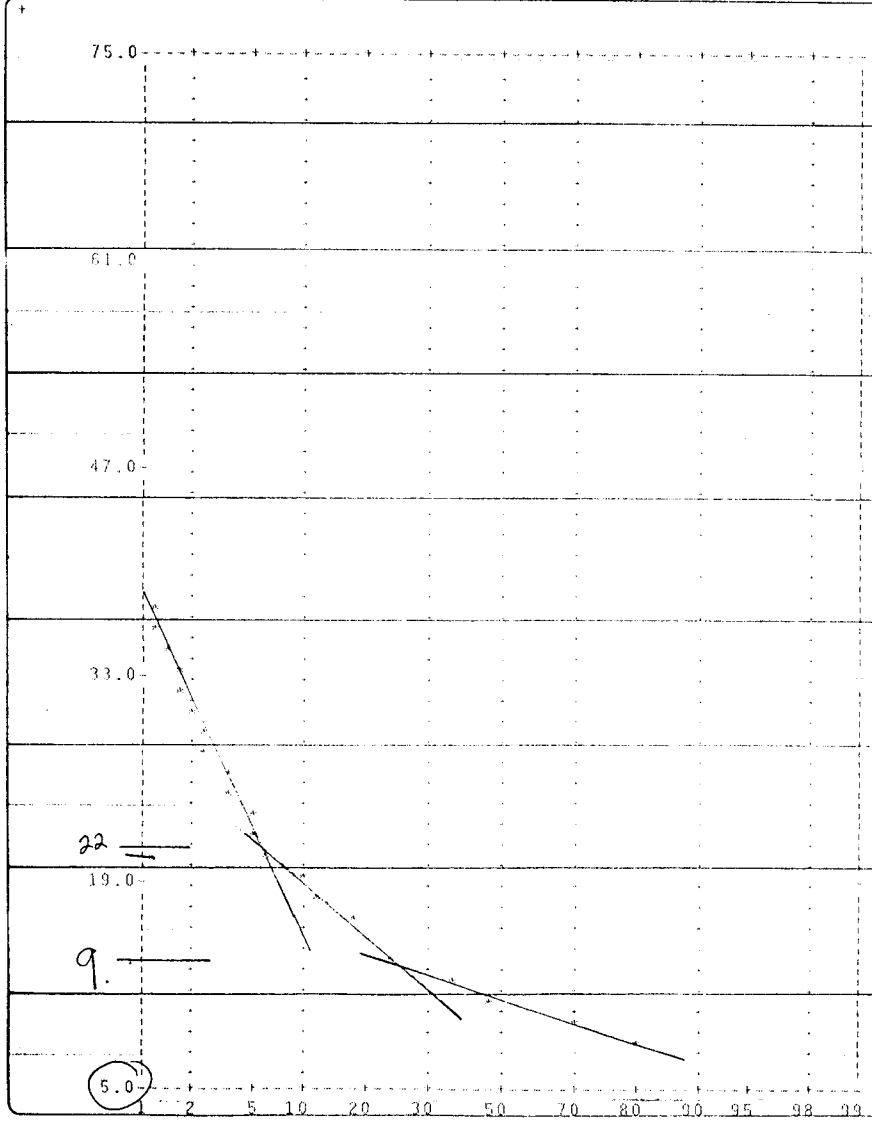
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq	
195.00	1	.001	.001	195
191.10	0	.000	.001	
187.20	0	.000	.001	
183.30	0	.000	.001	
179.40	0	.000	.001	
175.50	0	.000	.001	
171.60	0	.000	.001	
167.70	0	.000	.001	
163.80	1	.001	.001	
159.90	0	.000	.001	
156.00	0	.000	.001	156
152.10	0	.000	.001	
148.20	0	.000	.001	
144.30	0	.000	.001	
140.40	0	.000	.001	
136.50	0	.000	.001	
132.60	1	.001	.002	
128.70	1	.001	.002	
124.80	1	.001	.003	
120.90	0	.000	.003	
117.00	0	.000	.003	117
113.10	0	.000	.003	
109.20	1	.001	.003	
105.30	0	.000	.003	
101.40	0	.000	.003	
97.500	0	.000	.003	
93.600	0	.000	.003	
89.700	0	.000	.003	
85.800	0	.000	.003	
81.900	0	.000	.003	
78.000	1	.001	.004	78.0
74.100	0	.000	.004	
70.200	0	.000	.004	
66.300	0	.000	.004	
62.400	0	.000	.004	
58.500	1	.001	.005	
54.600	2	.001	.006	
50.700	1	.001	.006	
46.800	2	.001	.007	
42.900	0	.000	.007	
39.000	7	.004	.011	39.0
35.100	7	.004	.015	
31.200	10	.006	.021	
27.300	15	.009	.030	
23.400	27	.015	.045	
19.500	70	.040	.085	
15.600	163	.093	.178	
11.700	384	.219	.398	
7.8000	294	.168	.566	
3.9000	760	.434	1.000	
.00000	0	.000	1.000	0.0

PRBPLT: V272 KOMA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:39:35

file: soil.asy field name: AS LOG =0 REPVAL = .00100

MIN = .00000 MAX = 195.00 MEAN = 7.7757 STD DEV = 10.293
NUMBER OF DATA PLOTTED = 983 (0 NULLS 760 < YMIN 7 > YMAX)



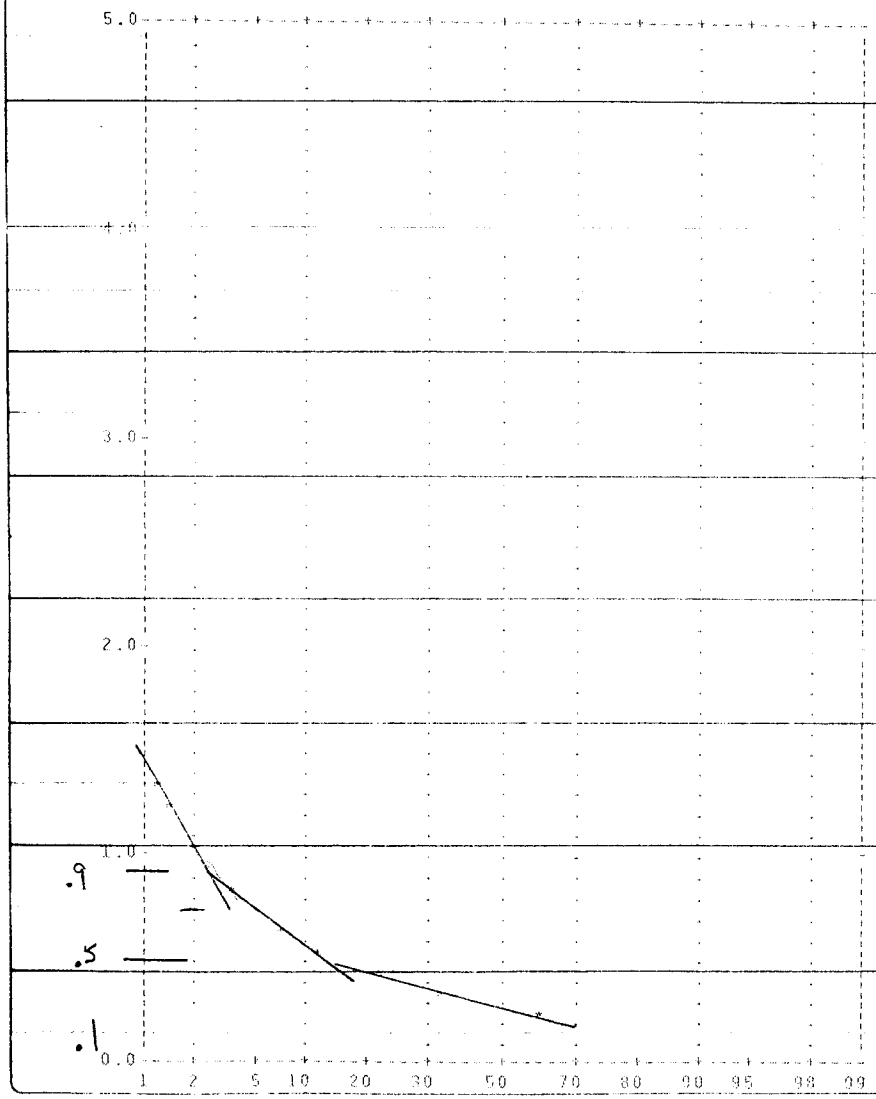
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
75.000	0	.000	.000
73.600	0	.000	.000
72.200	0	.000	.000
70.800	0	.000	.000
69.400	0	.000	.000
68.000	0	.000	.000
66.600	0	.000	.000
65.200	0	.000	.000
63.800	0	.000	.000
62.400	0	.000	.000
61.000	0	.000	.000
59.600	0	.000	.000
58.200	0	.000	.000
56.800	0	.000	.000
55.400	1	.001	.001
54.000	0	.000	.001
52.600	1	.001	.002
51.200	1	.001	.003
49.800	1	.001	.004
48.400	0	.000	.004
47.000	0	.000	.004
45.600	1	.001	.005
44.200	1	.001	.006
42.800	0	.000	.006
41.400	0	.000	.006
40.000	1	.001	.007
38.600	2	.002	.009
37.200	4	.004	.013
35.800	1	.001	.014
34.400	4	.004	.018
33.000	2	.002	.020
31.600	1	.001	.021
30.200	5	.005	.026
28.800	4	.004	.031
27.400	2	.002	.033
26.000	10	.010	.043
24.600	3	.003	.046
23.200	12	.012	.058
21.800	4	.004	.062
20.400	11	.011	.073
19.000	27	.027	.101
17.600	17	.017	.118
16.200	51	.052	.170
14.800	29	.030	.199
13.400	42	.043	.242
12.000	151	.156	.398
10.600	87	.089	.486
9.2000	211	.215	.701
7.8000	113	.115	.816
6.4000	181	.184	1.000
5.0000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:03 AT 12:40:20

file: soil.asy Field name: AG LOG =0 REPVAL = .00100

MIN = .00000 MAX = 5.0000 MEAN = .26772 STD DEV = .31838
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



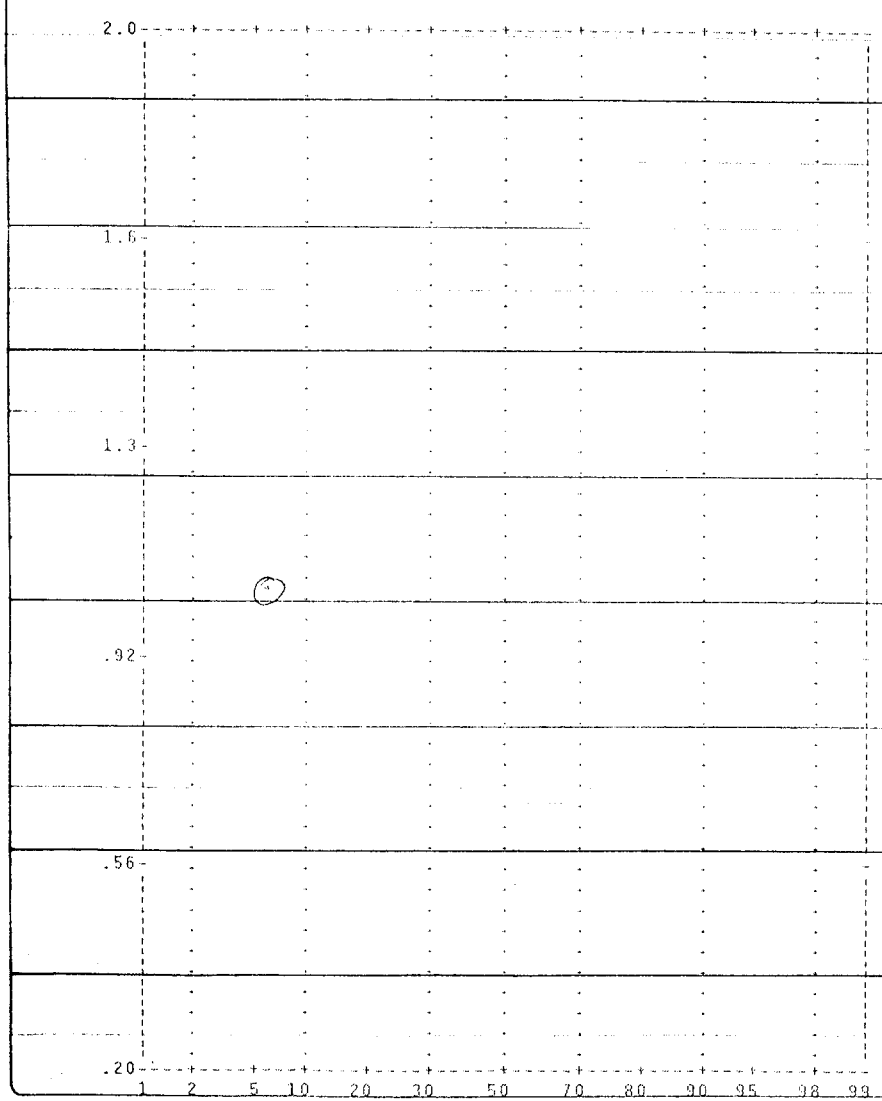
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
5.0000	2	.001	.001
4.9000	0	.000	.001
4.8000	0	.000	.001
4.7000	0	.000	.001
4.6000	0	.000	.001
4.5000	0	.000	.001
4.4000	0	.000	.001
4.3000	0	.000	.001
4.2000	0	.000	.001
4.1000	0	.000	.001
4.0000	0	.000	.001
3.9000	0	.000	.001
3.8000	0	.000	.001
3.7000	0	.000	.001
3.6000	0	.000	.001
3.5000	0	.000	.001
3.4000	1	.001	.002
3.3000	0	.000	.002
3.2000	1	.001	.002
3.1000	0	.000	.002
3.0000	0	.000	.002
2.9000	0	.000	.002
2.8000	1	.001	.003
2.7000	0	.000	.003
2.6000	0	.000	.003
2.5000	0	.000	.003
2.4000	2	.001	.004
2.3000	0	.000	.004
2.2000	1	.001	.005
2.1000	0	.000	.005
2.0000	4	.002	.007
1.9000	0	.000	.007
1.8000	2	.001	.008
1.7000	0	.000	.008
1.6000	1	.001	.009
1.5000	2	.001	.010
1.4000	3	.002	.011
1.3000	6	.003	.015
1.2000	2	.001	.016
1.1000	6	.003	.019
1.0000	7	.004	.023
.90000	12	.007	.030
.80000	19	.011	.041
.70000	33	.019	.059
.60000	48	.027	.087
.50000	77	.044	.131
.40000	152	.087	.218
.30000	273	.156	.374
.20000	416	.238	.611
.10000	680	.389	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GROX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:39:35

file: soil.asy Field name: BE LOG =0 REPVAL = .00100

MIN = .00000 MAX = 5.0000 MEAN = .54429 STD DEV = .20957
NUMBER OF DATA PLOTTED = 1747 (0 NULLS 1 < YMIN 2 > YMAX)



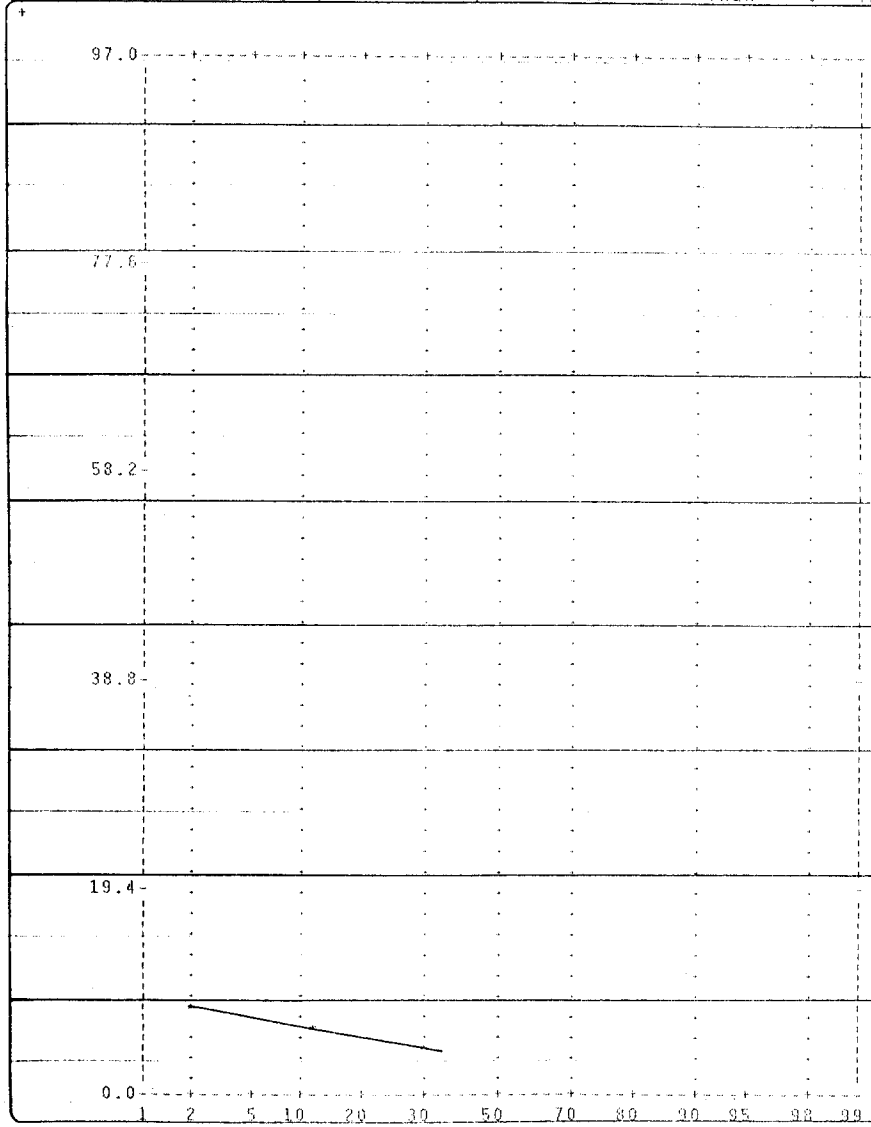
CLASSIFICATION TABLE

Max Val	Mval	Freq	Cum Freq
2.0000	12	.007	.007
1.9640	0	.000	.007
1.9280	0	.000	.007
1.8920	0	.000	.007
1.8560	0	.000	.007
1.8200	0	.000	.007
1.7840	0	.000	.007
1.7480	0	.000	.007
1.7120	0	.000	.007
1.6760	0	.000	.007
1.6400	0	.000	.007
1.6040	0	.000	.007
1.5680	0	.000	.007
1.5320	0	.000	.007
1.4960	0	.000	.007
1.4600	0	.000	.007
1.4240	0	.000	.007
1.3880	0	.000	.007
1.3520	0	.000	.007
1.3160	0	.000	.007
1.2800	0	.000	.007
1.2440	0	.000	.007
1.2080	0	.000	.007
1.1720	0	.000	.007
1.1360	0	.000	.007
1.1000	0	.000	.007
1.0640	0	.000	.007
1.0280	106	.061	.068
.99200	0	.000	.068
.95600	0	.000	.068
.92000	0	.000	.068
.88400	0	.000	.068
.84800	0	.000	.068
.81200	0	.000	.068
.77600	0	.000	.068
.74000	0	.000	.068
.70400	0	.000	.068
.66800	0	.000	.068
.63200	0	.000	.068
.59600	0	.000	.068
.56000	0	.000	.068
.52400	1629	.932	1.000
.48800	0	.000	1.000
.45200	0	.000	1.000
.41600	0	.000	1.000
.38000	0	.000	1.000
.34400	0	.000	1.000
.30800	0	.000	1.000
.27200	0	.000	1.000
.23600	0	.000	1.000
.20000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:39:35

file: soil.asy Field name: BI LOG =0 REPVAL = .00100

MIN = .00000 MAX = 97.000 MEAN = 1.8600 STD DEV = 2.6950
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



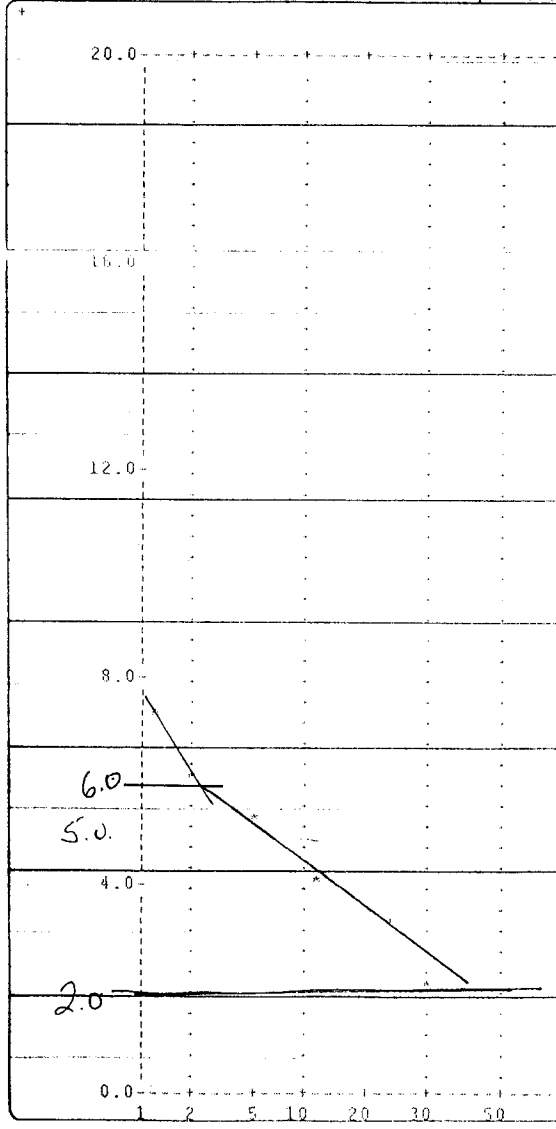
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
97.000	1	.001	.001
95.060	0	.000	.001
93.120	0	.000	.001
91.180	0	.000	.001
89.240	0	.000	.001
87.300	0	.000	.001
85.360	0	.000	.001
83.420	0	.000	.001
81.480	0	.000	.001
79.540	0	.000	.001
77.600	0	.000	.001
75.660	0	.000	.001
73.720	0	.000	.001
71.780	0	.000	.001
69.840	0	.000	.001
67.900	0	.000	.001
65.960	0	.000	.001
64.020	0	.000	.001
62.080	0	.000	.001
60.140	0	.000	.001
58.200	9	.000	.001
56.260	0	.000	.001
54.320	0	.000	.001
52.380	0	.000	.001
50.440	0	.000	.001
48.500	0	.000	.001
46.560	0	.000	.001
44.620	0	.000	.001
42.680	0	.000	.001
40.740	0	.000	.001
38.800	0	.000	.001
36.860	0	.000	.001
34.920	0	.000	.001
32.980	0	.000	.001
31.040	0	.000	.001
29.100	0	.000	.001
27.160	0	.000	.001
25.220	0	.000	.001
23.280	0	.000	.001
21.340	0	.000	.001
19.400	0	.000	.001
17.460	0	.000	.001
15.520	1	.001	.001
13.580	0	.000	.001
11.640	3	.002	.003
9.7000	10	.006	.009
7.7600	31	.018	.026
5.8200	171	.098	.124
3.8800	348	.199	.323
1.9400	1185	.677	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:39:35

file: soil.asy Field name: BI LOG =0 REPVAL = .00100

MIN = .00000 MAX = 97.000 MEAN = 1.8600 STD DEV = 2.6950
NUMBER OF DATA PLOTTED = 1749 (0 NULLS 0 < YMIN 1 > YMAX)



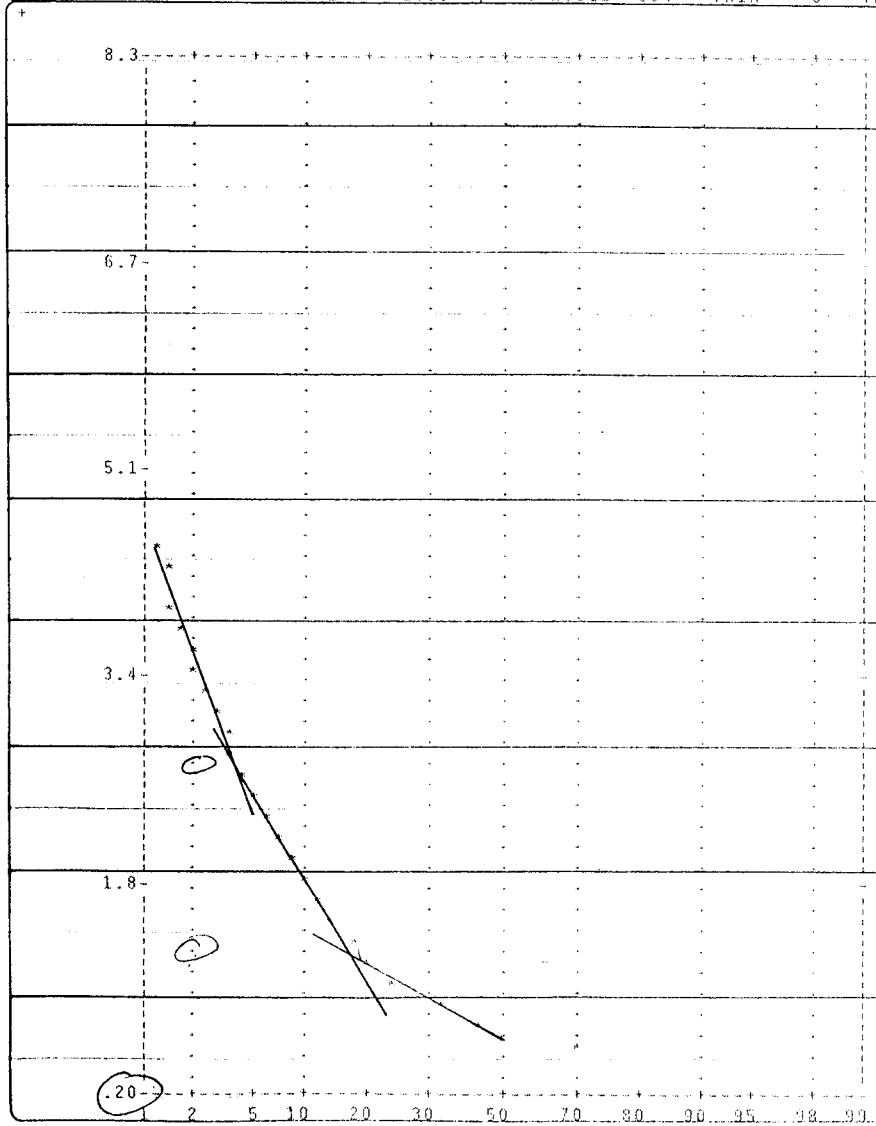
CLASSIFICATION TABLE

Max Val	Mval	Freq	Cum Freq
20.000	0	.000	.000
19.600	0	.000	.000
19.200	0	.000	.000
18.800	0	.000	.000
18.400	0	.000	.000
18.000	0	.000	.000
17.600	0	.000	.000
17.200	0	.000	.000
16.800	0	.000	.000
16.400	0	.000	.000
16.000	0	.000	.000
15.600	0	.000	.000
15.200	0	.000	.000
14.800	0	.000	.000
14.400	0	.000	.000
14.000	1	.001	.001
13.600	0	.000	.001
13.200	0	.000	.001
12.800	0	.000	.001
12.400	0	.000	.001
12.000	0	.000	.001
11.600	0	.000	.001
11.200	2	.001	.002
10.800	0	.000	.002
10.400	0	.000	.002
10.000	1	.001	.002
9.6000	0	.000	.002
9.2000	2	.001	.003
8.8000	0	.000	.003
8.4000	0	.000	.003
8.0000	8	.005	.008
7.6000	0	.000	.008
7.2000	12	.007	.015
6.8000	0	.000	.015
6.4000	0	.000	.015
6.0000	19	.011	.026
5.6000	0	.000	.026
5.2000	53	.030	.056
4.8000	0	.000	.056
4.4000	0	.000	.056
4.0000	118	.067	.123
3.6000	0	.000	.123
3.2000	215	.123	.246
2.8000	0	.000	.246
2.4000	0	.000	.246
2.0000	133	.076	.322
1.6000	0	.000	.322
1.2000	1184	.677	.999
.80000	0	.000	.999
.40000	1	.001	1.000
.00000	0	.000	1.000

PRBPLI: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:39:35

file: soil.asy Field name: CD LOG =0 REPVAL = .00100

MIN = .00000 MAX = 8.3000 MEAN = .62640 STD DEV = .80934
NUMBER OF DATA PLOTTED = 1356 (0 NULLS 394 < YMIN 0 > YMAX)



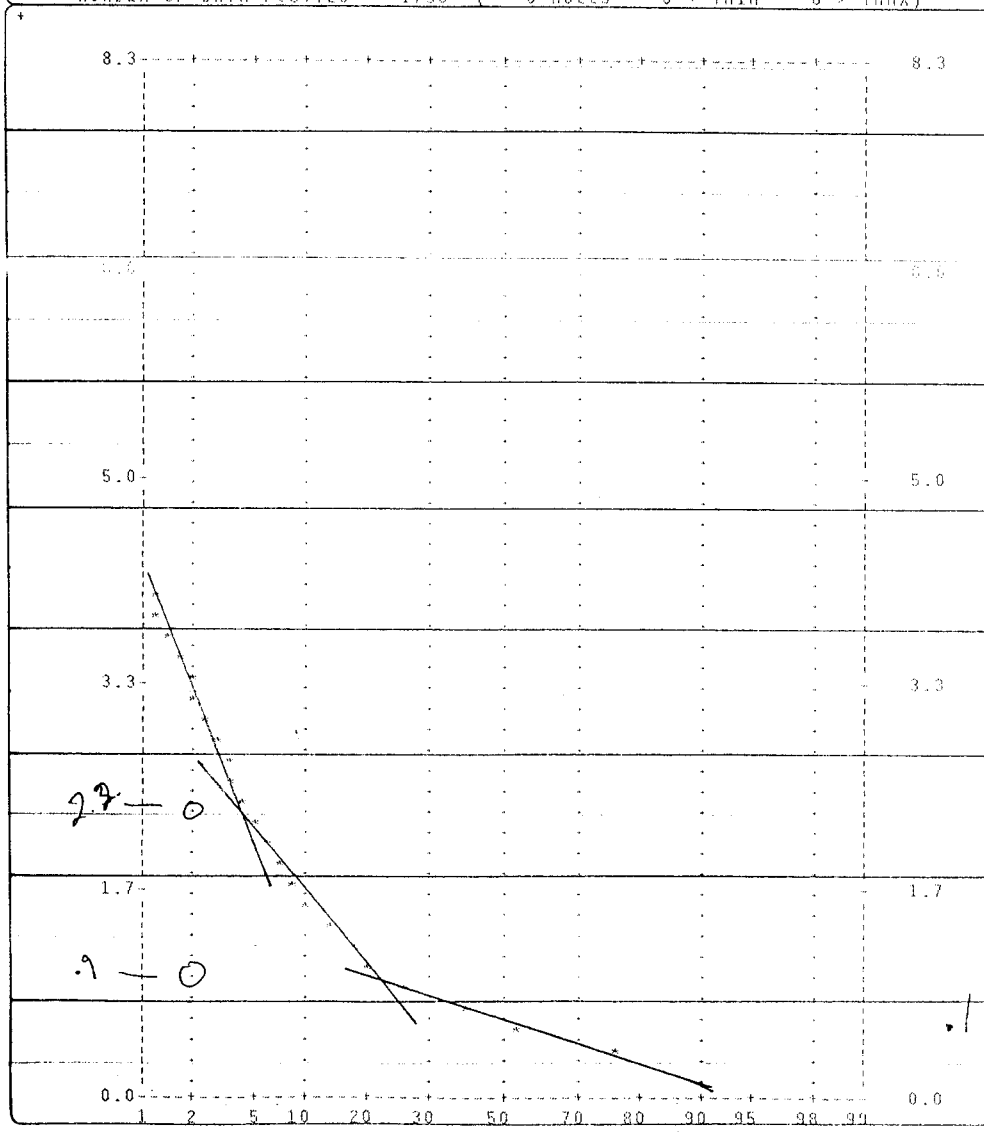
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
8.3000	1	.001	.001
8.1380	0	.000	.001
7.9760	0	.000	.001
7.8140	0	.000	.001
7.6520	0	.000	.001
7.4900	0	.000	.001
7.3280	0	.000	.001
7.1660	0	.000	.001
7.0040	0	.000	.001
6.8420	0	.000	.001
6.6800	0	.000	.001
6.5180	0	.000	.001
6.3560	0	.000	.001
6.1940	0	.000	.001
6.0320	2	.001	.002
5.8700	1	.001	.003
5.7080	0	.000	.003
5.5460	1	.001	.004
5.3840	1	.001	.004
5.2220	2	.001	.006
5.0600	3	.002	.008
4.8980	3	.002	.010
4.7360	2	.001	.012
4.5740	0	.000	.012
4.4120	2	.001	.013
4.2500	3	.002	.015
4.0880	0	.000	.015
3.9260	4	.003	.018
3.7640	1	.001	.019
3.6020	6	.004	.024
3.4400	5	.004	.027
3.2780	3	.002	.029
3.1160	6	.004	.034
2.9540	8	.006	.040
2.7920	6	.004	.044
2.6300	11	.008	.052
2.4680	5	.004	.056
2.3060	16	.012	.068
2.1440	17	.013	.080
1.9820	12	.009	.089
1.8200	26	.019	.108
1.6580	27	.020	.128
1.4960	14	.010	.139
1.3340	54	.040	.178
1.1720	26	.019	.198
1.0100	80	.059	.257
.84800	143	.105	.362
.68600	122	.090	.452
.52400	328	.242	.694
.36200	415	.306	1.000
.20000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:39:35

file: soil.asy Field name: CD LOG =0 REPVAL = .00100

MIN = .00000 MAX = 8.3000 MEAN = .62640 STD DEV = .80934
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



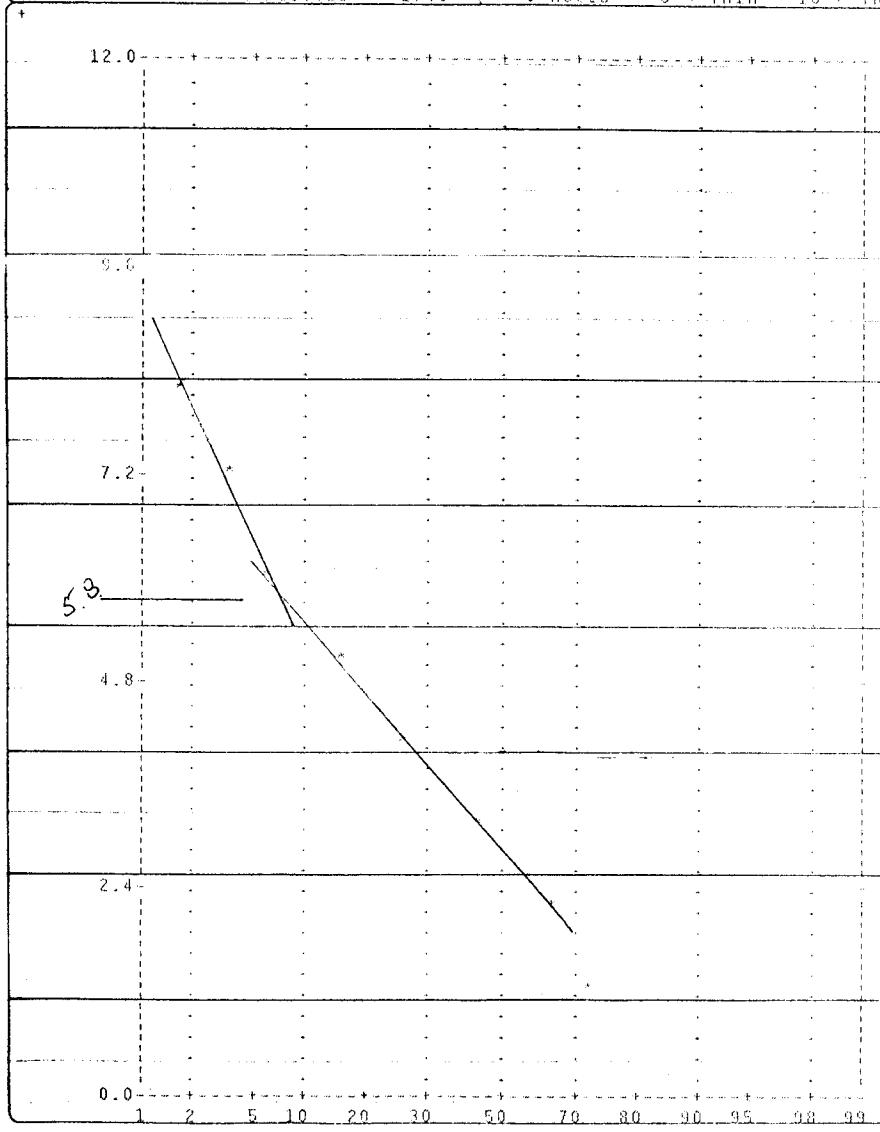
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
8.3000	1	.001	.001
8.1340	0	.000	.001
7.9680	0	.000	.001
7.8020	0	.000	.001
7.6360	0	.000	.001
7.4700	0	.000	.001
7.3040	0	.000	.001
7.1380	0	.000	.001
6.9720	0	.000	.001
6.8060	0	.000	.001
6.6400	0	.000	.001
6.4740	0	.009	.001
6.3080	0	.000	.001
6.1420	2	.001	.002
5.9760	0	.000	.002
5.8100	1	.001	.002
5.6440	1	.001	.003
5.4780	0	.000	.003
5.3120	1	.001	.003
5.1460	4	.002	.006
4.9800	1	.001	.006
4.8140	4	.002	.009
4.6480	1	.001	.009
4.4820	1	.001	.010
4.3160	3	.002	.011
4.1500	1	.001	.012
3.9840	1	.001	.013
3.8180	4	.002	.015
3.6520	6	.003	.018
3.4860	2	.001	.019
3.3200	6	.003	.023
3.1540	6	.003	.026
2.9880	4	.002	.029
2.8220	10	.006	.034
2.6560	11	.006	.041
2.4900	5	.003	.043
2.3240	16	.009	.053
2.1580	17	.010	.062
1.9920	12	.007	.069
1.8260	26	.015	.084
1.6600	27	.015	.099
1.4940	14	.008	.107
1.3280	54	.031	.138
1.1620	59	.034	.172
.99600	47	.027	.199
.83000	143	.082	.281
.66400	264	.151	.431
.49800	186	.106	.538
.33200	415	.237	.775
.16600	394	.225	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:39:35

file: soil.asy Field name: MO LOG =0 REPORT = .00100

MIN = .00000 MAX = 22.000 MEAN = 2.5906 STD DEV = 2.2605
NUMBER OF DATA PLOTTED = 1740 (0 NULLS 0 < YMIN 10 > YMAX)



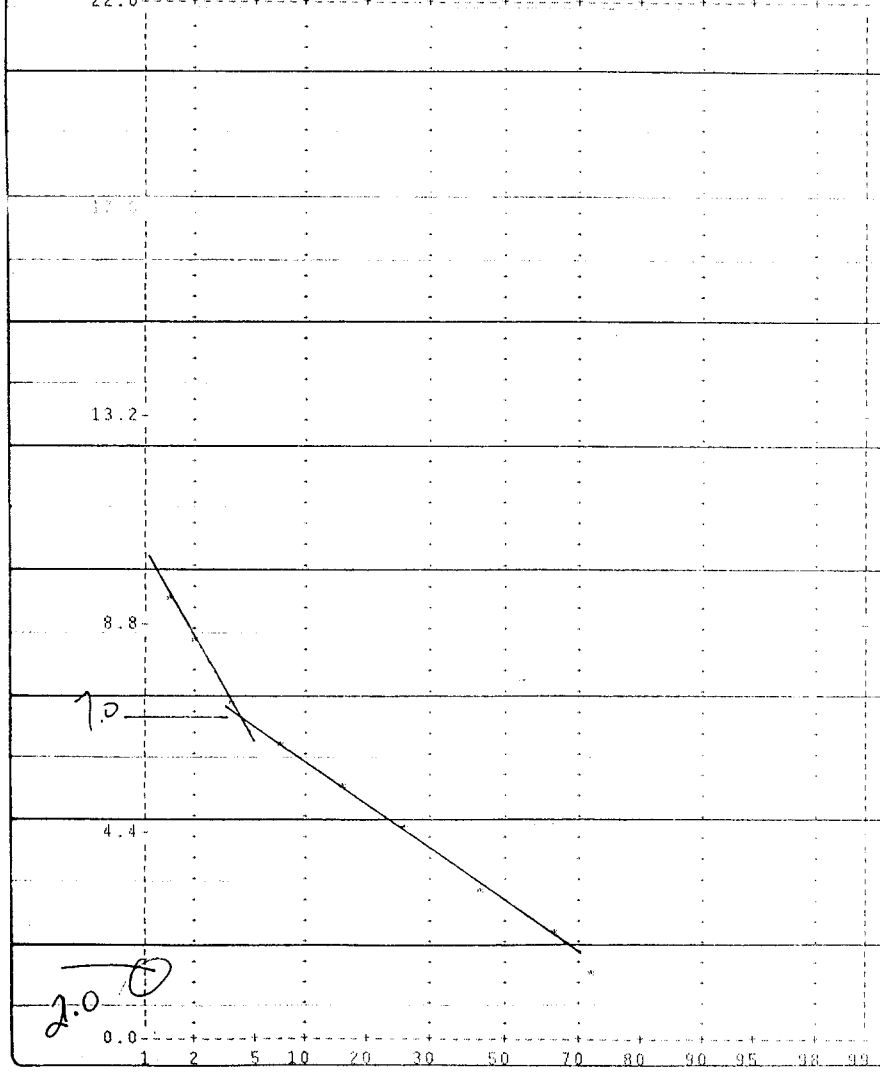
CLASSIFICATION TABLE

Max Val	Mval	Freq	Cum Freq
12.000	3	.002	.002
11.760	0	.000	.002
11.520	0	.000	.002
11.280	0	.000	.002
11.040	3	.002	.003
10.800	0	.000	.003
10.560	0	.000	.003
10.320	0	.000	.003
10.080	5	.003	.006
9.8400	0	.000	.006
9.6000	0	.000	.006
9.3600	0	.000	.006
9.1200	10	.006	.012
8.8800	0	.000	.012
8.6400	0	.000	.012
8.4000	0	.000	.012
8.1600	14	.008	.020
7.9200	0	.000	.020
7.6800	0	.000	.020
7.4400	0	.000	.020
7.2000	34	.020	.040
6.9600	0	.000	.040
6.7200	0	.000	.040
6.4800	0	.000	.040
6.2400	0	.000	.040
6.0000	58	.033	.073
5.7600	0	.000	.073
5.5200	0	.000	.073
5.2800	0	.000	.073
5.0400	140	.080	.153
4.8000	0	.000	.153
4.5600	0	.000	.153
4.3200	0	.000	.153
4.0800	199	.114	.268
3.8400	0	.000	.268
3.6000	0	.000	.268
3.3600	0	.000	.268
3.1200	296	.170	.438
2.8800	0	.000	.438
2.6400	0	.000	.438
2.4000	0	.000	.438
2.1600	342	.197	.634
1.9200	0	.000	.634
1.6800	0	.000	.634
1.4400	0	.000	.634
1.2000	146	.084	.718
.96000	0	.000	.718
.72000	489	.281	.999
.48000	0	.000	.999
.24000	1	.001	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:39:35

file: soil.asy Field name: M0 LOG =0 REPVAL = .00100

MIN = .00000 MAX = 22.000 MEAN = 2.5906 STD DEV = 2.2605
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



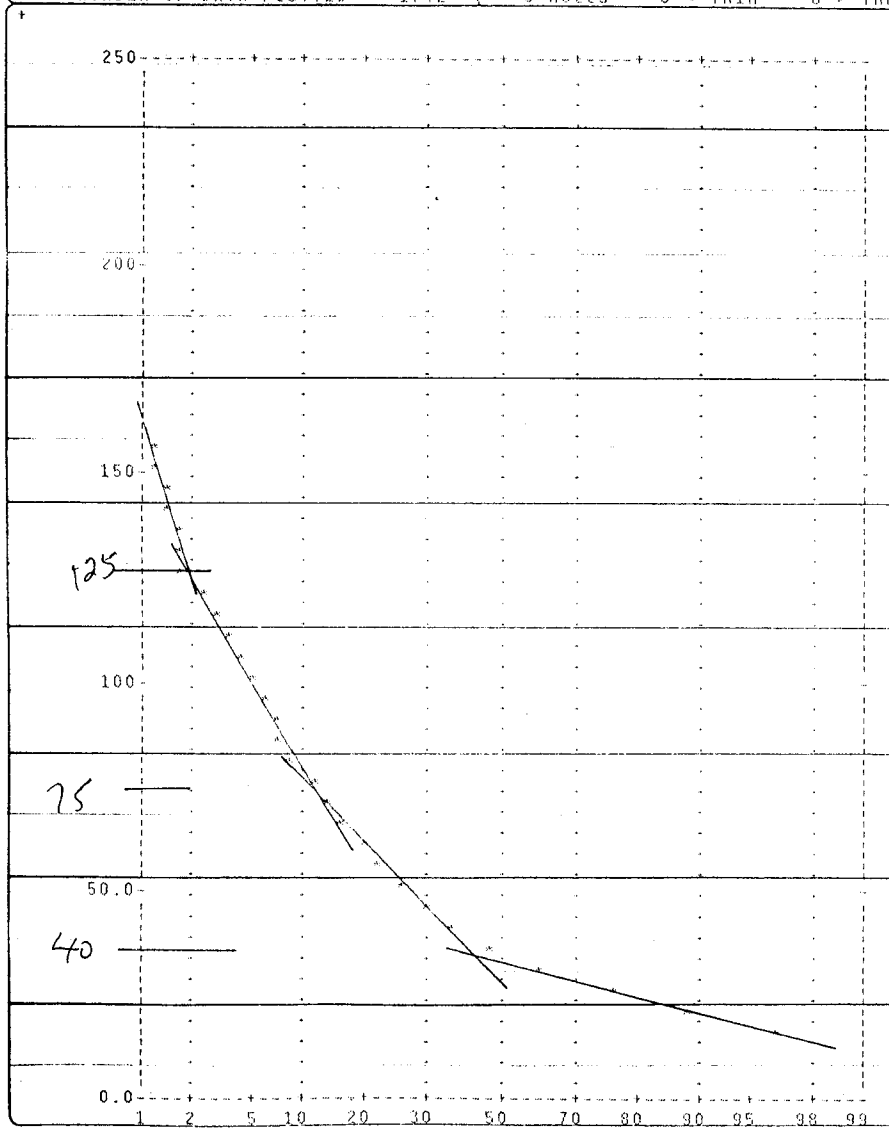
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
22.000	1	.001	.001
21.560	0	.000	.001
21.120	2	.001	.002
20.680	0	.000	.002
20.240	0	.000	.002
19.800	0	.000	.002
19.360	1	.001	.002
18.920	0	.000	.002
18.480	0	.000	.002
18.040	0	.000	.002
17.600	0	.000	.002
17.160	1	.001	.003
16.720	0	.000	.003
16.280	0	.000	.003
15.840	0	.000	.003
15.400	0	.000	.003
14.960	0	.000	.003
14.520	0	.000	.003
14.080	3	.002	.005
13.640	0	.000	.005
13.200	2	.001	.006
12.760	0	.000	.006
12.320	3	.002	.007
11.880	0	.000	.007
11.440	0	.000	.007
11.000	3	.002	.009
10.560	0	.000	.009
10.120	5	.003	.012
9.6800	0	.000	.012
9.2400	10	.006	.018
8.8000	0	.000	.018
8.3600	14	.008	.026
7.9200	0	.000	.026
7.4800	0	.000	.026
7.0400	34	.019	.045
6.6000	0	.000	.045
6.1600	58	.033	.078
5.7200	0	.000	.078
5.2800	140	.080	.158
4.8400	0	.000	.158
4.4000	199	.114	.272
3.9600	0	.000	.272
3.5200	0	.000	.272
3.0800	296	.169	.441
2.6400	0	.000	.441
2.2000	342	.195	.637
1.7600	0	.000	.637
1.3200	146	.083	.720
.88000	489	.279	.999
.44000	1	.001	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GROX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:39:35

file: soil.asy Field name: MI LOG =0 REPVAL = .00100

MIN = .00000 MAX = 963.00 MEAN = 41.319 STD DEV = 43.560
NUMBER OF DATA PLOTTED = 1742 (0 NULLS 0 < YMIN 8 > YMAX)



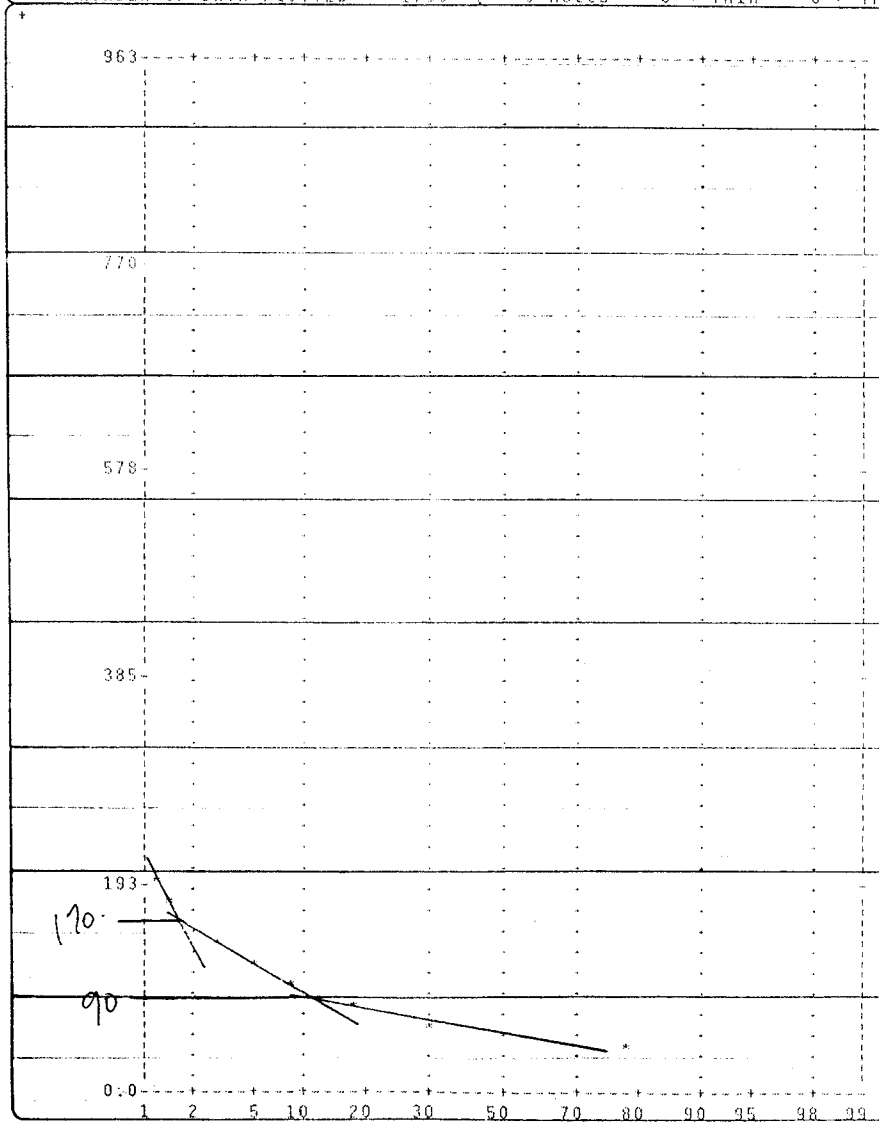
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
250.00	0	.000	.000
245.00	0	.000	.000
240.00	0	.000	.000
235.00	0	.000	.000
230.00	0	.000	.000
225.00	1	.001	.001
220.00	0	.000	.001
215.00	0	.000	.001
210.00	2	.001	.002
205.00	0	.000	.002
200.00	0	.000	.002
195.00	3	.002	.003
190.00	2	.001	.005
185.00	4	.002	.007
180.00	1	.001	.007
175.00	2	.001	.009
170.00	1	.001	.009
165.00	3	.002	.011
160.00	2	.001	.012
155.00	2	.001	.013
150.00	2	.001	.014
145.00	3	.002	.016
140.00	3	.002	.018
135.00	4	.002	.020
130.00	3	.002	.022
125.00	1	.001	.022
120.00	12	.007	.029
115.00	9	.005	.034
110.00	16	.009	.044
105.00	12	.007	.051
100.00	18	.010	.061
95.000	14	.008	.069
90.000	12	.007	.076
85.000	18	.010	.086
80.000	21	.012	.098
75.000	32	.018	.117
70.000	45	.026	.142
65.000	44	.025	.168
60.000	55	.032	.199
55.000	54	.031	.230
50.000	71	.041	.271
45.000	88	.051	.321
40.000	105	.060	.382
35.000	179	.103	.485
30.000	240	.138	.622
25.000	268	.154	.776
20.000	193	.111	.887
15.000	132	.076	.963
10.000	54	.031	.994
5.0000	11	.006	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:39:35

file: soil.asy Field name: NI LOG =0 REPVAL = .00100

MIN = .00000 MAX = 963.00 MEAN = 41.319 STD DEV = 43.560
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



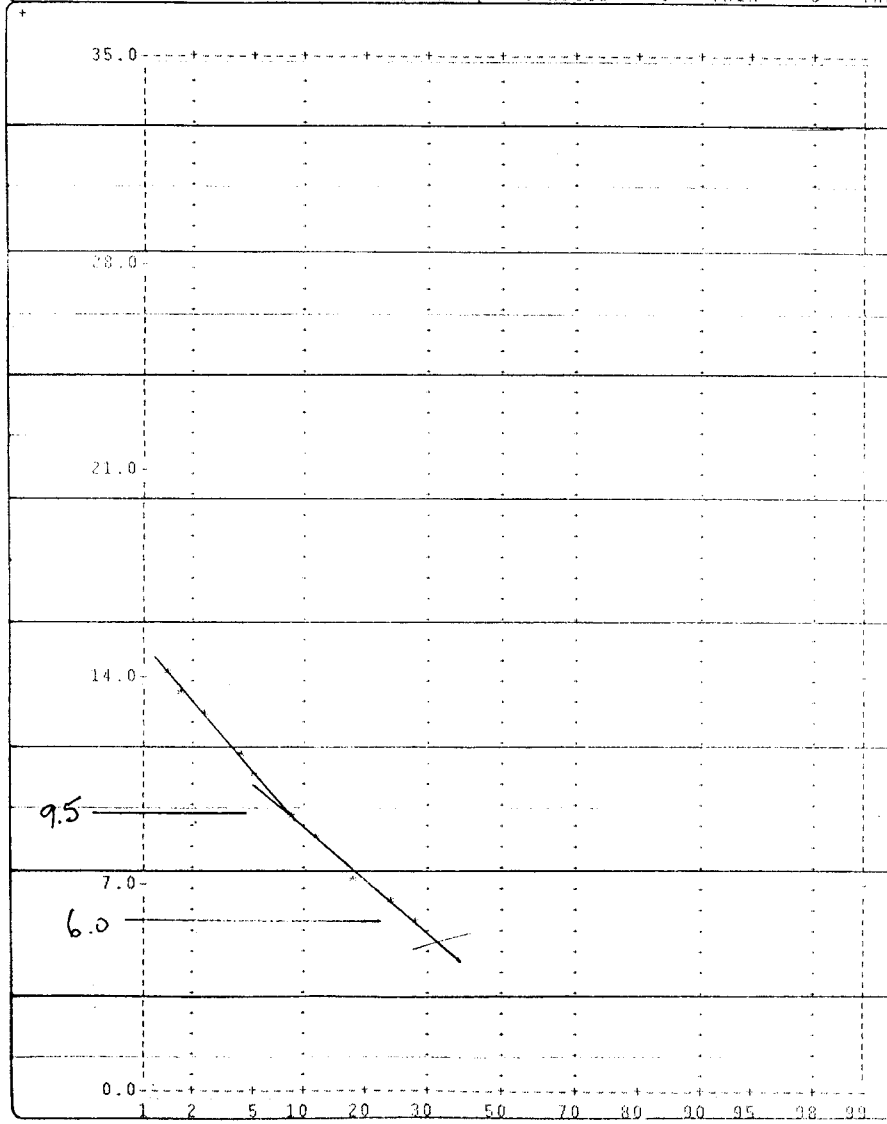
CLASSIFICATION TABLE

Max Val	Mval	Freq	Cum Freq
963.00	1	.001	.001
943.74	0	.000	.001
924.48	0	.000	.001
905.22	0	.000	.001
885.96	0	.000	.001
866.70	0	.000	.001
847.44	0	.000	.001
828.18	0	.000	.001
808.92	0	.000	.001
789.66	0	.000	.001
770.40	0	.000	.001
751.14	1	.001	.001
731.88	0	.000	.001
712.62	0	.000	.001
693.36	0	.000	.001
674.10	0	.000	.001
654.84	0	.000	.001
635.58	0	.000	.001
616.32	0	.000	.001
597.06	0	.000	.001
577.80	0	.000	.001
558.54	0	.000	.001
539.28	0	.000	.001
520.02	0	.000	.001
500.76	0	.000	.001
481.50	0	.000	.001
462.24	0	.000	.001
442.98	0	.000	.001
423.72	0	.000	.001
404.46	1	.001	.002
385.20	0	.000	.002
365.94	0	.000	.002
346.68	0	.000	.002
327.42	1	.001	.002
308.16	1	.001	.003
288.90	1	.001	.003
269.64	2	.001	.005
250.38	0	.000	.005
231.12	1	.001	.005
211.86	3	.002	.007
192.60	11	.006	.013
173.34	7	.004	.017
154.08	9	.005	.022
134.82	20	.011	.034
115.56	51	.029	.063
96.300	56	.032	.095
77.040	164	.094	.189
57.780	273	.156	.345
38.520	796	.455	.799
19.260	351	.201	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GROX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:39:35

file: soil.asy Field name: SB LOG =0 REPVAL = .00100

MIN = .00000 MAX = 1954.0 MEAN = 8.0906 STD DEV = 69.323
NUMBER OF DATA PLOTTED = 1741 (0 NULLS 0 < YMIN 9 > YMAX)



CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
35.000	0	.000	.000
34.300	0	.000	.000
33.600	0	.000	.000
32.900	0	.000	.000
32.200	0	.000	.000
31.500	0	.000	.000
30.800	0	.000	.000
30.100	0	.000	.000
29.400	0	.000	.000
28.700	0	.000	.000
28.000	1	.001	.001
27.300	0	.000	.001
26.600	0	.000	.001
25.900	0	.000	.001
25.200	0	.000	.001
24.500	0	.000	.001
23.800	0	.000	.001
23.100	0	.000	.001
22.400	1	.001	.001
21.700	0	.000	.001
21.000	0	.000	.001
20.300	0	.000	.001
19.600	5	.003	.004
18.900	0	.000	.004
18.200	2	.001	.005
17.500	1	.001	.006
16.800	0	.000	.006
16.100	2	.001	.007
15.400	7	.004	.011
14.700	0	.000	.011
14.000	8	.005	.016
13.300	9	.005	.021
12.600	21	.012	.033
11.900	0	.000	.033
11.200	26	.015	.048
10.500	28	.016	.064
9.8000	0	.000	.064
9.1000	47	.027	.091
8.4000	63	.036	.127
7.7000	0	.000	.127
7.0000	85	.049	.176
6.3000	139	.080	.256
5.6000	66	.038	.294
4.9000	0	.000	.294
4.2000	0	.000	.294
3.5000	0	.000	.294
2.8000	1229	.706	.999
2.1000	0	.000	.999
1.4000	0	.000	.999
.70000	1	.001	1.000
.00000	0	.000	1.000

P L A C E R D O M E I N C .

Placer Data Analysis System - STATS

run on 91:10:04 at 10:51:50

V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS

Summary of data from file : soil.asy

This data file contains an internal header: (8 records)
Data grouped into 35 fields
with format: (A4,4F8.1,2F10.1,2F8.2,5F7.1,2F8.2,3F7.1,F8.2,F9.3,F7.1,F8.2,2F7.1,F9.3,F7.1,F8.
2,3F7.1,F9.3,3F7.1)

Character ID fields:
PROJ

Coordinate fields:
OLDX OLDY GRDY GRDX UTMX UTMY

Other data fields:

AG	AL	AS	AU	BA	BE	BI	CA	CD	CO	CR	CU
FE	K	LA	MG	MN	MO	NA	NI	P	PB	SB	SR
TI	V	W	ZN								

Missing data indicated by NULL value 99999.0

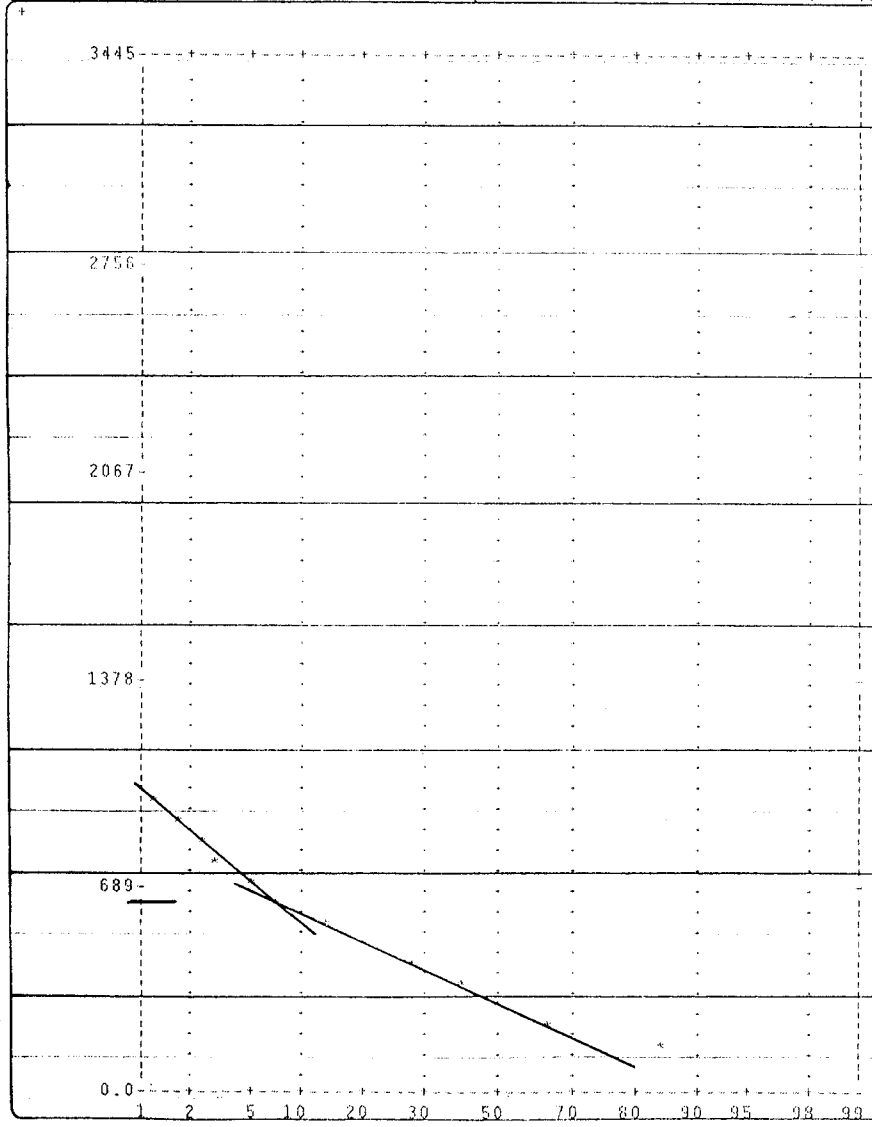
BASIC STATISTICS OF SELECTED DATA FIELDS:

NAME	NDATA	NULLS	MINIMUM	MAXIMUM	MEAN	STD. DEV.	GEOM. MEAN	DISPERSION	
BA	1750	0	.000000	3445.00	266.226	224.189	190.722	77.6517	468.435
CO	1750	0	.000000	186.000	12.3414	8.52800	10.6456	6.01762	18.8330
CR	1750	0	.000000	2189.00	83.4783	96.6430	58.8473	25.3004	136.876
K	1750	0	.000000	1.95000	.133017	.137468	.915559E-01	.383915E-01	.218342
LA	1750	0	.000000	685.000	18.8866	28.1645	13.9342	6.39398	30.3663
MN	1750	0	.000000	12465.0	537.029	592.749	410.131	191.995	876.104
TI	1750	0	.000000	.490000	.715284E-01	.519068E-01	.520888E-01	.211237E-01	.128446
V	1750	0	.000000	598.000	73.9714	34.4370	66.1334	38.0880	114.829
W	1750	0	.000000	215.000	6.29657	6.98340	5.61046	3.70536	8.49507

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:51:50

file: soil.asy Field name: BA LOG =0 REPVAL = .00100

MIN = .00000 MAX = 3445.0 MEAN = 266.23 STD DEV = 224.19
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



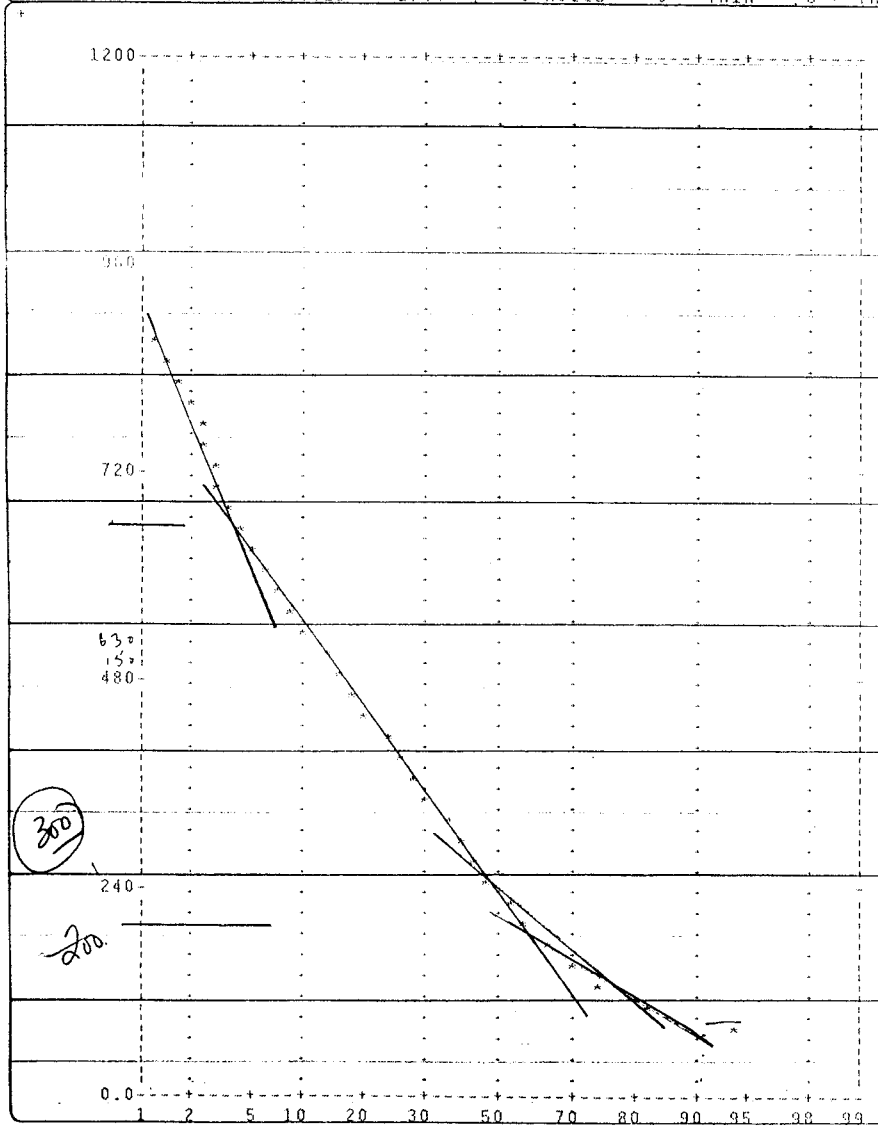
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
3445.0	1	.001	.001
3376.1	0	.000	.001
3307.2	0	.000	.001
3238.3	0	.000	.001
3169.4	0	.000	.001
3100.5	0	.000	.001
3031.6	0	.000	.001
2962.7	0	.000	.001
2893.8	0	.000	.001
2824.9	0	.000	.001
2756.0	0	.000	.001
2687.1	0	.000	.001
2618.2	0	.000	.001
2549.3	0	.000	.001
2480.4	0	.000	.001
2411.5	1	.001	.001
2342.6	0	.000	.001
2273.7	0	.000	.001
2204.8	0	.000	.001
2135.9	0	.000	.001
2067.0	0	.000	.001
1998.1	0	.000	.001
1929.2	0	.000	.001
1860.3	0	.000	.001
1791.4	0	.000	.001
1722.5	0	.000	.001
1653.6	0	.000	.001
1584.7	1	.001	.002
1515.8	1	.001	.002
1446.9	0	.000	.002
1378.0	0	.000	.002
1309.1	1	.001	.003
1240.2	2	.001	.004
1171.3	1	.001	.005
1102.4	7	.004	.009
1033.5	5	.003	.011
964.60	2	.001	.013
895.70	13	.007	.020
826.80	17	.010	.030
757.90	14	.008	.038
689.00	33	.019	.057
620.10	51	.029	.086
551.20	82	.047	.133
482.30	123	.070	.203
413.40	158	.090	.293
344.50	200	.114	.407
275.60	185	.106	.513
206.70	234	.134	.647
137.80	375	.214	.861
68.900	243	.139	1.000
.00000	0	.000	1.000

PRBPLT: V272 KOMA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:51:50

file: soil.asy Field name: BA LOG =0 REPVAL = .00100

MIN = .00000 MAX = 3445.0 MEAN = 266.23 STD DEV = 224.19
NUMBER OF DATA PLOTTED = 1744 (0 NULLS 0 < YMIN .6 > YMAX)



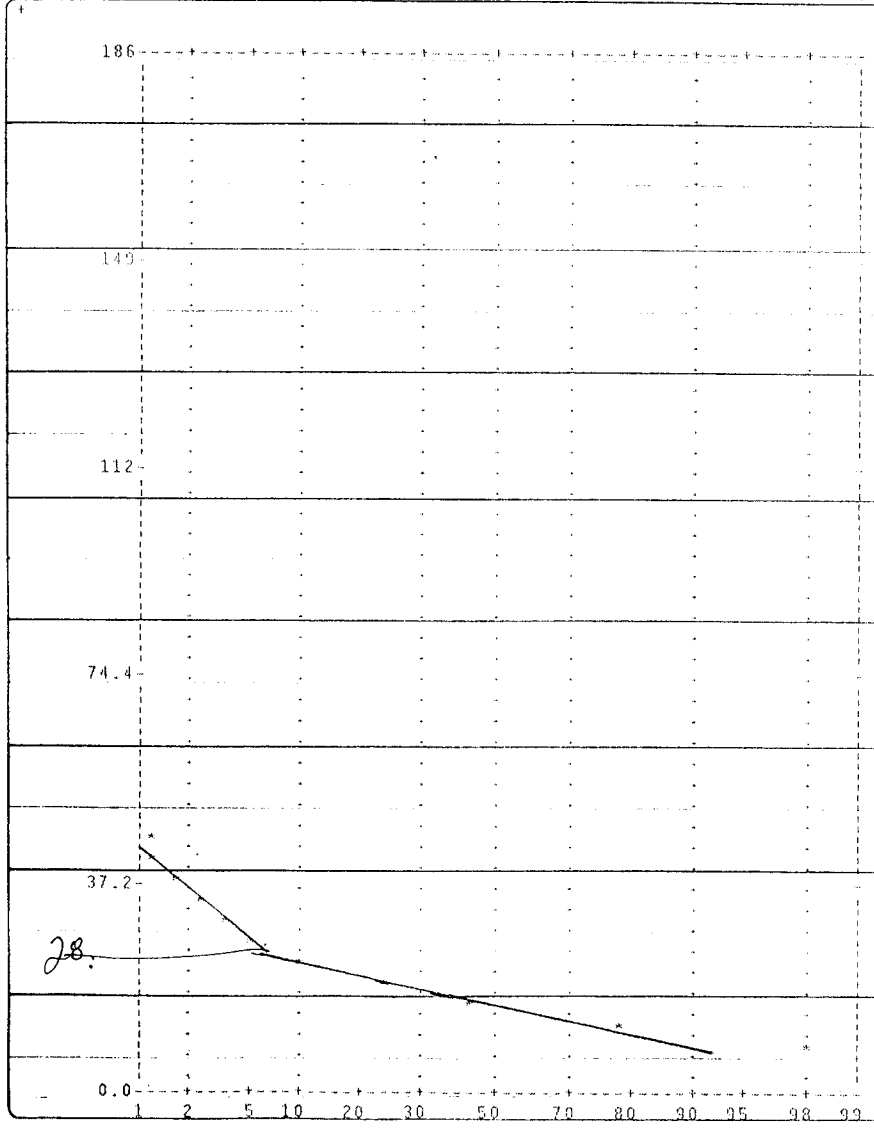
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
1200.0	1	.001	.001
1176.0	0	.000	.001
1152.0	1	.001	.001
1128.0	0	.000	.001
1104.0	5	.003	.004
1080.0	1	.001	.005
1056.0	2	.001	.006
1032.0	1	.001	.006
1008.0	2	.001	.007
984.00	1	.001	.008
960.00	0	.000	.008
936.00	2	.001	.009
912.00	0	.000	.009
888.00	3	.002	.011
864.00	6	.003	.014
840.00	7	.004	.018
816.00	5	.003	.021
792.00	6	.003	.025
768.00	6	.003	.028
744.00	4	.002	.030
720.00	6	.003	.034
696.00	7	.004	.038
672.00	11	.006	.044
648.00	14	.008	.052
624.00	14	.008	.060
600.00	17	.010	.070
576.00	22	.013	.083
552.00	19	.011	.093
528.00	31	.018	.111
504.00	37	.021	.132
480.00	39	.022	.155
456.00	41	.024	.178
432.00	48	.028	.206
408.00	55	.032	.237
384.00	54	.031	.268
360.00	61	.035	.303
336.00	70	.040	.343
312.00	70	.040	.384
288.00	61	.035	.419
264.00	70	.040	.459
240.00	66	.038	.497
216.00	66	.038	.534
192.00	78	.045	.579
168.00	82	.047	.626
144.00	105	.060	.686
120.00	117	.067	.753
96.000	147	.084	.838
72.000	178	.102	.940
48.000	97	.056	.995
24.000	8	.005	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GROX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:51:50

file: soil.asy Field name: CO LOG =0 REPVAL = .00100

MIN = .00000 MAX = 186.00 MEAN = 12.341 STD DEV = 8.5280
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



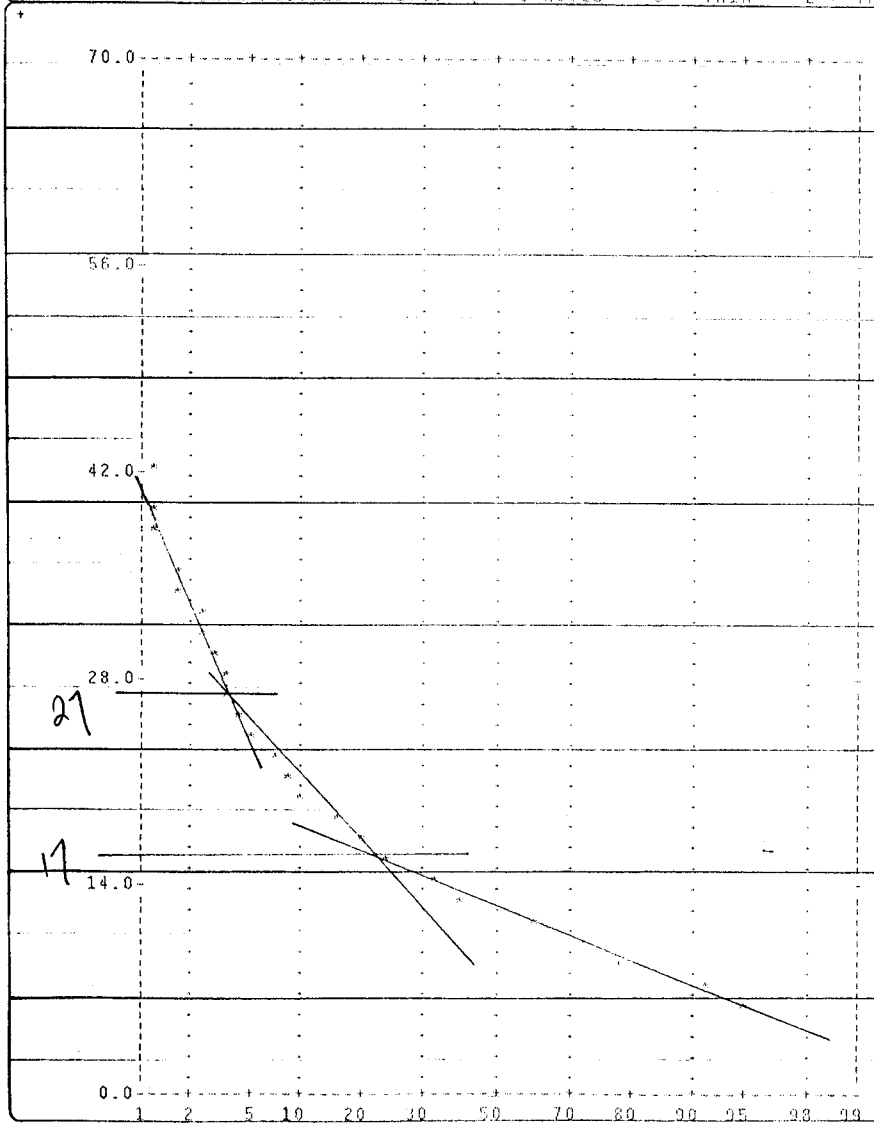
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
186.00	1	.001	.001
182.28	0	.000	.001
178.56	0	.000	.001
174.84	0	.000	.001
171.12	0	.000	.001
167.40	0	.000	.001
163.68	0	.000	.001
159.96	0	.000	.001
156.24	0	.000	.001
152.52	0	.000	.001
148.80	0	.000	.001
145.08	0	.000	.001
141.36	0	.000	.001
137.64	0	.000	.001
133.92	0	.000	.001
130.20	0	.000	.001
126.48	0	.000	.001
122.76	0	.000	.001
119.04	0	.000	.001
115.32	0	.000	.001
111.60	0	.000	.001
107.88	0	.000	.001
104.16	0	.000	.001
100.44	0	.000	.001
96.720	1	.001	.001
93.000	0	.000	.001
89.280	0	.000	.001
85.560	0	.000	.001
81.840	0	.000	.001
78.120	0	.000	.001
74.400	0	.000	.001
70.680	0	.000	.001
66.960	1	.001	.002
63.240	2	.001	.003
59.520	5	.003	.006
55.800	2	.001	.007
52.080	1	.001	.007
48.360	4	.002	.010
44.640	8	.005	.014
40.920	1	.001	.015
37.200	9	.005	.020
33.480	21	.012	.032
29.760	15	.009	.041
26.040	39	.022	.063
22.320	78	.045	.107
18.600	234	.134	.241
14.880	342	.195	.437
11.160	624	.357	.793
7.4400	323	.185	.978
3.7200	39	.022	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:51:50

file: soil.asy Field name: C0 LOG =0 REPVAL = .00100

MIN = .00000 MAX = 186.00 MEAN = 12.341 STD DEV = 8.5280
NUMBER OF DATA PLOTTED = 1748 (0 NULLS 0 < YMIN 2 > YMAX)



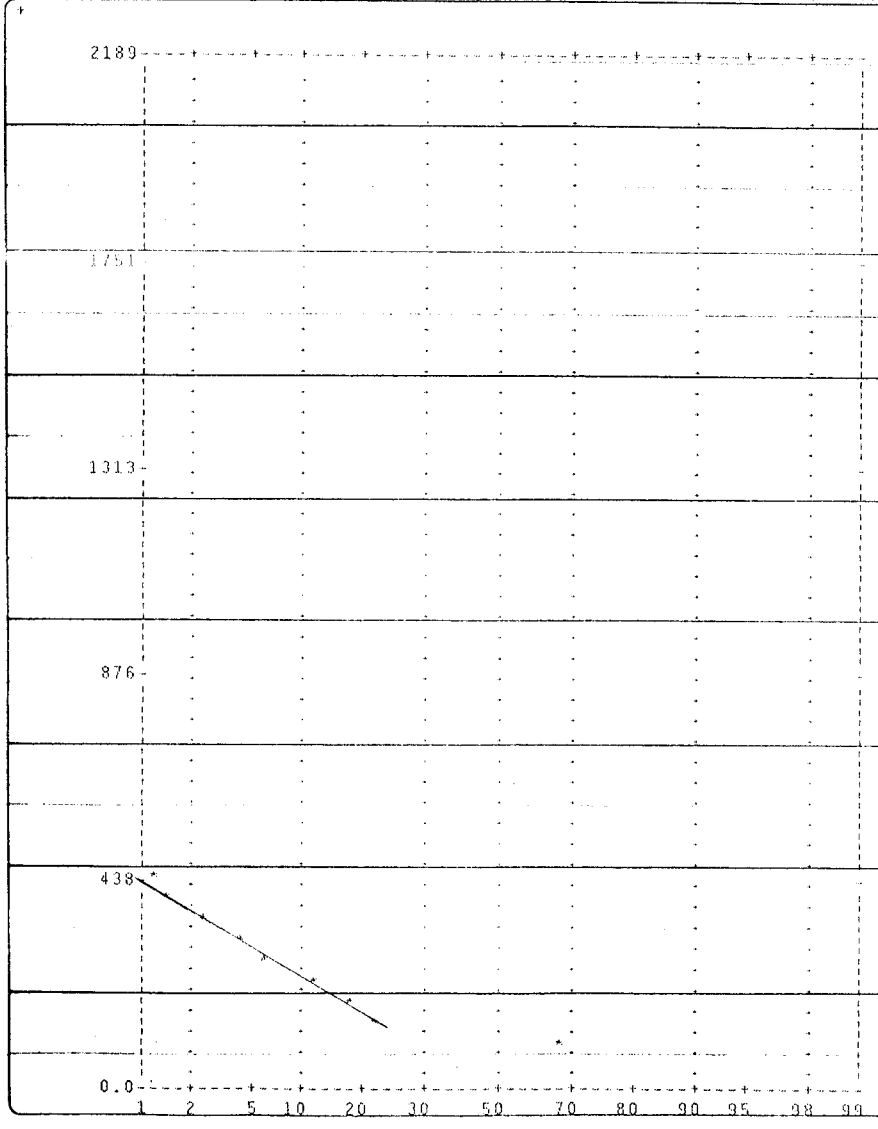
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
70.000	0	.000	.000
68.600	0	.000	.000
67.200	0	.000	.000
65.800	0	.000	.000
64.400	1	.001	.001
63.000	2	.001	.002
61.600	0	.000	.002
60.200	1	.001	.002
58.800	1	.001	.003
57.400	2	.001	.004
56.000	1	.001	.005
54.600	1	.001	.005
53.200	1	.001	.006
51.800	1	.001	.006
50.400	0	.000	.006
49.000	0	.000	.006
47.600	3	.002	.008
46.200	1	.001	.009
44.800	3	.002	.010
43.400	0	.000	.010
42.000	5	.003	.013
40.600	0	.000	.013
39.200	1	.001	.014
37.800	2	.001	.015
36.400	0	.000	.015
35.000	7	.004	.019
33.600	3	.002	.021
32.200	12	.007	.027
30.800	6	.003	.031
29.400	5	.003	.034
28.000	10	.006	.039
26.600	9	.005	.045
25.200	15	.009	.053
23.800	15	.009	.062
22.400	27	.015	.077
21.000	36	.021	.098
19.600	15	.009	.106
18.200	98	.056	.162
16.800	49	.028	.191
15.400	87	.050	.240
14.000	212	.121	.362
12.600	130	.074	.436
11.200	313	.179	.615
9.8000	174	.100	.715
8.4000	137	.078	.793
7.0000	211	.121	.914
5.6000	64	.037	.950
4.2000	72	.041	.991
2.8000	9	.005	.997
1.4000	6	.003	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:51:50

file: soil.asy Field name: CR LOG =0 REPVAL = .00100

MIN = .00000 MAX = 2189.0 MEAN = 83.478 STD DEV = 96.643
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



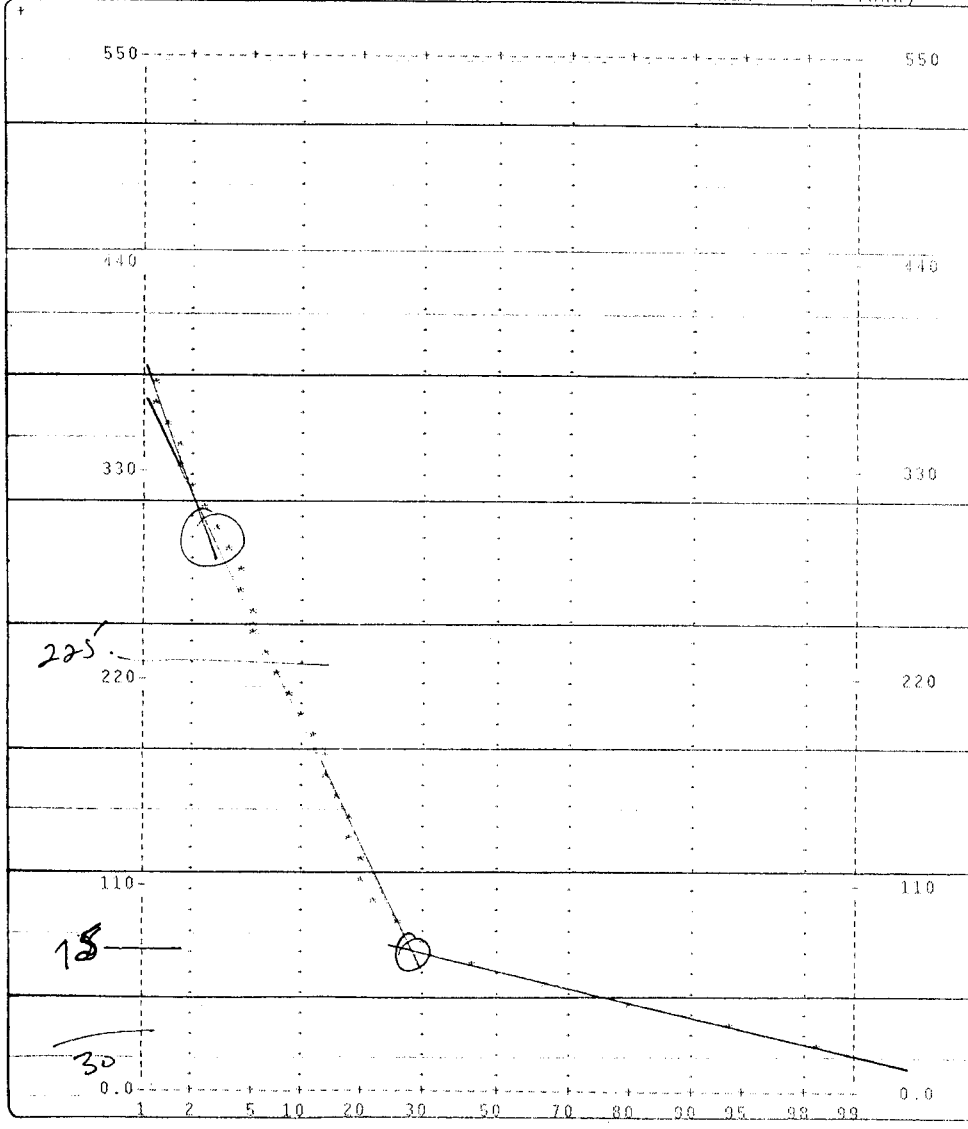
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
2189.0	1	.001	.001
2145.2	0	.000	.001
2101.4	0	.000	.001
2057.7	0	.000	.001
2013.9	0	.000	.001
1970.1	0	.000	.001
1926.3	0	.000	.001
1882.5	0	.000	.001
1838.8	0	.000	.001
1795.0	0	.000	.001
1751.2	0	.000	.001
1707.4	0	.000	.001
1663.6	0	.000	.001
1619.9	0	.000	.001
1576.1	0	.000	.001
1532.3	0	.000	.001
1488.5	0	.000	.001
1444.7	0	.000	.001
1401.0	0	.000	.001
1357.2	0	.000	.001
1313.4	0	.000	.001
1269.6	0	.000	.001
1225.8	0	.000	.001
1182.1	0	.000	.001
1138.3	0	.000	.001
1094.5	0	.000	.001
1050.7	0	.000	.001
1006.9	0	.000	.001
963.16	0	.000	.001
919.38	0	.000	.001
875.60	0	.000	.001
831.82	1	.001	.001
788.04	0	.000	.001
744.26	0	.000	.001
700.48	0	.000	.001
656.70	1	.001	.002
612.92	1	.001	.002
569.14	0	.000	.002
525.36	6	.003	.006
481.58	6	.003	.009
437.80	7	.004	.013
394.02	6	.003	.017
350.24	22	.013	.029
306.46	39	.022	.051
262.68	41	.023	.075
218.90	84	.048	.123
175.12	87	.050	.173
131.34	97	.055	.228
87.560	751	.429	.657
43.780	600	.343	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:51:50

file: soil.asy Field name: CR LOG =0 REPVAL = .00100

MIN = .00000 MAX = 2189.0 MEAN = 83.478 STD DEV = 96.643
NUMBER OF DATA PLOTTED = 1746 (0 NULLS 0 < YMIN 4 > YMAX)



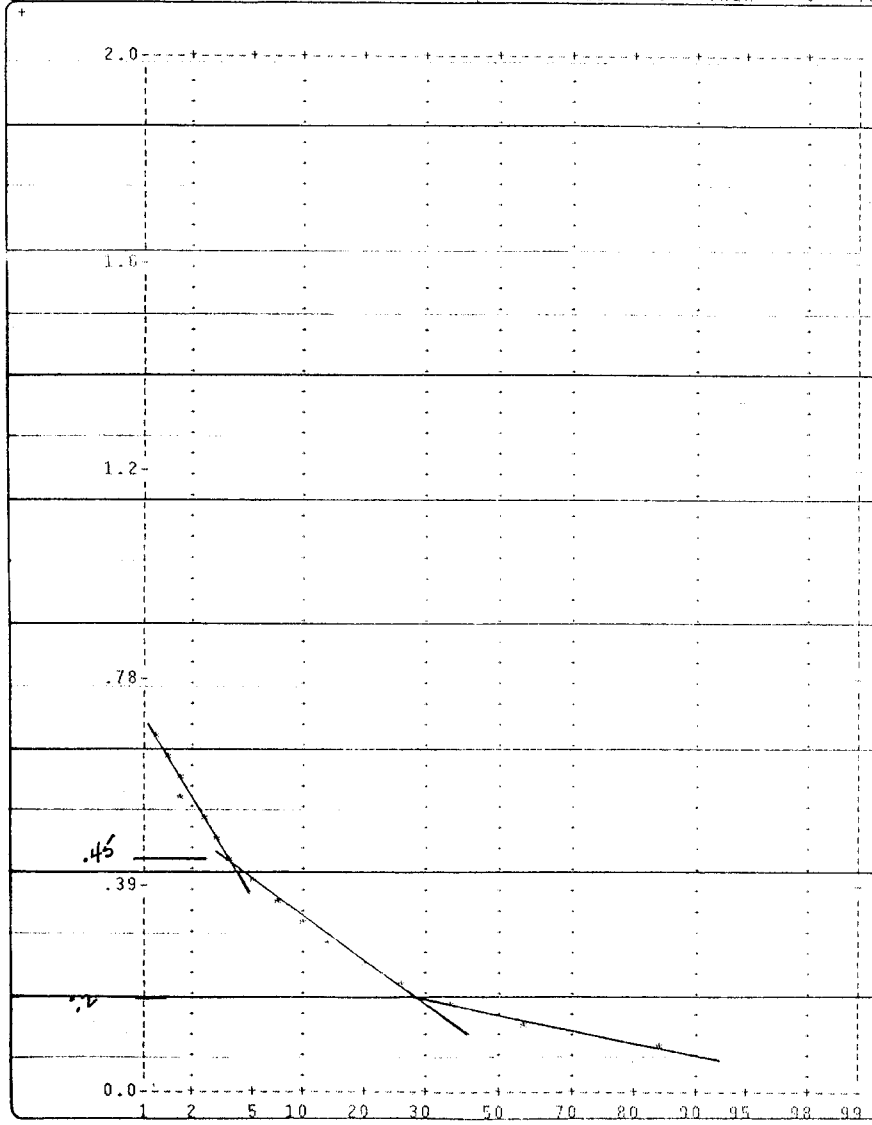
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
550.00	0	.000	.000
539.00	0	.000	.000
528.00	1	.001	.001
517.00	1	.001	.001
506.00	1	.001	.002
495.00	2	.001	.003
484.00	1	.001	.003
473.00	3	.002	.005
462.00	2	.001	.006
451.00	1	.001	.007
440.00	1	.001	.007
429.00	2	.001	.009
418.00	1	.001	.009
407.00	2	.001	.010
396.00	1	.001	.011
385.00	1	.001	.011
374.00	2	.001	.013
363.00	3	.002	.014
352.00	3	.002	.016
341.00	6	.003	.019
330.00	5	.003	.022
319.00	7	.004	.026
308.00	8	.005	.031
297.00	5	.003	.034
286.00	14	.008	.042
275.00	11	.006	.048
264.00	6	.003	.052
253.00	10	.006	.057
242.00	10	.006	.063
231.00	13	.007	.070
220.00	18	.010	.081
209.00	24	.014	.095
198.00	25	.014	.109
187.00	17	.010	.119
176.00	28	.016	.135
165.00	22	.013	.147
154.00	21	.012	.159
143.00	20	.011	.171
132.00	14	.008	.179
121.00	21	.012	.191
110.00	24	.014	.204
99.000	36	.021	.225
88.000	69	.040	.265
77.000	123	.070	.335
66.000	218	.125	.460
55.000	323	.185	.645
44.000	294	.168	.813
33.000	220	.126	.939
22.000	76	.044	.983
11.000	30	.017	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:51:50

file: soil.asy Field name: K LOG =0 REPVAL = .00100

MIN = .00000 MAX = 1.9500 MEAN = .13302 STD DEV = .13747
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



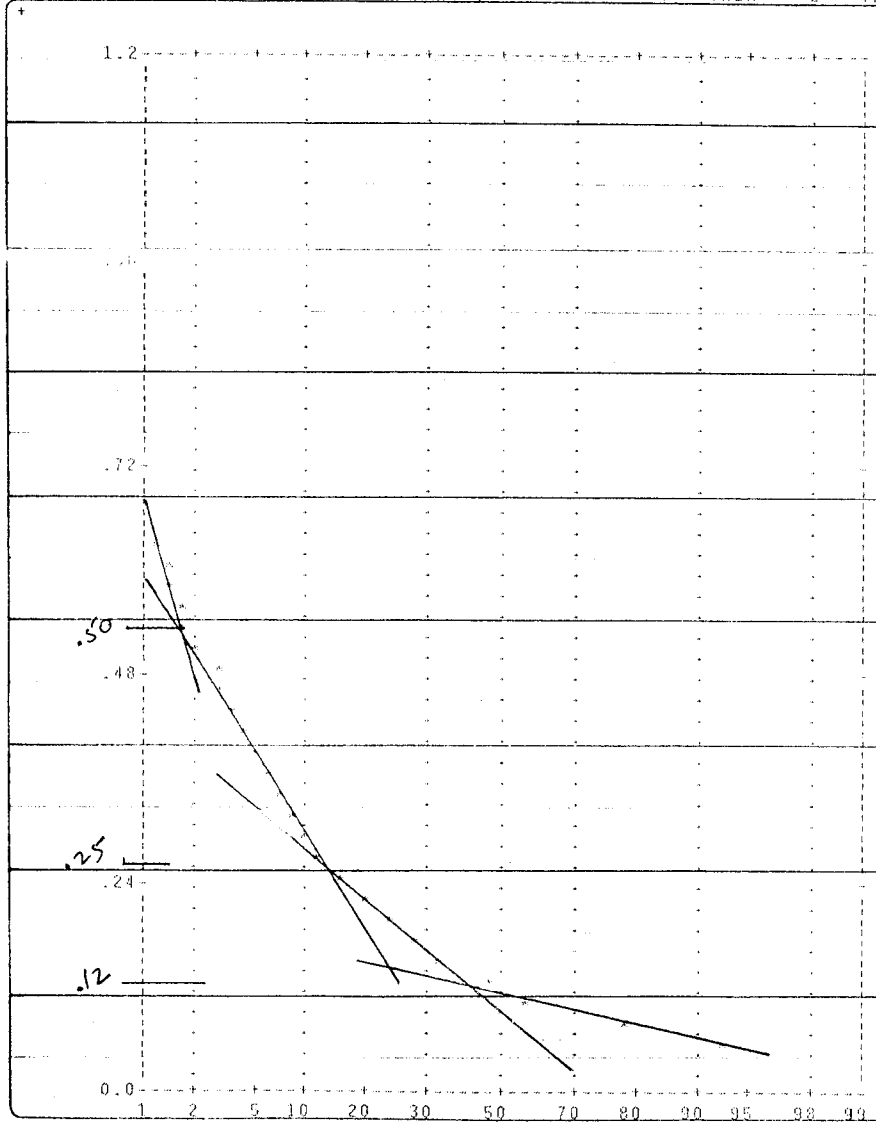
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
1.9500	1	.001	.001
1.9110	0	.000	.001
1.8720	0	.000	.001
1.8330	0	.000	.001
1.7940	0	.000	.001
1.7550	0	.000	.001
1.7160	0	.000	.001
1.6770	0	.000	.001
1.6380	0	.000	.001
1.5990	0	.000	.001
1.5600	0	.000	.001
1.5210	0	.000	.001
1.4820	0	.000	.001
1.4430	0	.000	.001
1.4040	0	.000	.001
1.3650	0	.000	.001
1.3260	1	.001	.001
1.2870	0	.000	.001
1.2480	0	.000	.001
1.2090	0	.000	.001
1.1700	0	.000	.001
1.1310	1	.001	.002
1.0920	1	.001	.002
1.0530	1	.001	.003
1.0140	0	.000	.003
.97500	0	.000	.003
.93600	0	.000	.003
.89700	0	.000	.003
.85800	2	.001	.004
.81900	1	.001	.005
.78000	3	.002	.006
.74100	5	.003	.009
.70200	2	.001	.010
.66300	4	.002	.013
.62400	7	.004	.017
.58500	6	.003	.020
.54600	4	.002	.022
.50700	16	.009	.031
.46800	11	.006	.038
.42900	15	.009	.046
.39000	26	.015	.061
.35100	28	.016	.077
.31200	52	.030	.107
.27300	55	.031	.138
.23400	96	.055	.193
.19500	151	.086	.279
.15600	195	.111	.391
.11700	350	.200	.591
.78000E-01	482	.275	.866
.39000E-01	234	.134	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:51:50

file: soil.asy Field name: K LOG =0 REPVAL = .00100

MIN = .00000 MAX = 1.9500 MEAN = .13302 STD DEV = .13747
NUMBER OF DATA PLOTTED = 1748 (0 NULLS 0 < YMIN 2 > YMAX)



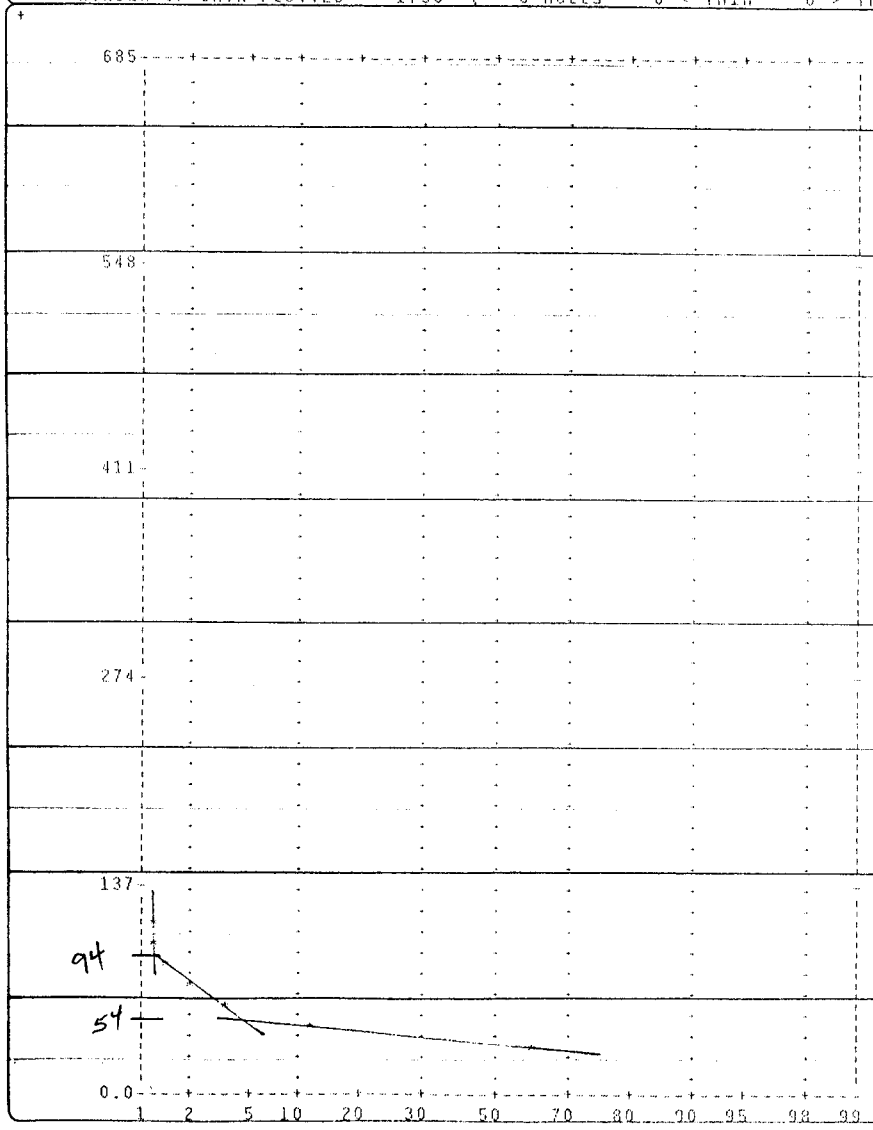
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
1.2000	0	.000	.000
1.1760	0	.000	.000
1.1520	0	.000	.000
1.1280	1	.001	.001
1.1040	1	.001	.001
1.0800	0	.000	.001
1.0560	1	.001	.002
1.0320	0	.000	.002
1.0080	0	.000	.002
.98400	0	.000	.002
.96000	0	.000	.002
.93600	0	.000	.002
.91200	0	.000	.002
.88800	0	.000	.002
.86400	1	.001	.002
.84000	1	.001	.003
.81600	0	.000	.003
.79200	4	.002	.005
.76800	0	.000	.005
.74400	1	.001	.006
.72000	5	.003	.009
.69600	1	.001	.009
.67200	2	.001	.010
.64800	2	.001	.011
.62400	5	.003	.014
.60000	3	.002	.016
.57600	3	.002	.018
.55200	3	.002	.019
.52800	3	.002	.021
.50400	6	.003	.025
.48000	15	.009	.033
.45600	6	.003	.037
.43200	10	.006	.042
.40800	11	.006	.049
.38400	12	.007	.055
.36000	20	.011	.067
.33600	16	.009	.076
.31200	32	.018	.094
.28800	34	.019	.114
.26400	23	.013	.127
.24000	55	.031	.158
.21600	59	.034	.192
.19200	112	.064	.256
.16800	79	.045	.301
.14400	91	.052	.354
.12000	209	.120	.473
.96000E-01	205	.117	.590
.72000E-01	363	.208	.798
.48000E-01	224	.128	.926
.24000E-01	129	.074	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:51:50

file: soil.asy Field name: LA LOG =0 REPVAL = .00100

MIN = .00000 MAX = 685.00 MEAN = 18.887 STD DEV = 28.164
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



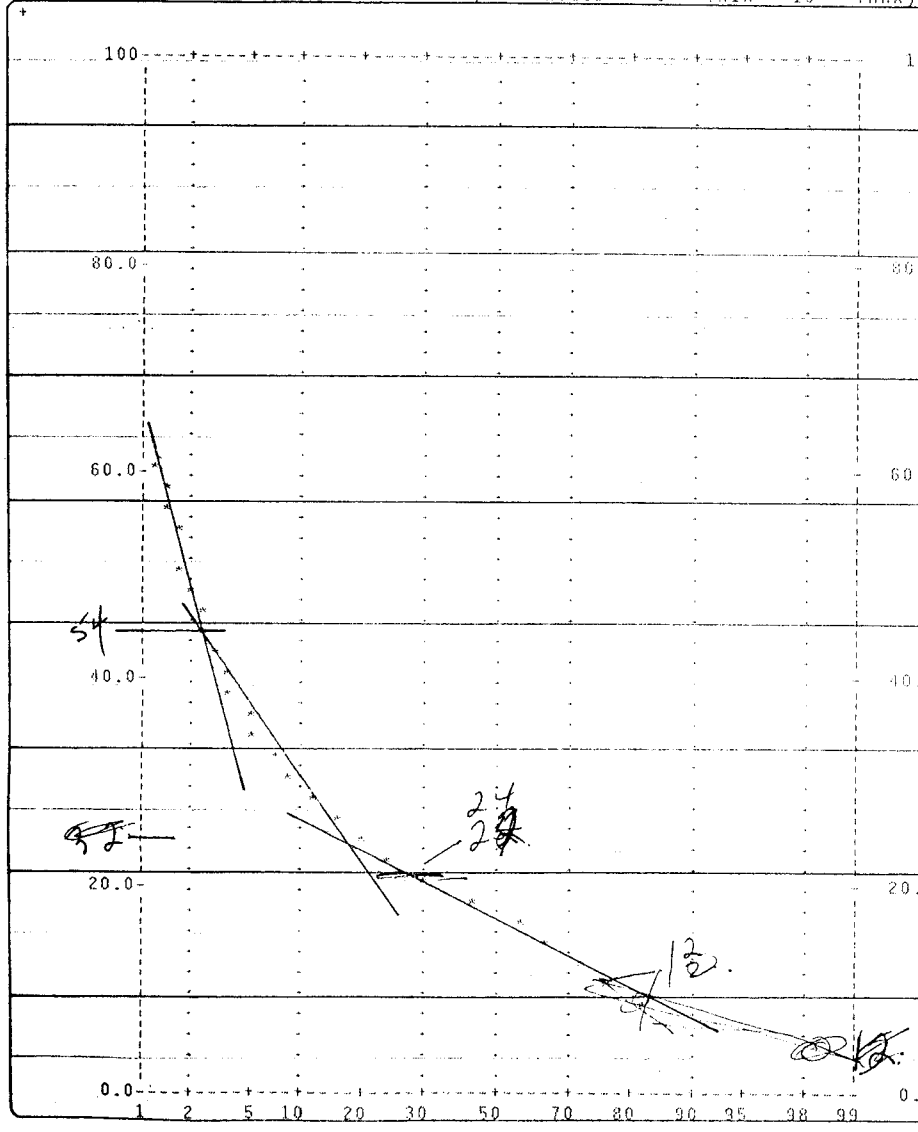
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
685.00	1	.001	.001
671.30	0	.000	.001
657.60	0	.000	.001
643.90	0	.000	.001
630.20	1	.001	.001
616.50	0	.000	.001
602.80	0	.000	.001
589.10	0	.000	.001
575.40	0	.000	.001
561.70	0	.000	.001
548.00	0	.000	.001
534.30	0	.000	.001
520.60	0	.000	.001
506.90	0	.000	.001
493.20	0	.000	.001
479.50	0	.000	.001
465.80	0	.000	.001
452.10	0	.000	.001
438.40	0	.000	.001
424.70	0	.000	.001
411.00	0	.000	.001
397.30	0	.000	.001
383.60	0	.000	.001
369.90	0	.000	.001
356.20	0	.000	.001
342.50	1	.001	.002
328.80	0	.000	.002
315.10	0	.000	.002
301.40	0	.000	.002
287.70	0	.000	.002
274.00	0	.000	.002
260.30	0	.000	.002
246.60	1	.001	.002
232.90	0	.000	.002
219.20	0	.000	.002
205.50	0	.000	.002
191.80	2	.001	.003
178.10	1	.001	.004
164.40	1	.001	.005
150.70	0	.000	.005
137.00	2	.001	.006
123.30	5	.003	.009
109.60	7	.004	.013
95.900	3	.002	.014
82.200	7	.004	.018
68.500	15	.009	.027
54.800	32	.018	.045
41.100	123	.070	.115
27.400	879	.502	.618
13.700	669	.382	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:51:50

file: soil.asy Field name: LA LOG =0 REPVAL = .00100

MIN = .00000 MAX = 685.00 MEAN = 18.887 STD DEV = 28.164
NUMBER OF DATA PLOTTED = 1731 (0 NULLS 0 < YMIN 19 > YMAX)



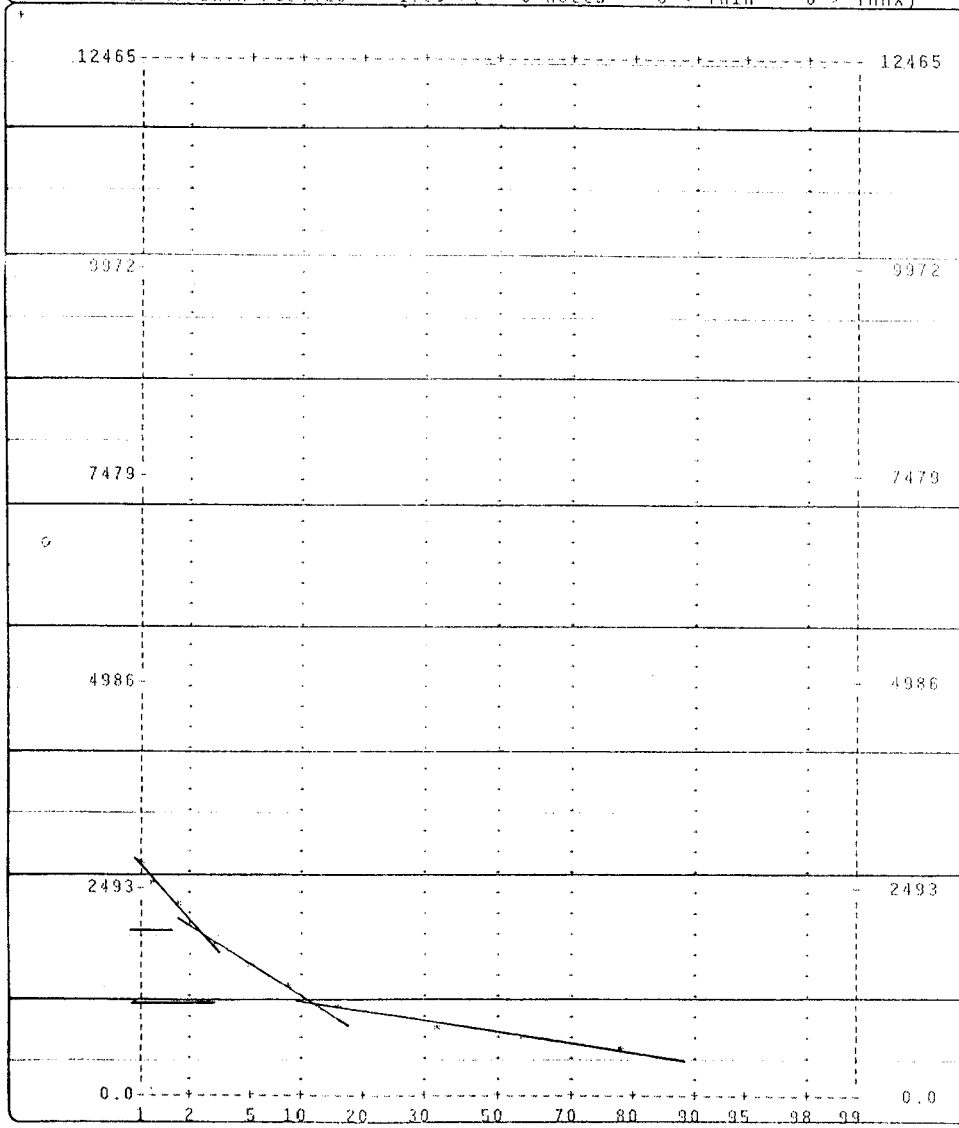
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
100.00	1	.001	.001
98.000	2	.001	.002
96.000	0	.000	.002
94.000	0	.000	.002
92.000	0	.000	.002
90.000	1	.001	.002
88.000	1	.001	.003
86.000	1	.001	.003
84.000	0	.000	.003
82.000	1	.001	.004
80.000	0	.000	.004
78.000	2	.001	.005
76.000	1	.001	.006
74.000	0	.000	.006
72.000	1	.001	.006
70.000	2	.001	.008
68.000	2	.001	.009
66.000	2	.001	.010
64.000	3	.002	.012
62.000	1	.001	.012
60.000	4	.002	.014
58.000	2	.001	.016
56.000	1	.001	.016
54.000	5	.003	.019
52.000	0	.000	.019
50.000	5	.003	.022
48.000	5	.003	.025
46.000	7	.004	.029
44.000	8	.003	.032
42.000	8	.005	.037
40.000	4	.002	.039
38.000	11	.006	.046
36.000	18	.010	.056
34.000	11	.006	.062
32.000	22	.013	.075
30.000	38	.022	.097
28.000	46	.027	.124
26.000	51	.029	.153
24.000	83	.048	.201
22.000	103	.060	.261
20.000	140	.081	.341
18.000	182	.105	.447
16.000	209	.121	.567
14.000	146	.084	.652
12.000	117	.068	.719
10.000	95	.055	.774
8.0000	125	.072	.846
6.0000	124	.072	.918
4.0000	114	.066	.984
2.0000	28	.016	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:51:50

file: soil.asy Field name: MN LOG =0 REPVAL = .00100

MIN = .00000 MAX = 12465. MEAN = 537.03 STD DEV = 592.75
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



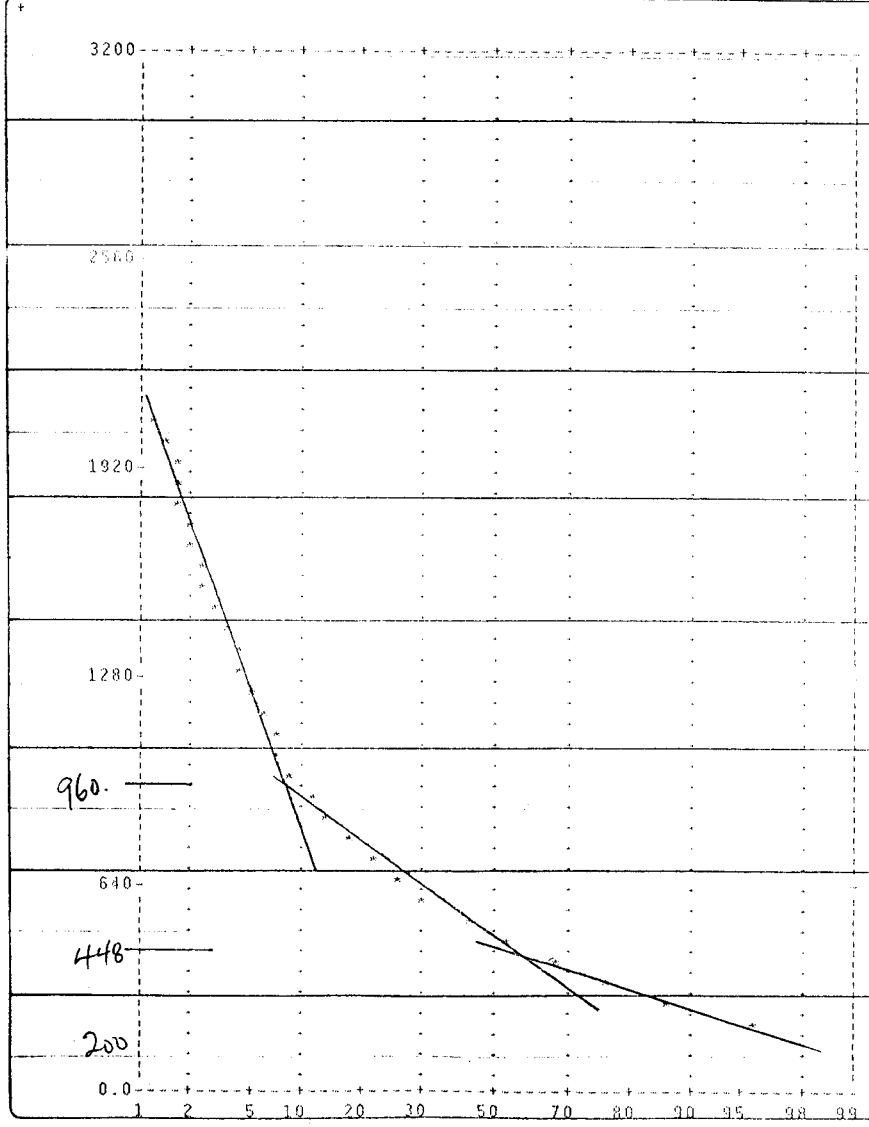
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
12465.	1	.001	.001
12216.	0	.000	.001
11966.	0	.000	.001
11717.	0	.000	.001
11468.	0	.000	.001
11219.	0	.000	.001
10969.	0	.000	.001
10720.	0	.000	.001
10471.	0	.000	.001
10223.	0	.000	.001
9972.0	0	.000	.001
9722.7	0	.000	.001
9473.4	0	.000	.001
9224.1	1	.001	.001
8974.8	0	.000	.001
8725.5	0	.000	.001
8476.2	0	.000	.001
8226.9	0	.000	.001
7977.6	0	.000	.001
7728.3	0	.000	.001
7479.0	0	.000	.001
7229.7	0	.000	.001
6980.4	0	.000	.001
6731.1	0	.000	.001
6481.8	0	.000	.001
6232.5	0	.000	.001
5983.2	1	.001	.002
5733.9	1	.001	.002
5484.6	1	.001	.003
5235.3	0	.000	.003
4986.0	0	.000	.003
4736.7	1	.001	.003
4487.4	1	.001	.004
4238.1	0	.000	.004
3988.8	0	.000	.004
3739.5	3	.002	.006
3490.2	0	.000	.006
3240.9	0	.000	.006
2991.6	4	.002	.008
2742.3	6	.003	.011
2493.0	6	.003	.015
2243.7	9	.005	.020
1994.4	12	.007	.027
1745.1	14	.008	.035
1495.8	38	.022	.057
1246.5	57	.033	.089
997.20	116	.066	.155
747.90	353	.202	.357
498.60	778	.445	.802
249.30	347	.198	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:51:50

file: soil.asy Field name: MN LOG =0 REPVAL = .00100

MIN = .00000 MAX = 12465. MEAN = 537.03 STD DEV = 592.75
NUMBER OF DATA PLOTTED = 1740 (0 NULLS 0 < YMIN 10 > YMAX)



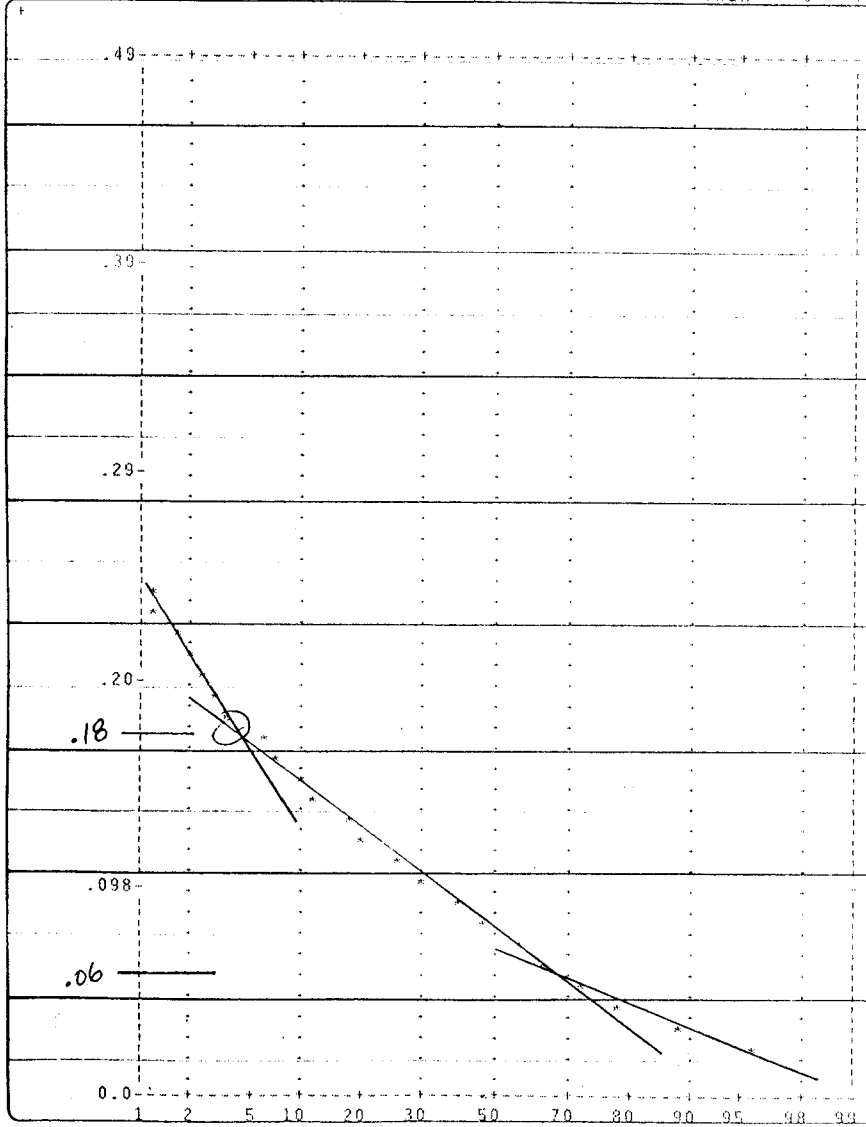
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
3200.0	0	.000	.000
3136.0	0	.000	.000
3072.0	0	.000	.000
3008.0	1	.001	.001
2944.0	0	.000	.001
2880.0	2	.001	.002
2816.0	1	.001	.002
2752.0	1	.001	.003
2688.0	1	.001	.003
2624.0	4	.002	.006
2560.0	0	.000	.006
2496.0	1	.001	.006
2432.0	2	.001	.007
2368.0	1	.001	.008
2304.0	2	.001	.009
2240.0	0	.000	.009
2176.0	2	.001	.010
2112.0	3	.002	.012
2048.0	4	.002	.014
1984.0	5	.003	.017
1920.0	3	.002	.019
1856.0	1	.001	.020
1792.0	3	.002	.021
1728.0	4	.002	.024
1664.0	3	.002	.025
1600.0	4	.002	.028
1536.0	7	.004	.032
1472.0	9	.005	.037
1408.0	9	.005	.042
1344.0	10	.006	.048
1280.0	11	.006	.054
1216.0	11	.006	.060
1152.0	15	.009	.069
1088.0	20	.011	.080
1024.0	11	.006	.087
960.00	20	.011	.098
896.00	41	.024	.122
832.00	36	.021	.143
768.00	54	.031	.174
704.00	80	.046	.220
640.00	92	.053	.272
576.00	112	.064	.337
512.00	175	.101	.437
448.00	192	.110	.548
384.00	223	.128	.676
320.00	192	.110	.786
256.00	163	.094	.880
192.00	139	.080	.960
128.00	51	.029	.989
64.000	19	.011	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:51:50

file: soil.asy Field name: TI LOG =0 REPVAL = .00100

MIN = .00000 MAX = .49000 MEAN = .71528E-01 STD DEV = .51907E-01
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



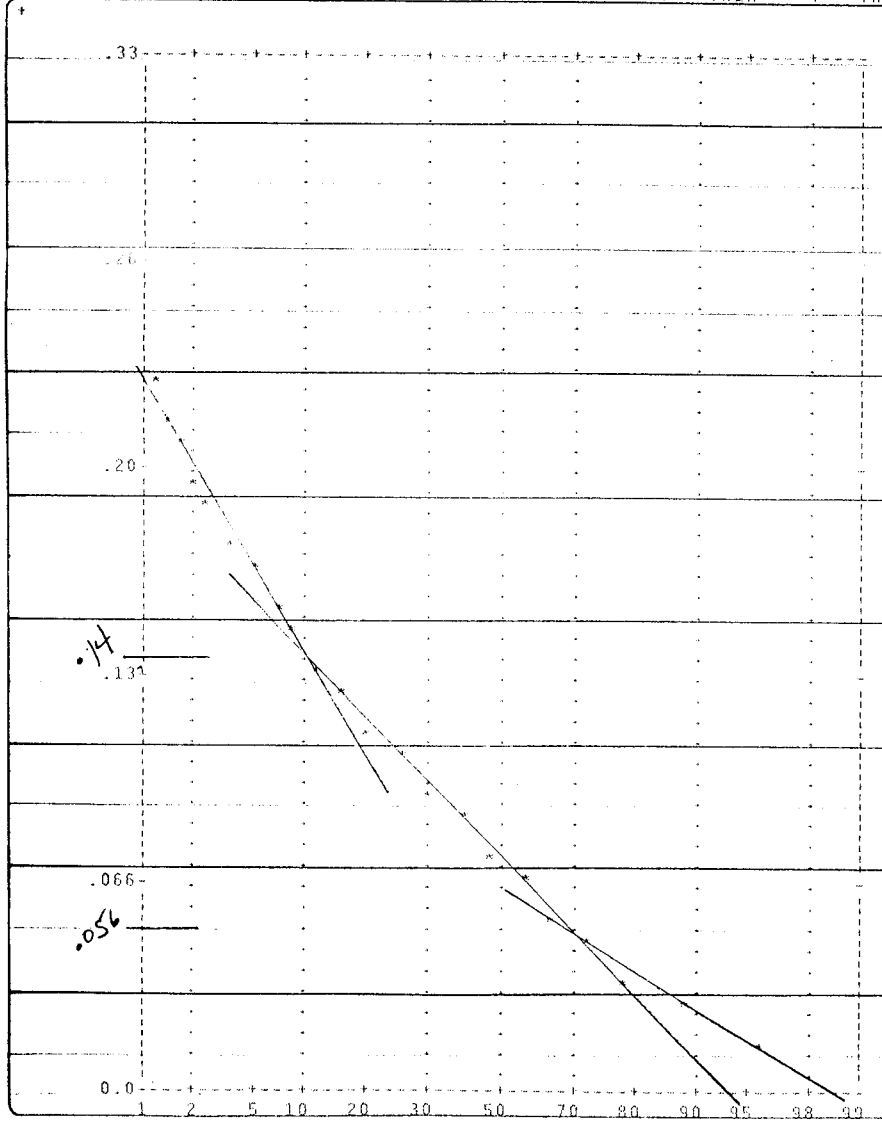
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
.49000	1	.001	.001
.48020	0	.000	.001
.47040	0	.000	.001
.46060	0	.000	.001
.45080	0	.000	.001
.44100	0	.000	.001
.43120	0	.000	.001
.42140	0	.000	.001
.41160	1	.001	.001
.40180	0	.000	.001
.39200	1	.001	.002
.38220	0	.000	.002
.37240	0	.000	.002
.36260	0	.000	.002
.35280	0	.000	.002
.34300	1	.001	.002
.33320	1	.001	.003
.32340	1	.001	.003
.31360	2	.001	.005
.30380	0	.000	.005
.29400	1	.001	.005
.28420	0	.000	.005
.27440	1	.001	.006
.26460	3	.002	.007
.25480	2	.001	.009
.24500	2	.001	.010
.23520	5	.003	.013
.22540	4	.002	.015
.21560	7	.004	.019
.20580	10	.006	.025
.19600	6	.003	.028
.18620	10	.006	.034
.17640	18	.010	.044
.16660	36	.021	.065
.15680	31	.018	.082
.14700	33	.019	.101
.13720	44	.025	.126
.12740	75	.043	.169
.11760	74	.042	.211
.10780	107	.061	.273
.98000E-01	116	.066	.339
.88200E-01	132	.075	.414
.78400E-01	120	.069	.483
.68600E-01	158	.090	.573
.58800E-01	137	.078	.651
.49000E-01	147	.084	.735
.39200E-01	122	.070	.805
.29400E-01	156	.089	.894
.19600E-01	111	.063	.958
.98000E-02	74	.042	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:51:50

file: soil.asy Field name: II LOG =0 REPVAL = .00100

MIN = .00000 MAX = .49000 MEAN = .71528E-01 STD DEV = .51907E-01
NUMBER OF DATA PLOTTED = 1746 (0 NULLS 0 < YMIN 4 > YMAX)



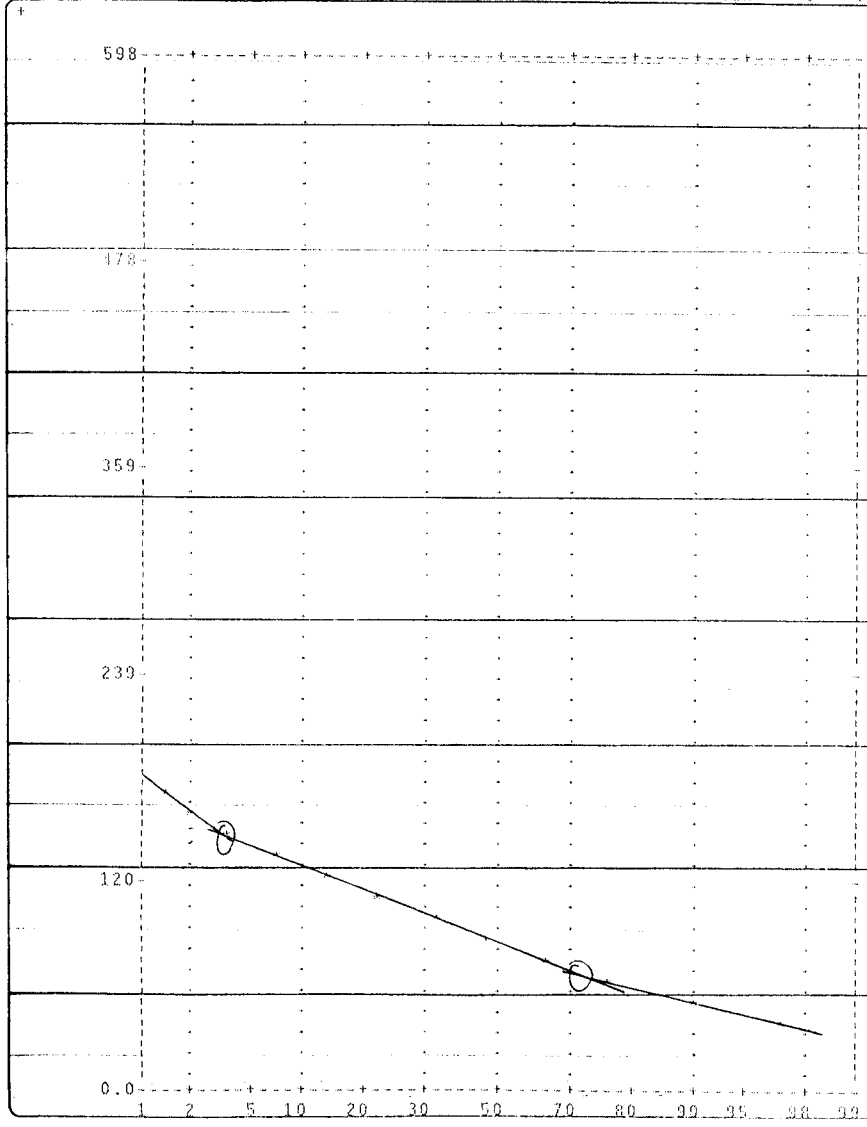
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
.33000	1	.001	.001
.32340	1	.001	.001
.31680	0	.000	.001
.31020	2	.001	.002
.30360	0	.000	.002
.29700	0	.000	.002
.29040	1	.001	.003
.28380	0	.000	.003
.27720	0	.000	.003
.27060	1	.001	.003
.26400	3	.002	.005
.25740	0	.000	.005
.25080	2	.001	.006
.24420	2	.001	.007
.23760	0	.000	.007
.23100	5	.003	.010
.22440	4	.002	.013
.21780	0	.000	.013
.21120	7	.004	.017
.20460	10	.006	.022
.19800	0	.000	.022
.19140	6	.003	.026
.18480	10	.006	.032
.17820	0	.000	.032
.17160	18	.010	.042
.16500	36	.021	.062
.15840	0	.000	.062
.15180	31	.018	.080
.14520	33	.019	.099
.13860	0	.000	.099
.13200	44	.025	.124
.12540	75	.043	.167
.11880	0	.000	.167
.11220	74	.042	.210
.10560	107	.061	.271
.99000E-01	0	.000	.271
.92400E-01	116	.066	.337
.85800E-01	132	.076	.413
.79200E-01	0	.000	.413
.72600E-01	120	.069	.482
.66000E-01	158	.090	.572
.59400E-01	0	.000	.572
.52800E-01	137	.078	.651
.46200E-01	147	.084	.735
.39600E-01	0	.000	.735
.33000E-01	122	.070	.805
.26400E-01	156	.089	.894
.19800E-01	0	.000	.894
.13200E-01	111	.064	.958
.66000E-02	74	.042	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:51:50

file: soil.asy Field name: V LOG =0 REPVAL = .00100

MIN = .00000 MAX = 598.00 MEAN = 73.971 STD DEV = 34.437
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < YMIN 0 > YMAX)



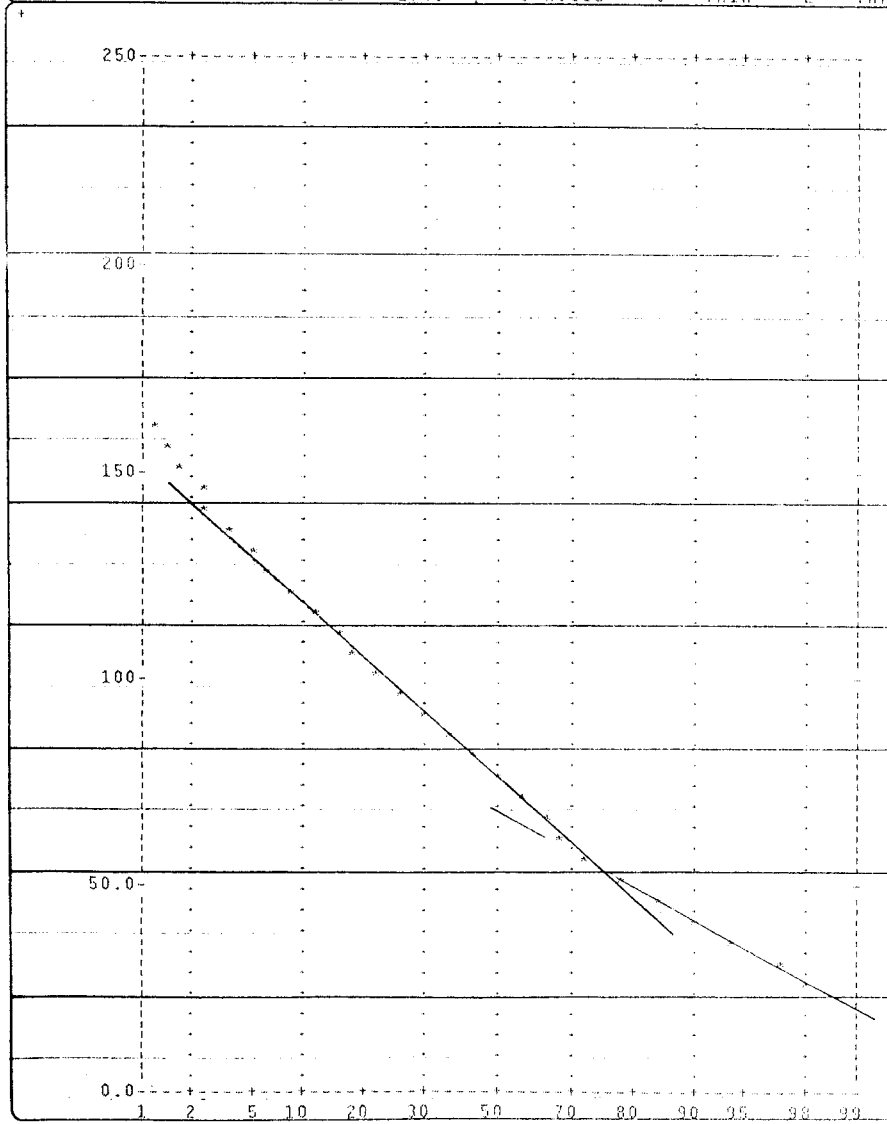
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
598.00	1	.001	.001
586.04	0	.000	.001
574.08	0	.000	.001
562.12	0	.000	.001
550.16	0	.000	.001
538.20	0	.000	.001
526.24	0	.000	.001
514.28	0	.000	.001
502.32	0	.000	.001
490.36	0	.000	.001
478.40	0	.000	.001
466.44	0	.000	.001
454.48	0	.000	.001
442.52	0	.000	.001
430.56	0	.000	.001
418.60	0	.000	.001
406.64	0	.000	.001
394.68	0	.000	.001
382.72	0	.000	.001
370.76	0	.000	.001
358.80	0	.000	.001
346.84	0	.000	.001
334.88	0	.000	.001
322.92	0	.000	.001
310.96	0	.000	.001
299.00	1	.001	.001
287.04	0	.000	.001
275.08	0	.000	.001
263.12	0	.000	.001
251.16	0	.000	.001
239.20	1	.001	.002
227.24	1	.001	.002
215.28	1	.001	.003
203.32	2	.001	.004
191.36	3	.002	.006
179.40	8	.005	.010
167.44	9	.005	.015
155.48	17	.010	.025
143.52	32	.018	.043
131.56	58	.033	.077
119.60	112	.064	.141
107.64	149	.085	.226
95.680	218	.125	.350
83.720	255	.146	.496
71.760	256	.146	.642
59.800	218	.125	.767
47.840	242	.138	.905
35.880	118	.067	.973
23.920	38	.022	.994
11.960	10	.006	1.000
.00000	0	.000	1.000

PROPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:51:50

file: soil.asy Field name: V LOG =0 REPVAL = .00100

MIN = .00000 MAX = 598.00 MEAN = 73.971 STD DEV = 34.437
NUMBER OF DATA PLOTTED = 1748 (0 NULLS 0 < YMIN 2 > YMAX)



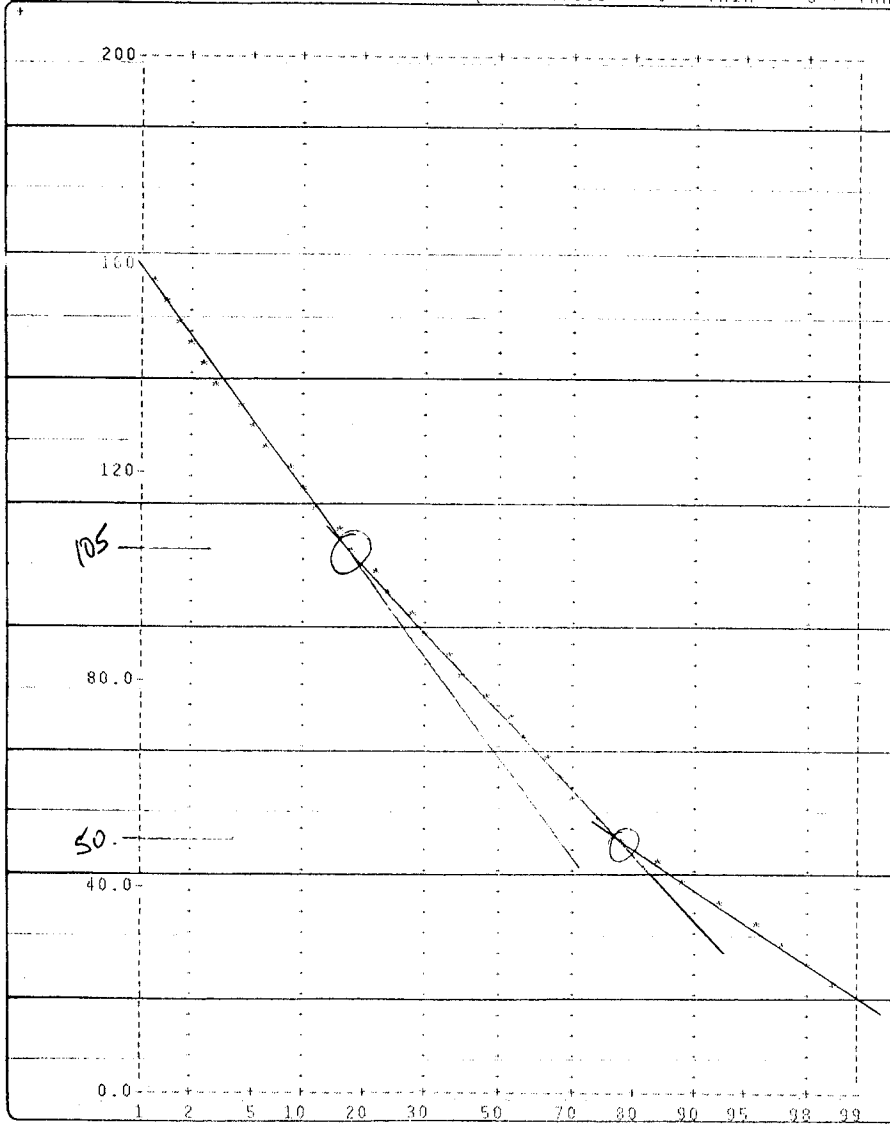
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
250.00	0	.000	.000
245.00	0	.000	.000
240.00	0	.000	.000
235.00	0	.000	.000
230.00	1	.001	.001
225.00	0	.000	.001
220.00	1	.001	.001
215.00	0	.000	.001
210.00	0	.000	.001
205.00	1	.001	.002
200.00	2	.001	.003
195.00	0	.000	.003
190.00	2	.001	.004
185.00	1	.001	.005
180.00	3	.002	.006
175.00	3	.002	.008
170.00	3	.002	.010
165.00	3	.002	.011
160.00	5	.003	.014
155.00	6	.003	.018
150.00	8	.005	.022
145.00	9	.005	.027
140.00	9	.005	.033
135.00	21	.012	.045
130.00	22	.013	.057
125.00	28	.016	.073
120.00	36	.021	.094
115.00	45	.026	.120
110.00	54	.031	.150
105.00	58	.033	.184
100.00	72	.041	.225
95.000	83	.047	.272
90.000	101	.058	.330
85.000	97	.055	.386
80.000	109	.062	.448
75.000	105	.060	.508
70.000	116	.066	.574
65.000	101	.058	.632
60.000	81	.046	.678
55.000	92	.053	.731
50.000	104	.059	.791
45.000	115	.066	.856
40.000	85	.049	.905
35.000	67	.038	.943
30.000	44	.025	.969
25.000	18	.010	.979
20.000	16	.009	.988
15.000	14	.008	.996
10.000	6	.003	.999
5.0000	1	.001	1.000
.00000	0	.000	1.000

PRBPLT: V272 KOMA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:51:50

file: soil.asy Field name: V LOG =0 REPVAL = .00100

MIN = .00000 MAX = 598.00 MEAN = 73.971 STD DEV = 34.437
NUMBER OF DATA PLOTTED = 1745 (0 NULLS 0 < YMIN 5 > YMAX)



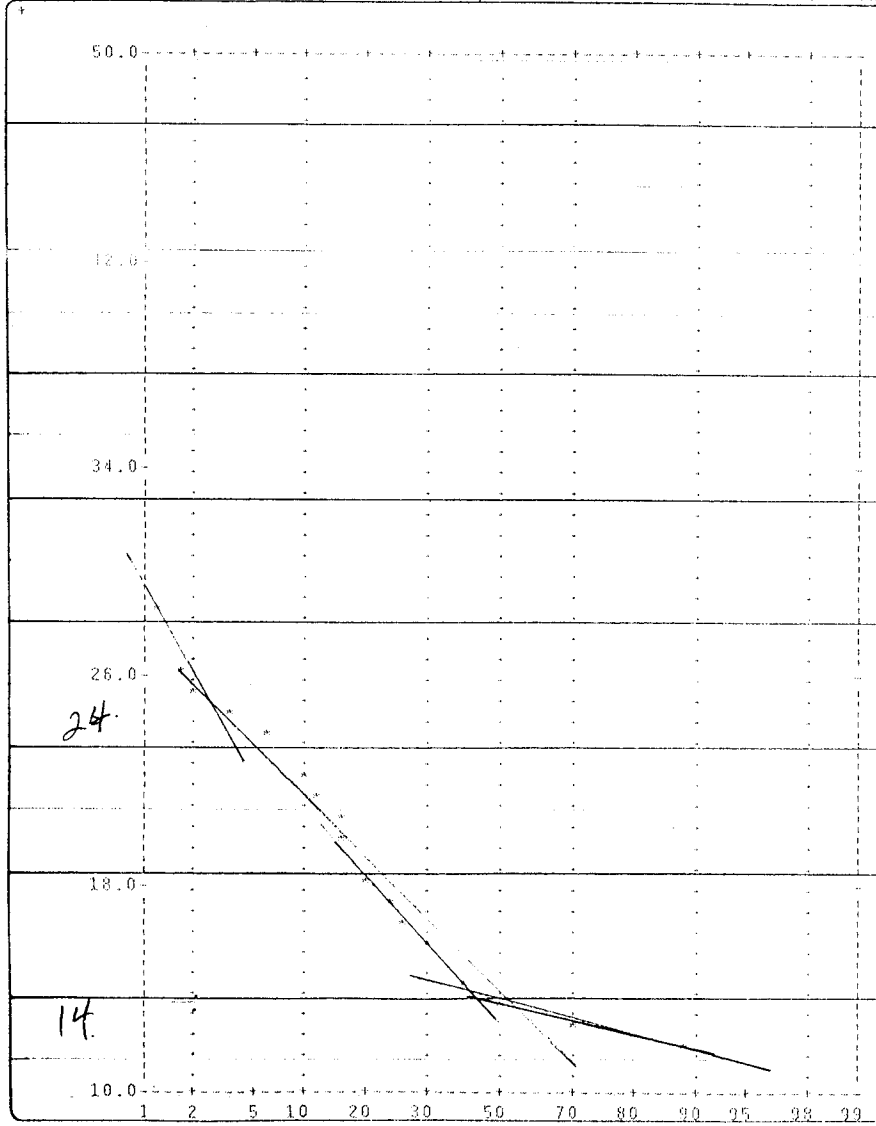
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
200.00	2	.001	.001
196.00	0	.000	.001
192.00	2	.001	.002
188.00	0	.000	.002
184.00	1	.001	.003
180.00	2	.001	.004
176.00	2	.001	.005
172.00	4	.002	.007
168.00	3	.002	.009
164.00	1	.001	.010
160.00	4	.002	.012
156.00	5	.003	.015
152.00	4	.002	.017
148.00	8	.005	.022
144.00	7	.004	.026
140.00	7	.004	.030
136.00	13	.007	.037
132.00	18	.010	.048
128.00	19	.011	.058
124.00	23	.013	.072
120.00	33	.019	.091
116.00	28	.016	.107
112.00	41	.023	.130
108.00	45	.026	.156
104.00	46	.026	.182
100.00	55	.032	.214
96.000	68	.039	.253
92.000	69	.040	.292
88.000	80	.046	.338
84.000	81	.046	.385
80.000	87	.050	.434
76.000	80	.046	.480
72.000	105	.060	.540
68.000	75	.043	.583
64.000	84	.048	.632
60.000	66	.038	.669
56.000	69	.040	.709
52.000	79	.045	.754
48.000	93	.053	.807
44.000	85	.049	.856
40.000	69	.040	.896
36.000	55	.032	.927
32.000	49	.028	.955
28.000	29	.017	.972
24.000	12	.007	.979
20.000	11	.006	.985
16.000	14	.008	.993
12.000	9	.005	.998
8.0000	2	.001	.999
4.0000	1	.001	1.000
.00000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GROX,Y ARE INTERPOLATED COORDS RUN ON 91:10:04 AT 10:51:50

file: soil.asy Field name: W LOG =0 REPVAL = .00100

MIN = .00000 MAX = 215.00 MEAN = 6.2966 STD DEV = 6.9834
NUMBER OF DATA PLOTTED = 197 (0 NULLS 1550 < YMIN 3 > YMAX)



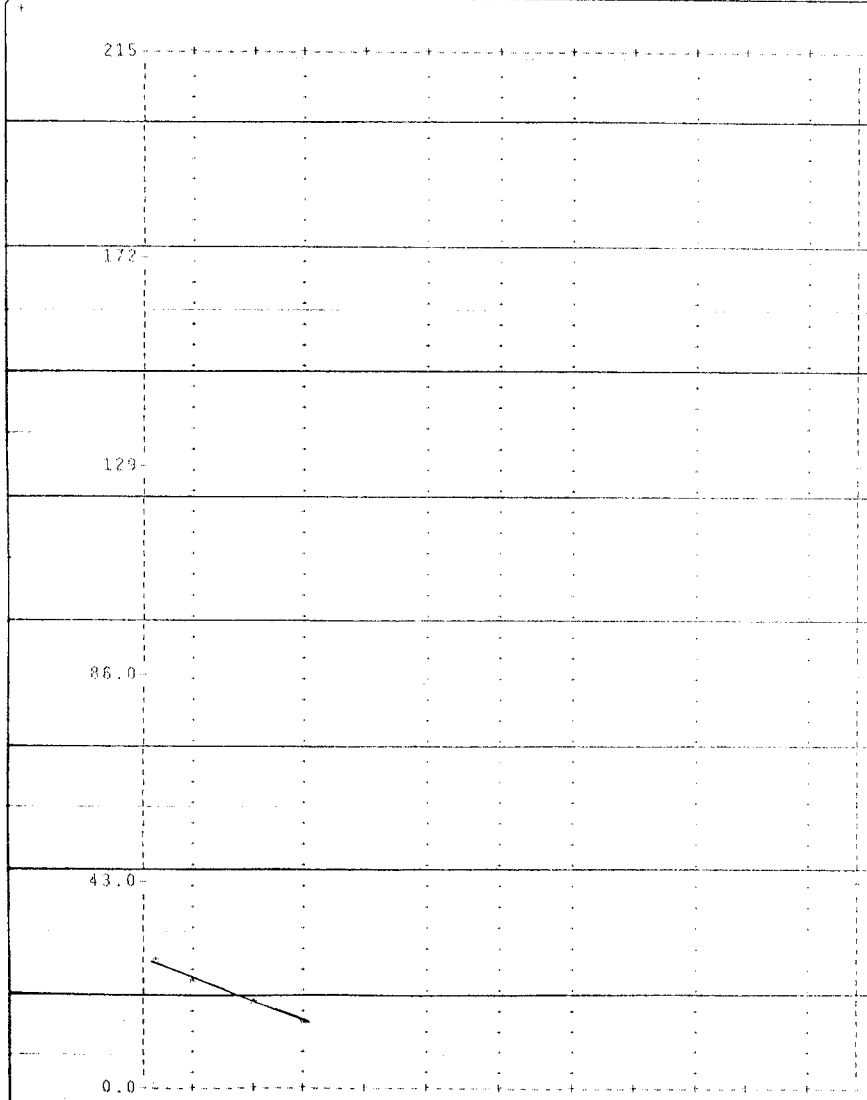
CLASSIFICATION TABLE

Max Val	Nval	Freq	Cum Freq
50.000	0	.000	.000
49.200	1	.005	.005
48.400	0	.000	.005
47.600	0	.000	.005
46.800	0	.000	.005
46.000	0	.000	.005
45.200	0	.000	.005
44.400	0	.000	.005
43.600	0	.000	.005
42.800	0	.000	.005
42.000	0	.000	.005
41.200	0	.000	.005
40.400	0	.000	.005
39.600	0	.000	.005
38.800	0	.000	.005
38.000	0	.000	.005
37.200	0	.000	.005
36.400	0	.000	.005
35.600	0	.000	.005
34.800	0	.000	.005
34.000	0	.000	.005
33.200	0	.000	.005
32.400	0	.000	.005
31.600	0	.000	.005
30.800	0	.000	.005
30.000	0	.000	.005
29.200	0	.000	.005
28.400	2	.010	.015
27.600	0	.000	.015
26.800	0	.000	.015
26.000	1	.005	.020
25.200	1	.005	.025
24.400	3	.015	.041
23.600	5	.025	.066
22.800	0	.000	.066
22.000	8	.041	.107
21.200	4	.020	.127
20.400	5	.025	.152
19.600	3	.015	.168
18.800	0	.000	.168
18.000	5	.025	.193
17.200	10	.051	.244
16.400	7	.036	.279
15.600	11	.056	.335
14.800	0	.000	.335
14.000	17	.086	.421
13.200	19	.096	.518
12.400	33	.168	.685
11.600	41	.208	.893
10.800	21	.107	1.000
10.000	0	.000	1.000

PRBPLT: V272 KONA SOIL GRID - GRDX,Y ARE INTERPOLATED COORDS RUN ON 91/10:04 AT 10:51:50

file: soil.asy Field name: W LOG =0 REPUNI = .00100

MIN = .00000 MAX = 215.00 MEAN = 6.2966 STD DEV = 6.0834
NUMBER OF DATA PLOTTED = 1750 (0 NULLS 0 < VMIN 0 > VMAX)



CLASSIFICATION TABLE

Max Val	Mval	Freq	Cum Freq
215.00	1	.001	.001
210.70	0	.000	.001
206.40	0	.000	.001
202.10	0	.000	.001
197.80	0	.000	.001
193.50	0	.000	.001
189.20	0	.000	.001
184.90	0	.000	.001
180.60	0	.000	.001
176.30	0	.000	.001
172.00	0	.000	.001
167.70	0	.000	.001
163.40	0	.000	.001
159.10	0	.000	.001
154.80	0	.000	.001
150.50	0	.000	.001
146.20	0	.000	.001
141.90	0	.000	.001
137.60	0	.000	.001
133.30	0	.000	.001
129.00	0	.000	.001
124.70	0	.000	.001
120.40	0	.000	.001
116.10	1	.001	.001
111.80	0	.000	.001
107.50	1	.001	.002
103.20	0	.000	.002
98.900	0	.000	.002
94.600	0	.000	.002
90.300	0	.000	.002
86.000	0	.000	.002
81.700	0	.000	.002
77.400	0	.000	.002
73.100	0	.000	.002
68.800	0	.000	.002
64.500	0	.000	.002
60.200	0	.000	.002
55.900	0	.000	.002
51.600	1	.001	.002
47.300	0	.000	.002
43.000	0	.000	.002
38.700	0	.000	.002
34.400	0	.000	.002
30.100	3	.002	.004
25.800	17	.010	.014
21.500	17	.010	.023
17.200	64	.037	.060
12.900	95	.054	.114
8.6000	1549	.885	.999
4.3000	1	.001	1.000
.00000	0	.000	1.000

APPENDIX V

GROUND MAGNETIC DATA

BY

GRID LINE AND STATION

$$DATA$$ 3 3539 1 99999 91:12:20 bjr
Kona project: magnetometer survey
GRDXGRDYMAG
2 2 1
(3f10.1)

Station	Line	Reading
4070.0	8200.0	59745.5
4080.0	8200.0	59607.9
4090.0	8200.0	58575.0
4100.0	8200.0	58735.7
4110.0	8200.0	58578.1
4120.0	8200.0	58431.6
4130.0	8200.0	58406.7
4140.0	8200.0	58420.1
4150.0	8200.0	58408.0
4160.0	8200.0	58435.2
4170.0	8200.0	58449.4
4180.0	8200.0	58425.5
4190.0	8200.0	58409.8
4200.0	8200.0	58404.4
4210.0	8200.0	58398.9
4220.0	8200.0	58401.4
4230.0	8200.0	58403.3
4240.0	8200.0	58394.0
4250.0	8200.0	58391.1
4260.0	8200.0	58387.4
4270.0	8200.0	58430.9
4280.0	8200.0	58484.0
4290.0	8200.0	58427.7
4300.0	8200.0	58430.4
4310.0	8200.0	58440.5
4320.0	8200.0	58444.8
4330.0	8200.0	58433.9
4340.0	8200.0	58428.2
4350.0	8200.0	58415.9
4360.0	8200.0	58409.1
4370.0	8200.0	58402.9
4380.0	8200.0	58396.0
4390.0	8200.0	58393.7
4400.0	8200.0	58385.4
4410.0	8200.0	58398.4
4420.0	8200.0	58416.1
4430.0	8200.0	58424.2
4440.0	8200.0	58424.0
4450.0	8200.0	58423.8
4460.0	8200.0	58420.8
4470.0	8200.0	58413.8
4480.0	8200.0	58411.1
4490.0	8200.0	58401.5
4500.0	8200.0	58391.7
4510.0	8200.0	58417.0
4520.0	8200.0	58446.5
4530.0	8200.0	58447.7
4540.0	8200.0	58452.0
4550.0	8200.0	58437.4
4560.0	8200.0	58404.6
4570.0	8200.0	58440.7
4580.0	8200.0	58490.3
4590.0	8200.0	58564.0
4600.0	8200.0	58553.8
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4160.0	9800.0	58780.4
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4180.0	9800.0	58815.1
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5150.0	10600.0	58359.2
5160.0	10600.0	58361.0
5170.0	10600.0	58365.8
5180.0	10600.0	58366.6
5190.0	10600.0	58367.0
5200.0	10600.0	58368.6
5210.0	10600.0	58369.3
5220.0	10600.0	58371.4
5230.0	10600.0	58372.5
5240.0	10600.0	58374.3
5250.0	10600.0	58378.7
5260.0	10600.0	58378.0
5270.0	10600.0	58379.3
5280.0	10600.0	58379.6
5290.0	10600.0	58381.9
5300.0	10600.0	58382.3
5310.0	10600.0	58384.9
5320.0	10600.0	58383.9
5330.0	10600.0	58387.4
5340.0	10600.0	58391.0
5350.0	10600.0	58393.1
5360.0	10600.0	58392.5
5370.0	10600.0	58393.0
5380.0	10600.0	58393.5
5390.0	10600.0	58393.1
5400.0	10600.0	58388.8
5410.0	10600.0	58384.3
5420.0	10600.0	58376.9
5430.0	10600.0	58373.9
5440.0	10600.0	58370.8
5450.0	10600.0	58369.9
5460.0	10600.0	58379.4
5470.0	10600.0	58394.3
5480.0	10600.0	58421.9
5490.0	10600.0	58465.9
5500.0	10600.0	58515.3
5510.0	10600.0	58569.8
5520.0	10600.0	58599.1
5530.0	10600.0	58594.6
5540.0	10600.0	58577.9
5550.0	10600.0	58564.6
5560.0	10600.0	58555.0
5570.0	10600.0	58553.1
5580.0	10600.0	58553.3
5590.0	10600.0	58547.5
5600.0	10600.0	58533.9
5610.0	10600.0	58522.1
5620.0	10600.0	58532.8
5630.0	10600.0	58550.9
5640.0	10600.0	58558.4
5650.0	10600.0	58572.6

5660.0	10600.0	58594.4
5670.0	10600.0	58617.9
5680.0	10600.0	58651.1
5690.0	10600.0	58682.5
5700.0	10600.0	58699.5
5710.0	10600.0	58719.1
5720.0	10600.0	58747.1
5730.0	10600.0	58717.3
5740.0	10600.0	58689.8
5750.0	10600.0	58659.2
5760.0	10600.0	58668.7
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5790.0	10600.0	58710.4
5800.0	10600.0	58709.5
5810.0	10600.0	58696.9
5820.0	10600.0	58695.5
5830.0	10600.0	58698.7
5840.0	10600.0	58698.2
5850.0	10600.0	58704.2
5860.0	10600.0	58712.4
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5890.0	10600.0	58743.4
5900.0	10600.0	58745.0
5910.0	10600.0	58755.6
5920.0	10600.0	58769.4
5930.0	10600.0	58777.6
5940.0	10600.0	58790.6
5950.0	10600.0	58794.5
5960.0	10600.0	58793.1
5970.0	10600.0	58797.7
5980.0	10600.0	58792.5
5990.0	10600.0	58790.3
6000.0	10600.0	58783.9
6010.0	10600.0	58771.0
6020.0	10600.0	58753.6
6030.0	10600.0	58740.3
6040.0	10600.0	58719.8
6050.0	10600.0	58714.6
6060.0	10600.0	58711.1
6070.0	10600.0	58708.4
6080.0	10600.0	58708.3
6090.0	10600.0	58705.3
6100.0	10600.0	58704.5
6110.0	10600.0	58721.4
6120.0	10600.0	58730.6
6130.0	10600.0	58746.8
6140.0	10600.0	58768.0
6150.0	10600.0	58790.7
6160.0	10600.0	58821.6
6170.0	10600.0	58847.1
6180.0	10600.0	58861.4
6190.0	10600.0	58866.0
6200.0	10600.0	58876.1
6210.0	10600.0	58886.0
6220.0	10600.0	58883.5
6230.0	10600.0	58848.9
6240.0	10600.0	58798.1
6250.0	10600.0	58772.0
6260.0	10600.0	58745.9
6270.0	10600.0	58718.4
6280.0	10600.0	58679.4
6290.0	10600.0	58652.2
6300.0	10600.0	58630.0
6310.0	10600.0	58613.1
6320.0	10600.0	58610.7
6330.0	10600.0	58608.0
6340.0	10600.0	58611.3
6350.0	10600.0	58621.5
6360.0	10600.0	58634.6
6370.0	10600.0	58667.4
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6390.0	10600.0	58850.7
6400.0	10600.0	59011.1
6410.0	10600.0	59001.2
6420.0	10600.0	58934.7
6430.0	10600.0	58836.6
6440.0	10600.0	58766.9
6450.0	10600.0	58725.8
6460.0	10600.0	58710.6
6470.0	10600.0	58646.0
6480.0	10600.0	58587.3
6490.0	10600.0	58568.5
6500.0	10600.0	58578.0
5100.0	11780.0	58287.4
5110.0	11780.0	58297.4
5120.0	11780.0	58363.3
5130.0	11780.0	58263.0
5140.0	11780.0	58267.0
5160.0	11780.0	58303.8
5170.0	11780.0	58341.2
5180.0	11780.0	58292.2
5190.0	11780.0	58157.6
5200.0	11780.0	58199.8
5210.0	11780.0	58211.3
5220.0	11780.0	58194.1
5230.0	11780.0	58201.9
5240.0	11780.0	58215.9
5250.0	11780.0	58201.5
5260.0	11780.0	58683.1
5270.0	11780.0	58187.1
5280.0	11780.0	58158.0
5290.0	11780.0	58225.1
5300.0	11780.0	58028.1
5310.0	11780.0	58136.5
5320.0	11780.0	58494.7
5330.0	11780.0	59301.3
5340.0	11780.0	63520.7
5350.0	11780.0	65115.6
5360.0	11780.0	59657.8
5370.0	11780.0	57637.0
5380.0	11780.0	56901.8
5390.0	11780.0	56972.1
5400.0	11780.0	57140.5
5410.0	11780.0	57267.3
5420.0	11780.0	57517.1
5430.0	11780.0	57648.1
5440.0	11780.0	57776.8
5450.0	11780.0	57999.7
5460.0	11780.0	58182.2
5470.0	11780.0	58294.6
5480.0	11780.0	58396.2
5490.0	11780.0	58430.1
5500.0	11780.0	58411.5
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5520.0	11780.0	58258.2
5530.0	11780.0	58223.8
5540.0	11780.0	58136.3
5550.0	11780.0	58185.6
5560.0	11780.0	57981.9
5570.0	11780.0	57939.8
5580.0	11780.0	57949.4
5590.0	11780.0	57949.9
5600.0	11780.0	57965.5
5610.0	11780.0	57973.1
5620.0	11780.0	57982.0
5630.0	11780.0	57992.9
5640.0	11780.0	58027.1
5650.0	11780.0	58038.0
5660.0	11780.0	58063.3
5670.0	11780.0	58076.7
5680.0	11780.0	58088.0
5690.0	11780.0	58099.9

5700.0	11780.0	58120.1
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5730.0	11780.0	58178.5
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5750.0	11780.0	58198.0
5760.0	11780.0	58187.1
5770.0	11780.0	58188.2
5780.0	11780.0	58195.8
5790.0	11780.0	58203.1
5800.0	11780.0	58207.2
5810.0	11780.0	58193.1
5820.0	11780.0	58194.8
5830.0	11780.0	58201.0
5840.0	11780.0	58217.7
5850.0	11780.0	58232.8
5860.0	11780.0	58252.6
5870.0	11780.0	58272.1
5880.0	11780.0	58303.2
5890.0	11780.0	58327.1
5900.0	11780.0	58348.4
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5940.0	11780.0	58274.7
5950.0	11780.0	58243.1
5960.0	11780.0	58255.8
5970.0	11780.0	58259.4
5980.0	11780.0	58183.6
5990.0	11780.0	58143.9
6000.0	11780.0	58123.4
4600.0	11900.0	58397.5
4610.0	11900.0	58401.0
4620.0	11900.0	58408.8
4630.0	11900.0	58410.8
4640.0	11900.0	58419.5
4650.0	11900.0	58419.1
4660.0	11900.0	58413.3
4670.0	11900.0	58408.7
4680.0	11900.0	58412.5
4690.0	11900.0	58409.4
4700.0	11900.0	58403.2
4710.0	11900.0	58383.5
4720.0	11900.0	58353.3
4730.0	11900.0	58330.5
4740.0	11900.0	58330.8
4750.0	11900.0	58334.6
4760.0	11900.0	58344.6
4770.0	11900.0	58337.7
4780.0	11900.0	58325.5
4790.0	11900.0	58311.8
4800.0	11900.0	58298.3
4810.0	11900.0	58278.3
4820.0	11900.0	58282.9
4830.0	11900.0	58315.4
4840.0	11900.0	58371.4
4850.0	11900.0	58370.0
4860.0	11900.0	58345.6
4870.0	11900.0	58313.7
4880.0	11900.0	58308.3
4890.0	11900.0	58316.4
4900.0	11900.0	58324.7
4910.0	11900.0	58324.8
4920.0	11900.0	58420.1
4930.0	11900.0	58659.2
4940.0	11900.0	58646.3
4950.0	11900.0	58568.2
4960.0	11900.0	58462.4
4970.0	11900.0	58367.9
4980.0	11900.0	58344.8
4990.0	11900.0	58348.6
5000.0	11900.0	58254.9
5010.0	11900.0	58218.9
5020.0	11900.0	58171.7
5030.0	11900.0	58192.1
5040.0	11900.0	58235.3
5050.0	11900.0	58319.5
5060.0	11900.0	58265.2
5070.0	11900.0	58256.3
5080.0	11900.0	58256.7
5090.0	11900.0	58250.7
5100.0	11900.0	58358.4
5110.0	11900.0	58307.5
5120.0	11900.0	58297.2
5130.0	11900.0	58313.6
5140.0	11900.0	58297.7
5150.0	11900.0	58278.7
5160.0	11900.0	58284.2
5170.0	11900.0	58288.8
5180.0	11900.0	58284.1
5190.0	11900.0	58294.3
5200.0	11900.0	58275.1
5210.0	11900.0	58296.0
5220.0	11900.0	58279.2
5230.0	11900.0	58258.8
5240.0	11900.0	58235.6
5250.0	11900.0	58205.5
5260.0	11900.0	58174.5
5270.0	11900.0	58133.3
5280.0	11900.0	58121.0
5290.0	11900.0	58174.9
5300.0	11900.0	58090.2
5310.0	11900.0	57966.1
5320.0	11900.0	57912.0
5330.0	11900.0	57893.1
5340.0	11900.0	57928.3
5350.0	11900.0	58068.9
5360.0	11900.0	58275.2
5370.0	11900.0	58435.0
5380.0	11900.0	58536.0
5390.0	11900.0	58679.1
5400.0	11900.0	58821.3
5410.0	11900.0	58998.2
5420.0	11900.0	59250.0
5430.0	11900.0	59352.6
5440.0	11900.0	59200.9
5450.0	11900.0	58928.3
5460.0	11900.0	58482.7
5470.0	11900.0	58182.9
5480.0	11900.0	58020.1
5490.0	11900.0	57968.2
5500.0	11900.0	57972.5
5510.0	11900.0	58021.3
5520.0	11900.0	58054.8
5530.0	11900.0	58082.1
5540.0	11900.0	58088.4
5550.0	11900.0	58105.7
5560.0	11900.0	58124.5
5570.0	11900.0	58143.8
5580.0	11900.0	58157.2
5590.0	11900.0	58165.2
5600.0	11900.0	58165.5
5610.0	11900.0	58177.3
5620.0	11900.0	58192.1
5630.0	11900.0	58204.7
5640.0	11900.0	58206.3
5650.0	11900.0	58205.9
5660.0	11900.0	58212.7
5670.0	11900.0	58215.3
5680.0	11900.0	58212.4
5690.0	11900.0	58210.1
5700.0	11900.0	58212.6
5710.0	11900.0	58213.4
5720.0	11900.0	58224.7

5730.0	11900.0	58238.8
5740.0	11900.0	58261.0
5750.0	11900.0	58288.6
5760.0	11900.0	58305.9
5770.0	11900.0	58300.5
5780.0	11900.0	58287.0
5790.0	11900.0	58271.0
5800.0	11900.0	58261.3
5810.0	11900.0	58252.4
5820.0	11900.0	58249.6
5830.0	11900.0	58258.4
5840.0	11900.0	58258.9
5850.0	11900.0	58287.4
5860.0	11900.0	58349.6
5870.0	11900.0	58381.2
5880.0	11900.0	58309.9
5890.0	11900.0	58437.1
5900.0	11900.0	58544.1
5910.0	11900.0	58338.5
5920.0	11900.0	58251.7
5930.0	11900.0	58178.1
5940.0	11900.0	58144.6
5950.0	11900.0	58164.3
5960.0	11900.0	58172.1
5100.0	12020.0	58365.9
5110.0	12020.0	58443.2
5120.0	12020.0	58530.4
5130.0	12020.0	58300.1
5140.0	12020.0	58312.0
5150.0	12020.0	58293.6
5160.0	12020.0	58286.0
5170.0	12020.0	58286.1
5180.0	12020.0	58266.0
5190.0	12020.0	58160.6
5200.0	12020.0	58285.0
5210.0	12020.0	58507.7
5220.0	12020.0	57834.2
5230.0	12020.0	56833.7
5240.0	12020.0	57515.5
5250.0	12020.0	58923.7
5260.0	12020.0	58820.6
5270.0	12020.0	58125.8
5280.0	12020.0	58034.0
5290.0	12020.0	57889.3
5300.0	12020.0	57893.1
5310.0	12020.0	58434.8
5320.0	12020.0	59890.6
5330.0	12020.0	59865.2
5340.0	12020.0	59220.9
5350.0	12020.0	59127.8
5360.0	12020.0	59356.0
5370.0	12020.0	60444.7
5380.0	12020.0	59652.1
5390.0	12020.0	58828.1
5400.0	12020.0	58622.7
5410.0	12020.0	58719.4
5420.0	12020.0	58587.7
5430.0	12020.0	58286.1
5440.0	12020.0	58176.9
5450.0	12020.0	58104.7
5460.0	12020.0	58087.8
5470.0	12020.0	58103.0
5480.0	12020.0	58042.1
5490.0	12020.0	58253.1
5500.0	12020.0	58155.4
5510.0	12020.0	58189.6
5520.0	12020.0	58197.2
5530.0	12020.0	58264.1
5540.0	12020.0	58256.8
5550.0	12020.0	58244.1
5560.0	12020.0	58257.8
5570.0	12020.0	58245.7
5580.0	12020.0	58236.4
5590.0	12020.0	58241.6
5600.0	12020.0	58254.3
5610.0	12020.0	58274.3
5620.0	12020.0	58268.1
5630.0	12020.0	58311.9
5640.0	12020.0	58280.8
5650.0	12020.0	58257.2
5660.0	12020.0	58275.5
5670.0	12020.0	58269.8
5680.0	12020.0	58276.8
5690.0	12020.0	58276.9
5700.0	12020.0	58271.0
5710.0	12020.0	58279.8
5720.0	12020.0	58253.5
5730.0	12020.0	58287.3
5740.0	12020.0	58285.8
5750.0	12020.0	58274.6
5760.0	12020.0	58311.5
5770.0	12020.0	58308.8
5780.0	12020.0	58288.0
5790.0	12020.0	58289.2
5800.0	12020.0	58299.0
5810.0	12020.0	58313.6
5820.0	12020.0	58277.0
5830.0	12020.0	58195.2
5840.0	12020.0	58121.2

APPENDIX VI

MAXMIN SURVEY DATA

FOR

FREQUENCIES 444 Hz. AND 1777Hz.

BY

GRID LINE AND STATION

AT

100 METER COIL SEPERATION

$$DATA$$ 6 1774 2 99999 91:12:20 bjr
Kona project: electromagnetic survey
IP1=In-Phase,444 Hz. IP2=In-Phase,1777 Hz.
GRDXGRDYIP1 OP1 IP2 OP2
2 2 1 1 1 1
(2f10.1,4f8.1)

		444 Hz.		1777 Hz.	
Station	Line	in	out	in	out
4130.0	8200.0	4.5	8.5	16.5	2.0
4150.0	8200.0	5.5	9.0	16.5	7.0
4170.0	8200.0	7.5	9.5	18.5	9.5
4190.0	8200.0	6.5	9.0	17.0	10.5
4210.0	8200.0	6.0	9.0	16.5	11.0
4230.0	8200.0	5.5	8.0	14.5	10.0
4250.0	8200.0	3.5	7.0	10.5	9.5
4270.0	8200.0	1.5	6.0	8.5	9.5
4290.0	8200.0	2.0	5.5	7.0	8.5
4310.0	8200.0	0.0	4.5	5.0	7.0
4330.0	8200.0	0.0	3.5	3.5	4.5
4350.0	8200.0	1.0	3.0	4.0	4.0
4370.0	8200.0	1.0	2.5	4.0	3.0
4390.0	8200.0	1.5	2.0	4.0	2.5
4410.0	8200.0	1.0	2.0	3.0	3.5
4430.0	8200.0	1.0	2.5	3.0	4.0
4450.0	8200.0	1.0	2.0	2.5	4.5
4470.0	8200.0	0.0	2.0	1.0	4.5
4490.0	8200.0	-0.5	2.0	1.0	5.5
4510.0	8200.0	0.0	2.5	1.0	6.0
4530.0	8200.0	-2.5	2.0	-2.5	5.0
4550.0	8200.0	-2.5	2.0	-2.5	5.0
4570.0	8200.0	-1.5	2.0	-1.5	4.0
4590.0	8200.0	-0.5	1.0	-0.5	3.0
4610.0	8200.0	-1.5	1.0	-1.5	3.0
4630.0	8200.0	-1.0	2.5	-1.0	4.5
4650.0	8200.0	1.0	1.5	1.0	4.5
4670.0	8200.0	1.5	2.0	1.5	5.0
4690.0	8200.0	3.5	1.5	3.5	5.5
4710.0	8200.0	3.0	1.5	3.0	5.0
4730.0	8200.0	2.5	1.5	2.5	4.5
4750.0	8200.0	1.5	1.5	1.5	4.0
4770.0	8200.0	0.0	1.0	0.0	4.0
4790.0	8200.0	1.0	1.0	1.0	3.5
4810.0	8200.0	1.0	1.0	1.0	3.0
4830.0	8200.0	0.5	1.0	0.5	3.0
4850.0	8200.0	1.0	1.0	1.0	3.0
4870.0	8200.0	0.5	1.0	0.5	3.5
4890.0	8200.0	-0.5	1.0	-0.5	3.0
4910.0	8200.0	-1.0	1.5	-2.0	3.0
4930.0	8200.0	-1.5	1.0	-2.0	3.0
4950.0	8200.0	-2.5	1.0	-2.5	2.5
4110.0	8300.0	6.0	9.5	20.5	7.5
4130.0	8300.0	6.0	8.5	17.0	10.0
4150.0	8300.0	4.0	7.5	13.0	9.5
4170.0	8300.0	4.5	7.5	12.0	9.0
4190.0	8300.0	5.0	7.0	12.0	8.0
4210.0	8300.0	4.5	6.5	10.5	7.5
4230.0	8300.0	3.5	6.0	8.5	7.0
4250.0	8300.0	2.5	5.0	6.5	6.5
4270.0	8300.0	3.0	4.5	7.0	6.0
4290.0	8300.0	2.5	4.0	5.5	6.0
4310.0	8300.0	1.5	3.5	4.0	6.0
4330.0	8300.0	2.5	3.0	5.0	5.0
4350.0	8300.0	2.0	3.0	4.0	5.0
4370.0	8300.0	2.0	3.0	4.0	5.5
4390.0	8300.0	3.0	3.0	5.0	6.0
4410.0	8300.0	2.5	3.0	5.0	7.5
4430.0	8300.0	1.5	3.0	3.5	6.5
4450.0	8300.0	1.0	1.5	2.5	3.5
4470.0	8300.0	0.5	1.0	1.5	1.0
4490.0	8300.0	-0.5	1.0	0.5	0.0
4510.0	8300.0	-1.0	0.5	-1.0	-1.0
4530.0	8300.0	-2.0	1.5	-1.5	4.0
4550.0	8300.0	-2.5	1.5	-2.0	4.0
4570.0	8300.0	-3.0	1.5	-2.5	4.5
4590.0	8300.0	-2.5	1.5	-1.5	4.0
4610.0	8300.0	-2.5	1.5	-1.0	3.5
4630.0	8300.0	0.0	1.5	1.0	5.5
4650.0	8300.0	-0.5	2.0	-1.0	5.5
4670.0	8300.0	0.0	2.0	1.0	5.5
4690.0	8300.0	-0.5	1.5	0.0	5.5
4710.0	8300.0	0.0	1.5	0.0	5.0
4730.0	8300.0	0.0	1.5	0.0	4.5
4750.0	8300.0	-1.5	1.0	0.5	4.0
4770.0	8300.0	0.0	1.0	1.0	3.0
4790.0	8300.0	-1.5	1.0	-1.5	3.5
4810.0	8300.0	-0.5	1.0	-0.5	3.0
4830.0	8300.0	1.0	1.0	2.0	3.0
4850.0	8300.0	3.0	1.0	3.5	3.0
4870.0	8300.0	2.0	0.5	2.0	2.5
4890.0	8300.0	1.5	1.0	1.5	2.5
4910.0	8300.0	0.5	1.0	0.5	2.5
4930.0	8300.0	0.0	1.0	0.5	2.5
4950.0	8300.0	0.0	1.0	-0.5	2.5
4110.0	8400.0	2.5	7.5	13.0	13.0
4130.0	8400.0	3.0	7.0	12.0	12.0
4150.0	8400.0	1.0	6.0	7.5	9.5
4170.0	8400.0	0.0	5.0	6.0	8.0
4190.0	8400.0	0.5	4.5	5.0	7.0
4210.0	8400.0	-0.5	4.0	3.0	6.0
4230.0	8400.0	0.0	3.5	3.0	5.5
4250.0	8400.0	1.5	3.5	4.5	5.0
4270.0	8400.0	0.5	3.0	3.0	5.0
4290.0	8400.0	1.0	3.0	3.5	4.5
4310.0	8400.0	0.0	2.5	4.0	4.5
4330.0	8400.0	0.5	2.5	3.5	4.0
4350.0	8400.0	1.5	3.0	4.0	6.0
4370.0	8400.0	2.0	4.0	5.5	10.0
4390.0	8400.0	1.5	3.0	5.0	6.5
4410.0	8400.0	1.5	-1.5	0.5	-9.5
4430.0	8400.0	2.0	-4.0	-4.0	-16.0
4450.0	8400.0	1.5	-5.0	-6.0	-18.0
4470.0	8400.0	0.5	-6.0	-8.5	-18.5
4490.0	8400.0	1.5	-2.0	-2.0	-6.0
4510.0	8400.0	1.5	3.0	4.0	8.0
4530.0	8400.0	1.5	4.0	5.5	10.0
4550.0	8400.0	2.0	4.0	6.5	10.0
4570.0	8400.0	1.5	3.5	5.0	9.0
4590.0	8400.0	1.0	3.0	4.0	8.5
4610.0	8400.0	1.5	2.5	3.5	6.5
4630.0	8400.0	1.5	2.5	3.0	6.0
4650.0	8400.0	0.5	2.0	2.0	5.5
4670.0	8400.0	1.0	2.0	2.0	5.0
4690.0	8400.0	2.0	2.0	3.0	4.5
4710.0	8400.0	1.0	1.5	2.0	5.0
4730.0	8400.0	1.5	1.5	2.0	5.0
4750.0	8400.0	1.0	1.5	1.0	4.5
4770.0	8400.0	1.5	1.5	1.5	4.0
4790.0	8400.0	1.0	1.5	1.0	3.5
4810.0	8400.0	1.0	1.0	2.0	3.0
4830.0	8400.0	1.0	1.0	1.0	3.0
4850.0	8400.0	1.0	1.0	1.0	3.0
4870.0	8400.0	1.0	1.0	1.0	3.0
4890.0	8400.0	2.0	1.5	1.0	3.5
4910.0	8400.0	3.0	1.0	3.0	3.5
4930.0	8400.0	0.5	1.0	0.5	3.0

4950.0	8400.0	0.5	1.0	1.0	3.0
4110.0	8500.0	1.5	5.5	8.0	11.0
4130.0	8500.0	1.5	5.0	7.0	9.0
4150.0	8500.0	1.5	4.5	6.0	8.0
4170.0	8500.0	1.0	4.0	5.0	7.0
4190.0	8500.0	2.0	3.5	5.0	6.0
4210.0	8500.0	2.0	3.0	4.5	5.5
4230.0	8500.0	1.5	2.5	4.0	5.0
4250.0	8500.0	1.5	2.5	3.5	5.0
4270.0	8500.0	1.0	2.5	3.0	5.0
4290.0	8500.0	0.5	2.5	2.5	5.0
4310.0	8500.0	0.0	2.5	3.0	6.0
4330.0	8500.0	1.0	3.5	4.5	7.5
4350.0	8500.0	2.0	5.0	8.0	12.5
4370.0	8500.0	1.5	0.0	2.0	-4.0
4390.0	8500.0	0.5	-3.0	-4.0	-12.5
4410.0	8500.0	0.0	-6.0	-9.5	-18.5
4430.0	8500.0	-1.5	-8.5	-16.5	-22.5
4450.0	8500.0	-1.5	-9.5	-19.5	-21.0
4470.0	8500.0	2.0	3.0	5.0	6.0
4490.0	8500.0	1.5	5.0	9.0	11.0
4510.0	8500.0	1.5	5.0	9.5	10.5
4530.0	8500.0	3.0	4.5	9.0	8.5
4550.0	8500.0	1.5	4.0	7.0	8.5
4570.0	8500.0	1.5	3.0	5.0	6.5
4590.0	8500.0	1.0	2.5	4.0	6.0
4610.0	8500.0	0.5	2.0	2.5	5.0
4630.0	8500.0	0.0	2.0	1.5	4.0
4650.0	8500.0	0.5	1.5	1.5	4.0
4670.0	8500.0	0.5	1.5	1.0	4.0
4690.0	8500.0	1.0	1.5	2.0	4.0
4710.0	8500.0	0.5	1.5	1.0	4.5
4730.0	8500.0	1.5	1.5	2.5	4.5
4750.0	8500.0	0.5	1.5	0.5	4.5
4770.0	8500.0	1.5	1.5	1.5	4.0
4790.0	8500.0	0.0	1.5	0.5	4.0
4810.0	8500.0	0.0	1.0	0.0	4.0
4830.0	8500.0	0.0	1.5	0.5	4.0
4850.0	8500.0	0.0	1.0	0.5	3.5
4870.0	8500.0	1.5	1.0	2.0	3.5
4890.0	8500.0	0.0	1.0	0.5	3.5
4910.0	8500.0	-0.5	1.0	0.5	3.5
4930.0	8500.0	0.5	1.0	0.5	3.5
4950.0	8500.0	2.0	1.0	2.5	2.5
4110.0	8600.0	1.0	4.5	7.0	9.0
4130.0	8600.0	1.5	4.0	5.5	8.0
4150.0	8600.0	3.0	3.5	7.0	7.5
4170.0	8600.0	0.0	3.0	2.5	6.0
4190.0	8600.0	-0.5	2.5	2.0	5.0
4210.0	8600.0	-0.5	2.5	1.5	5.0
4230.0	8600.0	1.5	2.0	3.0	5.0
4250.0	8600.0	-0.5	2.0	1.0	4.5
4270.0	8600.0	1.5	2.0	3.0	4.5
4290.0	8600.0	2.0	2.0	3.5	5.5
4310.0	8600.0	1.0	5.0	6.0	10.5
4330.0	8600.0	-1.5	2.5	3.0	2.0
4350.0	8600.0	-2.5	-3.5	-8.5	-14.0
4370.0	8600.0	-2.0	-7.0	-14.0	-20.0
4390.0	8600.0	-2.5	-9.5	-21.5	-21.0
4410.0	8600.0	-4.5	-12.0	-25.0	-23.0
4430.0	8600.0	-3.0	-3.5	-9.0	-6.0
4450.0	8600.0	1.5	6.0	10.5	10.5
4470.0	8600.0	1.0	8.0	12.5	12.0
4490.0	8600.0	1.0	7.0	10.0	10.0
4510.0	8600.0	3.0	5.5	10.0	8.0
4530.0	8600.0	3.5	4.5	9.0	6.5
4550.0	8600.0	3.5	3.5	7.0	5.0
4570.0	8600.0	2.5	2.5	5.5	4.5
4590.0	8600.0	2.5	2.0	4.0	4.0
4610.0	8600.0	1.0	2.0	3.0	3.5
4630.0	8600.0	-0.5	2.0	1.0	3.5
4650.0	8600.0	2.5	2.0	3.5	3.5
4670.0	8600.0	1.5	1.5	2.5	3.5
4690.0	8600.0	3.0	1.5	4.0	3.5
4710.0	8600.0	4.0	1.5	5.0	3.5
4730.0	8600.0	4.5	1.5	5.0	3.5
4750.0	8600.0	1.0	1.5	1.5	3.5
4770.0	8600.0	0.5	1.5	0.5	3.5
4790.0	8600.0	0.0	1.0	0.5	3.5
4810.0	8600.0	-0.5	1.0	0.5	4.0
4830.0	8600.0	0.5	1.5	1.0	4.0
4850.0	8600.0	1.0	1.5	1.0	4.5
4870.0	8600.0	0.0	1.0	0.5	3.5
4890.0	8600.0	0.5	1.0	0.5	3.0
4910.0	8600.0	1.0	1.0	1.5	1.5
4930.0	8600.0	0.5	0.5	1.0	0.0
4950.0	8600.0	-0.5	0.0	0.0	-1.0
4110.0	8700.0	-0.5	3.5	3.0	8.5
4130.0	8700.0	0.0	3.0	3.0	7.0
4150.0	8700.0	1.0	3.0	3.5	6.5
4170.0	8700.0	0.0	2.5	2.5	5.5
4190.0	8700.0	0.0	2.5	2.0	5.0
4210.0	8700.0	-0.5	2.5	1.5	5.0
4230.0	8700.0	0.0	2.5	2.5	5.0
4250.0	8700.0	-0.5	2.5	2.0	6.0
4270.0	8700.0	0.5	3.5	4.0	8.0
4290.0	8700.0	1.5	4.0	6.5	9.0
4310.0	8700.0	0.5	0.0	2.0	-3.5
4330.0	8700.0	0.5	-5.0	-7.5	-16.0
4350.0	8700.0	-2.5	-9.0	-17.0	-20.0
4370.0	8700.0	-3.5	-11.5	-23.5	-22.5
4390.0	8700.0	-4.0	-10.5	-22.0	-17.0
4410.0	8700.0	0.0	-0.5	0.0	0.5
4430.0	8700.0	2.5	6.0	10.5	9.5
4450.0	8700.0	2.5	6.0	11.0	9.0
4470.0	8700.0	2.5	5.5	8.0	7.5
4490.0	8700.0	1.5	4.5	7.0	6.0
4510.0	8700.0	1.0	3.5	4.0	5.0
4530.0	8700.0	0.5	3.5	3.5	4.5
4550.0	8700.0	0.0	2.5	1.5	4.0
4570.0	8700.0	0.5	2.5	2.5	3.5
4590.0	8700.0	-0.5	2.0	1.0	3.5
4610.0	8700.0	0.5	1.5	1.5	3.0
4630.0	8700.0	0.0	1.5	1.0	3.0
4650.0	8700.0	0.0	1.0	0.5	2.5
4670.0	8700.0	0.5	1.5	0.5	3.0
4690.0	8700.0	1.0	1.0	1.0	3.5
4710.0	8700.0	-0.5	1.5	0.0	3.5
4730.0	8700.0	-0.5	1.0	0.5	3.0
4750.0	8700.0	1.0	1.0	1.0	3.0
4770.0	8700.0	-1.0	1.0	0.0	2.5
4790.0	8700.0	0.0	1.0	0.0	2.5
4810.0	8700.0	0.0	1.0	0.0	2.5
4830.0	8700.0	-1.0	1.0	-0.5	2.5
4850.0	8700.0	0.0	0.5	0.5	2.0
4870.0	8700.0	-1.0	0.5	-0.5	1.0
4890.0	8700.0	-1.5	0.0	-1.0	0.0
4910.0	8700.0	-0.5	0.0	-0.5	0.0
4930.0	8700.0	-0.5	0.0	0.5	0.5
4950.0	8700.0	0.0	0.5	0.0	1.5
4090.0	8800.0	0.0	2.0	3.5	6.5
4110.0	8800.0	-0.5	1.5	2.5	6.0
4130.0	8800.0	-2.5	1.5	0.5	5.0
4150.0	8800.0	-2.0	1.5	0.5	4.5
4170.0	8800.0	-3.0	1.5	-1.5	4.5
4190.0	8800.0	-4.0	2.0	-1.5	4.5
4210.0	8800.0	-4.5	2.0	-2.5	5.0
4230.0	8800.0	-3.0	2.5	-1.0	6.0
4250.0	8800.0	-3.0	4.0	0.5	9.5
4270.0	8800.0	-2.5	2.0	1.5	3.0
4290.0	8800.0	-2.5	-3.0	-6.0	-11.0
4310.0	8800.0	-2.5	-5.5	-11.5	-15.5
4330.0	8800.0	-2.0	-8.0	-17.0	-19.0
4350.0	8800.0	-4.0	-10.0	-21.5	-21.0

4370.0	8800.0	-2.5	-2.0	-8.0	-3.0
4390.0	8800.0	1.0	6.5	11.0	10.0
4410.0	8800.0	0.0	7.0	9.0	10.5
4430.0	8800.0	1.0	6.0	8.5	8.0
4450.0	8800.0	1.0	5.0	7.0	6.5
4470.0	8800.0	0.5	4.5	5.0	6.0
4490.0	8800.0	1.0	3.0	4.0	4.5
4510.0	8800.0	0.0	2.5	2.5	3.5
4530.0	8800.0	-1.0	2.0	1.0	3.5
4550.0	8800.0	1.0	2.0	2.5	2.5
4570.0	8800.0	-1.0	2.0	0.0	3.0
4590.0	8800.0	-1.5	1.5	-0.5	3.0
4610.0	8800.0	0.0	1.5	0.0	3.5
4630.0	8800.0	-1.0	1.5	0.0	3.0
4650.0	8800.0	-1.0	1.5	-0.5	3.5
4670.0	8800.0	2.0	1.5	2.5	4.0
4690.0	8800.0	1.5	1.5	2.0	4.0
4710.0	8800.0	0.0	1.5	1.0	4.5
4730.0	8800.0	0.0	1.5	1.0	4.0
4750.0	8800.0	1.5	1.5	1.5	4.0
4770.0	8800.0	0.5	1.5	0.5	3.5
4790.0	8800.0	0.5	1.0	1.0	3.0
4810.0	8800.0	0.0	1.0	0.5	2.5
4830.0	8800.0	0.0	1.0	1.5	2.0
4850.0	8800.0	-0.5	0.5	0.5	1.0
4870.0	8800.0	1.0	0.5	1.0	0.0
4890.0	8800.0	0.0	0.5	1.0	0.0
4910.0	8800.0	-0.5	0.5	-0.5	0.0
4930.0	8800.0	-1.5	0.5	-1.5	1.0
4950.0	8800.0	-2.5	1.0	-3.0	3.0
4090.0	8900.0	-2.5	1.5	-0.5	6.0
4110.0	8900.0	-2.5	1.5	-0.5	5.5
4130.0	8900.0	-2.0	1.5	-1.0	5.0
4150.0	8900.0	-3.0	1.5	1.5	4.5
4170.0	8900.0	-2.5	1.0	-0.5	4.0
4190.0	8900.0	-2.0	1.0	-0.5	4.0
4210.0	8900.0	-2.0	1.5	0.0	4.5
4230.0	8900.0	-0.5	2.0	1.5	6.0
4250.0	8900.0	-0.5	2.5	3.0	7.0
4270.0	8900.0	-1.5	0.5	0.0	-1.0
4290.0	8900.0	-2.5	-3.5	-6.5	-11.0
4310.0	8900.0	-4.0	-7.0	-14.0	-16.5
4330.0	8900.0	-5.0	-8.5	-17.0	-18.0
4350.0	8900.0	-3.5	-8.0	-17.0	-15.5
4370.0	8900.0	-2.0	-1.5	-6.0	0.0
4390.0	8900.0	-1.0	3.0	4.5	8.5
4410.0	8900.0	0.0	4.0	6.5	8.5
4430.0	8900.0	-0.5	3.5	5.0	6.5
4450.0	8900.0	-0.5	3.0	3.5	5.5
4470.0	8900.0	-0.5	2.5	2.5	4.0
4490.0	8900.0	-1.0	1.5	2.0	3.0
4510.0	8900.0	-0.5	1.0	2.0	2.5
4530.0	8900.0	-0.5	1.0	1.5	2.0
4550.0	8900.0	-1.5	0.5	-0.5	1.0
4570.0	8900.0	-2.0	0.5	-1.0	2.0
4590.0	8900.0	-1.5	1.0	0.0	2.5
4610.0	8900.0	-2.5	0.5	-2.0	3.0
4630.0	8900.0	-2.5	1.0	-2.0	3.0
4650.0	8900.0	-2.0	1.0	-1.5	3.5
4670.0	8900.0	-2.5	1.0	-2.0	3.0
4690.0	8900.0	-2.5	1.0	-2.0	3.5
4710.0	8900.0	-2.0	0.5	-1.0	3.5
4730.0	8900.0	-2.0	0.5	-1.0	3.5
4750.0	8900.0	-2.0	0.5	-1.0	3.0
4770.0	8900.0	-2.5	0.5	-1.0	2.0
4790.0	8900.0	-1.5	0.0	-1.0	2.0
4810.0	8900.0	-3.5	0.0	-1.5	-0.5
4830.0	8900.0	-2.5	-0.5	-2.5	-0.5
4850.0	8900.0	-2.5	-1.0	-1.5	-1.5
4870.0	8900.0	-2.5	-1.0	-2.5	-2.5
4890.0	8900.0	-1.5	-1.0	-2.5	-3.0
4910.0	8900.0	-2.5	-1.0	-2.5	-2.0
4930.0	8900.0	-2.0	0.0	-2.0	1.5
4950.0	8900.0	-2.0	1.0	-1.0	4.5
4090.0	9000.0	-1.0	1.5	1.0	6.0
4110.0	9000.0	-2.5	1.5	0.5	5.5
4130.0	9000.0	-1.0	1.5	0.0	5.0
4150.0	9000.0	-1.5	1.5	1.5	4.5
4170.0	9000.0	-1.0	1.0	0.0	4.5
4190.0	9000.0	-2.0	1.5	-1.0	4.5
4210.0	9000.0	0.0	1.5	0.5	5.5
4230.0	9000.0	-1.0	2.0	0.0	6.0
4250.0	9000.0	-2.0	2.0	0.5	6.0
4270.0	9000.0	-1.5	0.5	1.5	0.0
4290.0	9000.0	-2.0	-2.0	-4.0	-7.5
4310.0	9000.0	-2.0	-5.0	-8.0	-13.0
4330.0	9000.0	-4.0	-6.5	-13.5	-15.0
4350.0	9000.0	-4.5	-6.5	-13.5	-11.5
4370.0	9000.0	-3.5	-1.0	-6.5	2.0
4390.0	9000.0	-1.0	3.5	3.0	7.5
4410.0	9000.0	1.0	4.5	7.0	7.5
4430.0	9000.0	-0.5	4.5	6.0	6.0
4450.0	9000.0	-1.5	3.5	1.5	5.5
4470.0	9000.0	-4.0	2.5	0.0	4.0
4490.0	9000.0	-1.5	2.0	2.5	2.5
4510.0	9000.0	-2.0	1.0	0.0	2.0
4530.0	9000.0	-3.5	1.0	0.5	1.0
4550.0	9000.0	-2.0	0.0	-2.0	0.5
4570.0	9000.0	-3.5	0.5	-6.5	1.5
4590.0	9000.0	-3.0	1.0	-2.0	2.5
4610.0	9000.0	-2.0	1.0	1.0	3.0
4630.0	9000.0	-2.0	1.0	0.0	3.5
4650.0	9000.0	-1.0	1.0	0.0	4.0
4670.0	9000.0	0.0	1.0	0.0	4.0
4690.0	9000.0	-3.0	1.0	-2.5	5.0
4710.0	9000.0	-1.5	1.0	0.0	4.5
4730.0	9000.0	-2.0	1.0	0.0	3.5
4750.0	9000.0	-3.0	1.0	-1.0	3.0
4770.0	9000.0	-1.0	1.0	0.0	2.0
4790.0	9000.0	-1.5	0.0	0.0	1.0
4810.0	9000.0	-1.0	0.0	0.0	-1.0
4830.0	9000.0	0.0	-0.5	1.0	-3.0
4850.0	9000.0	-2.0	-1.0	-1.0	-4.0
4870.0	9000.0	-1.0	-1.5	-2.5	-6.0
4890.0	9000.0	-1.0	-0.1	-1.0	-4.0
4910.0	9000.0	-1.0	0.0	-1.0	0.0
4930.0	9000.0	-1.5	1.0	-0.5	5.0
4950.0	9000.0	-1.0	2.0	1.5	6.0
4090.0	9100.0	-3.5	1.5	0.5	4.0
4110.0	9100.0	-2.0	2.0	1.0	6.5
4130.0	9100.0	-1.5	1.5	0.5	5.5
4150.0	9100.0	-1.5	1.5	-0.5	4.5
4170.0	9100.0	-1.5	1.0	-0.5	4.0
4190.0	9100.0	-2.5	1.0	-0.5	3.5
4210.0	9100.0	-1.5	1.0	-0.5	4.0
4230.0	9100.0	-1.5	1.5	1.0	4.5
4250.0	9100.0	-0.5	2.0	2.5	6.0
4270.0	9100.0	-1.0	2.0	1.0	5.0
4290.0	9100.0	-2.0	-2.0	-3.5	-7.0
4310.0	9100.0	-3.0	-5.0	-10.0	-13.0
4330.0	9100.0	-4.0	-6.5	-13.0	-16.0
4350.0	9100.0	-5.0	-7.5	-25.5	-16.0
4370.0	9100.0	-5.5	-5.0	-11.5	-8.5
4390.0	9100.0	-3.5	1.5	-1.5	6.0
4410.0	9100.0	-1.5	4.0	5.5	8.5
4430.0	9100.0	-1.5	4.0	5.0	8.0
4450.0	9100.0	-1.5	4.0	3.5	7.0
4470.0	9100.0	-1.0	2.5	4.0	6.0
4490.0	9100.0	0.0	2.0	2.0	5.0
4510.0	9100.0	1.0	1.5	2.0	2.5
4530.0	9100.0	-2.5	0.5	-0.5	0.5
4550.0	9100.0	-2.5	0.0	-2.5	-1.5
4570.0	9100.0	-2.0	-0.5	-3.0	-2.0
4590.0	9100.0	-3.0	0.0	-3.0	0.0

4610.0	9100.0	-2.5	0.5	-2.5	2.0
4630.0	9100.0	-3.0	1.0	-2.0	3.5
4650.0	9100.0	-2.0	1.0	-1.0	4.5
4670.0	9100.0	-0.5	1.5	0.5	5.5
4690.0	9100.0	-1.0	2.0	2.0	6.0
4710.0	9100.0	-1.0	2.0	2.0	5.5
4730.0	9100.0	-1.0	1.5	2.0	4.0
4750.0	9100.0	-1.0	1.5	2.0	3.0
4770.0	9100.0	0.0	1.0	2.0	1.0
4790.0	9100.0	-2.0	0.5	0.0	-1.0
4810.0	9100.0	-1.0	-0.5	-1.0	-3.5
4830.0	9100.0	-1.5	-1.0	-1.5	-5.5
4850.0	9100.0	-1.0	-1.0	-1.0	-5.5
4870.0	9100.0	-2.0	-1.0	-2.0	-4.0
4890.0	9100.0	-1.0	0.0	-1.0	-1.0
4910.0	9100.0	-1.0	1.0	1.0	3.0
4930.0	9100.0	-1.0	1.5	1.0	5.5
4950.0	9100.0	-2.0	1.5	0.0	5.5
4070.0	9200.0	-3.0	2.5	0.0	7.5
4090.0	9200.0	-7.0	2.5	-5.0	7.0
4110.0	9200.0	-2.0	2.5	0.0	7.0
4130.0	9200.0	1.0	2.0	2.0	6.5
4150.0	9200.0	-3.0	2.5	-0.5	6.0
4170.0	9200.0	-3.0	2.0	1.0	5.0
4190.0	9200.0	-2.5	2.0	-0.5	5.5
4210.0	9200.0	-3.0	2.0	0.0	6.0
4230.0	9200.0	-1.5	2.5	-0.5	7.5
4250.0	9200.0	-1.5	1.5	0.0	2.0
4270.0	9200.0	-3.0	-1.5	-6.0	-8.0
4290.0	9200.0	-4.0	-4.0	-10.0	-14.0
4310.0	9200.0	-4.0	-6.0	-15.0	-17.5
4330.0	9200.0	-5.5	-7.5	-20.0	-19.5
4350.0	9200.0	0.0	-3.5	-9.0	-7.0
4370.0	9200.0	-1.5	2.5	1.0	7.0
4390.0	9200.0	-2.5	3.5	4.5	9.0
4410.0	9200.0	0.0	4.0	6.0	8.5
4430.0	9200.0	0.0	3.5	5.5	8.5
4450.0	9200.0	0.0	3.0	5.0	8.0
4470.0	9200.0	0.5	3.0	5.0	7.5
4490.0	9200.0	1.0	2.0	5.5	5.0
4510.0	9200.0	0.0	1.0	2.0	1.0
4530.0	9200.0	-1.0	-1.0	0.0	-4.0
4550.0	9200.0	-1.5	-2.0	-2.5	-8.0
4570.0	9200.0	-3.0	-2.5	-5.0	-9.0
4590.0	9200.0	-2.0	-1.0	-3.0	-4.0
4610.0	9200.0	-2.5	0.5	-1.5	1.0
4630.0	9200.0	-2.0	2.5	0.5	6.5
4650.0	9200.0	-2.0	3.5	3.0	8.0
4670.0	9200.0	-1.5	4.0	2.5	7.5
4690.0	9200.0	-0.5	4.0	4.5	7.0
4710.0	9200.0	0.0	3.5	4.0	6.5
4730.0	9200.0	-1.0	3.0	2.0	5.5
4750.0	9200.0	-0.5	2.5	2.0	4.5
4770.0	9200.0	-0.5	1.5	2.0	1.5
4790.0	9200.0	-1.5	1.0	-0.5	-2.5
4810.0	9200.0	0.5	0.0	1.5	-5.0
4830.0	9200.0	1.5	-1.0	1.0	-6.0
4850.0	9200.0	1.5	-0.5	1.5	-5.0
4870.0	9200.0	1.0	0.0	1.0	-1.0
4890.0	9200.0	-1.0	1.0	1.5	3.0
4910.0	9200.0	-1.0	1.5	0.0	3.5
4930.0	9200.0	0.0	1.5	2.5	5.5
4950.0	9200.0	0.0	1.5	2.0	5.0
4070.0	9300.0	-2.0	2.5	-0.5	6.5
4090.0	9300.0	-4.0	2.5	-2.0	6.5
4110.0	9300.0	-2.5	2.0	-0.5	6.5
4130.0	9300.0	0.5	2.0	2.0	6.0
4150.0	9300.0	-3.0	2.5	-3.0	6.0
4170.0	9300.0	-2.5	2.0	-1.5	5.5
4190.0	9300.0	-2.5	2.0	-1.5	5.5
4210.0	9300.0	-2.5	2.0	0.0	6.0
4230.0	9300.0	-1.5	2.0	1.0	6.5
4250.0	9300.0	-2.0	3.0	1.5	9.0
4270.0	9300.0	-2.5	-0.5	-2.0	4.0
4290.0	9300.0	-1.0	-3.5	-7.5	-13.0
4310.0	9300.0	-1.0	-6.0	-13.5	-18.5
4330.0	9300.0	-1.5	-8.0	-17.5	-20.0
4350.0	9300.0	-2.5	-8.5	-21.5	-21.0
4370.0	9300.0	-1.0	-2.5	-7.0	-3.5
4390.0	9300.0	-0.5	2.0	1.0	7.0
4410.0	9300.0	0.0	3.5	5.5	9.5
4430.0	9300.0	0.0	4.0	5.5	9.5
4450.0	9300.0	0.0	3.5	5.0	9.0
4470.0	9300.0	0.5	3.0	4.5	9.0
4490.0	9300.0	1.0	3.0	5.0	9.5
4510.0	9300.0	2.0	2.0	4.0	6.0
4530.0	9300.0	2.0	0.5	2.0	0.0
4550.0	9300.0	1.5	-1.0	1.0	-5.0
4570.0	9300.0	2.5	-3.0	-2.5	-10.0
4590.0	9300.0	0.5	-4.5	-6.5	-13.5
4610.0	9300.0	-1.5	-2.5	-7.5	-7.5
4630.0	9300.0	-1.0	0.0	-1.0	0.0
4650.0	9300.0	0.5	2.0	3.0	4.5
4670.0	9300.0	0.5	3.0	5.5	7.0
4690.0	9300.0	3.0	4.0	8.5	8.0
4710.0	9300.0	1.0	4.0	6.0	8.0
4730.0	9300.0	0.0	4.0	6.0	8.0
4750.0	9300.0	2.5	3.5	6.0	7.5
4770.0	9300.0	0.0	2.5	3.0	5.0
4790.0	9300.0	-0.5	2.0	2.5	2.0
4810.0	9300.0	1.0	1.0	3.5	0.0
4830.0	9300.0	0.0	0.0	1.0	-2.5
4850.0	9300.0	0.0	0.0	1.0	-3.0
4870.0	9300.0	0.0	0.5	1.0	-1.0
4890.0	9300.0	0.0	1.0	0.0	1.5
4910.0	9300.0	-0.5	1.0	0.5	3.0
4930.0	9300.0	-1.0	1.5	-0.5	4.5
4950.0	9300.0	-1.0	1.5	1.0	5.5
4070.0	9400.0	1.0	2.0	3.0	5.5
4090.0	9400.0	1.0	2.0	2.0	5.5
4110.0	9400.0	-1.0	2.0	0.5	5.0
4130.0	9400.0	-0.5	2.0	1.0	5.0
4150.0	9400.0	-0.5	2.0	1.5	5.0
4170.0	9400.0	1.0	2.0	2.0	5.0
4190.0	9400.0	0.5	2.0	2.5	5.0
4210.0	9400.0	0.5	2.0	1.5	5.5
4230.0	9400.0	1.0	2.5	3.0	6.5
4250.0	9400.0	1.0	3.0	3.5	9.0
4270.0	9400.0	1.5	0.5	2.5	0.0
4290.0	9400.0	0.0	-2.5	-2.0	-10.0
4310.0	9400.0	2.0	-4.0	-3.5	-16.0
4330.0	9400.0	0.5	-5.5	-8.5	-18.0
4350.0	9400.0	1.5	-6.5	-9.0	-20.0
4370.0	9400.0	1.0	-2.0	-2.5	-5.0
4390.0	9400.0	0.0	2.0	3.0	8.0
4410.0	9400.0	0.5	3.5	6.0	11.0
4430.0	9400.0	-1.0	3.5	3.0	11.0
4450.0	9400.0	-2.0	2.5	3.0	9.5
4470.0	9400.0	-1.0	3.0	1.0	8.5
4490.0	9400.0	-1.5	2.5	1.0	7.5
4510.0	9400.0	-3.0	2.5	0.0	8.0
4530.0	9400.0	-1.5	2.0	0.5	7.0
4550.0	9400.0	-1.5	1.5	-0.5	3.0
4570.0	9400.0	-1.5	0.0	-1.5	-1.5
4590.0	9400.0	-0.5	-2.0	-1.5	-7.5
4610.0	9400.0	0.5	-3.0	-4.5	-10.5
4630.0	9400.0	-0.5	-2.5	-3.5	-8.0
4650.0	9400.0	-0.5	-1.0	-1.5	-3.5
4670.0	9400.0	0.5	1.0	1.5	2.5
4690.0	9400.0	-0.5	3.0	5.0	8.0
4710.0	9400.0	1.0	3.5	6.0	9.0
4730.0	9400.0	0.5	3.5	5.5	9.0
4750.0	9400.0	0.5	3.5	5.0	8.5
4770.0	9400.0	1.0	3.0	5.0	8.0

4790.0	9400.0	2.0	2.5	6.0	6.5
4810.0	9400.0	0.0	2.5	4.0	5.0
4830.0	9400.0	2.0	2.0	4.5	3.0
4850.0	9400.0	1.0	1.0	3.0	1.5
4870.0	9400.0	2.0	1.0	2.0	0.0
4890.0	9400.0	-0.5	1.0	0.5	1.0
4910.0	9400.0	-0.5	1.0	-0.5	1.5
4930.0	9400.0	-0.5	1.0	0.5	2.5
4950.0	9400.0	-1.0	1.0	-0.5	4.0
4070.0	9500.0	2.0	2.0	3.5	5.5
4090.0	9500.0	2.0	2.5	3.0	5.5
4110.0	9500.0	2.0	2.0	3.5	5.0
4130.0	9500.0	1.0	2.0	2.5	4.5
4150.0	9500.0	1.5	2.0	3.0	4.5
4170.0	9500.0	0.0	2.0	1.5	4.5
4190.0	9500.0	-1.0	2.0	-0.5	5.0
4210.0	9500.0	-1.0	2.0	-1.0	5.5
4230.0	9500.0	-1.0	2.0	-1.0	5.5
4250.0	9500.0	-2.5	2.0	-2.5	6.0
4270.0	9500.0	-1.0	2.0	-1.0	6.0
4290.0	9500.0	-1.5	0.0	-2.5	-1.0
4310.0	9500.0	-2.0	-1.0	-4.5	-6.0
4330.0	9500.0	-3.0	-2.5	-6.0	-9.0
4350.0	9500.0	-2.5	-3.5	-8.5	-12.0
4370.0	9500.0	-1.5	-2.5	-7.5	-8.0
4390.0	9500.0	-2.0	1.0	-1.0	5.5
4410.0	9500.0	-1.5	2.5	1.0	9.0
4430.0	9500.0	-1.5	2.5	0.0	8.5
4450.0	9500.0	-1.5	2.5	0.5	8.0
4470.0	9500.0	-1.5	2.5	1.5	7.5
4490.0	9500.0	-1.5	2.5	1.5	7.0
4510.0	9500.0	-1.5	2.0	0.5	6.5
4530.0	9500.0	-1.5	2.0	0.0	6.5
4550.0	9500.0	-1.0	2.0	0.0	7.0
4570.0	9500.0	-1.5	1.5	0.0	5.5
4590.0	9500.0	-1.5	1.5	-1.5	3.5
4610.0	9500.0	-3.0	-0.5	-2.5	-0.5
4630.0	9500.0	-2.5	-0.5	-3.5	-2.5
4650.0	9500.0	-3.5	-1.0	-5.5	-4.0
4670.0	9500.0	-3.0	-0.5	-5.0	-2.0
4690.0	9500.0	-3.0	1.0	-4.0	1.5
4710.0	9500.0	-2.5	1.5	-0.5	4.5
4730.0	9500.0	-3.0	2.0	-1.0	6.0
4750.0	9500.0	-2.5	2.0	0.0	7.0
4770.0	9500.0	-1.5	2.0	0.5	7.0
4790.0	9500.0	-1.0	2.0	1.0	7.0
4810.0	9500.0	-1.0	2.0	1.0	7.0
4830.0	9500.0	-1.5	2.0	1.0	6.5
4850.0	9500.0	-1.5	2.0	1.0	5.5
4870.0	9500.0	-2.5	1.5	-0.5	4.5
4890.0	9500.0	-2.0	1.0	-1.0	3.0
4910.0	9500.0	-2.5	1.0	-1.5	2.0
4930.0	9500.0	-1.0	1.0	-1.0	1.5
4950.0	9500.0	-1.5	1.0	-1.0	2.0
4070.0	9600.0	-0.5	2.0	0.5	4.5
4090.0	9600.0	-1.5	2.0	0.0	4.5
4110.0	9600.0	-0.5	2.0	0.5	4.5
4130.0	9600.0	1.0	2.0	2.5	4.5
4150.0	9600.0	0.0	2.0	1.0	4.5
4170.0	9600.0	-1.5	2.0	-0.5	4.5
4190.0	9600.0	-1.0	2.0	-0.5	4.5
4210.0	9600.0	-1.0	2.0	0.0	5.0
4230.0	9600.0	0.0	2.0	0.5	5.0
4250.0	9600.0	-1.0	2.0	-0.5	6.0
4270.0	9600.0	-1.0	2.5	1.0	7.5
4290.0	9600.0	-3.0	0.5	-2.5	-0.5
4310.0	9600.0	-3.0	-2.0	-5.0	-7.0
4330.0	9600.0	-2.5	-3.0	-5.5	-11.0
4350.0	9600.0	-2.5	-4.0	-6.5	-13.5
4370.0	9600.0	-2.5	-3.5	-7.5	-12.0
4390.0	9600.0	-2.5	-1.0	-5.0	-2.0
4410.0	9600.0	-1.5	1.5	-0.5	5.0
4430.0	9600.0	-1.5	2.5	0.5	8.0
4450.0	9600.0	-2.0	2.5	0.5	9.0
4470.0	9600.0	-2.5	2.5	1.5	8.5
4490.0	9600.0	1.5	2.5	4.0	7.5
4510.0	9600.0	1.5	2.0	3.5	7.0
4530.0	9600.0	1.0	2.0	2.5	6.5
4550.0	9600.0	0.0	2.0	2.0	6.0
4570.0	9600.0	0.5	1.5	0.5	5.0
4590.0	9600.0	-2.5	1.0	-1.5	3.5
4610.0	9600.0	0.0	1.0	2.0	2.0
4630.0	9600.0	-1.0	0.5	-1.0	0.5
4650.0	9600.0	-1.0	0.0	-1.0	-0.5
4670.0	9600.0	-0.5	0.0	-0.5	-0.5
4690.0	9600.0	-2.0	0.5	-1.0	1.5
4710.0	9600.0	-0.5	1.0	-0.5	3.0
4730.0	9600.0	-1.0	1.0	0.0	4.5
4750.0	9600.0	0.0	1.5	0.0	6.0
4770.0	9600.0	1.5	1.5	2.5	6.0
4790.0	9600.0	1.0	1.5	2.5	6.0
4810.0	9600.0	0.0	1.5	0.5	6.0
4830.0	9600.0	0.0	1.5	0.5	6.0
4850.0	9600.0	0.0	1.5	1.0	6.0
4870.0	9600.0	-0.5	1.5	0.5	6.0
4890.0	9600.0	-1.0	1.0	0.0	5.5
4910.0	9600.0	-0.5	1.0	0.0	5.5
4930.0	9600.0	-1.0	1.0	-0.5	5.5
4950.0	9600.0	-2.0	1.0	-1.0	5.0
4070.0	9700.0	-1.5	1.5	-1.0	4.0
4090.0	9700.0	-0.5	1.5	0.0	4.0
4110.0	9700.0	-0.5	1.5	0.0	4.0
4130.0	9700.0	0.0	1.5	1.0	4.0
4150.0	9700.0	0.0	1.5	0.5	4.0
4170.0	9700.0	-0.3	1.5	0.0	4.0
4190.0	9700.0	-3.5	1.5	-3.0	4.0
4210.0	9700.0	-2.0	1.5	-1.0	5.0
4230.0	9700.0	-0.5	2.0	0.5	5.5
4250.0	9700.0	-0.5	2.0	1.0	6.0
4270.0	9700.0	0.0	2.0	1.0	6.0
4290.0	9700.0	-1.0	-1.0	-2.0	-5.0
4310.0	9700.0	0.5	-2.5	-2.0	-9.0
4330.0	9700.0	0.0	-3.0	-3.5	-11.0
4350.0	9700.0	-1.5	-3.5	-6.0	-12.5
4370.0	9700.0	-2.0	-4.0	-7.5	-13.0
4390.0	9700.0	-4.0	1.5	-3.0	5.0
4410.0	9700.0	-1.5	3.0	2.5	10.5
4430.0	9700.0	-4.0	3.0	-0.5	11.0
4450.0	9700.0	-4.0	3.0	-0.5	9.0
4470.0	9700.0	-4.0	2.5	-2.0	8.0
4490.0	9700.0	-1.0	2.0	1.0	7.0
4510.0	9700.0	-2.5	1.5	-0.5	6.0
4530.0	9700.0	0.0	1.5	2.0	5.0
4550.0	9700.0	0.0	1.5	2.0	5.0
4570.0	9700.0	0.0	1.5	1.0	4.5
4590.0	9700.0	0.0	1.5	2.0	4.5
4610.0	9700.0	0.0	1.0	1.0	4.5
4630.0	9700.0	0.5	1.0	1.5	4.0
4650.0	9700.0	-1.5	1.0	-1.5	3.0
4670.0	9700.0	-0.5	0.5	-0.5	1.5
4690.0	9700.0	-0.5	0.0	-0.5	1.0
4710.0	9700.0	0.0	0.0	0.0	0.0
4730.0	9700.0	-2.0	0.5	-3.0	1.0
4750.0	9700.0	-2.0	0.5	-3.0	2.5
4770.0	9700.0	-2.0	1.0	-1.5	4.5
4790.0	9700.0	-1.0	1.5	-0.5	5.5
4810.0	9700.0	-2.0	1.5	-1.0	6.0
4830.0	9700.0	-2.0	1.5	-1.5	6.0
4850.0	9700.0	-1.5	1.5	-1.0	6.0
4870.0	9700.0	-1.0	1.5	-0.5	6.0
4890.0	9700.0	-4.0	1.0	-0.5	6.0
4910.0	9700.0	-1.5	1.0	-1.0	6.0
4930.0	9700.0	-1.5	1.5	-1.0	6.0
4950.0	9700.0	-2.0	1.5	-1.5	6.0

4070.0	9800.0	0.0	1.0	0.0	3.5
4070.0	9800.0	0.0	1.0	0.0	3.5
4090.0	9800.0	-0.5	1.0	-0.5	3.5
4090.0	9800.0	-0.5	1.0	-0.5	3.5
4110.0	9800.0	-0.5	1.0	0.0	3.5
4110.0	9800.0	-0.5	1.0	0.0	3.5
4130.0	9800.0	-0.5	1.0	0.0	3.0
4130.0	9800.0	-0.5	1.0	0.0	3.0
4150.0	9800.0	1.5	1.0	2.0	3.5
4150.0	9800.0	1.5	1.0	2.0	3.5
4170.0	9800.0	1.0	1.0	1.5	3.5
4170.0	9800.0	1.0	1.0	1.5	3.5
4190.0	9800.0	0.5	1.5	0.5	4.0
4190.0	9800.0	0.5	1.5	0.5	4.0
4210.0	9800.0	0.5	1.5	1.0	4.0
4210.0	9800.0	0.5	1.5	1.0	4.0
4230.0	9800.0	-1.0	1.5	0.0	4.5
4230.0	9800.0	-1.0	1.5	0.0	4.5
4250.0	9800.0	-0.5	1.5	0.5	5.0
4250.0	9800.0	-0.5	1.5	0.5	5.0
4270.0	9800.0	-0.5	2.0	0.5	7.0
4270.0	9800.0	-0.5	2.0	0.5	7.0
4290.0	9800.0	-0.5	2.0	0.5	6.0
4290.0	9800.0	-0.5	2.0	0.5	6.0
4310.0	9800.0	0.5	1.0	0.5	1.5
4310.0	9800.0	0.5	1.0	0.5	1.5
4330.0	9800.0	0.0	-0.5	0.0	-1.5
4330.0	9800.0	0.0	-0.5	0.0	-1.5
4350.0	9800.0	-1.0	-1.0	-1.5	-4.0
4350.0	9800.0	-1.0	-1.0	-1.5	-4.0
4370.0	9800.0	-0.5	-2.0	-2.0	-7.0
4370.0	9800.0	-0.5	-2.0	-2.0	-7.0
4390.0	9800.0	0.0	-1.0	-1.5	-3.5
4390.0	9800.0	0.0	-1.0	-1.5	-3.5
4410.0	9800.0	-1.5	1.0	-0.5	4.0
4410.0	9800.0	-1.5	1.0	-0.5	4.0
4430.0	9800.0	-2.5	1.5	-1.0	6.5
4430.0	9800.0	-2.5	1.5	-1.0	6.5
4450.0	9800.0	-1.5	2.0	0.5	6.5
4450.0	9800.0	-1.5	2.0	0.5	6.5
4470.0	9800.0	-2.0	1.5	-1.0	7.0
4470.0	9800.0	-2.0	1.5	-1.0	7.0
4490.0	9800.0	-1.0	1.5	1.0	7.0
4490.0	9800.0	-1.0	1.5	1.0	7.0
4510.0	9800.0	-1.5	2.0	1.0	7.0
4510.0	9800.0	-1.5	2.0	1.0	7.0
4530.0	9800.0	-1.5	2.0	1.5	6.5
4530.0	9800.0	-1.5	2.0	1.5	6.5
4550.0	9800.0	1.0	2.0	3.5	6.0
4550.0	9800.0	1.0	2.0	3.5	6.0
4570.0	9800.0	-0.5	2.0	2.0	6.0
4570.0	9800.0	-0.5	2.0	2.0	6.0
4590.0	9800.0	-1.0	1.5	2.0	5.5
4590.0	9800.0	-1.0	1.5	2.0	5.5
4610.0	9800.0	-1.0	1.5	1.0	4.5
4610.0	9800.0	-1.0	1.5	1.0	4.5
4630.0	9800.0	-1.5	1.5	0.0	5.0
4630.0	9800.0	-1.5	1.5	0.0	5.0
4650.0	9800.0	-1.5	1.5	0.0	5.0
4650.0	9800.0	-1.5	1.5	0.0	5.0
4670.0	9800.0	-2.0	1.5	-0.5	5.0
4670.0	9800.0	-2.0	1.5	-0.5	5.0
4690.0	9800.0	-2.0	1.5	-1.0	5.0
4690.0	9800.0	-2.0	1.5	-1.0	5.0
4710.0	9800.0	-3.0	1.5	-2.0	5.0
4710.0	9800.0	-3.0	1.5	-2.0	5.0
4730.0	9800.0	-3.0	1.0	-2.0	4.5
4730.0	9800.0	-3.0	1.0	-2.0	4.5
4750.0	9800.0	-4.5	1.0	-3.5	4.5
4750.0	9800.0	-4.5	1.0	-3.5	4.5
4770.0	9800.0	-4.0	1.0	-3.5	4.5
4770.0	9800.0	-4.0	1.0	-3.5	4.5
4790.0	9800.0	-4.0	1.0	-3.0	5.0
4790.0	9800.0	-4.0	1.0	-3.0	5.0
4810.0	9800.0	-2.5	1.0	-2.0	5.0
4810.0	9800.0	-2.5	1.0	-2.0	5.0
4830.0	9800.0	-2.0	1.0	-1.5	5.5
4830.0	9800.0	-2.0	1.0	-1.5	5.5
4850.0	9800.0	-0.5	1.0	0.0	6.0
4850.0	9800.0	-0.5	1.0	0.0	6.0
4870.0	9800.0	-1.0	1.5	-0.5	6.0
4870.0	9800.0	-1.0	1.5	-0.5	6.0
4890.0	9800.0	-0.5	1.0	0.0	5.0
4890.0	9800.0	-0.5	1.0	0.0	5.0
4910.0	9800.0	-1.0	1.0	-1.0	4.5
4910.0	9800.0	-1.0	1.0	-1.0	4.5
4930.0	9800.0	-2.0	1.0	-1.5	4.0
4930.0	9800.0	-2.0	1.0	-1.5	4.0
4950.0	9800.0	-1.5	1.0	-0.5	5.0
4950.0	9800.0	-1.5	1.0	-0.5	5.0
4970.0	9800.0	1.0	1.0	1.0	6.0
4990.0	9800.0	-0.5	1.5	-0.5	6.5
5010.0	9800.0	-0.5	1.5	0.5	7.0
5030.0	9800.0	-1.0	1.5	-1.0	7.0
5050.0	9800.0	-2.0	1.5	-2.0	6.5
5070.0	9800.0	-2.5	1.0	-2.0	6.0
5090.0	9800.0	-1.5	1.0	-1.0	6.0
5110.0	9800.0	-1.5	1.0	-1.5	5.5
5130.0	9800.0	-2.0	1.0	-1.0	5.5
5150.0	9800.0	-2.5	1.0	-1.5	5.5
5170.0	9800.0	-1.0	1.5	-0.5	6.0
5190.0	9800.0	-1.5	1.5	-0.5	6.5
5210.0	9800.0	-0.5	2.5	1.5	7.5
5230.0	9800.0	-0.5	3.0	2.5	8.5
5250.0	9800.0	0.5	4.0	4.0	9.5
5270.0	9800.0	2.0	5.0	7.5	9.0
5290.0	9800.0	2.5	5.5	9.0	7.0
5310.0	9800.0	4.5	6.0	11.5	4.5
5330.0	9800.0	6.5	6.0	13.5	2.0
5350.0	9800.0	6.5	6.0	12.5	2.0
5370.0	9800.0	5.5	6.0	12.0	3.5
5390.0	9800.0	4.0	5.0	10.0	5.5
5410.0	9800.0	3.0	4.0	9.5	7.0
5430.0	9800.0	2.0	4.0	7.5	7.5
5450.0	9800.0	0.5	3.5	5.5	6.0
5470.0	9800.0	0.5	3.0	4.5	5.5
5490.0	9800.0	1.5	2.5	5.5	5.5
5510.0	9800.0	0.0	2.5	4.0	5.5
5530.0	9800.0	1.5	3.0	5.5	7.0
5550.0	9800.0	1.0	2.5	5.0	6.0
5570.0	9800.0	1.5	2.5	5.0	5.0
5590.0	9800.0	1.0	2.0	4.0	3.5
5610.0	9800.0	1.5	2.0	4.5	3.0
5630.0	9800.0	0.0	2.5	4.0	4.0
5650.0	9800.0	0.5	5.0	7.5	12.0
5670.0	9800.0	1.5	8.0	14.5	18.5
5690.0	9800.0	-2.5	5.0	5.0	9.5
5710.0	9800.0	-4.0	-0.5	-3.5	-5.5
5730.0	9800.0	-4.5	-3.0	-8.5	-10.0
5750.0	9800.0	2.0	-5.0	-5.0	-13.0
5770.0	9800.0	2.5	-6.0	-3.5	-13.5
5790.0	9800.0	1.0	-1.0	1.0	-4.0
5810.0	9800.0	0.5	5.0	8.5	10.0
5830.0	9800.0	0.0	6.5	8.5	12.0
5850.0	9800.0	1.5	6.5	10.5	11.5
5870.0	9800.0	3.0	6.0	9.0	9.0
5890.0	9800.0	4.0	5.0	11.0	5.0
5910.0	9800.0	2.5	3.5	7.5	2.5
5930.0	9800.0	3.5	3.0	6.5	2.5
5950.0	9800.0	3.0	2.0	4.5	1.5
4030.0	9900.0	99999.0	99999.0	99999.0	99999.0
4050.0	9900.0	99999.0	99999.0	99999.0	99999.0
4070.0	9900.0	-3.0	1.0	-2.0	4.0
4070.0	9900.0	-3.0	1.0	-2.0	4.0

4090.0	9900.0	-3.5	1.0	-3.0	4.0
4090.0	9900.0	-3.5	1.0	-3.0	4.0
4110.0	9900.0	-3.0	1.0	-2.5	4.0
4110.0	9900.0	-3.0	1.0	-2.5	4.0
4130.0	9900.0	-4.0	1.0	-3.5	4.0
4130.0	9900.0	-4.0	1.0	-3.5	4.0
4150.0	9900.0	-3.0	1.0	-2.5	4.5
4150.0	9900.0	-3.0	1.0	-2.5	4.5
4170.0	9900.0	-4.5	1.0	-4.0	4.5
4170.0	9900.0	-4.5	1.0	-4.0	4.5
4190.0	9900.0	-2.5	1.5	-2.5	5.0
4190.0	9900.0	-2.5	1.5	-2.5	5.0
4210.0	9900.0	-2.0	1.5	-1.5	5.5
4210.0	9900.0	-2.0	1.5	-1.5	5.5
4230.0	9900.0	-2.0	2.0	-1.0	6.5
4230.0	9900.0	-2.0	2.0	-1.0	6.5
4250.0	9900.0	-0.5	1.5	-0.5	6.0
4250.0	9900.0	-0.5	1.5	-0.5	6.0
4270.0	9900.0	-2.0	2.0	-2.0	6.5
4270.0	9900.0	-2.0	2.0	-2.0	6.5
4290.0	9900.0	-2.5	2.0	-1.5	7.0
4290.0	9900.0	-2.5	2.0	-1.5	7.0
4310.0	9900.0	-2.5	2.0	-1.0	8.0
4310.0	9900.0	-2.5	2.0	-1.0	8.0
4330.0	9900.0	-2.5	3.0	-0.5	10.0
4330.0	9900.0	-2.5	3.0	-0.5	10.0
4350.0	9900.0	-2.5	2.5	-0.5	8.0
4350.0	9900.0	-2.5	2.5	-0.5	8.0
4370.0	9900.0	-3.0	1.5	-1.0	4.0
4370.0	9900.0	-3.0	1.5	-1.0	4.0
4390.0	9900.0	-2.5	0.0	-2.5	-2.0
4390.0	9900.0	-2.5	0.0	-2.5	-2.0
4410.0	9900.0	-2.0	-2.0	-5.0	-8.0
4410.0	9900.0	-2.0	-2.0	-5.0	-8.0
4430.0	9900.0	-2.5	-3.0	-7.5	-10.0
4430.0	9900.0	-2.5	-3.0	-7.5	-10.0
4450.0	9900.0	-2.5	-2.0	-6.5	-6.0
4450.0	9900.0	-2.5	-2.0	-6.5	-6.0
4470.0	9900.0	-3.0	-0.5	-4.5	0.5
4470.0	9900.0	-3.0	-0.5	-4.5	0.5
4490.0	9900.0	-3.0	1.5	-1.5	6.0
4490.0	9900.0	-3.0	1.5	-1.5	6.0
4510.0	9900.0	-3.0	2.5	0.0	8.5
4510.0	9900.0	-3.0	2.5	0.0	8.5
4530.0	9900.0	-3.5	3.0	0.0	9.0
4530.0	9900.0	-3.5	3.0	0.0	9.0
4550.0	9900.0	-3.5	3.0	1.0	9.0
4550.0	9900.0	-3.5	3.0	1.0	9.0
4570.0	9900.0	-2.0	3.0	3.0	8.0
4570.0	9900.0	-2.0	3.0	3.0	8.0
4590.0	9900.0	-3.0	2.5	1.5	7.5
4590.0	9900.0	-3.0	2.5	1.5	7.5
4610.0	9900.0	-2.0	2.5	1.5	7.0
4610.0	9900.0	-2.0	2.5	1.5	7.0
4630.0	9900.0	-2.5	2.0	0.5	6.5
4630.0	9900.0	-2.5	2.0	0.5	6.5
4650.0	9900.0	-2.0	2.0	1.0	6.0
4650.0	9900.0	-2.0	2.0	1.0	6.0
4670.0	9900.0	-3.0	2.0	-1.0	6.0
4670.0	9900.0	-3.0	2.0	-1.0	6.0
4690.0	9900.0	-2.0	1.5	0.0	5.5
4690.0	9900.0	-2.0	1.5	0.0	5.5
4710.0	9900.0	-1.5	1.5	0.0	5.0
4710.0	9900.0	-1.5	1.5	0.0	5.0
4730.0	9900.0	-1.0	1.5	0.5	5.0
4730.0	9900.0	-1.0	1.5	0.5	5.0
4750.0	9900.0	-2.0	1.5	-0.5	6.0
4750.0	9900.0	-2.0	1.5	-0.5	6.0
4770.0	9900.0	-1.0	1.5	0.0	6.0
4770.0	9900.0	-1.0	1.5	0.0	6.0
4790.0	9900.0	-1.0	1.5	-0.5	6.0
4790.0	9900.0	-1.0	1.5	-0.5	6.0
4810.0	9900.0	-1.5	1.5	-1.0	6.0
4810.0	9900.0	-1.5	1.5	-1.0	6.0
4830.0	9900.0	-2.5	1.5	-1.5	6.0
4830.0	9900.0	-2.5	1.5	-1.5	6.0
4850.0	9900.0	-2.5	1.5	-2.5	6.5
4850.0	9900.0	-2.5	1.5	-2.5	6.5
4870.0	9900.0	-1.5	1.5	-1.0	6.0
4870.0	9900.0	-1.5	1.5	-1.0	6.0
4890.0	9900.0	-1.0	1.0	-0.5	5.5
4890.0	9900.0	-1.0	1.0	-0.5	5.5
4910.0	9900.0	0.5	1.0	0.0	5.0
4910.0	9900.0	0.5	1.0	0.0	5.0
4930.0	9900.0	-1.0	1.0	-0.5	5.0
4930.0	9900.0	-1.0	1.0	-0.5	5.0
4950.0	9900.0	-0.5	1.0	0.0	5.0
4950.0	9900.0	-0.5	1.0	0.0	5.0
4970.0	9900.0	0.0	1.0	0.5	5.5
4990.0	9900.0	-0.5	1.5	0.5	6.5
5010.0	9900.0	-1.5	2.0	-0.5	7.5
5030.0	9900.0	-1.0	1.5	0.5	7.5
5050.0	9900.0	-0.5	1.5	1.0	6.0
5070.0	9900.0	-1.5	1.0	-2.0	3.0
5090.0	9900.0	-2.5	-1.0	-5.5	-2.0
5110.0	9900.0	-1.5	-2.0	-6.5	-3.5
5130.0	9900.0	-1.0	0.5	-4.0	5.0
5150.0	9900.0	0.0	5.5	5.0	18.0
5170.0	9900.0	1.5	10.5	23.0	27.0
5190.0	9900.0	1.5	7.0	21.0	7.5
5210.0	9900.0	-1.0	-2.5	-1.0	-13.5
5230.0	9900.0	-4.0	-10.0	-18.0	-18.5
5250.0	9900.0	-7.5	-15.0	-29.5	-20.0
5270.0	9900.0	-7.0	-13.0	-24.0	-16.5
5290.0	9900.0	-0.5	-2.0	-5.0	-12.0
5310.0	9900.0	3.5	6.5	9.5	-4.0
5330.0	9900.0	4.0	8.0	14.5	2.0
5350.0	9900.0	4.5	8.5	16.0	7.0
5370.0	9900.0	1.0	7.0	13.0	10.0
5390.0	9900.0	1.0	6.5	12.0	13.0
5410.0	9900.0	0.0	6.5	9.5	16.0
5430.0	9900.0	-0.5	6.0	8.0	15.0
5450.0	9900.0	-2.5	5.0	5.0	12.5
5470.0	9900.0	-2.0	3.5	5.0	9.0
5490.0	9900.0	-1.0	3.0	4.0	6.5
5510.0	9900.0	-1.0	2.0	3.0	4.0
5530.0	9900.0	0.0	2.0	3.5	2.5
5550.0	9900.0	-0.5	1.0	2.5	1.5
5570.0	9900.0	0.0	1.5	2.5	1.5
5590.0	9900.0	0.5	1.0	2.0	-1.0
5610.0	9900.0	0.5	0.5	2.0	-2.0
5630.0	9900.0	0.5	1.0	3.0	-1.0
5650.0	9900.0	2.0	1.5	5.0	0.0
5670.0	9900.0	1.5	2.5	6.5	2.5
5690.0	9900.0	1.5	5.0	9.5	9.5
5710.0	9900.0	2.5	7.0	14.5	14.0
5730.0	9900.0	1.0	5.5	12.5	7.0
5750.0	9900.0	-0.5	1.0	4.0	-7.5
5770.0	9900.0	-3.0	-5.0	-8.0	-18.5
5790.0	9900.0	-5.0	-9.0	-19.0	-24.0
5810.0	9900.0	-3.5	-10.5	-19.5	-25.0
5830.0	9900.0	-2.0	-7.0	-14.0	-19.0
5850.0	9900.0	0.0	1.5	1.0	-2.5
5870.0	9900.0	3.0	8.0	13.5	13.0
5890.0	9900.0	2.0	-4.0	-8.0	-16.0
5910.0	9900.0	-1.5	-11.5	-23.5	-21.0
5930.0	9900.0	-2.5	-13.5	-27.5	-21.0
5950.0	9900.0	-3.0	-13.5	-27.0	-22.0
4000.0	9910.0	99999.0	99999.0	99999.0	99999.0
4000.0	9930.0	99999.0	99999.0	99999.0	99999.0
4000.0	9950.0	-2.5	1.0	-2.5	4.0
4000.0	9970.0	-2.0	0.5	-1.5	2.0
4000.0	9990.0	-1.0	-0.5	-0.5	-1.5
3050.0	10000.0	1.5	0.5	2.0	-1.0

3070.0	10000.0	0.5	0.5	0.5	-1.5
3090.0	10000.0	1.0	1.0	1.5	0.5
3110.0	10000.0	0.0	1.5	1.5	3.0
3130.0	10000.0	0.0	2.5	1.5	7.0
3150.0	10000.0	-0.5	3.0	2.0	9.0
3170.0	10000.0	-0.5	3.0	1.5	9.0
3190.0	10000.0	-0.5	3.0	1.0	9.5
3210.0	10000.0	-1.0	3.0	1.0	8.5
3230.0	10000.0	-0.5	2.5	1.0	8.0
3250.0	10000.0	0.5	2.0	2.0	6.5
3270.0	10000.0	1.0	2.0	3.0	5.0
3290.0	10000.0	-1.0	1.5	0.5	5.0
3310.0	10000.0	-1.0	2.0	1.0	6.0
3330.0	10000.0	-1.5	2.5	0.0	7.0
3350.0	10000.0	-2.0	2.0	-0.5	7.0
3370.0	10000.0	-2.0	1.5	-0.5	4.5
3390.0	10000.0	-0.5	1.5	1.0	3.5
3410.0	10000.0	0.5	1.0	1.5	1.5
3430.0	10000.0	-0.5	0.5	0.0	0.5
3450.0	10000.0	0.5	1.0	1.0	2.0
3470.0	10000.0	1.0	1.0	2.5	2.5
3490.0	10000.0	1.0	1.0	2.0	2.0
3510.0	10000.0	1.0	1.5	2.0	5.0
3530.0	10000.0	1.0	2.5	3.0	6.0
3550.0	10000.0	1.0	2.5	2.0	6.0
3570.0	10000.0	1.0	2.5	2.0	6.0
3590.0	10000.0	1.0	2.0	2.0	5.0
3610.0	10000.0	0.5	2.0	1.5	5.0
3630.0	10000.0	1.0	2.0	2.0	4.0
3650.0	10000.0	1.0	1.5	1.5	4.0
3670.0	10000.0	-0.5	1.5	0.0	3.5
3690.0	10000.0	0.0	1.5	1.0	3.5
3710.0	10000.0	-0.5	1.5	-0.5	3.5
3730.0	10000.0	2.0	1.5	1.0	3.5
3750.0	10000.0	-1.0	1.5	-1.0	3.5
3770.0	10000.0	-0.5	1.5	-0.5	3.5
3790.0	10000.0	-0.5	1.0	0.0	4.0
3810.0	10000.0	-2.5	1.0	-2.0	4.0
3830.0	10000.0	-3.0	1.5	-3.0	4.0
3850.0	10000.0	-2.0	1.5	-1.5	4.0
3870.0	10000.0	-0.5	1.5	-0.5	4.5
3890.0	10000.0	-1.0	1.5	-1.0	5.0
3910.0	10000.0	0.5	2.0	1.0	6.0
3930.0	10000.0	0.5	2.0	1.5	6.0
3950.0	10000.0	-1.0	1.5	0.0	5.5
3970.0	10000.0	-2.0	1.5	-1.0	5.5
3990.0	10000.0	-1.5	1.5	0.5	5.5
4010.0	10000.0	-2.5	1.0	-1.5	2.5
4030.0	10000.0	-2.0	1.0	-0.5	2.5
4050.0	10000.0	-1.5	1.0	0.0	2.5
4070.0	10000.0	-2.0	1.0	-0.5	2.5
4070.0	10000.0	-2.0	1.0	-0.5	2.5
4090.0	10000.0	-1.0	0.0	0.0	0.0
4090.0	10000.0	-1.0	0.0	0.0	0.0
4110.0	10000.0	-2.0	0.0	-1.5	-1.0
4110.0	10000.0	-2.0	0.0	-1.5	-1.0
4130.0	10000.0	-1.5	0.0	-1.0	-1.0
4130.0	10000.0	-1.5	0.0	-1.0	-1.0
4150.0	10000.0	0.0	-1.0	-1.0	-4.0
4150.0	10000.0	0.0	-1.0	-1.0	-4.0
4170.0	10000.0	-1.0	-1.0	-1.5	-3.5
4170.0	10000.0	-1.0	-1.0	-1.5	-3.5
4190.0	10000.0	-0.5	-1.0	-1.0	-4.0
4190.0	10000.0	-0.5	-1.0	-1.0	-4.0
4210.0	10000.0	0.0	-0.5	0.0	-3.0
4210.0	10000.0	0.0	-0.5	0.0	-3.0
4230.0	10000.0	-1.0	-0.5	-1.0	-3.0
4230.0	10000.0	-1.0	-0.5	-1.0	-3.0
4250.0	10000.0	-1.0	-0.5	-1.0	-3.5
4250.0	10000.0	-1.0	-0.5	-1.0	-3.5
4270.0	10000.0	-1.5	0.5	-0.5	0.5
4270.0	10000.0	-1.5	0.5	-0.5	0.5
4290.0	10000.0	-1.5	2.0	1.5	6.0
4290.0	10000.0	-1.5	2.0	1.5	6.0
4310.0	10000.0	-2.5	4.5	1.0	14.0
4310.0	10000.0	-2.5	4.5	1.0	14.0
4330.0	10000.0	-1.0	7.0	4.0	25.0
4330.0	10000.0	-1.0	7.0	4.0	25.0
4350.0	10000.0	-0.5	8.0	8.0	28.0
4350.0	10000.0	-0.5	8.0	8.0	28.0
4370.0	10000.0	0.0	9.0	11.0	29.0
4370.0	10000.0	0.0	9.0	11.0	29.0
4390.0	10000.0	-0.5	3.5	6.5	5.5
4390.0	10000.0	-0.5	3.5	6.5	5.5
4410.0	10000.0	-4.0	-3.5	-9.0	-15.0
4410.0	10000.0	-4.0	-3.5	-9.0	-15.0
4430.0	10000.0	-3.0	-6.0	-13.5	-20.0
4430.0	10000.0	-3.0	-6.0	-13.5	-20.0
4450.0	10000.0	-3.5	-8.0	-15.5	-22.0
4450.0	10000.0	-3.5	-8.0	-15.5	-22.0
4470.0	10000.0	-4.0	-6.0	-16.5	-18.5
4470.0	10000.0	-4.0	-6.0	-16.5	-18.5
4490.0	10000.0	-2.0	0.5	1.0	0.5
4490.0	10000.0	-2.0	0.5	-1.0	0.5
4510.0	10000.0	-0.5	4.0	10.0	10.5
4510.0	10000.0	-0.5	4.0	10.0	10.5
4530.0	10000.0	-1.5	4.5	8.0	11.0
4530.0	10000.0	-1.5	4.5	8.0	11.0
4550.0	10000.0	0.0	4.5	8.5	12.5
4550.0	10000.0	0.0	4.5	8.5	12.5
4570.0	10000.0	-0.5	5.5	9.5	14.0
4570.0	10000.0	-0.5	5.5	9.5	14.0
4590.0	10000.0	-0.5	5.5	8.5	14.0
4590.0	10000.0	-0.5	5.5	8.5	14.0
4610.0	10000.0	-0.5	5.0	7.5	13.0
4610.0	10000.0	-0.5	5.0	7.5	13.0
4630.0	10000.0	0.0	4.5	6.5	12.0
4630.0	10000.0	0.0	4.5	6.5	12.0
4650.0	10000.0	-1.0	4.5	5.5	12.5
4650.0	10000.0	-1.0	4.5	5.5	12.5
4670.0	10000.0	-0.5	4.0	4.5	11.5
4670.0	10000.0	-0.5	4.0	4.5	11.5
4690.0	10000.0	-1.5	3.5	2.5	11.0
4690.0	10000.0	-1.5	3.5	2.5	11.0
4710.0	10000.0	-1.0	3.0	2.5	10.5
4710.0	10000.0	-1.0	3.0	2.5	10.5
4730.0	10000.0	-0.5	3.0	2.5	9.5
4730.0	10000.0	-0.5	3.0	2.5	9.5
4750.0	10000.0	1.0	2.5	3.5	9.0
4750.0	10000.0	1.0	2.5	3.5	9.0
4770.0	10000.0	0.5	2.5	2.5	8.5
4770.0	10000.0	0.5	2.5	2.5	8.5
4790.0	10000.0	0.0	2.0	2.0	8.0
4790.0	10000.0	0.0	2.0	2.0	8.0
4810.0	10000.0	-1.5	2.0	0.0	7.0
4810.0	10000.0	-1.5	2.0	0.0	7.0
4830.0	10000.0	-2.0	2.0	-0.5	7.0
4830.0	10000.0	-2.0	2.0	-0.5	7.0
4850.0	10000.0	-3.0	1.5	-2.0	6.5
4850.0	10000.0	-3.0	1.5	-2.0	6.5
4870.0	10000.0	-1.5	1.5	0.0	6.5
4870.0	10000.0	-1.5	1.5	0.0	6.5
4890.0	10000.0	-2.5	1.5	-1.5	6.5
4890.0	10000.0	-2.5	1.5	-1.5	6.5
4910.0	10000.0	-2.0	1.5	-0.5	6.5
4910.0	10000.0	-2.0	1.5	-0.5	6.5
4930.0	10000.0	-1.0	1.5	0.5	7.0
4930.0	10000.0	-1.0	1.5	0.5	7.0
4950.0	10000.0	-1.0	2.0	0.0	7.0
4950.0	10000.0	-1.0	2.0	0.0	7.0
4970.0	10000.0	-0.5	1.5	0.5	6.5
4990.0	10000.0	-0.5	1.5	0.5	6.0
5010.0	10000.0	-0.5	1.5	0.0	6.0
5030.0	10000.0	0.5	1.5	1.5	5.5

5050.0	10000.0	1.5	1.0	3.0	6.0
5070.0	10000.0	1.0	1.5	2.0	6.5
5090.0	10000.0	1.5	1.5	3.0	6.5
5110.0	10000.0	2.0	1.5	2.0	6.0
5130.0	10000.0	2.5	1.0	3.5	3.5
5150.0	10000.0	1.5	0.5	2.5	1.5
5170.0	10000.0	1.5	1.0	2.5	2.0
5190.0	10000.0	1.0	1.5	4.0	5.5
5210.0	10000.0	2.0	2.5	6.0	9.0
5230.0	10000.0	0.0	3.0	6.0	10.5
5250.0	10000.0	0.0	2.5	5.0	7.0
5270.0	10000.0	-2.0	0.0	0.0	-3.0
5290.0	10000.0	-2.5	-2.0	-2.0	-8.5
5310.0	10000.0	-3.0	-0.5	-1.5	-5.0
5330.0	10000.0	-1.5	1.0	3.0	1.5
5350.0	10000.0	0.5	2.0	5.5	2.0
5370.0	10000.0	1.5	2.5	7.0	4.0
5390.0	10000.0	2.0	4.0	8.0	8.0
5410.0	10000.0	2.5	4.5	10.0	11.0
5430.0	10000.0	3.0	4.0	10.0	10.0
5450.0	10000.0	1.5	3.5	7.5	8.0
5470.0	10000.0	0.0	3.0	7.0	7.0
5490.0	10000.0	1.0	3.0	6.0	6.0
5510.0	10000.0	1.0	3.0	5.5	6.0
5530.0	10000.0	2.5	3.5	7.5	7.5
5550.0	10000.0	5.0	2.5	9.5	4.0
5570.0	10000.0	5.0	2.0	10.0	3.5
5590.0	10000.0	5.0	2.5	9.5	4.5
5610.0	10000.0	5.5	3.0	11.0	6.5
5630.0	10000.0	4.0	3.5	9.5	7.0
5650.0	10000.0	3.0	2.0	7.5	2.0
5670.0	10000.0	3.0	-0.5	5.5	-8.0
5690.0	10000.0	3.0	-2.0	2.5	-13.5
5710.0	10000.0	4.0	-2.5	1.5	-14.0
5730.0	10000.0	3.5	-2.0	1.5	-12.5
5750.0	10000.0	3.5	0.0	3.5	-3.5
5770.0	10000.0	5.0	2.0	8.5	1.0
5790.0	10000.0	6.0	3.5	14.5	-1.0
5810.0	10000.0	6.5	3.0	15.5	-9.0
5830.0	10000.0	6.5	1.0	11.5	-16.0
5850.0	10000.0	5.5	-4.0	-1.5	-23.0
5870.0	10000.0	1.5	-9.5	-15.5	-27.0
5890.0	10000.0	-2.5	-13.0	-22.5	-27.0
5910.0	10000.0	-3.0	-9.0	-16.5	-19.0
5930.0	10000.0	1.5	1.0	3.0	-3.5
5950.0	10000.0	6.0	1.5	7.5	-10.5
4000.0	10010.0	0.0	-2.0	-1.0	-6.5
4000.0	10030.0	-0.5	-3.5	-4.5	-11.0
4000.0	10050.0	-2.0	-4.0	-7.5	-12.0
4000.0	10070.0	-2.0	-3.5	-7.0	-8.5
4000.0	10090.0	0.0	-2.0	-3.5	-5.0
5050.0	10100.0	3.0	2.0	5.0	8.0
5070.0	10100.0	0.5	1.5	2.5	6.5
5090.0	10100.0	0.0	1.5	2.5	6.0
5110.0	10100.0	-0.5	1.0	1.5	3.5
5130.0	10100.0	-0.5	0.5	1.0	0.0
5150.0	10100.0	0.5	1.0	3.0	1.5
5170.0	10100.0	0.5	1.0	3.0	3.5
5190.0	10100.0	0.5	0.0	2.0	-1.0
5210.0	10100.0	-0.5	1.0	2.5	3.0
5230.0	10100.0	0.0	1.0	3.0	4.0
5250.0	10100.0	0.0	1.0	2.5	3.0
5270.0	10100.0	0.0	2.5	4.0	7.0
5290.0	10100.0	-1.5	4.0	5.5	11.5
5310.0	10100.0	-0.5	3.5	6.0	11.0
5330.0	10100.0	0.0	3.5	6.5	10.0
5350.0	10100.0	0.0	3.5	7.0	9.0
5370.0	10100.0	0.0	3.0	6.0	7.0
5390.0	10100.0	0.0	3.0	6.5	7.0
5410.0	10100.0	-0.5	3.0	5.0	6.0
5430.0	10100.0	-0.5	3.0	5.5	6.0
5450.0	10100.0	0.5	2.5	6.0	5.5
5470.0	10100.0	1.0	2.5	6.0	4.5
5490.0	10100.0	1.0	2.0	6.0	3.0
5510.0	10100.0	0.5	2.5	5.0	4.0
5530.0	10100.0	0.5	2.5	5.5	4.5
5550.0	10100.0	0.5	2.5	4.5	4.0
5570.0	10100.0	0.0	2.5	4.5	4.5
5590.0	10100.0	2.0	3.0	7.0	5.5
5610.0	10100.0	2.5	3.0	7.5	6.0
5630.0	10100.0	2.0	4.0	7.5	11.0
5650.0	10100.0	1.5	5.0	8.5	13.0
5670.0	10100.0	1.5	4.0	8.5	8.5
5690.0	10100.0	1.5	1.0	5.0	-3.0
5710.0	10100.0	0.0	-1.5	0.0	-11.0
5730.0	10100.0	0.5	-3.5	-3.0	-17.0
5750.0	10100.0	1.0	-4.5	-6.0	-19.0
5770.0	10100.0	1.5	-3.0	-3.5	-16.0
5790.0	10100.0	3.0	2.0	7.5	-4.0
5810.0	10100.0	4.0	3.5	13.0	-3.5
5830.0	10100.0	5.0	7.0	20.0	1.0
5850.0	10100.0	5.0	6.0	19.5	-1.5
5870.0	10100.0	3.0	1.0	7.5	-13.0
5890.0	10100.0	-1.5	-6.0	-10.5	-21.0
5910.0	10100.0	-11.5	-17.0	-25.5	-21.0
5930.0	10100.0	-9.5	-16.5	-34.5	-26.0
5950.0	10100.0	-6.0	-11.5	-23.0	-25.0
5970.0	10100.0	0.5	-6.0	-11.5	-26.0
5990.0	10100.0	5.5	-1.5	-2.5	-24.0
6010.0	10100.0	6.0	-1.5	-2.5	-25.0
6030.0	10100.0	8.0	1.0	3.5	-19.0
6050.0	10100.0	9.0	0.5	4.0	-18.0
6070.0	10100.0	7.0	1.0	2.5	-16.0
6090.0	10100.0	7.0	1.0	4.5	-14.0
[illegible]	10100.0	6.0	2.5	9.0	-7.5
[illegible]	10100.0	4.5	1.5	7.5	-10.0
[illegible]	10100.0	5.5	2.5	9.0	-9.0
[illegible]	10100.0	4.0	1.0	6.0	-12.5
[illegible]	10100.0	2.5	-2.0	-1.0	-19.0
6210.0	10100.0	5.0	-1.0	4.0	-17.0
6230.0	10100.0	4.5	2.5	11.0	-9.0
6250.0	10100.0	5.0	2.5	12.0	-9.0
6250.0	10100.0	5.5	2.0	10.5	-12.0
[illegible]	10100.0	4.5	3.0	11.5	-7.0
[illegible]	10100.0	4.0	-1.0	5.0	-15.5
4000.0	10110.0	0.0	-0.5	-1.5	-1.5
[illegible]	10130.0	0.5	2.0	4.0	5.5
[illegible]	10150.0	0.0	3.5	6.5	10.5
4000.0	10170.0	0.5	4.5	5.5	12.0
4000.0	10190.0	-0.5	5.0	6.5	12.5
5050.0	10200.0	1.5	2.0	3.5	7.5
5070.0	10200.0	-2.0	2.0	0.5	6.5
[illegible]	10200.0	-2.0	2.0	0.0	6.0
[illegible]	10200.0	-1.0	2.0	1.0	6.0
5130.0	10200.0	-1.5	2.0	0.5	6.5
51[illegible]	[illegible]0.0	-2.5	2.0	-0.5	7.5
5170.0	[illegible]	-0.5	2.0	1.5	8.5
5190.0	[illegible]	-1.0	2.5	1.5	10.5
5210.0	[illegible]	-2.0	3.0	1.5	11.0
5230	[illegible]0.0	-1.5	3.0	1.5	11.5
5250.0	[illegible]0.0	-0.5	3.5	3.0	11.5
5270.0	[illegible]0	-2.5	3.0	2.0	9.5
5290.0	[illegible]0	-0.5	2.5	4.5	8.5
5310.0	[illegible]0	-0.5	3.0	4.5	8.0
5330.0	[illegible]	0.5	2.5	5.0	7.5
5350.0	[illegible]	1.0	3.0	6.5	8.5
5370.0	[illegible]	0.5	3.5	5.5	9.5
5390.0	[illegible]200.0	1.0	3.5	6.0	9.0
5410.0	10200.0	0.5	3.0	5.5	8.5
5430.0	10200.0	0.0	3.0	5.0	7.5
5450.0	10200.0	-0.5	2.5	4.0	6.5
5470.0	10200.0	1.5	2.5	5.0	6.0
5490.0	10200.0	1.0	2.5	4.5	6.0
5510.0	10200.0	0.5	2.5	4.0	5.5

5530.0	10200.0	0.0	2.5	3.5	5.5
5550.0	10200.0	0.5	2.5	3.5	5.0
5570.0	10200.0	0.5	2.5	4.0	5.5
5590.0	10200.0	1.0	3.0	4.5	6.5
5610.0	10200.0	2.0	3.5	6.0	9.0
5630.0	10200.0	1.5	4.0	6.5	11.0
5650.0	10200.0	0.5	3.0	6.0	4.5
5670.0	10200.0	-0.5	0.5	2.0	-4.0
5690.0	10200.0	-1.0	-1.0	-0.5	-8.5
5710.0	10200.0	-2.5	-3.5	-5.5	-16.0
5730.0	10200.0	-3.5	-4.5	-9.5	-19.0
5750.0	10200.0	-2.5	-2.0	-4.5	-13.0
5770.0	10200.0	-1.5	0.5	2.5	-8.5
5790.0	10200.0	0.0	2.0	6.5	-7.0
5810.0	10200.0	1.0	0.5	5.5	-16.0
5830.0	10200.0	0.0	0.5	4.5	-18.0
5850.0	10200.0	0.5	-4.0	-5.5	-20.0
5870.0	10200.0	-1.5	-9.0	-16.0	-23.0
5890.0	10200.0	-2.0	-9.0	-15.5	-18.5
5910.0	10200.0	2.0	-6.5	-7.0	-14.0
5930.0	10200.0	4.0	0.5	6.5	-7.0
5950.0	10200.0	6.5	1.5	10.5	-15.5
5970.0	10200.0	9.5	-1.0	5.0	-26.0
5990.0	10200.0	8.0	-4.0	-1.0	-27.0
6010.0	10200.0	5.0	-3.0	-5.0	-23.0
6030.0	10200.0	3.0	-3.0	-2.5	-19.0
6050.0	10200.0	5.0	1.0	6.0	-10.5
6070.0	10200.0	5.5	2.5	11.5	-9.5
6090.0	10200.0	4.0	-1.5	3.5	-21.0
6110.0	10200.0	3.0	-3.5	1.0	-22.0
6130.0	10200.0	4.0	-2.0	2.0	-19.0
6150.0	10200.0	5.0	-0.5	4.5	-15.0
6170.0	10200.0	4.0	0.5	4.5	-13.0
6190.0	10200.0	4.5	2.5	9.5	-6.5
6210.0	10200.0	4.5	3.0	10.0	-6.5
6230.0	10200.0	4.5	3.0	11.5	-6.5
6250.0	10200.0	4.5	2.5	11.0	-8.0
6270.0	10200.0	3.5	0.0	6.0	-14.5
6290.0	10200.0	2.0	-1.5	2.0	-13.0
6310.0	10200.0	3.0	-1.0	2.5	-11.5
6330.0	10200.0	2.5	-0.5	4.0	-10.5
6350.0	10200.0	3.5	0.5	6.5	-11.0
6370.0	10200.0	4.5	5.0	15.5	-3.0
4000.0	10210.0	-1.5	5.0	6.0	13.5
4000.0	10230.0	-1.0	4.5	6.0	12.5
4000.0	10250.0	-2.0	4.5	5.5	12.0
4000.0	10270.0	-2.0	4.0	4.5	11.0
4000.0	10290.0	-2.0	3.5	4.0	10.5
5050.0	10300.0	1.0	2.0	2.5	7.0
5070.0	10300.0	0.0	2.0	1.0	7.0
5090.0	10300.0	0.0	2.0	1.5	6.5
5110.0	10300.0	0.5	1.5	2.0	7.0
5130.0	10300.0	0.5	2.0	2.5	6.5
5150.0	10300.0	1.0	2.0	3.0	6.5
5170.0	10300.0	0.5	2.0	2.0	6.0
5190.0	10300.0	1.5	1.5	3.5	6.0
5210.0	10300.0	-0.5	1.5	1.5	5.5
5230.0	10300.0	0.5	1.5	3.0	6.0
5250.0	10300.0	-0.5	2.0	2.5	6.5
5270.0	10300.0	0.5	2.0	3.0	7.5
5290.0	10300.0	-1.5	2.5	1.5	8.0
5310.0	10300.0	-1.0	2.5	2.0	8.5
5330.0	10300.0	-2.0	2.5	1.0	8.0
5350.0	10300.0	-1.0	2.5	2.0	7.5
5370.0	10300.0	0.0	2.5	2.5	7.0
5390.0	10300.0	0.0	2.5	2.5	7.0
5410.0	10300.0	0.5	2.5	3.5	6.5
5430.0	10300.0	1.5	2.5	4.5	6.0
5450.0	10300.0	-0.5	2.0	3.0	6.0
5470.0	10300.0	0.0	2.0	2.0	5.5
5490.0	10300.0	0.0	2.0	2.0	5.5
5510.0	10300.0	0.5	2.0	3.0	5.0

5530.0	10300.0	0.0	2.0	2.0	5.0
5550.0	10300.0	0.0	2.0	2.5	5.5
5570.0	10300.0	2.0	2.5	5.0	6.0
5590.0	10300.0	1.0	3.0	4.0	7.5
5610.0	10300.0	0.0	2.5	3.5	5.5
5630.0	10300.0	2.0	1.5	4.0	2.0
5650.0	10300.0	2.0	1.0	4.0	-1.0
5670.0	10300.0	1.0	0.0	2.5	-3.5
5690.0	10300.0	1.0	0.5	2.5	-3.5
5710.0	10300.0	1.0	3.0	5.0	3.0
5730.0	10300.0	0.0	6.0	9.0	11.0
5750.0	10300.0	1.5	7.0	14.0	13.0
5770.0	10300.0	1.0	4.0	10.5	4.5
5790.0	10300.0	0.5	-1.0	1.0	-7.0
5810.0	10300.0	-1.5	-5.5	-8.0	-16.0
5830.0	10300.0	-3.0	-7.5	-13.5	-17.0
5850.0	10300.0	-3.0	-6.0	-9.0	-12.0
5870.0	10300.0	0.0	1.0	6.5	-2.5
5890.0	10300.0	3.0	6.5	17.0	4.5
5910.0	10300.0	3.5	6.5	15.5	2.0
5930.0	10300.0	4.0	3.0	8.5	-7.0
5950.0	10300.0	3.0	-0.5	1.5	-12.5
5970.0	10300.0	1.5	-2.0	-2.5	-13.5
5990.0	10300.0	0.5	-0.5	-1.0	-9.0
6010.0	10300.0	1.5	-1.0	1.0	-13.5
6030.0	10300.0	1.5	-2.0	0.0	-16.5
6050.0	10300.0	2.0	-2.0	0.0	-17.0
6070.0	10300.0	1.5	-2.0	-1.5	-17.5
6090.0	10300.0	1.5	-2.0	-1.5	-17.0
6110.0	10300.0	5.0	6.0	15.0	6.5
6130.0	10300.0	5.0	8.0	18.5	11.5
6150.0	10300.0	4.5	7.0	16.0	7.0
6170.0	10300.0	3.5	4.0	10.5	-0.5
6190.0	10300.0	1.5	0.5	3.0	-8.0
6210.0	10300.0	1.5	-2.0	-1.0	-11.5
6230.0	10300.0	0.0	-2.0	-2.5	-11.5
6250.0	10300.0	1.0	-1.0	0.0	-9.0
6270.0	10300.0	2.0	2.5	8.0	-2.0
6290.0	10300.0	3.0	4.0	12.0	-1.0
6310.0	10300.0	3.0	5.0	14.5	-1.0
6330.0	10300.0	5.0	6.0	17.0	3.0
6350.0	10300.0	6.0	7.0	18.5	5.5
6370.0	10300.0	6.5	3.0	13.0	-7.5
4000.0	10310.0	0.0	3.5	5.5	10.0
4000.0	10330.0	-1.5	3.5	4.0	10.0
4000.0	10350.0	-0.5	3.5	5.0	10.5
4000.0	10370.0	-1.0	3.5	4.5	11.0
4000.0	10390.0	1.0	3.5	5.0	10.5
5050.0	10400.0	1.5	1.5	3.0	6.5
5070.0	10400.0	0.5	1.5	1.5	5.5
5090.0	10400.0	1.0	1.0	2.0	4.0
5110.0	10400.0	0.0	1.5	1.0	4.0
5130.0	10400.0	-0.5	1.5	1.0	5.0
5150.0	10400.0	0.0	1.5	1.0	6.0
5170.0	10400.0	0.0	2.0	2.0	7.0
5190.0	10400.0	1.0	2.0	2.5	7.5
5210.0	10400.0	1.0	2.0	2.5	7.5
5230.0	10400.0	1.5	2.5	3.0	7.5
5250.0	10400.0	0.5	2.0	2.5	7.0
5270.0	10400.0	1.5	2.0	3.5	6.5
5290.0	10400.0	1.5	2.0	3.5	6.5
5310.0	10400.0	1.0	2.0	3.5	6.5
5330.0	10400.0	2.5	2.0	4.5	6.5
5350.0	10400.0	2.5	2.0	4.5	6.0
5370.0	10400.0	2.0	2.0	4.0	5.5
5390.0	10400.0	3.0	2.0	5.0	5.5
5410.0	10400.0	2.0	2.0	3.5	6.0
5430.0	10400.0	1.5	2.0	3.0	5.0
5450.0	10400.0	1.0	2.0	3.0	5.5
5470.0	10400.0	1.0	2.0	3.0	5.5
5490.0	10400.0	0.5	2.0	2.0	5.0
5510.0	10400.0	0.0	2.0	2.0	5.0

5530.0	10400.0	0.0	2.0	2.0	5.5
5550.0	10400.0	0.5	2.5	3.0	6.0
5570.0	10400.0	1.0	2.5	3.5	5.5
5590.0	10400.0	0.5	3.0	4.0	7.0
5610.0	10400.0	1.0	4.0	5.5	9.0
5630.0	10400.0	2.5	4.5	8.0	11.0
5650.0	10400.0	3.0	4.0	9.0	8.0
5670.0	10400.0	2.0	2.0	5.0	-0.5
5690.0	10400.0	1.0	-1.0	0.0	-6.0
5710.0	10400.0	-0.5	-5.0	-8.0	-13.5
5730.0	10400.0	-0.5	-6.0	-10.5	-14.0
5750.0	10400.0	0.0	-4.5	-6.0	-9.5
5770.0	10400.0	0.0	-1.0	1.0	-6.0
5790.0	10400.0	3.0	2.5	9.5	-4.5
5810.0	10400.0	4.0	5.0	13.5	-1.5
5830.0	10400.0	3.5	6.5	14.5	2.0
5850.0	10400.0	4.5	7.0	15.5	5.5
5870.0	10400.0	3.5	5.5	13.0	2.5
5890.0	10400.0	1.0	4.0	7.5	0.0
5910.0	10400.0	1.5	2.5	7.5	-1.5
5930.0	10400.0	0.5	1.0	3.5	-4.5
5950.0	10400.0	-0.5	1.0	-1.0	-10.0
5970.0	10400.0	-0.5	-1.0	-1.5	-10.0
5990.0	10400.0	0.0	-1.5	0.5	-11.0
6010.0	10400.0	-0.5	-1.0	-1.0	-10.5
6030.0	10400.0	1.0	1.0	3.0	-4.5
6050.0	10400.0	2.0	3.0	8.0	0.0
6070.0	10400.0	3.0	2.5	8.5	-1.5
6090.0	10400.0	2.5	1.5	6.0	-5.0
6110.0	10400.0	2.0	0.0	3.0	-8.5
6130.0	10400.0	0.0	-0.5	0.0	-8.0
6150.0	10400.0	1.0	1.0	3.0	-2.5
6170.0	10400.0	3.0	4.0	7.5	6.0
6190.0	10400.0	3.0	5.5	13.0	6.5
4000.0	10410.0	-0.5	3.5	5.0	11.0
4000.0	10430.0	0.0	3.5	6.0	11.0
4000.0	10450.0	0.5	4.0	6.5	11.0
4000.0	10470.0	1.0	4.0	7.0	11.0
4000.0	10490.0	0.0	4.5	7.5	12.5
5050.0	10500.0	0.5	1.0	1.0	5.0
5070.0	10500.0	0.0	1.0	1.5	5.5
5090.0	10500.0	-0.5	1.0	1.0	5.0
5110.0	10500.0	0.0	1.0	1.5	4.5
5130.0	10500.0	0.0	1.0	1.0	4.0
5150.0	10500.0	0.0	1.0	1.0	4.5
5170.0	10500.0	-0.5	1.5	1.5	5.0
5190.0	10500.0	0.0	1.5	1.5	5.0
5210.0	10500.0	0.0	1.5	1.5	5.5
5230.0	10500.0	-0.5	2.0	1.5	6.0
5250.0	10500.0	0.0	2.0	1.0	6.0
5270.0	10500.0	-0.5	2.0	1.0	6.0
5290.0	10500.0	-2.0	2.0	-0.5	6.0
5310.0	10500.0	-2.5	2.0	-1.5	6.5
5330.0	10500.0	-4.0	2.0	-2.0	6.5
5350.0	10500.0	-4.0	2.0	-3.0	6.5
5370.0	10500.0	-2.0	2.0	0.0	6.5
5390.0	10500.0	-0.5	2.0	1.0	6.5
5410.0	10500.0	0.0	2.0	1.0	6.0
5430.0	10500.0	1.0	2.0	2.5	6.0
5450.0	10500.0	2.0	2.5	4.0	6.0
5470.0	10500.0	0.5	2.0	3.0	6.0
5490.0	10500.0	2.0	2.5	4.0	6.0
5510.0	10500.0	-0.5	2.5	2.5	7.0
5530.0	10500.0	-0.5	3.5	3.5	8.5
5550.0	10500.0	-0.5	3.0	4.5	8.0
5570.0	10500.0	-1.0	2.0	1.0	3.5
5590.0	10500.0	-2.5	-0.5	-5.0	-6.0
5610.0	10500.0	-2.0	-4.0	-10.5	-12.0
5630.0	10500.0	-2.0	-5.0	-9.0	-12.0
5650.0	10500.0	-0.5	-4.0	-7.5	-12.0
5670.0	10500.0	-0.5	-2.5	-4.5	-11.5
5690.0	10500.0	0.5	0.5	1.5	-8.5
5710.0	10500.0	1.0	3.5	6.0	0.0
5730.0	10500.0	0.5	6.0	12.0	3.5
5750.0	10500.0	3.0	7.0	14.0	5.5
5770.0	10500.0	1.5	6.0	11.0	7.0
5790.0	10500.0	0.5	5.5	9.0	7.5
5810.0	10500.0	2.0	4.0	7.0	2.5
5830.0	10500.0	1.5	2.5	4.0	0.5
5850.0	10500.0	2.0	1.5	2.0	-1.0
5870.0	10500.0	0.5	1.0	2.0	-0.5
5890.0	10500.0	3.0	1.0	5.5	0.5
5910.0	10500.0	2.0	2.0	5.0	1.0
5930.0	10500.0	4.0	2.0	7.5	1.5
5950.0	10500.0	4.5	1.5	7.5	0.5
5970.0	10500.0	2.5	2.0	5.5	1.0
5990.0	10500.0	2.5	2.0	5.5	1.0
6010.0	10500.0	4.0	1.5	6.5	-0.5
6030.0	10500.0	0.0	0.0	1.0	-4.0
6050.0	10500.0	0.5	-0.5	1.0	-5.5
6070.0	10500.0	1.5	-0.5	1.0	-5.0
6090.0	10500.0	1.0	0.5	2.0	-3.0
6110.0	10500.0	1.5	2.0	6.0	1.5
6130.0	10500.0	5.5	4.5	13.5	6.5
6150.0	10500.0	2.0	4.5	14.0	4.0
6170.0	10500.0	4.5	2.0	8.5	-4.5
6190.0	10500.0	4.0	-1.0	2.5	-11.0
6210.0	10500.0	2.5	-3.0	-3.5	-15.0
6230.0	10500.0	3.0	-3.5	-3.5	-14.5
6250.0	10500.0	4.0	-1.5	1.0	-11.0
6270.0	10500.0	5.0	1.0	7.0	-7.0
6290.0	10500.0	6.0	3.5	13.0	-2.0
6310.0	10500.0	7.5	5.5	14.5	-0.5
6330.0	10500.0	99999.0	99999.0	99999.0	99999.0
6350.0	10500.0	9.0	4.0	14.5	-4.0
6370.0	10500.0	11.0	5.5	17.5	1.0
6390.0	10500.0	8.0	2.5	11.0	-2.0
6410.0	10500.0	5.5	0.0	4.5	-6.0
6430.0	10500.0	5.5	-1.0	3.0	-8.0
6450.0	10500.0	2.0	-3.0	-3.0	-14.0
6470.0	10500.0	4.0	-2.0	0.5	-11.5
4000.0	10510.0	0.0	4.5	7.5	13.0
4000.0	10530.0	-1.0	5.0	7.5	14.0
4000.0	10550.0	-1.0	5.0	7.0	13.5
4000.0	10570.0	99999.0	99999.0	99999.0	99999.0
4000.0	10590.0	99999.0	99999.0	99999.0	99999.0
4030.0	10600.0	1.5	2.5	4.5	7.0
4050.0	10600.0	2.0	2.0	4.5	5.5
4070.0	10600.0	1.0	1.5	4.0	4.5
4090.0	10600.0	2.0	1.5	4.0	4.0
4110.0	10600.0	3.5	1.0	4.5	3.0
4130.0	10600.0	0.0	1.0	1.5	2.5
4150.0	10600.0	-2.5	1.0	-0.5	2.0
4170.0	10600.0	-2.5	0.5	-1.0	1.0
4190.0	10600.0	-4.0	0.5	-2.5	1.5
4210.0	10600.0	-5.0	1.0	-4.0	1.0
4230.0	10600.0	-4.5	0.5	-3.5	0.5
4250.0	10600.0	-5.0	0.5	-4.0	1.0
4270.0	10600.0	-5.0	1.5	-4.0	1.0
4290.0	10600.0	-3.0	0.5	-2.5	2.0
4310.0	10600.0	-3.0	1.0	-2.0	3.5
4330.0	10600.0	-3.0	1.5	-1.5	5.5
4350.0	10600.0	-2.0	2.0	-1.0	6.0
4370.0	10600.0	-1.0	2.0	0.0	6.0
4390.0	10600.0	-1.0	1.5	0.5	6.0
4410.0	10600.0	-1.0	1.5	0.0	5.5
4430.0	10600.0	-0.5	1.5	0.5	5.0
4450.0	10600.0	-1.0	2.0	0.5	5.0
4470.0	10600.0	-1.5	2.0	0.0	6.0
4490.0	10600.0	-2.5	2.0	-0.5	6.5
4510.0	10600.0	-1.0	2.5	0.5	6.5
4530.0	10600.0	-0.5	3.0	2.5	7.5
4550.0	10600.0	0.5	3.5	4.0	8.5
4570.0	10600.0	0.0	3.5	4.0	9.5

4590.0	10600.0	0.0	4.0	4.5	11.0
4610.0	10600.0	1.0	4.5	6.0	12.5
4630.0	10600.0	0.5	5.0	6.0	14.0
4650.0	10600.0	-0.5	5.5	6.0	15.5
4670.0	10600.0	-3.0	6.0	5.0	16.0
4690.0	10600.0	-2.5	6.5	6.5	17.5
4710.0	10600.0	-2.5	7.0	7.5	22.0
4730.0	10600.0	-1.5	7.5	8.5	25.0
4750.0	10600.0	-2.5	8.0	8.0	26.0
4770.0	10600.0	0.0	9.0	10.5	30.0
4790.0	10600.0	-0.5	9.5	11.0	32.0
4810.0	10600.0	0.0	9.0	11.0	30.0
4830.0	10600.0	0.5	9.0	12.0	31.0
4850.0	10600.0	1.0	9.5	13.5	33.0
4870.0	10600.0	1.0	7.5	10.5	26.0
4890.0	10600.0	0.0	4.0	5.0	13.5
4910.0	10600.0	0.5	1.5	1.0	5.0
4930.0	10600.0	1.0	0.0	-0.5	1.5
4950.0	10600.0	1.5	-0.5	-1.0	0.5
4970.0	10600.0	1.5	1.5	3.0	4.5
4990.0	10600.0	2.0	4.0	7.0	8.5
5010.0	10600.0	3.0	4.0	8.0	9.5
5030.0	10600.0	2.0	3.5	6.0	9.0
5050.0	10600.0	2.0	2.5	5.5	8.0
5070.0	10600.0	1.5	2.0	3.5	6.5
5090.0	10600.0	2.0	1.5	4.0	5.0
5110.0	10600.0	0.0	1.0	3.0	4.0
5130.0	10600.0	2.0	1.0	4.0	4.0
5150.0	10600.0	1.5	1.5	3.5	4.0
5170.0	10600.0	1.5	1.0	3.5	3.5
5190.0	10600.0	0.5	1.0	2.0	3.5
5210.0	10600.0	1.0	1.5	2.5	4.5
5230.0	10600.0	0.5	1.5	2.0	5.5
5250.0	10600.0	1.0	2.0	3.0	6.0
5270.0	10600.0	-0.5	2.0	0.5	6.5
5290.0	10600.0	0.5	2.5	2.0	7.0
5310.0	10600.0	0.5	2.5	2.5	8.0
5330.0	10600.0	0.0	2.5	2.0	8.0
5350.0	10600.0	0.0	2.5	2.0	8.5
5370.0	10600.0	1.5	3.0	4.5	9.0
5390.0	10600.0	2.0	3.0	4.5	9.0
5410.0	10600.0	1.5	3.0	4.5	9.0
5430.0	10600.0	1.0	3.0	4.5	9.0
5450.0	10600.0	1.5	3.0	5.0	8.5
5470.0	10600.0	1.0	2.5	4.5	6.0
5490.0	10600.0	1.0	2.0	4.0	4.0
5510.0	10600.0	-1.0	1.0	2.0	2.0
5530.0	10600.0	0.0	1.0	1.0	1.5
5550.0	10600.0	0.0	1.0	1.0	3.0
5570.0	10600.0	-0.5	1.5	1.5	5.5
5590.0	10600.0	0.0	2.5	3.0	6.5
5610.0	10600.0	0.0	3.0	4.0	8.0
5630.0	10600.0	0.0	4.5	6.5	10.5
5650.0	10600.0	0.0	5.5	8.5	11.0
5670.0	10600.0	0.5	5.5	10.5	9.0
5690.0	10600.0	1.0	5.5	10.5	7.0
5710.0	10600.0	2.0	5.5	11.0	6.0
5730.0	10600.0	2.5	4.5	10.0	4.0
5750.0	10600.0	2.0	3.5	7.5	1.5
5770.0	10600.0	0.5	2.5	4.5	0.0
5790.0	10600.0	1.0	2.0	4.5	0.5
5810.0	10600.0	1.0	1.5	4.0	0.0
5830.0	10600.0	1.5	1.5	4.0	1.0
5850.0	10600.0	2.0	2.0	5.0	3.0
5870.0	10600.0	2.0	2.5	5.5	3.5
5890.0	10600.0	1.5	2.0	4.5	3.0
5910.0	10600.0	2.0	2.0	4.5	2.5
5930.0	10600.0	2.5	1.5	5.0	2.0
5950.0	10600.0	2.0	1.0	4.0	1.0
5970.0	10600.0	2.5	1.0	3.5	-1.0
5990.0	10600.0	1.5	0.0	2.0	-2.0
6010.0	10600.0	4.0	0.0	4.5	-2.0
6030.0	10600.0	4.0	1.0	4.5	0.0
6050.0	10600.0	4.5	1.5	7.0	1.5
6070.0	10600.0	4.5	2.5	8.5	3.0
6090.0	10600.0	6.0	3.0	11.0	4.5
6110.0	10600.0	4.5	3.0	10.5	4.0
6130.0	10600.0	7.5	2.5	11.5	1.0
6150.0	10600.0	7.5	1.0	8.0	-4.0
6170.0	10600.0	6.0	0.0	5.5	-7.0
6190.0	10600.0	4.0	-0.5	2.0	-7.5
6210.0	10600.0	7.0	0.0	6.0	-6.0
6230.0	10600.0	5.0	1.5	7.0	-5.0
6250.0	10600.0	5.5	2.5	9.0	-2.5
6270.0	10600.0	7.0	3.5	11.0	-1.0
6290.0	10600.0	5.0	4.0	11.5	1.0
6310.0	10600.0	99999.0	5.0	99999.0	99999.0
6330.0	10600.0	7.5	5.5	13.5	-1.0
6350.0	10600.0	7.5	5.5	13.5	1.0
6370.0	10600.0	8.5	4.0	13.0	-0.5
6390.0	10600.0	9.0	1.5	9.0	-5.0
6410.0	10600.0	12.0	-1.0	8.5	-10.0
6430.0	10600.0	2.5	-3.0	-3.5	-12.0
6450.0	10600.0	3.0	-1.0	0.5	-8.0
5150.0	11780.0	0.5	3.0	4.0	8.0
5170.0	11780.0	0.0	2.5	3.0	6.0
5190.0	11780.0	-1.5	2.0	1.0	4.0
5210.0	11780.0	0.5	1.5	3.0	2.5
5230.0	11780.0	-2.0	2.0	0.0	4.5
5250.0	11780.0	-1.5	2.5	1.5	5.0
5270.0	11780.0	0.0	3.5	3.0	10.0
5290.0	11780.0	4.5	3.5	9.0	10.0
5310.0	11780.0	0.0	-0.5	-0.5	-2.5
5330.0	11780.0	-0.5	-2.5	-4.5	-8.5
5350.0	11780.0	0.0	-3.0	-3.5	-10.5
5370.0	11780.0	2.0	-3.0	-1.5	-13.0
5390.0	11780.0	14.5	-3.0	10.5	-13.5
5410.0	11780.0	4.5	2.0	5.5	6.5
5430.0	11780.0	5.5	5.0	13.0	15.5
5450.0	11780.0	3.5	5.0	11.5	13.5
5470.0	11780.0	2.5	3.0	7.0	7.0
5490.0	11780.0	-0.5	1.0	0.5	1.0
5510.0	11780.0	1.0	1.0	1.0	-0.5
5530.0	11780.0	1.0	1.0	1.5	0.5
5550.0	11780.0	1.5	2.0	2.5	4.0
5570.0	11780.0	0.5	2.5	3.0	6.5
5590.0	11780.0	2.0	3.5	4.5	8.0
5610.0	11780.0	1.0	3.5	4.0	9.5
5630.0	11780.0	0.0	3.5	2.5	10.0
5650.0	11780.0	0.0	3.5	2.5	8.5
5670.0	11780.0	0.5	3.0	2.5	8.0
5690.0	11780.0	1.0	2.5	3.0	7.0
5710.0	11780.0	0.5	2.5	2.0	6.5
5730.0	11780.0	0.5	2.0	2.0	6.5
5750.0	11780.0	0.5	2.0	1.5	6.0
5770.0	11780.0	0.0	2.5	1.0	6.0
5790.0	11780.0	0.5	2.0	1.5	6.0
5810.0	11780.0	1.0	2.0	1.5	5.5
5830.0	11780.0	0.5	2.0	1.5	5.5
5850.0	11780.0	1.0	2.0	1.5	6.0
5870.0	11780.0	1.5	2.0	2.0	5.5
5890.0	11780.0	2.5	2.0	3.0	4.5
5910.0	11780.0	1.5	2.0	2.0	4.5
5930.0	11780.0	0.5	2.0	1.0	4.0
5950.0	11780.0	1.5	2.0	2.5	4.5
5150.0	11900.0	0.0	1.5	2.0	3.5
5170.0	11900.0	-1.5	1.0	0.5	2.0
5190.0	11900.0	0.0	1.5	2.0	3.5
5210.0	11900.0	-0.5	1.5	2.0	5.0
5230.0	11900.0	1.0	2.5	4.0	7.5
5250.0	11900.0	1.5	3.5	4.5	10.0
5270.0	11900.0	2.5	4.0	5.5	11.5
5290.0	11900.0	2.0	4.0	5.5	12.5
5310.0	11900.0	2.0	4.5	5.5	13.5

5330.0	11900.0	1.5	4.0	5.5	12.0
5350.0	11900.0	1.5	3.0	4.5	7.5
5370.0	11900.0	2.5	1.5	4.5	3.0
5390.0	11900.0	5.0	0.5	5.5	-0.5
5410.0	11900.0	6.0	0.0	5.5	-2.5
5430.0	11900.0	5.5	-1.0	3.5	-4.0
5450.0	11900.0	4.0	-0.5	2.0	-3.0
5470.0	11900.0	3.0	0.0	2.0	-0.5
5490.0	11900.0	2.0	1.5	2.5	3.5
5510.0	11900.0	0.0	2.5	1.5	6.5
5530.0	11900.0	0.5	3.0	3.5	9.0
5550.0	11900.0	2.5	3.0	5.0	8.5
5570.0	11900.0	3.0	2.5	5.5	7.5
5590.0	11900.0	2.0	2.5	3.5	6.0
5610.0	11900.0	2.0	2.0	3.0	5.5
5630.0	11900.0	1.5	2.0	2.5	5.0
5650.0	11900.0	1.5	2.0	2.0	5.0
5670.0	11900.0	-0.5	2.0	0.5	4.5
5690.0	11900.0	1.0	2.0	2.0	4.5
5710.0	11900.0	2.0	1.5	3.0	4.5
5730.0	11900.0	2.0	1.5	3.0	5.0
5750.0	11900.0	2.0	2.0	3.0	4.5
5770.0	11900.0	0.0	1.5	0.5	4.0
5790.0	11900.0	0.5	1.5	1.5	4.5
5810.0	11900.0	-0.5	1.5	0.0	4.5
5830.0	11900.0	-0.5	1.5	0.0	5.0
5850.0	11900.0	0.0	1.5	0.0	5.5
5870.0	11900.0	-2.5	2.0	-1.5	5.5
5890.0	11900.0	-2.5	2.0	-2.0	6.0
5910.0	11900.0	-2.5	2.0	-2.5	6.0
5150.0	12020.0	1.0	1.0	2.0	3.5
5170.0	12020.0	-0.5	2.5	1.5	8.0
5190.0	12020.0	-1.5	3.0	1.0	9.5
5210.0	12020.0	2.5	3.5	4.5	10.5
5230.0	12020.0	0.0	3.5	3.0	10.5
5250.0	12020.0	1.0	3.5	4.0	11.0
5270.0	12020.0	2.5	3.5	6.5	10.0
5290.0	12020.0	6.0	3.0	9.0	8.5
5310.0	12020.0	6.5	1.0	9.5	3.0
5330.0	12020.0	14.0	0.0	15.0	-0.5
5350.0	12020.0	7.5	0.0	8.0	-1.5
5370.0	12020.0	11.5	-1.0	10.5	-3.5
5390.0	12020.0	5.0	-1.5	2.5	-6.5
5410.0	12020.0	4.5	-1.0	3.5	-5.5
5430.0	12020.0	3.5	0.0	2.0	-1.5
5450.0	12020.0	2.0	1.0	2.0	2.5
5470.0	12020.0	-0.5	2.5	1.0	6.5
5490.0	12020.0	-1.5	2.5	0.5	8.5
5510.0	12020.0	-0.5	2.5	1.0	8.5
5530.0	12020.0	0.0	2.5	2.0	7.0
5550.0	12020.0	-1.5	2.5	-0.5	7.0
5570.0	12020.0	-1.0	2.0	0.0	6.5
5590.0	12020.0	-0.5	2.0	-0.5	6.0
5610.0	12020.0	0.0	2.0	0.5	5.5
5630.0	12020.0	-1.5	2.0	-1.0	5.0
5650.0	12020.0	0.0	2.0	0.5	5.0
5670.0	12020.0	0.0	1.5	0.0	4.0
5690.0	12020.0	0.5	1.5	0.5	4.0
5710.0	12020.0	1.0	1.5	1.0	4.0
5730.0	12020.0	2.0	1.5	1.5	4.5
5750.0	12020.0	0.5	1.5	1.0	5.0
5770.0	12020.0	1.0	2.0	1.0	6.0
5790.0	12020.0	0.5	2.0	1.0	7.0

VOLUME II OF IV

Geological, Geochemical and Geophysical Report on the KONA PROPERTY

Watson Lake Mining District
Yukon Territory

NTS: 105 G/1,2,7,8
Latitude 61° 14'N Longitude 130° 30'W

Owner of Claims: Welcome North Mines Limited

OFFICE OF THE REGIONAL MANAGER
MINERAL RIGHTS
JAN 14 1992
WHITEHORSE
YUKON TERRITORY

By: Robert W. Stroshein
Placer Dome Exploration Limited
December 24, 1991

092G 91

RECEIVED
JAN - 8 1992
WATSON LAKE, YT.
L.A. & N.D.

KONA PROJECT 272
GEOLOGY
NORTH GRID

417,000 | 417,500 | 418,000 | 418,500 | 419,000 | 419,500 | 420,000

6,791,000 | 6,790,500 | 6,790,000 | 6,789,500 | 6,789,000

CLAIM BOUNDARY

1100m 1200m 1300m 1400m 1500m 1600m 1700m 1800m 1900m

L125+00 N
L124+00 N
L120+20 N
L119+00 N
L117+80N
B 15+00 E
L56+00 E

66-1 66-2 66-3 66-4 66-5a

Andalusite porphyroblasts

LEGEND

8 Orange weathering dark green basalt and basalt breccia

7 Leucocratic quartz monzonite

6 Sheared and mylonitized dark mafic volcanic and coarse sedimentary rocks

5 Well bedded clastic rocks

- ls limestone
- bs basalt
- ss dolomitic sandstone or quartzite
- ms micaceous sandstone

4 Black clastic rocks

- a thin well bedded argillite to siltstone/phyllitic
- b tan weathering quartzite

3 Metamorphosed volcanic rocks

- C chloritic mafic rocks
- A intermediate composition/andesite
- F rusty weathered quartz-sericite rocks/felsic composition
  - t tuffaceous
  - a argillaceous
  - m massive thick bedded
  - ex cherty exhalative rocks

2 Iron formation

- mg magnetite
- si silicate
- ss sulphide

1 Metamorphosed sedimentary rocks

- ls white weathering calcareous quartz-sericite schist
- ms platy micaceous sandstone
- qt thick bedded quartzite
- bt black biotite rich sandstone or quartzite

- Claim posts
- Atlas Explorations ddh
- Outcrop
- Geological contact
- Thrust fault
- S_1 foliation / L_1 lineation with dip or plunge

0 2 1

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

FIELD	FILE
SEG	../TOPO/STREAMS
SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP#1058/1,2,7,8 (219)

PLACER DOME EXPLORATION LIMITED	
Drawn by RWS	KONA PROJECT 272 GEOLOGY NORTH GRID
DATE 91/10/11	
SCALE 1:5000	
Geol. by RWS	NO. PLATE 5

KONA PROJECT 272
GEOLOGY
SOUTH GRID

417,000 417,500 418,000 418,500 419,000 419,500 420,000 420,500 421,000

6,788,500 6,788,000 6,787,500 6,787,000 6,786,500 6,786,000 6,785,500 6,785,000 6,784,500

L106+00 N

L60+00 E

L100+00 N

L82+00 N

L40+00 E

BL50+00 E

1800m 1700m 1600m 1500m 1400m 1300m 1200m 1100m

CLAIM BOUNDARY

FIRE

LAKE

67-3

67-1

3Cf,a-m

LEGEND

8 Orange weathering dark green basalt and basalt breccia

7 Leucocratic quartz monzonite

6 Sheared and mylonitized dark mafic volcanic and coarse sedimentary rocks

5 Well bedded clastic rocks

- ls limestone
- bs basalt
- ss dolomitic sandstone or quartzite
- ms micaceous sandstone

4 Black clastic rocks

- a thin well bedded argillite to siltstone/phyllitic
- b tan weathering quartzite

3 Metamorphosed volcanic rocks

- C chloritic mafic rocks
- A intermediate composition/andesite
- F rusty weathered quartz-sericite rocks/felsic composition
  - t tuffaceous
  - a argillaceous
  - m massive thick bedded
  - ex cherty exhalative rocks

2 Iron formation

- mg magnetite
- si silicate
- ss sulphide

1 Metamorphosed sedimentary rocks

- ls white weathering calcareous quartz-sericite schist
- ms platy micaceous sandstone
- qt thick bedded quartzite
- bt black biotite rich sandstone or quartzite

- Claim posts
- Atlas Explorations ddh
- Outcrop
- Geological contact
- Thrust fault
- S_1 foliation / L_1 lineation with dip or plunge

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

FIELD	FILE
SEG	../TOPO/STREAMS
SEG	../TOPO/BASELINES

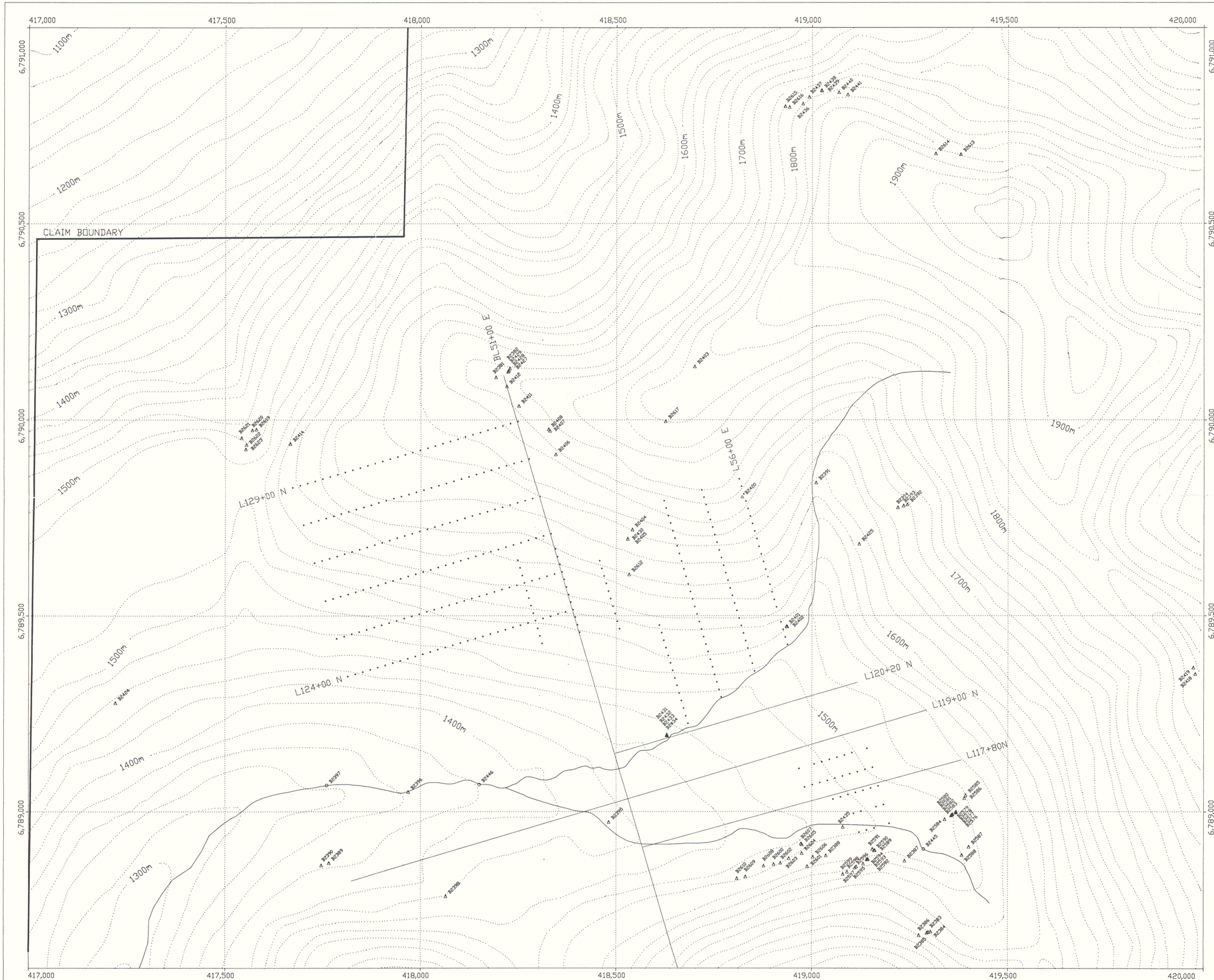
N

092991

0 200 400 600
METRES

MAP# 105913278 (218)

PLACER DOME EXPLORATION LIMITED	
Drawn by RWS	KONA PROJECT 272
DATE 91-10-16	GEOLOGY
SCALE 1:5000	SOUTH GRID
Geol. by RWS	NO. PLATE 6



KONA PROJECT 272
SAMPLE LOCATIONS
NORTH GRID

LEGEND

- SOIL SAMPLE LOCATION
- ROCK SAMPLE LOCATION
- SILT SAMPLE LOCATION

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:		SOIL.LOCASY
POINTS:	SAMP	ROCK.LOCASY
POINTS:	SAMP	SILT.LOCASY
	SEG	../TOPO/STREAMS
	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP# 1054/1,2,7,8 (217)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91:10:10	SAMPLE LOCATIONS
SCALE 1:5000	NORTH GRID
FIGURE 8	NO. PLATE

KONA PROJECT 272
PPB AU IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 5 PPB AU IN SOILS
- 5 - 10 PPB AU IN SOILS
- 10 - 15 PPB AU IN SOILS
- > 15 PPB AU IN SOILS

- < 5 PPB AU IN ROCKS
- 5 - 10 PPB AU IN ROCKS
- 10 - 15 PPB AU IN ROCKS
- > 15 PPB AU IN ROCKS

- < 5 PPB AU IN SILTS
- 5 - 10 PPB AU IN SILTS
- 10 - 15 PPB AU IN SILTS
- > 15 PPB AU IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

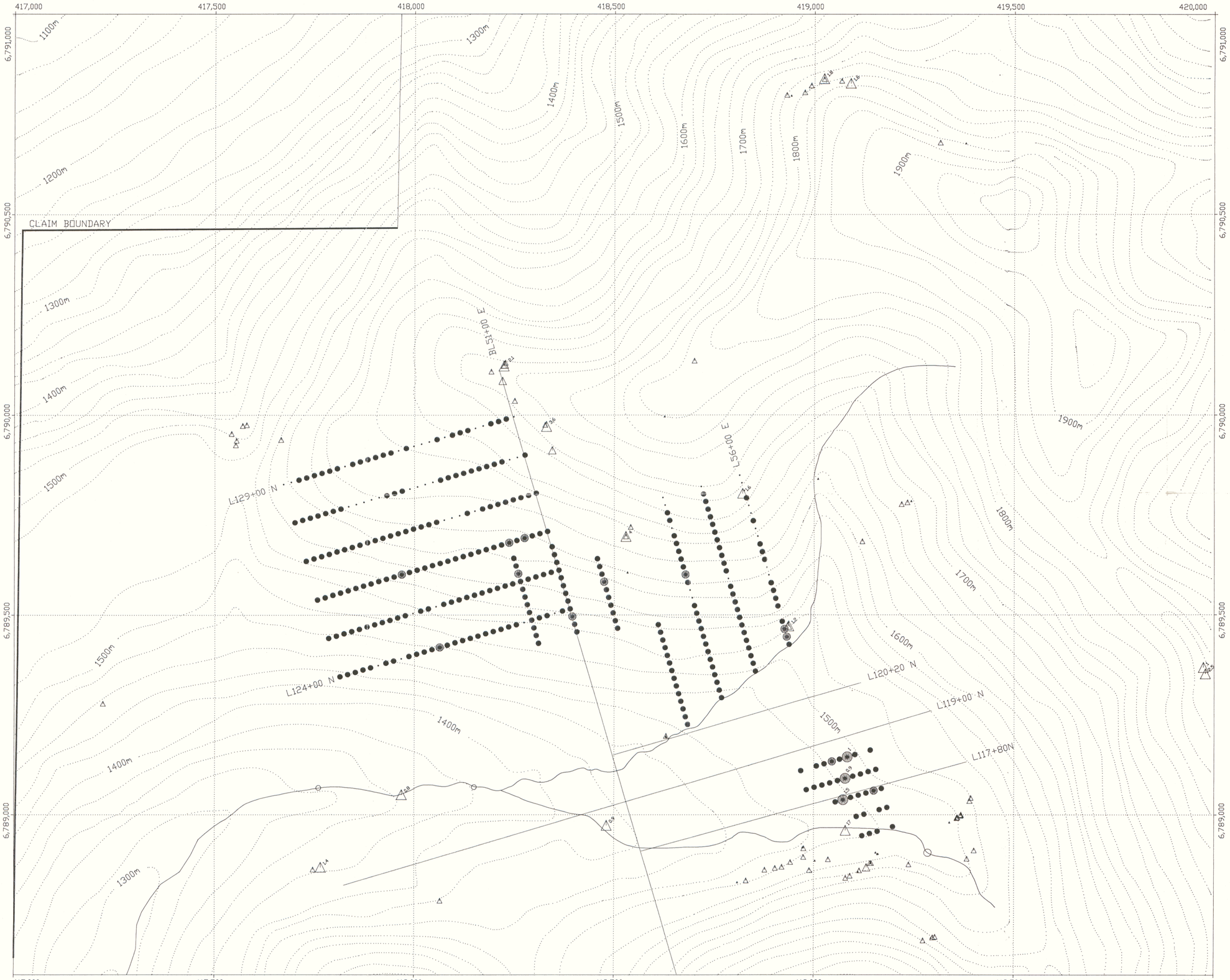
	FIELD	FILE
POINTS:	AU	SOIL.LOCASY
POINTS:	AU	SOIL.LOCASY
POINTS:	AU	ROCK.LOCASY
POINTS:	AU	ROCK.LOCASY
POINTS:	AU	SILT.LOCASY
POINTS:	AU	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

0 200 400 600
METRES

092991

MAP#1059/1,2,7,8 (216)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272 PPB AU IN SOILS, ROCKS, SILTS NORTH GRID
DATE 91-10-11	
SCALE 1:5000	
FIGURE 9	NO. PLATE



KONA PROJECT 272
PPM AG IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 0.10 PPM AG IN SOILS
- 0.10 – 0.50 PPM AG IN SOILS
- 0.50 – 0.75 PPM AG IN SOILS
- > 0.75 PPM AG IN SOILS
- < 0.10 PPM AG IN ROCKS
- 0.10 – 0.50 PPM AG IN ROCKS
- 0.50 – 0.75 PPM AG IN ROCKS
- > 0.75 PPM AG IN ROCKS
- < 0.10 PPM AG IN SILTS
- 0.10 – 0.50 PPM AG IN SILTS
- 0.50 – 0.75 PPM AG IN SILTS
- > 0.75 PPM AG IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	AG	SOIL.LOCASY
POINTS:	AG	SOIL.LOCASY
POINTS:	AG	ROCK.LOCASY
POINTS:	AG	ROCK.LOCASY
POINTS:	AG	SILT.LOCASY
POINTS:	AG	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP#1056/1278 (215)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91:10:07	PPM AG IN SOILS, ROCKS, SILTS
SCALE 1:5000	NORTH GRID
FIGURE 10	NO. PLATE

KONA PROJECT 272
% AL IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 1.7 % AL IN SOILS
- 1.7 - 3.0 % AL IN SOILS
- > 3.0 % AL IN SOILS
- < 1.7 % AL IN ROCKS
- 1.7 - 3.0 % AL IN ROCKS
- > 3.0 % AL IN ROCKS
- < 1.7 % AL IN SILTS
- 1.7 - 3.0 % AL IN SILTS
- > 3.0 % AL IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	AL	SOIL.LOCASY
POINTS:	AL	SOIL.LOCASY
POINTS:	AL	ROCK.LOCASY
POINTS:	AL	ROCK.LOCASY
POINTS:	AL	SILT.LOCASY
POINTS:	AL	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

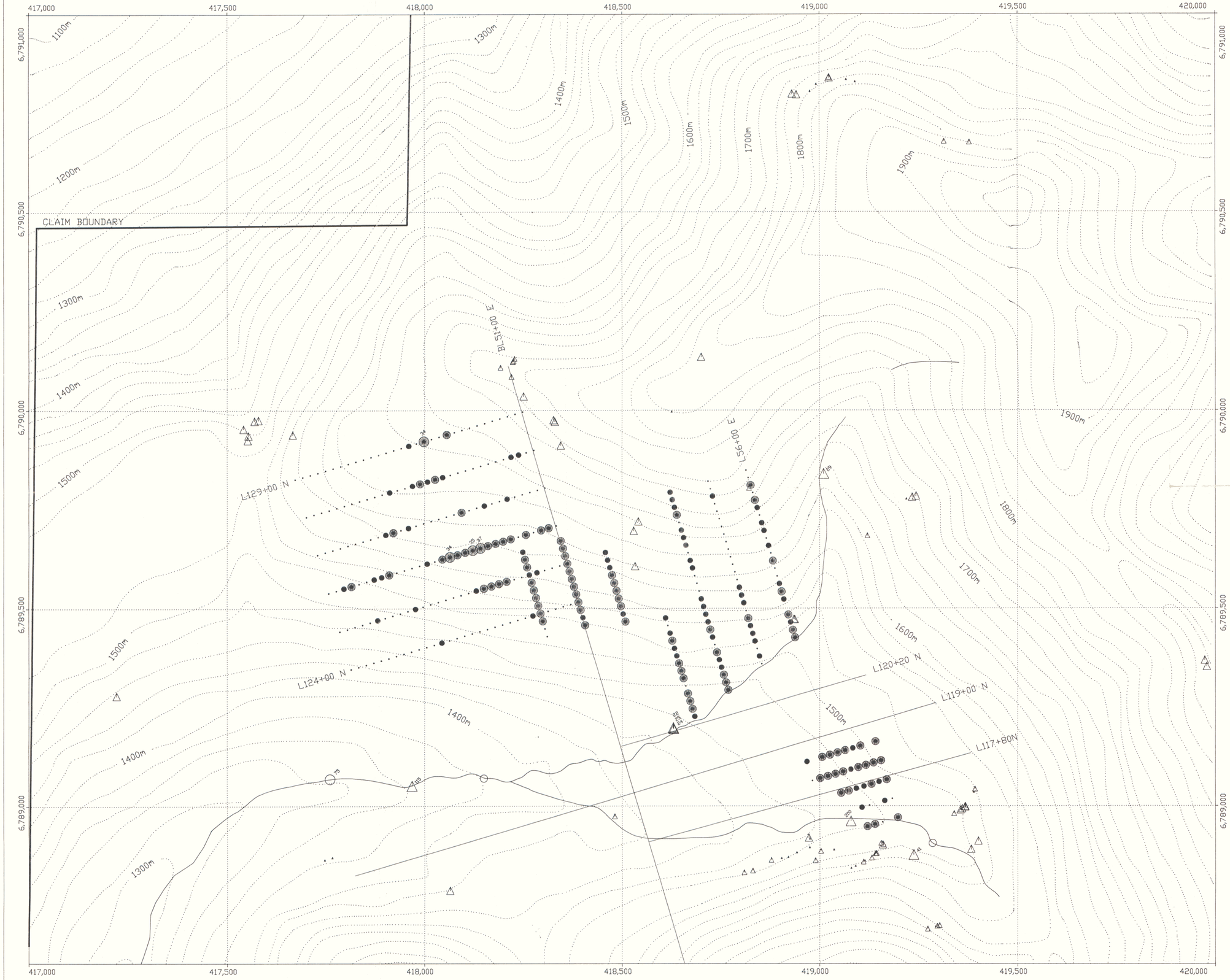
N

092991

0 200 400 600
METRES

MAP# 10561,278 (214)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91-10-08	% AL IN SOILS, ROCKS, SILTS
SCALE 1:5000	NORTH GRID
FIGURE 11	NO. PLATE



KONA PROJECT 272
PPM AS IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 5 PPM AS IN SOILS
- 5 - 9 PPM AS IN SOILS
- 9 - 22 PPM AS IN SOILS
- > 22 PPM AS IN SOILS
- < 5 PPM AS IN ROCKS
- 5 - 9 PPM AS IN ROCKS
- 9 - 22 PPM AS IN ROCKS
- > 22 PPM AS IN ROCKS
- < 5 PPM AS IN SILTS
- 5 - 9 PPM AS IN SILTS
- 9 - 22 PPM AS IN SILTS
- > 22 PPM AS IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	AS	SOIL.LOCASY
POINTS:	AS	SOIL.LOCASY
POINTS:	AS	ROCK.LOCASY
POINTS:	AS	ROCK.LOCASY
POINTS:	AS	SILT.LOCASY
POINTS:	AS	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP# 1056/1,2,7,8 (213)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91/10/08	PPM AS IN SOILS, ROCKS, SILTS
SCALE 1:5000	NORTH GRID
FIGURE 12	NO. PLATE

KONA PROJECT 272
PPM BA IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 100 PPM BA IN SOILS
- 100 - 300 PPM BA IN SOILS
- 300 - 600 PPM BA IN SOILS
- > 600 PPM BA IN SOILS

- < 100 PPM BA IN ROCKS
- 100 - 300 PPM BA IN ROCKS
- 300 - 600 PPM BA IN ROCKS
- > 600 PPM BA IN ROCKS

- < 100 PPM BA IN SILTS
- 100 - 300 PPM BA IN SILTS
- 300 - 600 PPM BA IN SILTS
- > 600 PPM BA IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

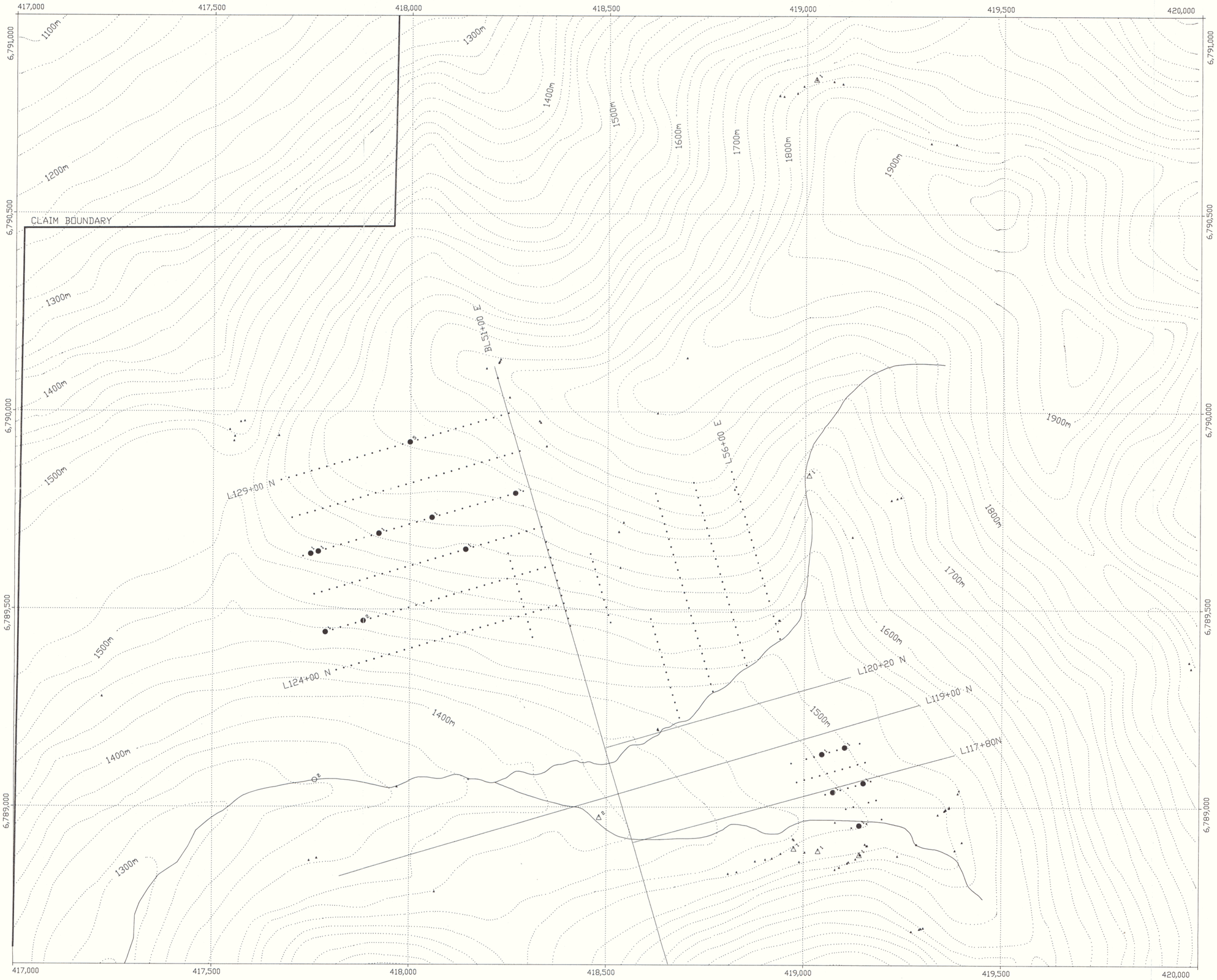
	FIELD	FILE
POINTS:	BA	SOIL.LOCASY
POINTS:	BA	SOIL.LOCASY
POINTS:	BA	ROCK.LOCASY
POINTS:	BA	ROCK.LOCASY
POINTS:	BA	SILT.LOCASY
POINTS:	BA	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

092991

0 200 400 600
METRES

MAP#105G/1,2,7,8 (212)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272 PPM BA IN SOILS, ROCKS, SILTS NORTH GRID
DATE 91:10:08	
SCALE 1:5000	
FIGURE 13	NO. PLATE



KONA PROJECT 272
PPM BE IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- · < 1 PPM BE IN SOILS
- ● > 1 PPM BE IN SOILS
- ▵ < 1 PPM BE IN ROCKS
- △ > 1 PPM BE IN ROCKS
- ◦ < 1 PPM BE IN SILTS
- ○ > 1 PPM BE IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	BE	SOIL.LOCASY
POINTS:	BE	SOIL.LOCASY
POINTS:	BE	ROCK.LOCASY
POINTS:	BE	ROCK.LOCASY
POINTS:	BE	SILT.LOCASY
POINTS:	BE	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP#105B/12,7,8 (211)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272 PPM BE IN SOILS, ROCKS, SILTS NORTH GRID
DATE 91/10/08	
SCALE 1:5000	
FIGURE 14	NO. PLATE

KONA PROJECT 272
PPM BI IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 2.0 PPM BI IN SOILS
- 2.0 - 3.0 PPM BI IN SOILS
- 3.0 - 6.0 PPM BI IN SOILS
- > 6.0 PPM BI IN SOILS
- < 2.0 PPM BI IN ROCKS
- 2.0 - 3.0 PPM BI IN ROCKS
- 3.0 - 6.0 PPM BI IN ROCKS
- > 6.0 PPM BI IN ROCKS
- < 2.0 PPM BI IN SILTS
- 2.0 - 3.0 PPM BI IN SILTS
- 3.0 - 6.0 PPM BI IN SILTS
- > 6.0 PPM BI IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	BI	SOIL.LOCASY
POINTS:	BI	SOIL.LOCASY
POINTS:	BI	ROCK.LOCASY
POINTS:	BI	ROCK.LOCASY
POINTS:	BI	SILT.LOCASY
POINTS:	BI	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP#105 4,2,78 (210)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91:10:08	PPM BI IN SOILS, ROCKS, SILTS
SCALE 1:5000	NORTH GRID
FIGURE 15	NO. PLATE

KONA PROJECT 272
% CA IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 0.10 % CA IN SOILS
- 0.10 – 0.30 % CA IN SOILS
- 0.30 – 0.80 % CA IN SOILS
- > 0.80 % CA IN SOILS

- < 0.10 % CA IN ROCKS
- 0.10 – 0.30 % CA IN ROCKS
- 0.30 – 0.80 % CA IN ROCKS
- > 0.80 % CA IN ROCKS

- < 0.10 % CA IN SILTS
- 0.10 – 0.30 % CA IN SILTS
- 0.30 – 0.80 % CA IN SILTS
- > 0.80 % CA IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	CA	SOIL.LOCASY
POINTS:	CA	SOIL.LOCASY
POINTS:	CA	ROCK.LOCASY
POINTS:	CA	ROCK.LOCASY
POINTS:	CA	SILT.LOCASY
POINTS:	CA	SILT.LOCASY
	SEG	../TOPO/STREAMS
	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP# 105 G/1,2,7,8 (230)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91/10/08	% CA IN SOILS, ROCKS, SILTS
SCALE 1:5000	NORTH GRID
FIGURE 16	NO. PLATE

KONA PROJECT 272
PPM CD IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 0.2 PPM CD IN SOILS
- 0.2 – 0.9 PPM CD IN SOILS
- 0.9 – 2.2 PPM CD IN SOILS
- > 2.2 PPM CD IN SOILS
- < 0.2 PPM CD IN ROCKS
- 0.2 – 0.9 PPM CD IN ROCKS
- 0.9 – 2.2 PPM CD IN ROCKS
- > 2.2 PPM CD IN ROCKS
- < 0.2 PPM CD IN SILTS
- 0.2 – 0.9 PPM CD IN SILTS
- 0.9 – 2.2 PPM CD IN SILTS
- > 2.2 PPM CD IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	CD	SOIL.LOCASY
POINTS:	CD	SOIL.LOCASY
POINTS:	CD	ROCK.LOCASY
POINTS:	CD	ROCK.LOCASY
POINTS:	CD	SILT.LOCASY
POINTS:	CD	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP #1059/1,2,7,8 (229)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91/10/08	PPM CD IN SOILS, ROCKS, SILTS
SCALE 1:5000	NORTH GRID
FIGURE 17	NO. PLATE

KONA PROJECT 272
PPM CO IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 10 PPM CO IN SOILS
- 10 - 17 PPM CO IN SOILS
- 17 - 24 PPM CO IN SOILS
- > 24 PPM CO IN SOILS

- < 10 PPM CO IN ROCKS
- 10 - 17 PPM CO IN ROCKS
- 17 - 24 PPM CO IN ROCKS
- > 24 PPM CO IN ROCKS

- < 10 PPM CO IN SILTS
- 10 - 17 PPM CO IN SILTS
- 17 - 24 PPM CO IN SILTS
- > 24 PPM CO IN SILTS

417,000 417,500 418,000 418,500 419,000 419,500 420,000

6,791,000 6,790,500 6,790,000 6,789,500 6,789,000

CLAIM BOUNDARY

1100m 1200m 1300m 1400m 1500m 1600m 1700m 1800m 1900m

BL 51+00 E

L56+00 E

L129+00 N

L124+00 N

L120+20 N

L119+00 N

L117+80N

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	CO	SOIL.LOCASY
POINTS:	CO	SOIL.LOCASY
POINTS:	CO	ROCK.LOCASY
POINTS:	CO	ROCK.LOCASY
POINTS:	CO	SILT.LOCASY
POINTS:	CO	SILT.LOCASY
	SEG	../TOPO/STREAMS
	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP# 105G/1,2,7,8

228

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272 PPM CO IN SOILS, ROCKS, SILTS NORTH GRID
DATE 91/10/08	
SCALE 1:5000	
FIGURE 18	NO. PLATE

417,000 417,500 418,000 418,500 419,000 419,500 420,000

6,791,000 6,790,500 6,790,000 6,789,500 6,789,000

1100m 1200m 1300m 1400m 1500m 1600m 1700m 1800m 1900m

CLAIM BOUNDARY

BL51+00 E

L129+00 N

L124+00 N

L120+20 N

L119+00 N

L117+80N

L56+00 E

KONA PROJECT 272
PPM CR IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 75 PPM CR IN SOILS
- 75 - 200 PPM CR IN SOILS
- 200 - 325 PPM CR IN SOILS
- > 325 PPM CR IN SOILS

- < 75 PPM CR IN ROCKS
- 75 - 200 PPM CR IN ROCKS
- 200 - 325 PPM CR IN ROCKS
- > 325 PPM CR IN ROCKS

- < 75 PPM CR IN SILTS
- 75 - 200 PPM CR IN SILTS
- 200 - 325 PPM CR IN SILTS
- > 325 PPM CR IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	CR	SOIL.LOCASY
POINTS:	CR	SOIL.LOCASY
POINTS:	CR	ROCK.LOCASY
POINTS:	CR	ROCK.LOCASY
POINTS:	CR	SILT.LOCASY
POINTS:	CR	SILT.LOCASY
———	SEG	.../TOPO/STREAMS
———	SEG	.../TOPO/BASELINES

N

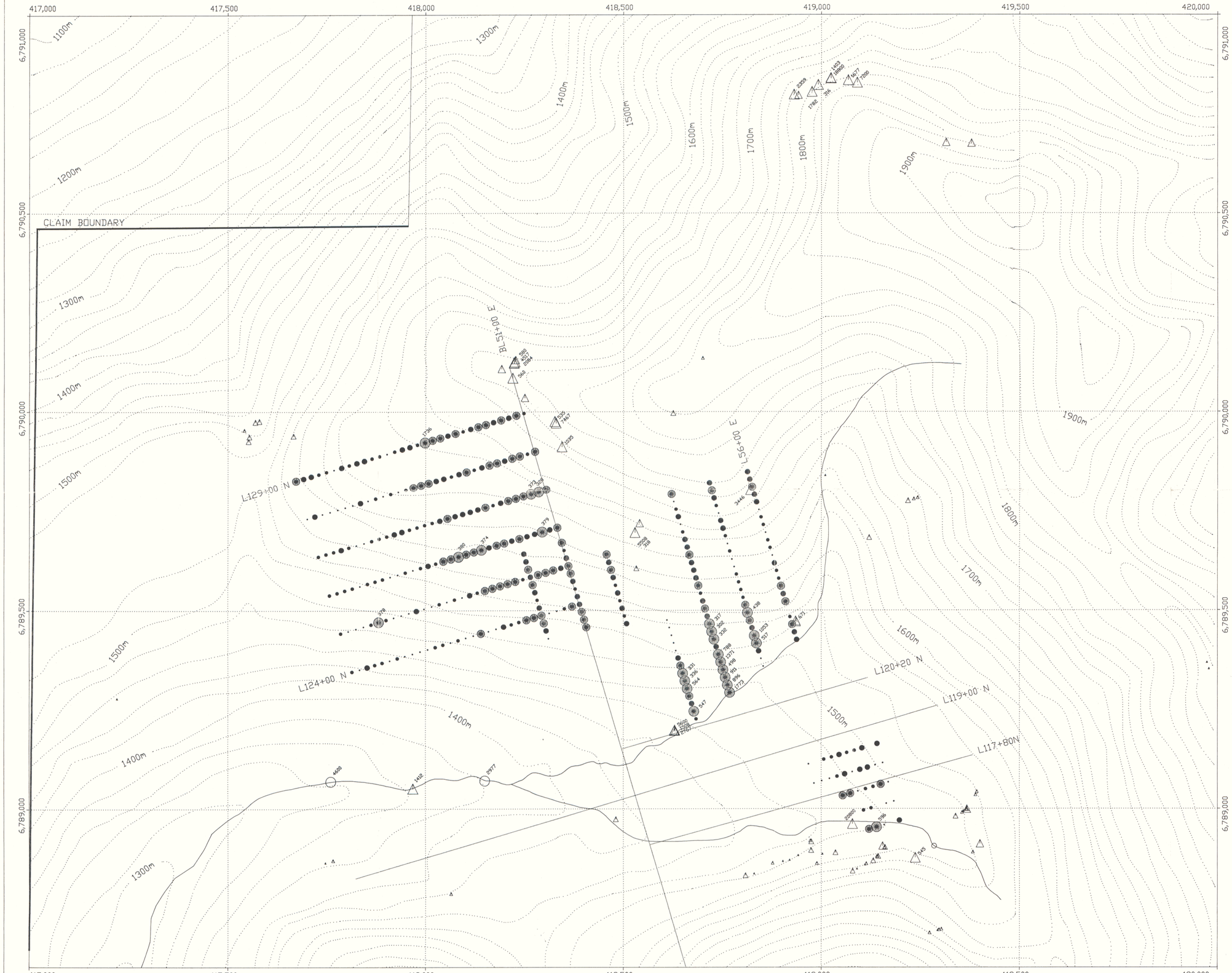
092991

0 200 400 600
METRES

MAP#1056/12,7,8 (227)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272 PPM CR IN SOILS, ROCKS, SILTS NORTH GRID
DATE 91/10/15	
SCALE 1:5000	
FIGURE 19	NO. PLATE

KONA PROJECT 272
PPM CU IN SOILS, ROCKS, SILTS
NORTH GRID



LEGEND

- · < 40 PPM CU IN SOILS
- • 40 - 75 PPM CU IN SOILS
- ● 75 - 135 PPM CU IN SOILS
- ◉ 135 - 300 PPM CU IN SOILS
- ◉ > 300 PPM CU IN SOILS

- ▪ < 40 PPM CU IN ROCKS
- ▲ 40 - 75 PPM CU IN ROCKS
- △ 75 - 135 PPM CU IN ROCKS
- △ 135 - 300 PPM CU IN ROCKS
- △ > 300 PPM CU IN ROCKS

- ◦ < 40 PPM CU IN SILTS
- ○ 40 - 75 PPM CU IN SILTS
- ○ 75 - 135 PPM CU IN SILTS
- ○ 135 - 300 PPM CU IN SILTS
- ◯ > 300 PPM CU IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	CU	SOIL.LOCASY
POINTS:	CU	SOIL.LOCASY
POINTS:	CU	ROCK.LOCASY
POINTS:	CU	ROCK.LOCASY
POINTS:	CU	SILT.LOCASY
POINTS:	CU	SILT.LOCASY
———	SEG	.../TOPO/STREAMS
———	SEG	.../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP# 1059/1,2,7,8

226

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272 PPM CU IN SOILS, ROCKS, SILTS NORTH GRID
DATE 91/10/07	
SCALE 1:5000	
FIGURE 20	NO. PLATE

KONA PROJECT 272
% FE IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 2.0 % FE IN SOILS
- 2.0 - 3.6 % FE IN SOILS
- 3.6 - 4.6 % FE IN SOILS
- > 4.6 % FE IN SOILS

- < 2.0 % FE IN ROCKS
- 2.0 - 3.6 % FE IN ROCKS
- 3.6 - 4.6 % FE IN ROCKS
- > 4.6 % FE IN ROCKS

- < 2.0 % FE IN SILTS
- 2.0 - 3.6 % FE IN SILTS
- 3.6 - 4.6 % FE IN SILTS
- > 4.6 % FE IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	FE	SOIL.LOCASY
POINTS:	FE	SOIL.LOCASY
POINTS:	FE	ROCK.LOCASY
POINTS:	FE	ROCK.LOCASY
POINTS:	FE	SILT.LOCASY
POINTS:	FE	SILT.LOCASY
	SEG	../TOPO/STREAMS
	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP# 1056/1,2,7,8 (225)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91/10/07	% FE IN SOILS, ROCKS, SILTS
SCALE 1:5000	NORTH GRID
FIGURE 21	NO. PLATE

KONA PROJECT 272
% K IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 0.12 % K IN SOILS
- 0.12 - 0.25 % K IN SOILS
- 0.25 - 0.45 % K IN SOILS
- > 0.45 % K IN SOILS

- < 0.12 % K IN ROCKS
- 0.12 - 0.25 % K IN ROCKS
- 0.25 - 0.45 % K IN ROCKS
- > 0.45 % K IN ROCKS

- < 0.12 % K IN SILTS
- 0.12 - 0.25 % K IN SILTS
- 0.25 - 0.45 % K IN SILTS
- > 0.45 % K IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	K	SOIL.LOCASY
POINTS:	K	SOIL.LOCASY
POINTS:	K	ROCK.LOCASY
POINTS:	K	ROCK.LOCASY
POINTS:	K	SILT.LOCASY
POINTS:	K	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

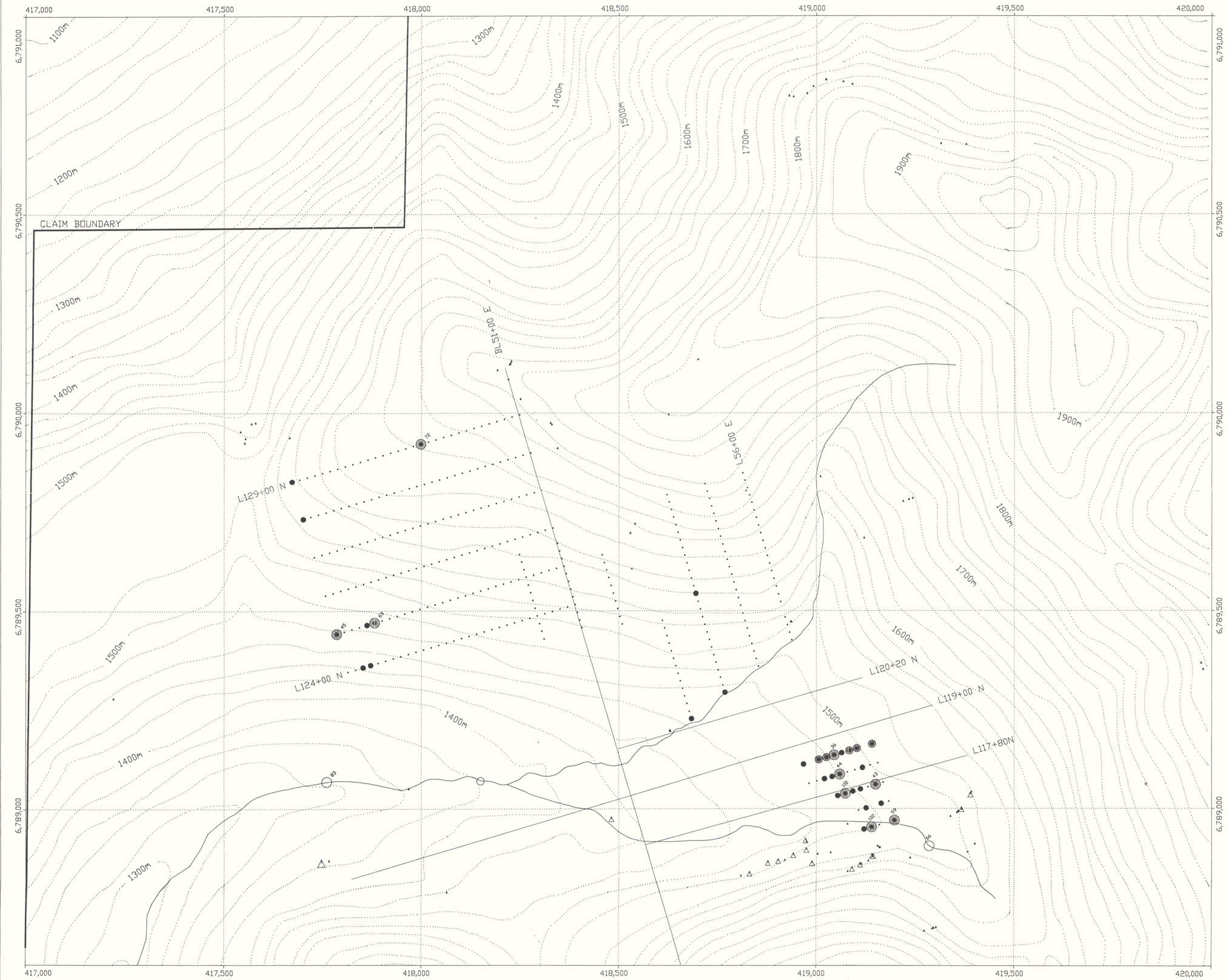
N

092991

0 200 400 600
METRES

MAP#1059/1,2,7,8 (224)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272 % K IN SOILS, ROCKS, SILTS NORTH GRID
DATE 91/10/08	
SCALE 1:5000	
FIGURE 22	NO. PLATE



KONA PROJECT 272
PPM LA IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- · < 12 PPM LA IN SOILS
- ● 12 - 24 PPM LA IN SOILS
- ◉ 24 - 36 PPM LA IN SOILS
- ◉ > 36 PPM LA IN SOILS

- ▵ < 12 PPM LA IN ROCKS
- ▵ 12 - 24 PPM LA IN ROCKS
- △ 24 - 36 PPM LA IN ROCKS
- △ > 36 PPM LA IN ROCKS

- · < 12 PPM LA IN SILTS
- o 12 - 24 PPM LA IN SILTS
- ○ 24 - 36 PPM LA IN SILTS
- ◯ > 36 PPM LA IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	LA	SOIL.LOCASY
POINTS:	LA	SOIL.LOCASY
POINTS:	LA	ROCK.LOCASY
POINTS:	LA	ROCK.LOCASY
POINTS:	LA	SILT.LOCASY
POINTS:	LA	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP #105G/1,2,7,8 (223)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272 PPM LA IN SOILS, ROCKS, SILTS NORTH GRID
DATE 91/10/08	
SCALE 1:5000	
FIGURE 23	NO. PLATE

KONA PROJECT 272
% MG IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 0.75 % MG IN SOILS
- 0.75 - 2.00 % MG IN SOILS
- 2.00 - 3.00 % MG IN SOILS
- > 3.00 % MG IN SOILS

- < 0.75 % MG IN ROCKS
- 0.75 - 2.00 % MG IN ROCKS
- 2.00 - 3.00 % MG IN ROCKS
- > 3.00 % MG IN ROCKS

- < 0.75 % MG IN SILTS
- 0.75 - 2.00 % MG IN SILTS
- 2.00 - 3.00 % MG IN SILTS
- > 3.00 % MG IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	MG	SOIL.LOCASY
POINTS:	MG	SOIL.LOCASY
POINTS:	MG	ROCK.LOCASY
POINTS:	MG	ROCK.LOCASY
POINTS:	MG	SILT.LOCASY
POINTS:	MG	SILT.LOCASY
	SEG	../TOPO/STREAMS
	SEG	../TOPO/BASELINES

092991

0 200 400 600
METRES

MAP#105G/1,2,7,8 (222)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91/10/08	% MG IN SOILS, ROCKS, SILTS
SCALE 1:5000	NORTH GRID
FIGURE 24	NO. PLATE

KONA PROJECT 272
PPM MN IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 200 PPM MN IN SOILS
- 200 – 450 PPM MN IN SOILS
- 450 – 950 PPM MN IN SOILS
- > 950 PPM MN IN SOILS

- < 200 PPM MN IN ROCKS
- 200 – 450 PPM MN IN ROCKS
- 450 – 950 PPM MN IN ROCKS
- > 950 PPM MN IN ROCKS

- < 200 PPM MN IN SILTS
- 200 – 450 PPM MN IN SILTS
- 450 – 950 PPM MN IN SILTS
- > 950 PPM MN IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	MN	SOIL.LOCASY
POINTS:	MN	SOIL.LOCASY
POINTS:	MN	ROCK.LOCASY
POINTS:	MN	ROCK.LOCASY
POINTS:	MN	SILT.LOCASY
POINTS:	MN	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

092991.

0 200 400 600
METRES

MAP#1056 1,2,7,8 (221)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91:10:08	PPM MN IN SOILS, ROCKS, SILTS
SCALE 1:5000	NORTH GRID
FIGURE 25	NO. PLATE

KONA PROJECT 272
PPM MO IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- · < 2 PPM MO IN SOILS
- ● 2 - 6 PPM MO IN SOILS
- ✺ > 6 PPM MO IN SOILS
- ▲ < 2 PPM MO IN ROCKS
- △ 2 - 6 PPM MO IN ROCKS
- △ > 6 PPM MO IN ROCKS
- · < 2 PPM MO IN SILTS
- ○ 2 - 6 PPM MO IN SILTS
- ○ > 6 PPM MO IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	MO	SOIL.LOCASY
POINTS:	MO	SOIL.LOCASY
POINTS:	MO	ROCK.LOCASY
POINTS:	MO	ROCK.LOCASY
POINTS:	MO	SILT.LOCASY
POINTS:	MO	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP# 1059/1,2,7,8 (220)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91:10:08	PPM MO IN SOILS, ROCKS, SILTS
SCALE 1:5000	NORTH GRID
FIGURE 26	NO. PLATE

417,000 417,500 418,000 418,500 419,000 419,500 420,000

6,791,000 6,790,500 6,790,000 6,789,500 6,789,000

1100m 1200m 1300m 1400m 1500m 1600m 1700m 1800m 1900m

CLAIM BOUNDARY

BL 51+00 E

L56+00 E

L129+00 N

L124+00 N

L120+20 N

L119+00 N

L117+80N

KONA PROJECT 272
% NA IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 0.01 % NA IN SOILS
- 0.01 – 0.02 % NA IN SOILS
- 0.02 – 0.03 % NA IN SOILS
- > 0.03 % NA IN SOILS

- < 0.01 % NA IN ROCKS
- 0.01 – 0.02 % NA IN ROCKS
- 0.02 – 0.03 % NA IN ROCKS
- > 0.03 % NA IN ROCKS

- < 0.01 % NA IN SILTS
- 0.01 – 0.02 % NA IN SILTS
- 0.02 – 0.03 % NA IN SILTS
- > 0.03 % NA IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	NA	SOIL.LOCASY
POINTS:	NA	SOIL.LOCASY
POINTS:	NA	ROCK.LOCASY
POINTS:	NA	ROCK.LOCASY
POINTS:	NA	SILT.LOCASY
POINTS:	NA	SILT.LOCASY
	SEG	../TOPO/STREAMS
	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP#1056/1,2,7,8 (241)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91/10/08	% NA IN SOILS, ROCKS, SILTS
SCALE 1:5000	NORTH GRID
FIGURE 27	NO. PLATE

KONA PROJECT 272
PPM NI IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 20 PPM NI IN SOILS
- 20 - 40 PPM NI IN SOILS
- 40 - 90 PPM NI IN SOILS
- > 90 PPM NI IN SOILS

- < 20 PPM NI IN ROCKS
- 20 - 40 PPM NI IN ROCKS
- 40 - 90 PPM NI IN ROCKS
- > 90 PPM NI IN ROCKS

- < 20 PPM NI IN SILTS
- 20 - 40 PPM NI IN SILTS
- 40 - 90 PPM NI IN SILTS
- > 90 PPM NI IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	NI	SOIL.LOCASY
POINTS:	NI	SOIL.LOCASY
POINTS:	NI	ROCK.LOCASY
POINTS:	NI	ROCK.LOCASY
POINTS:	NI	SILT.LOCASY
POINTS:	NI	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

092991

0 200 400 600
METRES

MAP# 1056/12,7,8 (240)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91/10/08	PPM NI IN SOILS, ROCKS, SILTS
SCALE 1:5000	NORTH GRID
FIGURE 28	NO. PLATE

417,000 417,500 418,000 418,500 419,000 419,500 420,000

6,791,000 6,790,500 6,790,000 6,789,500 6,789,000

CLAIM BOUNDARY

1100m 1200m 1300m 1400m 1500m 1600m 1700m 1800m 1900m

L51+00 E

L56+00 E

L129+00 N

L124+00 N

L120+20 N

L119+00 N

L117+80N

KONA PROJECT 272
% P IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- · < 0.03 % P IN SOILS
- ● 0.03 – 0.06 % P IN SOILS
- ◉ 0.06 – 0.11 % P IN SOILS
- ✹ > 0.11 % P IN SOILS

- · < 0.03 % P IN ROCKS
- △ 0.03 – 0.06 % P IN ROCKS
- △ 0.06 – 0.11 % P IN ROCKS
- △ > 0.11 % P IN ROCKS

- · < 0.03 % P IN SILTS
- ○ 0.03 – 0.06 % P IN SILTS
- ○ 0.06 – 0.11 % P IN SILTS
- ◯ > 0.11 % P IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	P	SOIL.LOCASY
POINTS:	P	SOIL.LOCASY
POINTS:	P	ROCK.LOCASY
POINTS:	P	ROCK.LOCASY
POINTS:	P	SILT.LOCASY
POINTS:	P	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP #105 G1,2,7,8 (239)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91:10:08	% P IN SOILS, ROCKS, SILTS
SCALE 1:5000	NORTH GRID
FIGURE 29	NO. PLATE

KONA PROJECT 272
PPM PB IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 20 PPM PB IN SOILS
- 20 - 30 PPM PB IN SOILS
- 30 - 42 PPM PB IN SOILS
- 42 - 70 PPM PB IN SOILS
- > 70 PPM PB IN SOILS
- < 20 PPM PB IN ROCKS
- 20 - 30 PPM PB IN ROCKS
- 30 - 42 PPM PB IN ROCKS
- 42 - 70 PPM PB IN ROCKS
- > 70 PPM PB IN ROCKS
- < 20 PPM PB IN SILTS
- 20 - 30 PPM PB IN SILTS
- 30 - 42 PPM PB IN SILTS
- 42 - 70 PPM PB IN SILTS
- > 70 PPM PB IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	PB	SOIL.LOCASY
POINTS:	PB	SOIL.LOCASY
POINTS:	PB	ROCK.LOCASY
POINTS:	PB	ROCK.LOCASY
POINTS:	PB	SILT.LOCASY
POINTS:	PB	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

092991

0 200 400 600
METRES

MAP#1056/1,2,7,8 238

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91:10:07	PPM PB IN SOILS, ROCKS, SILTS
SCALE 1:5000	NORTH GRID
FIGURE 30	NO. PLATE

KONA PROJECT 272
PPM SB IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- · < 6 PPM SB IN SOILS
- ● 6 - 9.5 PPM SB IN SOILS
- ◉ > 9.5 PPM SB IN SOILS
- ▵ < 6 PPM SB IN ROCKS
- △ 6 - 9.5 PPM SB IN ROCKS
- △ > 9.5 PPM SB IN ROCKS
- · < 6 PPM SB IN SILTS
- ○ 6 - 9.5 PPM SB IN SILTS
- ◯ > 9.5 PPM SB IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	SB	SOIL.LOCASY
POINTS:	SB	SOIL.LOCASY
POINTS:	SB	ROCK.LOCASY
POINTS:	SB	ROCK.LOCASY
POINTS:	SB	SILT.LOCASY
POINTS:	SB	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

092991

0 200 400 600
METRES

MAP #105 G/1,2,7,8 (237)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272 PPM SB IN SOILS, ROCKS, SILTS NORTH GRID
DATE 91:10:08	
SCALE 1:5000	
FIGURE 31	NO. PLATE

KONA PROJECT 272
PPM SR IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 10 PPM SR IN SOILS
- 10 - 35 PPM SR IN SOILS
- 35 - 50 PPM SR IN SOILS
- > 50 PPM SR IN SOILS
- < 10 PPM SR IN ROCKS
- 10 - 35 PPM SR IN ROCKS
- 35 - 50 PPM SR IN ROCKS
- > 50 PPM SR IN ROCKS
- < 10 PPM SR IN SILTS
- 10 - 35 PPM SR IN SILTS
- 35 - 50 PPM SR IN SILTS
- > 50 PPM SR IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	SR	SOIL.LOCASY
POINTS:	SR	SOIL.LOCASY
POINTS:	SR	ROCK.LOCASY
POINTS:	SR	ROCK.LOCASY
POINTS:	SR	SILT.LOCASY
POINTS:	SR	SILT.LOCASY
	SEG	../TOPO/STREAMS
	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP#10591, 2, 7, 8 (236)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91/10/08	PPM SR IN SOILS, ROCKS, SILTS
SCALE 1:5000	NORTH GRID
FIGURE 32	NO. PLATE

KONA PROJECT 272
% TI IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 0.06 % TI IN SOILS
- 0.06 - 0.14 % TI IN SOILS
- 0.14 - 0.20 % TI IN SOILS
- > 0.20 % TI IN SOILS

- < 0.06 % TI IN ROCKS
- 0.06 - 0.14 % TI IN ROCKS
- 0.14 - 0.20 % TI IN ROCKS
- > 0.20 % TI IN ROCKS

- < 0.06 % TI IN SILTS
- 0.06 - 0.14 % TI IN SILTS
- 0.14 - 0.20 % TI IN SILTS
- > 0.20 % TI IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	TI	SOIL.LOCASY
POINTS:	TI	SOIL.LOCASY
POINTS:	TI	ROCK.LOCASY
POINTS:	TI	ROCK.LOCASY
POINTS:	TI	SILT.LOCASY
POINTS:	TI	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

092991

0 200 400 600
METRES

MAP#1056/1,2,7,8 (235)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91/10/08	% TI IN SOILS, ROCKS, SILTS
SCALE 1:5000	NORTH GRID
FIGURE 33	NO. PLATE

417,000 417,500 418,000 418,500 419,000 419,500 420,000

6,791,000 6,790,500 6,790,000 6,789,500 6,789,000

1100m 1200m 1300m 1400m 1500m 1600m 1700m 1800m 1900m

CLAIM BOUNDARY

BL 51+00 E

L56+95 E

L129+00 N

L124+00 N

L120+20 N

L119+00 N

L117+80N

KONA PROJECT 272
PPM V IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 30 PPM V IN SOILS
- 30 - 50 PPM V IN SOILS
- 50 - 105 PPM V IN SOILS
- > 105 PPM V IN SOILS
- < 30 PPM V IN ROCKS
- 30 - 50 PPM V IN ROCKS
- 50 - 105 PPM V IN ROCKS
- > 105 PPM V IN ROCKS
- < 30 PPM V IN SILTS
- 30 - 50 PPM V IN SILTS
- 50 - 105 PPM V IN SILTS
- > 105 PPM V IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	V	SOIL.LOCASY
POINTS:	V	SOIL.LOCASY
POINTS:	V	ROCK.LOCASY
POINTS:	V	ROCK.LOCASY
POINTS:	V	SILT.LOCASY
POINTS:	V	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

092991

N

0 200 400 600
METRES

MAP#1059 1,2,7,8

234

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272 PPM V IN SOILS, ROCKS, SILTS NORTH GRID
DATE 91:10:08	
SCALE 1:5000	
FIGURE 34	NO. PLATE

KONA PROJECT 272
PPM W IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 10 PPM W IN SOILS
- 10 - 15 PPM W IN SOILS
- 15 - 20 PPM W IN SOILS
- > 20 PPM W IN SOILS

- < 10 PPM W IN ROCKS
- 10 - 15 PPM W IN ROCKS
- 15 - 20 PPM W IN ROCKS
- > 20 PPM W IN ROCKS

- < 10 PPM W IN SILTS
- 10 - 15 PPM W IN SILTS
- 15 - 20 PPM W IN SILTS
- > 20 PPM W IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	W	SOIL.LOCASY
POINTS:	W	SOIL.LOCASY
POINTS:	W	ROCK.LOCASY
POINTS:	W	ROCK.LOCASY
POINTS:	W	SILT.LOCASY
POINTS:	W	SILT.LOCASY
	SEG	../TOPO/STREAMS
	SEG	../TOPO/BASELINES

092881

0 200 400 600
METRES

MAP #105G/1,2,7,8

(233)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272 PPM W IN SOILS, ROCKS, SILTS NORTH GRID
DATE 91/10/08	
SCALE 1:5000	
FIGURE 35	NO. PLATE

KONA PROJECT 272
PPM ZN IN SOILS, ROCKS, SILTS
NORTH GRID

LEGEND

- < 70 PPM ZN IN SOILS
- 70 – 140 PPM ZN IN SOILS
- 140 – 280 PPM ZN IN SOILS
- 280 – 400 PPM ZN IN SOILS
- > 400 PPM ZN IN SOILS

- < 70 PPM ZN IN ROCKS
- 70 – 140 PPM ZN IN ROCKS
- 140 – 280 PPM ZN IN ROCKS
- 280 – 400 PPM ZN IN ROCKS
- > 400 PPM ZN IN ROCKS

- < 70 PPM ZN IN SILTS
- 70 – 140 PPM ZN IN SILTS
- 140 – 280 PPM ZN IN SILTS
- 280 – 400 PPM ZN IN SILTS
- > 400 PPM ZN IN SILTS

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	ZN	SOIL.LOCASY
POINTS:	ZN	SOIL.LOCASY
POINTS:	ZN	ROCK.LOCASY
POINTS:	ZN	ROCK.LOCASY
POINTS:	ZN	SILT.LOCASY
POINTS:	ZN	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

092991

N

0 200 400 600
METRES

MAP 105G/1,2,7,8

232

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91/10/07	PPM ZN IN SOILS, ROCKS, SILTS
SCALE 1:5000	NORTH GRID
FIGURE 36	NO. PLATE

VOLUME III OF IV

Geological, Geochemical and Geophysical Report on the KONA PROPERTY

Watson Lake Mining District
Yukon Territory

NTS: 105 G/1,2,7,8
Latitude 61° 14'N Longitude 130° 30'W

Owner of Claims: Welcome North Mines Limited

092C91
OFFICE OF THE REGIONAL MANAGER
MINERAL RIGHTS
JAN 14 1992
WHITEHORSE
YUKON TERRITORY

By: Robert W. Stroshein
Placer Dome Exploration Limited
December 24, 1991

RECEIVED
JAN - 8 1992
MINING RECORDER
WATSON LAKE, Y.T.
L.A. & N.D.

KONA PROJECT 272
SAMPLE LOCATIONS
SOUTH GRID

LEGEND

- SOIL SAMPLE LOCATION
- ROCK SAMPLE LOCATION
- SILT SAMPLE LOCATION

L106+00 N

L60+00 E

L100+00 N

L82+00 N

L40+00 E

BL50+00 E

CLAIM BOUNDARY

FIRE

LAKE

1800m

1700m

1600m

1500m

1400m

1300m

1200m

1100m

417,000 417,500 418,000 418,500 419,000 419,500 420,000 420,500 421,000

6,788,500 6,788,000 6,787,500 6,787,000 6,786,500 6,786,000 6,785,500 6,785,000 6,784,500

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

		FIELD	FILE
●	POINTS:		SOIL.LOCASY
△	POINTS:	SAMP	ROCK.LOCASY
○	POINTS:	SAMP	SILT.LOCASY
	SEG		../TOPO/STREAMS
	SEG		../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP #059/1278 (231)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272 SAMPLE LOCATIONS SOUTH GRID
DATE 91/10/16	
SCALE 1:5000	
FIGURE 37	NO. PLATE

KONA PROJECT 272
PPB AU IN SOILS, ROCKS, SILTS
SOUTH GRID

LEGEND

- < 5 PPB AU IN SOILS
- 5 - 10 PPB AU IN SOILS
- 10 - 15 PPB AU IN SOILS
- > 15 PPB AU IN SOILS

- < 5 PPB AU IN ROCKS
- 5 - 10 PPB AU IN ROCKS
- 10 - 15 PPB AU IN ROCKS
- > 15 PPB AU IN ROCKS

- < 5 PPB AU IN SILTS
- 5 - 10 PPB AU IN SILTS
- 10 - 15 PPB AU IN SILTS
- > 15 PPB AU IN SILTS

1800m
1700m
1600m
1500m
1400m
1300m
1200m
1100m
L60+00 E
L82+00 N
L40+00 E
BL50+00 E
CLAIM BOUNDARY
FIRE
LAKE

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	AU	SOIL.LOCASY
POINTS:	AU	SOIL.LOCASY
POINTS:	AU	ROCK.LOCASY
POINTS:	AU	ROCK.LOCASY
POINTS:	AU	SILT.LOCASY
POINTS:	AU	SILT.LOCASY
	SEG	../TOPO/STREAMS
	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP#1059 1,2,7,8 (248)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91:10:16	PPB AU IN SOILS, ROCKS, SILTS
SCALE 1:5000	SOUTH GRID
FIGURE 38	NO. PLATE

KONA PROJECT 272
% AL IN SOILS, ROCKS, SILTS
SOUTH GRID

LEGEND

- < 1.7 % AL IN SOILS
- 1.7 – 3.0 % AL IN SOILS
- > 3.0 % AL IN SOILS
- < 1.7 % AL IN ROCKS
- 1.7 – 3.0 % AL IN ROCKS
- > 3.0 % AL IN ROCKS
- < 1.7 % AL IN SILTS
- 1.7 – 3.0 % AL IN SILTS
- > 3.0 % AL IN SILTS

CLAIM BOUNDARY

FIRE

LAKE

L100+00 N

L106+00 N

L82+00 N

L60+00 E

L50+00 E

L40+00 E

1800m

1700m

1600m

1500m

1400m

1300m

1200m

1100m

417,000 417,500 418,000 418,500 419,000 419,500 420,000 420,500 421,000

6,788,500 6,788,000 6,787,500 6,787,000 6,786,500 6,786,000 6,785,500 6,785,000 6,784,500

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	AL	SOIL.LOCASY
POINTS:	AL	SOIL.LOCASY
POINTS:	AL	ROCK.LOCASY
POINTS:	AL	ROCK.LOCASY
POINTS:	AL	SILT.LOCASY
POINTS:	AL	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP# 105B/12,7,8 (247)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91/10/22	% AL IN SOILS, ROCKS, SILTS
SCALE 1:5000	SOUTH GRID
FIGURE 39	NO. PLATE

KONA PROJECT 272
PPM AG IN SOILS, ROCKS, SILTS
SOUTH GRID

LEGEND

- < 0.10 PPM AG IN SOILS
- 0.10 - 0.50 PPM AG IN SOILS
- 0.50 - 0.75 PPM AG IN SOILS
- > 0.75 PPM AG IN SOILS

- < 0.10 PPM AG IN ROCKS
- 0.10 - 0.50 PPM AG IN ROCKS
- 0.50 - 0.75 PPM AG IN ROCKS
- > 0.75 PPM AG IN ROCKS

- < 0.10 PPM AG IN SILTS
- 0.10 - 0.50 PPM AG IN SILTS
- 0.50 - 0.75 PPM AG IN SILTS
- > 0.75 PPM AG IN SILTS

417,000 417,500 418,000 418,500 419,000 419,500 420,000 420,500 421,000

6,788,500 6,788,000 6,787,500 6,787,000 6,786,500 6,786,000 6,785,500 6,785,000 6,784,500

1800m 1700m 1600m 1500m 1400m 1300m 1200m 1100m

L106+00 N

L100+00 N

L82+00 N

L60+00 E

L40+00 E

BL 50+00 E

CLAIM BOUNDARY

FIRE

LAKE

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	AG	SOIL.LOCASY
POINTS:	AG	SOIL.LOCASY
POINTS:	AG	ROCK.LOCASY
POINTS:	AG	ROCK.LOCASY
POINTS:	AG	SILT.LOCASY
POINTS:	AG	SILT.LOCASY
	SEG	../TOPO/STREAMS
	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP# 105 91/237 (246)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91/10/16	PPM AG IN SOILS, ROCKS, SILTS
SCALE 1:5000	SOUTH GRID
FIGURE 40	NO. PLATE

KONA PROJECT 272
% CA IN SOILS, ROCKS, SILTS
SOUTH GRID

LEGEND

- < 0.10 % CA IN SOILS
- 0.10 - 0.30 % CA IN SOILS
- 0.30 - 0.80 % CA IN SOILS
- > 0.80 % CA IN SOILS

- < 0.10 % CA IN ROCKS
- 0.10 - 0.30 % CA IN ROCKS
- 0.30 - 0.80 % CA IN ROCKS
- > 0.80 % CA IN ROCKS

- < 0.10 % CA IN SILTS
- 0.10 - 0.30 % CA IN SILTS
- 0.30 - 0.80 % CA IN SILTS
- > 0.80 % CA IN SILTS

417,000 417,500 418,000 418,500 419,000 419,500 420,000 420,500 421,000

6,788,500 6,788,000 6,787,500 6,787,000 6,786,500 6,786,000 6,785,500 6,785,000 6,784,500

1800m 1700m 1600m 1500m 1400m 1300m 1200m 1100m

L106+00 N

L60+00 E

L100+00 N

L82+00 N

L40+00 E

BL50+00 E

CLAIM BOUNDARY

FIRE

LAKE

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	CA	SOIL.LOCASY
POINTS:	CA	SOIL.LOCASY
POINTS:	CA	ROCK.LOCASY
POINTS:	CA	ROCK.LOCASY
POINTS:	CA	SILT.LOCASY
POINTS:	CA	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP#1059/1,2,7,8 (245)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91-10-16	% CA IN SOILS, ROCKS, SILTS
SCALE 1:5000	SOUTH GRID
FIGURE 41	NO. PLATE

KONA PROJECT 272
PPM CR IN SOILS, ROCKS, SILTS
SOUTH GRID

LEGEND

- < 75 PPM CR IN SOILS
- 75 - 125 PPM CR IN SOILS
- 125 - 325 PPM CR IN SOILS
- > 325 PPM CR IN SOILS

- < 75 PPM CR IN ROCKS
- 75 - 125 PPM CR IN ROCKS
- 125 - 325 PPM CR IN ROCKS
- > 325 PPM CR IN ROCKS

- < 75 PPM CR IN SILTS
- 75 - 125 PPM CR IN SILTS
- 125 - 325 PPM CR IN SILTS
- > 325 PPM CR IN SILTS

417,000 417,500 418,000 418,500 419,000 419,500 420,000 420,500 421,000

6,788,500 6,788,000 6,787,500 6,787,000 6,786,500 6,786,000 6,785,500 6,785,000 6,784,500

1800m 1700m 1600m 1500m 1400m 1300m 1200m 1100m

L106+00 N

L100+00 N

L82+00 N

L60+00 E

L40+00 E

BL50+00 E

CLAIM BOUNDARY

FIRE

LAKE

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	CR	SOIL.LOCASY
POINTS:	CR	SOIL.LOCASY
POINTS:	CR	ROCK.LOCASY
POINTS:	CR	ROCK.LOCASY
POINTS:	CR	SILT.LOCASY
POINTS:	CR	SILT.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP #1659/1,2,7,8 (244)

PLACER DOME EXPLORATION LIMITED

DRAWN BJR	KONA PROJECT 272
DATE 91/10/16	PPM CR IN SOILS, ROCKS, SILTS
SCALE 1:5000	SOUTH GRID
FIGURE 42	NO. PLATE

KONA PROJECT 272
PPM CU IN SOILS, ROCKS, SILTS
SOUTH GRID

LEGEND

- < 40 PPM CU IN SOILS
- 40 - 75 PPM CU IN SOILS
- 75 - 135 PPM CU IN SOILS
- 135 - 300 PPM CU IN SOILS
- > 300 PPM CU IN SOILS

- < 40 PPM CU IN ROCKS
- 40 - 75 PPM CU IN ROCKS
- 75 - 135 PPM CU IN ROCKS
- 135 - 300 PPM CU IN ROCKS
- > 300 PPM CU IN ROCKS

- < 40 PPM CU IN SILTS
- 40 - 75 PPM CU IN SILTS
- 75 - 135 PPM CU IN SILTS
- 135 - 300 PPM CU IN SILTS
- > 300 PPM CU IN SILTS

417,000 417,500 418,000 418,500 419,000 419,500 420,000 420,500 421,000

6,788,500 6,788,000 6,787,500 6,787,000 6,786,500 6,786,000 6,785,500 6,785,000 6,784,500

1800m 1700m 1600m 1500m 1400m 1300m 1200m 1100m

L106+00 N

L100+00 N

L82+00 N

L40+00 E

L60+00 E

BL50+00 E

CLAIM BOUNDARY

FIRE

LAKE

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	CU	SOIL.LOCASY
POINTS:	CU	SOIL.LOCASY
POINTS:	CU	ROCK.LOCASY
POINTS:	CU	ROCK.LOCASY
POINTS:	CU	SILT.LOCASY
POINTS:	CU	SILT.LOCASY
	SEG	../TOPO/CONTOURS
	SEG	../TOPO/CLAIMS
	SEG	../TOPO/STREAMS
	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP#10591,2,7,8 (242)

PLACER DOME EXPLORATION LIMITED

DRAWN BJR	KONA PROJECT 272
DATE 91/10/16	PPM CU IN SOILS, ROCKS, SILTS
SCALE 1:5000	SOUTH GRID
FIGURE 43	NO. PLATE

KONA PROJECT 272
% FE IN SOILS, ROCKS, SILTS
SOUTH GRID

LEGEND

- < 2.0 % FE IN SOILS
- 2.0 - 3.6 % FE IN SOILS
- 3.6 - 4.6 % FE IN SOILS
- > 4.6 % FE IN SOILS

- < 2.0 % FE IN ROCKS
- 2.0 - 3.6 % FE IN ROCKS
- 3.6 - 4.6 % FE IN ROCKS
- > 4.6 % FE IN ROCKS

- < 2.0 % FE IN SILTS
- 2.0 - 3.6 % FE IN SILTS
- 3.6 - 4.6 % FE IN SILTS
- > 4.6 % FE IN SILTS

L106+00 N
L100+00 N
L94+00 N
L88+00 N
L82+00 N
L60+00 E
L50+00 E
L40+00 E
BL50+00 E

1800m
1700m
1600m
1500m
1400m
1300m
1200m
1100m

CLAIM BOUNDARY
FIRE
LAKE

417,000 417,500 418,000 418,500 419,000 419,500 420,000 420,500 421,000
6,788,500 6,788,000 6,787,500 6,787,000 6,786,500 6,786,000 6,785,500 6,785,000 6,784,500

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

		FIELD	FILE
POINTS:		FE	SOIL.LOCASY
POINTS:		FE	SOIL.LOCASY
POINTS:		FE	ROCK.LOCASY
POINTS:		FE	ROCK.LOCASY
POINTS:		FE	SILT.LOCASY
POINTS:		FE	SILT.LOCASY
	SEG		../TOPO/STREAMS
	SEG		../TOPO/BASELINES

092991

0 200 400 600
METRES

MAP #1059/1,2,7,8 (243)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91/10/16	% FE IN SOILS, ROCKS, SILTS
SCALE 1:5000	SOUTH GRID
FIGURE 44	NO. PLATE

KONA PROJECT 272
% MG IN SOILS, ROCKS, SILTS
SOUTH GRID

LEGEND

- < 0.75 % MG IN SOILS
- 0.75 - 2.00 % MG IN SOILS
- 2.00 - 3.00 % MG IN SOILS
- > 3.00 % MG IN SOILS

- < 0.75 % MG IN ROCKS
- 0.75 - 2.00 % MG IN ROCKS
- 2.00 - 3.00 % MG IN ROCKS
- > 3.00 % MG IN ROCKS

- < 0.75 % MG IN SILTS
- 0.75 - 2.00 % MG IN SILTS
- 2.00 - 3.00 % MG IN SILTS
- > 3.00 % MG IN SILTS

417,000 417,500 418,000 418,500 419,000 419,500 420,000 420,500 421,000

6,788,500 6,788,000 6,787,500 6,787,000 6,786,500 6,786,000 6,785,500 6,785,000 6,784,500

1800m 1700m 1600m 1500m 1400m 1300m 1200m 1100m

L106+00 N

L100+00 N

L82+00 N

L60+00 E

L40+00 E

BL50+00 E

CLAIM BOUNDARY

FIRE

LAKE

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	MG	SOIL.LOCASY
POINTS:	MG	SOIL.LOCASY
POINTS:	MG	ROCK.LOCASY
POINTS:	MG	ROCK.LOCASY
POINTS:	MG	SILT.LOCASY
POINTS:	MG	SILT.LOCASY
	SEG	../TOPO/STREAMS
	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP# 105 9/12,7,8 (254)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91-10-16	% MG IN SOILS, ROCKS, SILTS
SCALE 1:5000	SOUTH GRID
FIGURE 45	NO. PLATE

KONA PROJECT 272
PPM MN IN SOILS, ROCKS, SILTS
SOUTH GRID

LEGEND

- < 200 PPM MN IN SOILS
- 200 - 450 PPM MN IN SOILS
- 450 - 950 PPM MN IN SOILS
- > 950 PPM MN IN SOILS
- < 200 PPM MN IN ROCKS
- 200 - 450 PPM MN IN ROCKS
- 450 - 950 PPM MN IN ROCKS
- > 950 PPM MN IN ROCKS
- < 200 PPM MN IN SILTS
- 200 - 450 PPM MN IN SILTS
- 450 - 950 PPM MN IN SILTS
- > 950 PPM MN IN SILTS

417,000 417,500 418,000 418,500 419,000 419,500 420,000 420,500 421,000

6,789,500 6,789,000 6,788,500 6,788,000 6,787,500 6,787,000 6,786,500 6,786,000 6,785,500 6,785,000 6,784,500

1800m 1700m 1600m 1500m 1400m 1300m 1200m 1100m

L106+00 N L100+00 N L82+00 N

L60+00 E BL50+00 E L40+00 E

CLAIM BOUNDARY

FIRE

LAKE

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	MN	SOIL.LOCASY
POINTS:	MN	SOIL_L.LOCASY
POINTS:	MN	ROCK.LOCASY
POINTS:	MN	ROCK_L.LOCASY
POINTS:	MN	SILT.LOCASY
POINTS:	MN	SILT_L.LOCASY
———	SEG	../TOPO/STREAMS
———	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP# 105 9/12 7 8 (253)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91-10-16	PPM MN IN SOILS, ROCKS, SILTS
SCALE 1:5000	SOUTH GRID
FIGURE 46	NO. PLATE

KONA PROJECT 272
% NA IN SOILS, ROCKS, SILTS
SOUTH GRID

LEGEND

- < 0.01 % NA IN SOILS
- 0.01 - 0.02 % NA IN SOILS
- 0.02 - 0.03 % NA IN SOILS
- > 0.03 % NA IN SOILS

- < 0.01 % NA IN ROCKS
- 0.01 - 0.02 % NA IN ROCKS
- 0.02 - 0.03 % NA IN ROCKS
- > 0.03 % NA IN ROCKS

- < 0.01 % NA IN SILTS
- 0.01 - 0.02 % NA IN SILTS
- 0.02 - 0.03 % NA IN SILTS
- > 0.03 % NA IN SILTS

L100+00 N
L106+00 N
L82+00 N
L60+00 E
L40+00 E
BL-50+00 E
CLAIM BOUNDARY
FIRE
LAKE
1800m
1700m
1600m
1500m
1400m
1300m
1200m
1100m

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	NA	SOIL.LOCASY
POINTS:	NA	SOIL.LOCASY
POINTS:	NA	ROCK.LOCASY
POINTS:	NA	ROCK.LOCASY
POINTS:	NA	SILT.LOCASY
POINTS:	NA	SILT.LOCASY
SEG		../TOPO/STREAMS
SEG		../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP#1659 12,78 (232)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91/10/16	% NA IN SOILS, ROCKS, SILTS
SCALE 1:5000	SOUTH GRID
FIGURE 47	NO. PLATE

KONA PROJECT 272
% P IN SOILS, ROCKS, SILTS
SOUTH GRID

LEGEND

- < 0.03 % P IN SOILS
- 0.03 - 0.06 % P IN SOILS
- 0.06 - 0.11 % P IN SOILS
- > 0.11 % P IN SOILS
- < 0.03 % P IN ROCKS
- 0.03 - 0.06 % P IN ROCKS
- 0.06 - 0.11 % P IN ROCKS
- > 0.11 % P IN ROCKS
- < 0.03 % P IN SILTS
- 0.03 - 0.06 % P IN SILTS
- 0.06 - 0.11 % P IN SILTS
- > 0.11 % P IN SILTS

L106+00 N
L100+00 N
L82+00 N
L60+00 E
L40+00 E
BL50+00 E
CLAIM BOUNDARY
FIRE
LAKE
1800m
1700m
1600m
1500m
1400m
1300m
1200m
1100m

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	P	SOIL.LOCASY
POINTS:	P	SOIL.LOCASY
POINTS:	P	ROCK.LOCASY
POINTS:	P	ROCK.LOCASY
POINTS:	P	SILT.LOCASY
POINTS:	P	SILT.LOCASY
———	SEG	./TOPO/STREAMS
———	SEG	./TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP#10591,2,7,8 (25)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91/10/16	% P IN SOILS, ROCKS, SILTS
SCALE 1:5000	SOUTH GRID
FIGURE 48	NO. PLATE

KONA PROJECT 272
PPM PB IN SOILS, ROCKS, SILTS
SOUTH GRID

LEGEND

- < 20 PPM PB IN SOILS
- 20 - 30 PPM PB IN SOILS
- 30 - 42 PPM PB IN SOILS
- 42 - 70 PPM PB IN SOILS
- > 70 PPM PB IN SOILS

- < 20 PPM PB IN ROCKS
- 20 - 30 PPM PB IN ROCKS
- 30 - 42 PPM PB IN ROCKS
- 42 - 70 PPM PB IN ROCKS
- > 70 PPM PB IN ROCKS

- < 20 PPM PB IN SILTS
- 20 - 30 PPM PB IN SILTS
- 30 - 42 PPM PB IN SILTS
- 42 - 70 PPM PB IN SILTS
- > 70 PPM PB IN SILTS

417,000 417,500 418,000 418,500 419,000 419,500 420,000 420,500 421,000

6,788,500 6,788,000 6,787,500 6,787,000 6,786,500 6,786,000 6,785,500 6,785,000 6,784,500

1800m 1700m 1600m 1500m 1400m 1300m 1200m 1100m

L106+00 N

L100+00 N

L82+00 N

L60+00 E

L40+00 E

BL50+00 E

CLAIM BOUNDARY

FIRE

LAKE

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	PB	SOIL.LOCASY
POINTS:	PB	SOIL.LOCASY
POINTS:	PB	ROCK.LOCASY
POINTS:	PB	ROCK.LOCASY
POINTS:	PB	SILT.LOCASY
POINTS:	PB	SILT.LOCASY
	SEG	../TOPO/STREAMS
	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP#105 91,2,7,8 (250)

PLACER DOME EXPLORATION LIMITED	
DRAWN BJR	KONA PROJECT 272
DATE 91/10/16	PPM PB IN SOILS, ROCKS, SILTS
SCALE 1:5000	SOUTH GRID
FIGURE 49	NO. PLATE

KONA PROJECT 272
PPM ZN IN SOILS, ROCKS, SILTS
SOUTH GRID

LEGEND

- < 70 PPM ZN IN SOILS
- 70 - 140 PPM ZN IN SOILS
- 140 - 280 PPM ZN IN SOILS
- 280 - 400 PPM ZN IN SOILS
- > 400 PPM ZN IN SOILS

- < 70 PPM ZN IN ROCKS
- 70 - 140 PPM ZN IN ROCKS
- 140 - 280 PPM ZN IN ROCKS
- 280 - 400 PPM ZN IN ROCKS
- > 400 PPM ZN IN ROCKS

- < 70 PPM ZN IN SILTS
- 70 - 140 PPM ZN IN SILTS
- 140 - 280 PPM ZN IN SILTS
- 280 - 400 PPM ZN IN SILTS
- > 400 PPM ZN IN SILTS

L106+00 N
L100+00 N
L82+00 N
L60+00 E
L40+00 E
BL 50+00 E
1800m
1700m
1600m
1500m
1400m
1300m
1200m
1100m
CLAIM BOUNDARY
FIRE
LAKE
417,000
417,500
418,000
418,500
419,000
419,500
420,000
420,500
421,000
6,788,500
6,788,000
6,787,500
6,787,000
6,786,500
6,786,000
6,785,500
6,785,000
6,784,500

DATA PLOTTED ON THIS MAP:
DIRECTORY: $EXPL/KONA/GCHM

	FIELD	FILE
POINTS:	ZN	SOIL.LOCASY
POINTS:	ZN	SOIL.LOCASY
POINTS:	ZN	ROCK.LOCASY
POINTS:	ZN	ROCK.LOCASY
POINTS:	ZN	SILT.LOCASY
POINTS:	ZN	SILT.LOCASY
	SEG	../TOPO/STREAMS
	SEG	../TOPO/BASELINES

N

092991

0 200 400 600
METRES

MAP# 105 9/1,2,7,8 (249)

PLACER DOME EXPLORATION LIMITED

DRAWN BJR	KONA PROJECT 272
DATE 91\10\16	PPM ZN IN SOILS, ROCKS, SILTS
SCALE 1:5000	SOUTH GRID
FIGURE 50	NO. PLATE

VOLUME IV OF IV

Geological, Geochemical and Geophysical Report on the KONA PROPERTY

Watson Lake Mining District
Yukon Territory

NTS: 105 G/1,2,7,8
Latitude 61° 14'N Longitude 130° 30'W

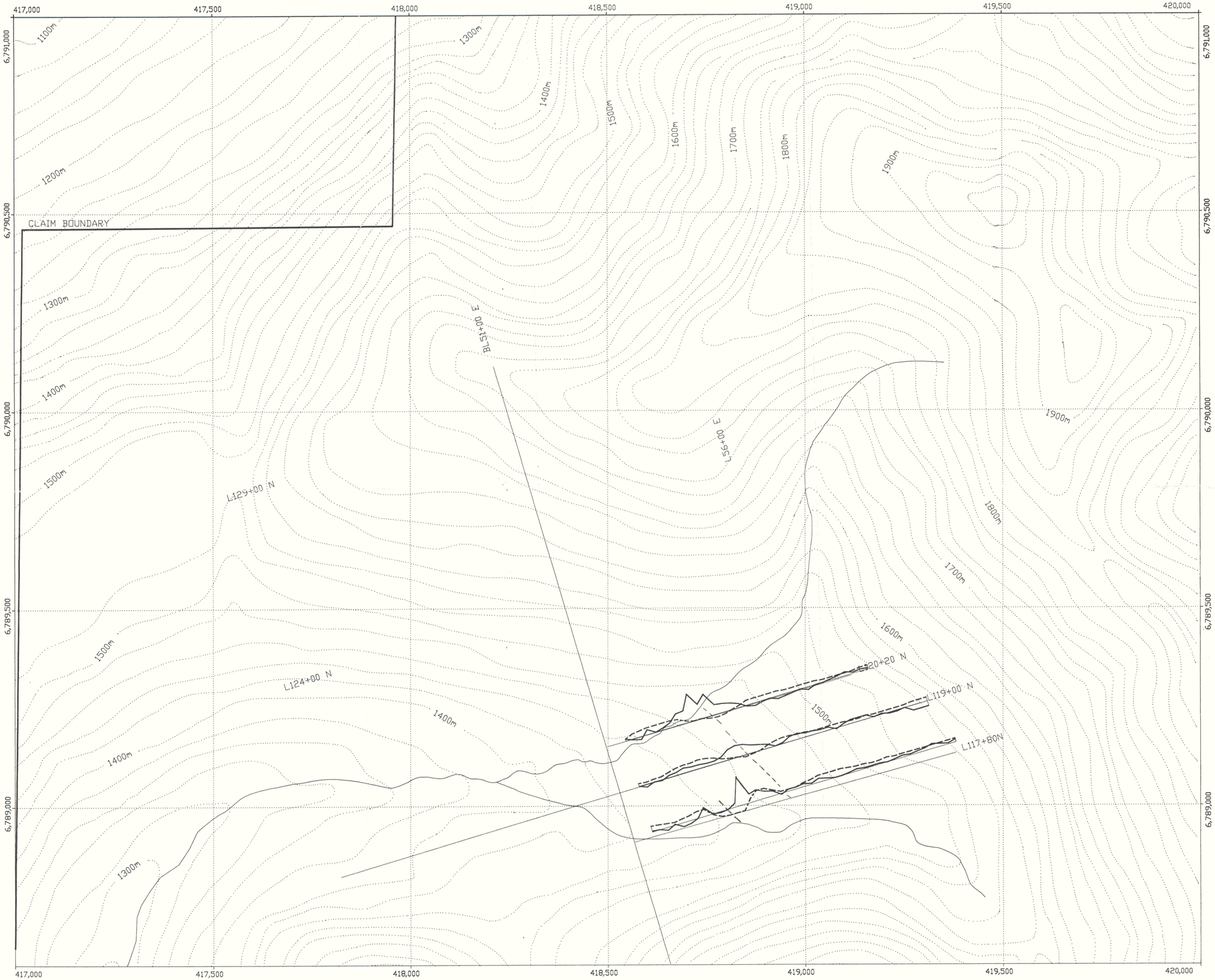
Owner of Claims: Welcome North Mines Limited

OFFICE OF THE REGIONAL MANAGER
MINERAL RIGHTS
JAN 14 1992
WHITEHORSE
YUKON TERRITORY

092901

By: Robert W. Stroshein
Placer Dome Exploration Limited
December 24, 1991

RECEIVED
JAN - 8 1992
MINING RECORDER
WATSON LAKE, Y.T.
L.A. & N.D.



IN-PHASE - SOLID LINE
OUT-OF-PHASE - DASHED LINE

INSTRUMENT : MAXMIN 11 PLUS
COIL SEPARATION - 100 METERS
FREQUENCY - 444 HZ.
PROFILES IN PERCENT - 1 CM = 10 %

DATA PLOTTED ON THIS MAP:

DIRECTORY: $EXPL/KONA/GP
RUN FILE: NRTH.MM444.RUN

	FIELD	FILE
IP1		KONA.MM
	SCALE:	10.0 UNITS / CM
	BASE LEVEL:	0.0
OP1		KONA.MM
	SCALE:	10.0 UNITS / CM
	BASE LEVEL:	0.0

N

0 200 400 600
METRES

MAP#1059(1,2,7,8) (255)

PLACER DOME EXPLORATION LTD.	
DRAWN BJR	KONA PROJECT 272
DATE 91:12:19	ELECTROMAGNETIC SURVEY
SCALE 1:5000	NORTH GRID
FIGURE 51	NO.

IN-PHASE - SOLID LINE
OUT-OF-PHASE - DASHED LINE

INSTRUMENT : MAXMIN 11 PLUS
COIL SEPARATION - 100 METERS
FREQUENCY - 1777 HZ.
PROFILES IN PERCENT - 1 CM = 10 %

DATA PLOTTED ON THIS MAP:

DIRECTORY: $EXPL/KONA/GP
RUN FILE: NRTH.MM1777.RUN (NRTH.MM444.RUN)

	FIELD	FILE
———	IP2	KONA.MM
	SCALE:	10.0 UNITS / CM
	BASE LEVEL:	0.0
———	DP2	KONA.MM
	SCALE:	10.0 UNITS / CM
	BASE LEVEL:	0.0

0 200 400 600
METRES

MAP#105 9/1,2,7,8 (256)

PLACER DOME EXPLORATION LTD.	
DRAWN BJR	KONA PROJECT 272
DATE 91:12:19	ELECTROMAGNETIC SURVEY
SCALE 1:5000	NORTH GRID
FIGURE 52	NO.

CONTOURS OF TOTAL FIELD INTENSITY
IN GAMMAS
20 GAMMA CONTOURS

CLAIM BOUNDARY

DATA PLOTTED ON THIS MAP:

DIRECTORY: $EXPL/KONA/GP
RUN FILE: NRTH.MAG.RUN (STH.MAG.RUN)

	FIELD	FILE
+ CONTOURS:	MAG	KONA_MAGNRTH.GRD

UTM NORTH IS 1 DEG 20.0 MIN WEST OF TRUE NORTH

0 200 400 600
METRES

MAP#1059/12,78

257

PLACER DOME EXPLORATION LTD.	
DRAWN BJR	KONA PROJECT 272
DATE 91/12/20	MAGNETOMETER SURVEY
SCALE 1:5000	NORTH GRID
FIGURE 53	NO.

IN-PHASE - SOLID LINE
OUT-OF-PHASE - DASHED LINE

INSTRUMENT : MAXMIN 11 PLUS
COIL SEPARATION - 100 METERS
FREQUENCY - 444 HZ.
PROFILES IN PERCENT - 1 CM = 20 %

L106+00 N

L100+00 N

L82+00 N

L60+00 E

L50+00 E

L40+00 E

BL50+00 E

1800m

1700m

1600m

1500m

1400m

1300m

1200m

1100m

CLAIM BOUNDARY

FIRE

LAKE

417,000 417,500 418,000 418,500 419,000 419,500 420,000 420,500 421,000

6,788,500 6,788,000 6,787,500 6,787,000 6,786,500 6,786,000 6,785,500 6,785,000 6,784,500

DATA PLOTTED ON THIS MAP:

DIRECTORY: $EXPL/KONA/GP
RUN FILE: STHMM444.RUN (NRTHMM444.RUN)

	FIELD	FILE
IP1	KONA.MM	
	SCALE:	20.0 UNITS / CM
	BASE LEVEL:	0.0
OP1	KONA.MM	
	SCALE:	20.0 UNITS / CM
	BASE LEVEL:	0.0

N

0 200 400 600
METRES

MAP #105 5/1,2,7,8 (258)

PLACER DOME EXPLORATION LTD.	
DRAWN BJR	KONA PROJECT 272
DATE 91/2/19	ELECTROMAGNETIC SURVEY
SCALE 1:5000	SOUTH GRID
FIGURE 54	NO.

IN-PHASE - SOLID LINE
OUT-OF-PHASE - DASHED LINE

INSTRUMENT : MAXMIN 11 PLUS
COIL SEPARATION - 100 METERS
FREQUENCY - 1777 HZ.
PROFILES IN PERCENT - 1 CM = 20 %

L106+00 N
L100+00 N
L82+00 N
L60+00 E
L50+00 E
L40+00 E
1800m
1700m
1600m
1500m
1400m
1300m
1200m
1100m
CLAIM BOUNDARY
FIRE
LAKE

DATA PLOTTED ON THIS MAP:

DIRECTORY: $EXPL/KONA/GP
RUN FILE: STHMM1777.RUN ORTHMM444.RUN

	FIELD	FILE
IP2		KONA.MM
	SCALE:	20.0 UNITS / CM
	BASE LEVEL:	0.0
OP2		KONA.MM
	SCALE:	20.0 UNITS / CM
	BASE LEVEL:	0.0

N

0 200 400 600
METRES

MAP# 10591, 278 (259)

PLACER DOME EXPLORATION LTD.	
DRAWN BJR	KONA PROJECT 272
DATE 91/12/19	ELECTROMAGNETIC SURVEY
SCALE 1:5000	SOUTH GRID
FIGURE 55	NO.

CONTOURS OF TOTAL FIELD INTENSITY
IN GAMMAS
20 GAMMA CONTOURS

CLAIM BOUNDARY

FIRE

LAKE

L100+00 N

L82+00 N

L60+00 E

L50+00 E

L40+00 E

DATA PLOTTED ON THIS MAP:

DIRECTORY: $EXPL/KONA/GP
RUN FILE: STHMAG.RUN

	FIELD	FILE
+ CONTOURS:	MAG	KONA_MAGSTH.GRD

UTM NORTH IS 1 DEG 19' MIN WEST OF TRUE NORTH

0 200 400 600
METRES

MAP #1053/1278 (260)

PLACER DOME EXPLORATION LTD.	
DRAWN BJR	KONA PROJECT 272
DATE 91/12/19	MAGNETOMETER SURVEY
SCALE 1:5000	SOUTH GRID
FIGURE 56	NO.