GEOLOGICAL, GEOCHEMICAL and DIAMOND DRILLING REPORT ON THE HANK PROPERTY BALL CREEK AREA, BRITISH COLUMBIA LIARD MINING DIVISION

NTS : 104 - G / 1 & 2

North Latitude: 57° 15'
West Longitude: 130° 30'

FOR

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BY

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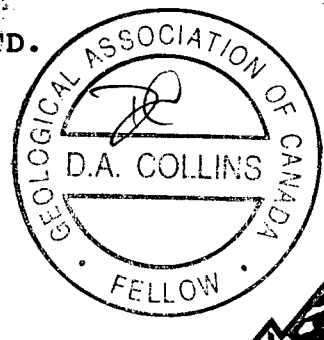


JANUARY 1990

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF APPENDICES

LIST OF TABLES

1.0 SUMMARY

Pursuant to a request by Mr. Robert F. Brown of LAC Minerals Ltd., a two phase exploration program consisting of geological mapping, limited trenching, geochemical sampling and diamond drilling was carried out on the Hank claim group during July to September 1989. The writer supervised the exploration program and researched the literature pertaining to the area.

The property consists of 4 contiguous claims totalling 68 units and is located in the Ball Creek area, Liard Mining Division, British Columbia. The claims are located approximately 16 kilometers west of Highway 37 (the Stewart-Cassiar Highway), 370 kilometers north of Kitwanga, British Columbia. Access is via highway 37 to the Burrage Creek airstrip on the east side of the Iskut River and then by helicopter to the property.

Local topographic relief is moderate to very steep with elevations ranging from approximately 900 meters along Hank Creek to over 1,950 meters in the eastern portion of the property.

The Hank property was previously explored for copper with little attention paid to it's gold potential. Exploration programs have been conducted on the claims since 1983.

The property lies within the westernmost part of the Intermontane Tectonic Belt, close to its boundary with the Coastal Crystalline Tectonic Belt. The Hank claims are situated within the Stikinia accreted terrane of the Canadian Cordillera. The claims are underlain by Upper Triassic, Stuhini Group andesitic to trachytic volcanics, pyroclastics and epiclastics. These ar

partially overlain by a leucocratic sequence of totally altered assemblage. Middle Jurassic, Spatsizi Group, stata are also exposed on the property.

Two main zones of alteration and precious metal mineralization, namely the upper and lower alteration zones, have been outlined on the property.

The eastern boundary of the Hank 2 claim, contiguous with the Hank 4 claim, approximately coincides with a major steeply inclined topographic feature. This feature is now believed to represent a major fault scarp. The overall structure of the district implies that the Hank property is situated within a half graben type structure. The presence of a breccia zone, a leucocratic zone, diorite and a vein stockwork within volcanics suggests that the lower and upper alteration zones have formed because of high fluid pressures associated with a magmatic source at depth. The brittle fractures which controlled the upper alteration zone were produced by and during the emplacement and upwelling of fluids. The orientation of the mineralized structures need not have any relationship to the surrounding stratigraphic dip. Steeper dipping structures may be expected to form at deeper depths in the system.

The lower alteration zone appears to be fault controlled and cross-cuts the stratigraphy in this area. The presence of a steeper dipping stratigraphy, related to the infill from primary extrusion events, may have localized the position of some of the later faults.

The Hank claims mineralization forms part of a large epithermal system which has been obliquely cut by

glacial erosion. Deformation and volcanism must have occurred within narrow time constraints. The main Hank 2 - Hank 4 fault appears to provided structural control for and the physical limits to the mineralizing system to the east.

A total of 1610.6 meters were diamond drilled on the lower alteration zone. A vein stockwork was evident in the core. The best mineralization was associated with gouge zones, sphalerite-galena rich veins, and rhodocrosite stained calcite veins. A number of latterally discontinuous mineralized zones have been identified by the drilling program.

One hundred and sixty-eight rock samples and eight hundred and fifteen core samples were collected and all of the samples were submitted to Bondar-Clegg & Company Ltd., in Vancouver, British Columbia.

The potential of volcanic conduit related mesothermal veins at depth exists and should be drill tested. High level stocks with the potential of associated porphyry mineralization may also have formed at depth in the Hank 2 - Hank 4 fault conduit zone.

Additional drill targets are outlined and additional exploration work is recommended to further define the geometry and grade characteristics of the alteration zones.

2.0 INTRODUCTION

2.1 OBJECTIVES

Pursuant to a request by Mr. Robert F. Brown of LAC Minerals Ltd., a two phase exploration program was carried out on the Hank claim group during the period July to September, 1989, by Hi-Tec Resource Management Ltd. Phase I consisted of geological mapping, limited trenching, and rock geochemical sampling and Phase II was predominantly diamond drilling.

The purpose of the exploration program was to:
a) cut a base-line, reflag the existing grid and establish intermediate lines on the lower portion of the property
b) install wooden pickets with metal tags to delineate the grid on the upper portion of the claims
c) flag and supervise the building of a cat road system and drill pads on the lower alteration zone, the refurbishing of existing cat roads and the construction of additional roads on the upper grid area
d) supervise the surveying of specific points on the property by Marlow Currie of A.A. De Bruyne, Land Surveyors based in Smithers, British Columbia.
d) map and sample the geology of the property in detail
e) examine and interpret the structural geology of the property
f) evaluate the precious metal potential of the Lower Alteration Zone polymetallic vein stockwork by trenching and diamond drilling methods
and g) propose an exploration program designed to further define the mineral inventory and ore reserve potential of the claim group.

This report is based on the results of the exploration work conducted during July and September 1989 and on the available literature pertaining to the area.

Surveying of specific points on the property demonstrated that significant errors were previously incorporated into the LAC base maps. All of the property base maps had to be re plotted and redrafted to account for the relocation of roads and drill holes.

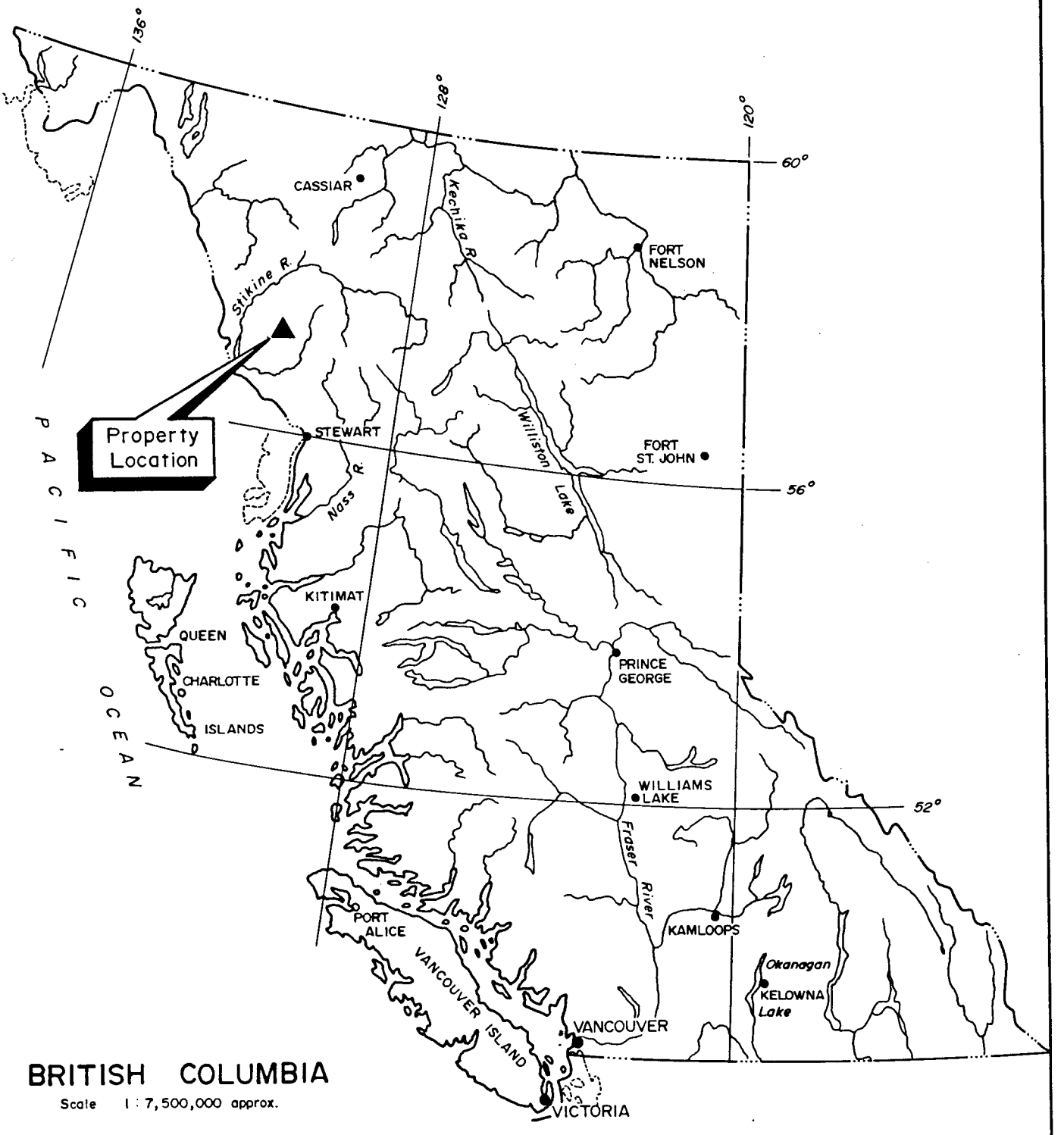
2.2 GENERAL LOCATION AND ACCESS

Access to the region is via Highway 37 (the Stewart-Cassiar Highway), to the Burrage Creek emergency landing strip, on the east side of the Iskut River, approximately 370 kilometers north of Kitwanga, British Columbia (Figure 1). The Hank claims are located approximately 16 air kilometers west of Highway 37 along a tributary of Ball Creek, herein termed Hank Creek, and approximately 20 air kilometers south of the Mount Edziza Provincial Park. Helicopter flying time to the property from the Burrage Creek strip is approximately 15 minutes.

An alternative route is via a schedule flight with Central Mountain air from Smithers to Iskut town or Dease Lake airstrips and then by road and helicopter to the claim group.

2.3 OPERATIONS AND COMMUNICATIONS

Mobilization, demobilization and field work were carried out during the period July 10 and September 13, 1989. The field crew established a base camp on the



BRITISH COLUMBIA

Scale 1 : 7,500,000 approx.

LAC MINERALS LTD.

HANK PROPERTY

GENERAL LOCATION MAP

M-TEC RESOURCE MANAGEMENT LTD.	Scale: as shown	N.T.S.: 104G/1&2	Fig.No.: 1
	Dwn. by:	Date: Dec./1989	
	Chkd. by:	Proj.No.: 898C019	

south side of Hank Creek adjacent to Creek 3 (Line 1200N/00E) at an elevation of 930 meters above sea level. A Canadian 206 helicopter, based at Tatogga Lake Resort, was used to mobilize/demobilize and supply the camp in addition to moving the drill equipment. Regular HF radio contact, using a Spilsbury SBX 11, was maintained, from the base camp, with expeditors Jaycox Industries Ltd. in Smithers. Transmission of radio telephone communications via the Bob Quin operator station were only possible from the "felsite dome" area, at an elevation of 1620 meters, using a mobile telephone equiped with a directional antenna.

A D-6 wide-track CAT, contracted from Pickell Construction of Fort St. John, B.C., was walked from the Burrage Creek - Highway 37 bridge intersection across the Iskut river to the property. Access to the claims could not be gained via Hank Creek because of the presence of steep and narrow gorges. Therefore the CAT was walked along the valley southeast of (behind) the property and then onto the southeast corner of the Hank 2 claim.

The D-6 Cat was used for road refurbishing and construction, drill pad preparation and was also planned to be utilized for drill moves. However, the presence of a thick (1-3m) cohesive, silica-clay type layer over much of the southern portion of the property hampered the progress of the road construction. This clay layer made drill moves by D-6 Cat impractical and therefore the 206 helicopter was used.

Adverse weather conditions (heavy fog and rain) and heavily timbered vegetation at lower elevations placed some limitations on the helicopter use during the field work.

Connor's Drilling Ltd., based in Kamloops, B.C., were the drill contractors. All holes were collared with NQ size core and then the holes were completed in BQ size core. Travel to and from the base camp to the drill sites was by 4-Track Honda all-terrain-vehicles.

A rented truck was stationed at Tatogga Lake Resort and used to ferry samples to Smithers airport. Canadian airways provides a special rate for shipments of rock samples to Vancouver, B.C. The samples were shipped to the Bondar-Clegg laboratory for analysis.

Selected points on the property were surveyed by Mr. Marlow Currie of A.A. deBruyne Surveyor's, based in Smithers, B.C.

The base camp was inspected twice during the field season by members of the Inspector of Mines Engineering and Inspecting Branch of the Ministry of Energy, Mines and Petroleum Resources. Garbage disposal, fire stations and first aid facilities were examined on each occasion and declared efficient. By order of the Inspectors, previously occupied camp facilities had to be cleaned up, oil and diesel drums removed and old camp debris burned. A "Class A Burning Permit" (#A50280) was obtained from the Ministry of Forests in accordance with provincial regulations prior to burning.

2.4 PHYSIOGRAPHY

Local topographic relief is moderate to very steep with elevations ranging from approximately 900 meters along Hank Creek to over 1,950 meters in the eastern portion of the property. The area exhibits the characteristics

of typical glaciated physiography, which include wide U-shaped, drift-filled valleys flanked by steep rugged mountains, cirques and deeply incised V-shaped upland valleys.

Vegetation consists mainly of dense alder, willow, and mature conifers such as spruce, fir, and hemlock along the valley slopes. At higher altitudes above timberline, generally between 1,400 meters and 1,600 meters above sea level, the vegetation changes to subalpine and alpine vegetation. The highest parts of the property support only moss and lichen. Glaciers and snowfields occur frequently throughout the area, usually above 1,600 meters. The period of least snow cover occurs between July and mid-September and summers are relatively cool and wet.

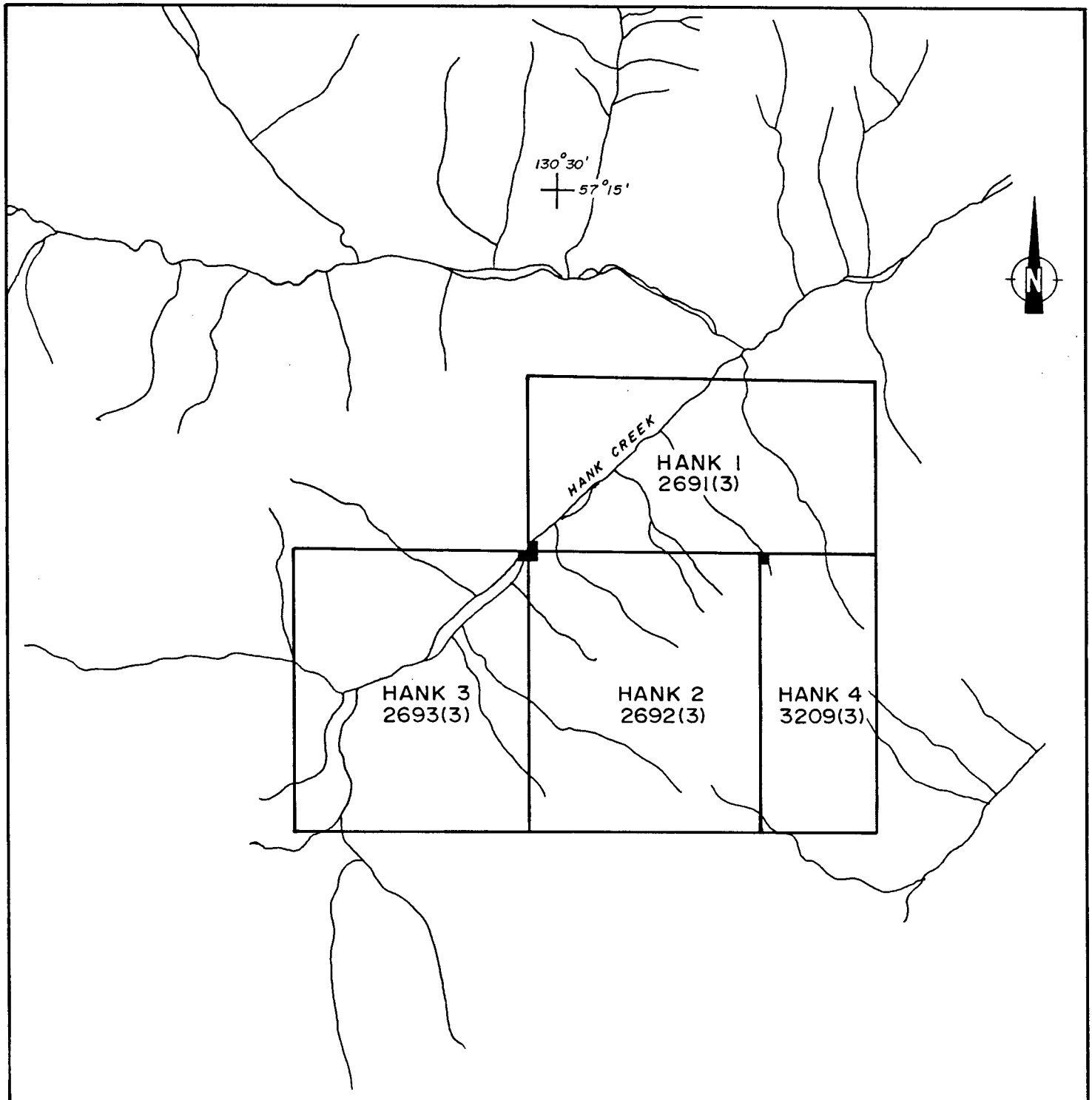
2.5 CLAIM STATUS AND OWNERSHIP

The LAC Minerals Ltd. property consists of 4 contiguous claims totalling 68 units within the Liard Mining Division of British Columbia (Figure 2). Title to the claims is held 100% by LAC Minerals Ltd. The Hank 1, 2 and 3 claims were staked by LAC in March 1983 to cover anomalous gold stream samples collected from gossanous rocks adjacent to Hank Creek. The Hank 4 claim was staked in September 1984 to consolidate the claim group.

Pertinent claim data is summarized below:

Claim Name	No. of Units	Record #	Expiry Date*	N.T.S.
Hank 1	18	2691	March 10,1995	104G/1W,2E
Hank 2	20	2692	March 10,1995	104G/1W,2E
Hank 3	20	2693	March 10,1995	104G/2E
Hank 4	10	3209	Oct. 12,1995	104G/1W

* Prior to filing the 1989 exploration work.



1.0 0 1.0 2.0 km

Scale 1:50,000

LAC MINERALS LTD.

HANK PROPERTY

CLAIM MAP

IN-TEC RESOURCE MANAGEMENT LTD.	SCALE: 1:50,000	N.T.S.: 104G/1 & 2	FIGURE No: 2
	DWN. BY:	DATE: Dec./1989	
	CHKD. BY:	PROJECT No: 89BC019	FILE No:

3.0 REGIONAL HISTORY

Although the Stikine River served as the access route to the placer deposits of the Telegraph Creek-Cassiar area which were discovered in the period 1861 to 1873, there is no record of any prospecting activity in the Iskut River area until 1907. During the 1920's, 1930's and 1940's the exploration for lode deposits was confined to accessible areas along the Stikine River, with a number of small copper occurrences being discovered.

Little work was done in the area until 1954, 1955 when Hudson's Bay Mining and Smelting located the large tonnage copper-gold porphyry deposit at Galore Creek (137 MT grading 1.02% Cu, 0.014 oz/ton Au). In 1957, they also discovered the Copper Canyon copper-gold porphyry deposit (28 MT grading 0.64% Cu, 0.02 oz/ton Au) approximately eight kilometers east of the Galore Creek Central Zone (Grant, 1964).

Hudson's Bay Mining and Smelting also located the Pickaxe showing, and found high grade gold-silver-lead-zinc float on the upper slopes of Johnny Mountain. After performing exploration work on the latter showing in the mid-1950's, Hudson's Bay Mining and Smelting allowed these claims to lapse. These showings are now part of Skyline Exploration's Reg property.

Following the discovery of the Galore Creek Cu-Au deposit, (2 million ounces of contained gold), exploration was increased in the Stikine River area. During the late 1950's and early 1960's, several major mining companies conducted airborne geophysical surveys in the region, on a reconnaissance basis, for potential

porphyry copper-molybdenum deposits. Several new claims were staked in the Stikine River area, on Johnny Mountain and along Sulphurets Creek in that period, while Kennco and Noranda investigated the original showings on Johnny Mountain. The BIK Syndicate (Silver Standard Mines, McIntyre Porcupine and Kerr Addison) also conducted exploration in the region in the late 1950's and early 1960's.

Several of the claims staked by the Syndicate, at that time, covered the Trophy Gold Project property. After performing limited exploration work in the mid-1960's, the lead-zinc rich Ptarmigan showing, with assay values of up to 0.16 oz/t gold and 6.7 oz/t silver, was discovered. Prospectors also located skarn type Cu-Au mineralization at the Hummingbird showing (Forster, 1988). However, the failure to discover another large copper ore body resulted in many of the claims in the area being allowed to lapse.

In 1969, Skyline Explorations Ltd. restaked the Inel property, after having discovered massive sulphide float originating from the head of Bronson Glacier. In 1974, Texas Gulf Inc. investigated the porphyry copper potential of Johnny Mountain.

Teck Corp. conducted a regional reconnaissance stream sediment geochemical survey in the Galore Creek-Stikine River area. They also defined reserves of 185,000 tonnes, grading 4.11 g/t gold, for the Paydirt deposit (Holtby, 1985). Longreach Resources Ltd. commenced underground development and exploration on the Paydirt deposit during 1987.

The discovery of the Snip and Reg deposits in the Iskut River district has provided renewed interest in the

Stikine and Stewart Gold camp areas, due to similarities in their geological setting. Several new mineral showings have been discovered in the area surrounding the Paydirt and Galore Creek deposits during the period 1986 to 1988. According to Awmack (1989), significant precious metals occurrences were discovered on each of the TREK, ICY and JW properties during the 1988 field season. The latter author states that each of these properties had previously been explored for copper during the 1960's with little attention paid to their gold potential.

Exploration for precious metals in the Sulphurets Creek area dates back to the late 1800's when placer gold was discovered in the upper reaches of the Unuk River. Extensive gossans in the upper reaches of Sulphurets Creek attracted Bruce and Jack Johnson to stake claims in this area in 1935. Hence, the name "Brucejack Lake".

The Calpine Resources Inc.-Consolidated Stikine Silver Ltd.'s Eskay Creek property has a long history of exploration by various companies since it's discovery in 1932 by Tom MacKay. In 1985, Kerrisdale Resources Ltd. diamond drilled the #21 and #22 zones, and in 1987 Consolidated Stikine Silver Ltd. conducted a soil sampling and trenching program on the Eskay Creek property. During 1988 and 1989, the Eskay Creek property was extensively drilled by Calpine Resources Inc.-Consolidated Stikine Silver Ltd. and extremely promising results were reported from the #21 zone since hole 88-6 hit 96.5 feet grading 0.73 oz. gold and 1.1 oz. silver (Northern Miner, Nov. 7, 1988).

The Hank property was previously explored for copper with little attention paid to it's gold potential. LAC

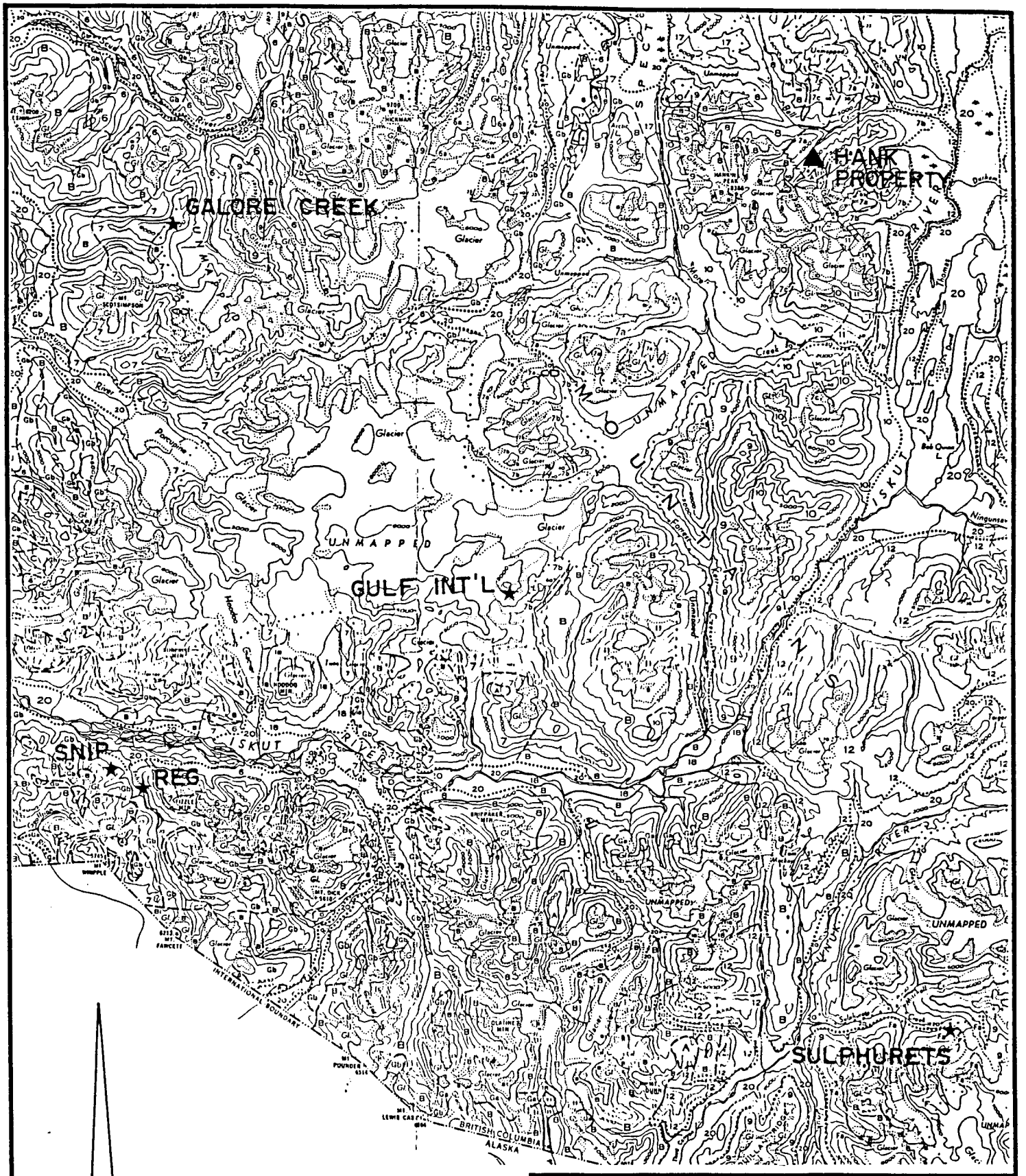
Minerals staked the Hank 1,2 and 3 claims in 1983 and the Hank 4 claim in 1984. Exploration programs have been conducted on the claims since 1983. Details of this work are given in the reports by Turna (1985, 1987, 1988) and Brown (1989).

4.0 REGIONAL GEOLOGY AND MINERALIZATION

The property lies within the westernmost part of the Intermontane Tectonic Belt, close to its boundary with the Coastal Crystalline Tectonic Belt. As a result of the proximity of this area to a regional tectonic boundary, geologic relationships tend to be quite complex. The Hank claims are situated within the Stikinia accreted terrane of the Canadian Cordillera. The geology of this area (Figure 3) has been studied by Kerr (1930, 1948), and by Grove (1986), and is represented in Geological Survey of Canada Maps 9-1957, 1418A and 1505A.

The oldest rocks in the region are complexly folded, metamorphosed schists and gneisses of probable mid-Paleozoic age. The metamorphism occurs within and adjacent to a plutonic system. The metamorphic rock is commonly overlain by a white to grey crystalline limestone which is believed to belong to a Late Paleozoic sedimentary sequence that includes some minor greenstone units. This oceanic assemblage is part of the Stewart Complex, a tectonic unit which has been correlated with the Cache Creek Group.

The principal component of the Intermontane Tectonic Belt in the Iskut River area is a Mesozoic volcanic and sedimentary sequence, relative with the time equivalent Stuhini Volcanics; a theory which is supported by the presence of Monotis fossils on the north slope of



SEE FOLLOWING PAGE FOR LEGEND

0 5 10 20 30 kilometres

LAC MINERALS LTD.

HANK PROPERTY

REGIONAL GEOLOGY MAP

Scale	Date	N.T.S.
1 : 500,000	Dec/1989	104G/1&2
By		Figure 3

LEGEND

SEDIMENTARY AND VOLCANIC ROCKS

CENOZOIC

QUATERNARY
RECENT

20 Unconsolidated glacial and fluvial clay, silt, sand, gravel; till; peat, muskeg

19 Tufa, hot spring deposits

18 Olivine basalt, ash, cinders

TERTIARY
PLEISTOCENE AND (?) EARLIER

17 Basalt, rhyolite, ash, tuff, agglomerate; locally may include 16; 17a, rhyolite, pisolitic siliceous tuff, chalcedonic rhyolite breccia

EOCENE

16 Basalt, rhyolite and associated volcanic rocks; minor conglomerate, sandstone, shale

CRETACEOUS AND TERTIARY
UPPER CRETACEOUS AND PALEOCENE

15 Conglomerate, sandstone, shale, minor coal

MESOZOIC

CRETACEOUS
POST LOWER CRETACEOUS

14 Volcanic rocks, breccia

JURASSIC AND CRETACEOUS
UPPER JURASSIC AND LOWER CRETACEOUS

12 Argillite, greywacke, conglomerate, coal; 12a, andesite, chert, tuff, conglomerate, shale, greywacke

CRETACEOUS AND /OR EARLIER
PRE UPPER CRETACEOUS

13 Mainly volcanic rocks; minor conglomerate, greywacke; chert, argillite

JURASSIC
LOWER AND MIDDLE JURASSIC

11 Conglomerate, greywacke, grit, siltstone, shale; 11a, may include younger rocks

TRIASSIC

8 Tuff, siltstone, limestone, conglomerate, breccia

JURASSIC AND /OR EARLIER
PRE UPPER JURASSIC

9 10 9. Mainly volcanic rocks; minor conglomerate; greywacke, argillite
10. Mainly sedimentary rocks

PERMIAN AND/OR TRIASSIC

J Gneiss, schist, crystalline limestone, crystalline dolomite, quartzite

Geological boundary (defined, approximate, assumed)

Limit of geological mapping

Bedding (horizontal, inclined, vertical, overturned) (dip, g, gentle; m, medium; s, steep)

Bedding, inclined (direction of tops unknown, overturning suspected)

Schistosity, gneissosity (inclined, vertical, dip unknown)

Fault (defined, approximate, assumed)

Anticline (defined, approximate)

Syncline (defined, approximate)

Anticline, syncline (overturned)

Trend of complexly folded beds (direction of plunge known, unknown)

Belt of quartz diorite and quartz porphyry dykes

Glacial striae (direction of movement known, unknown)

Placer mine

Mine or prospect

Cinder cone or recent volcanic crater

Snippaker Peak and to the west of Newmount Lake. Grove (1986), however, correlates this unit with the Middle Jurassic Unuk River Formation of the Stewart Complex. In the Galore Creek area, Souther (1971) mapped the Upper Triassic Hazelton Group as an undifferentiated sequence of island arc volcanics and sediments. The Paydirt gold deposit in the Galore Creek district is hosted within silicified, sericitized and pyritized Upper Triassic volcanics (Holtby, 1985) and is correlated with the sequence which hosts the Snip and Stonehouse gold deposits at Bronson Creek.

On the north slopes of Johnny Mountain and Snippaker Peak, Paleozoic metasedimentary rocks are found to overlie the Mesozoic sequence. These apparently represent the upper plate of a regional, east-west trending thrust fault, which pushed up and over to the south in a manner similar to that of the King Salmon Thrust Fault.

In the Coast Crystalline Tectonic Belt, Paleozoic and Mesozoic sequences are commonly intruded by plutonic rocks of quartz monzonite to quartz diorite composition. These intrusions are Late Cretaceous to Early Tertiary in age. To the east of the main intrusive complex, smaller granitic plugs and stocks are prevalent.

Quaternary flows and ash deposits of olivine basalt are the youngest rocks in the area. Hoodoo Mountain, to the south of the subject property, is underlain by these units, which also occur in parts of the valleys of the Iskut River and Snippaker Creek.

The two most significant mineral deposits subject to current investigation in the Iskut River area are the

Skyline Explorations Ltd. Reg property on the north slope of Johnny Mountain and the Delaware Resources-Cominco Ltd. joint venture Snip property near Bronson Creek. These properties are only five kilometers apart and appear to be similar in nature.

At least seven auriferous, mineral rich quartz veins are known to occur on Skyline's Reg property (Grove, 1986). These are collectively known as the Stonehouse Gold Zone. This zone is hosted in an east-west striking, northerly dipping sequence of Jurassic volcaniclastics and porphyritic flows. A sequence of Middle Jurassic volcanic breccias and well stratified volcanic tuffs and sediments unconformably overlie the mineralized unit. Steeply dipping veins trending 050^0-060^0 and dipping 70^0 NE along major fractures are the only known mineralization environment in the Stonehouse Gold Zone. The mineralized zones consist of pods, lenses and quartz veins which contain 20% to 80% sulphides plus K-feldspar, besides native gold and electrum. Adjacent to the zones, extensive wallrock alteration includes very fine biotite and sericite, and extensive massive orthoclase with minor carbonates (Grove, 1986).

On the Delaware-Cominco joint venture Snip property, native gold occurs in a 1-10 meters thick discordant banded shear zone cutting a massively bedded feldspathic greywacke-siltstone sequence. It consists of alternating bands of massive streaky calcite with abundant disseminated to massive pyrite mineralization. Biotite-chlorite, quartz, pyritic to non-pyritic, fault gouge related, alteration is associated with this zone. (Northern Miner, June 13, 1988).

In the Sulphurets area, Shroeter (1983) examined the geology and mineralization in the Brucejack Lake area where hornblende syenites, alkali feldspar syenites and country rocks are cut by many north to northwesterly faults and are intensely altered with sericite, K-feldspar, silica, carbonate and chlorite. Five separate sulphide zones occur along a 7 kilometer belt with mineralization occurring in several styles, including low grade disseminations, epithermal stockworks and veins. Found within these zones are pyrite, chalcopyrite, molybdenite, ruby silver, stephanite, ceragyrite, electrum, native gold, tetrahedrite, freibergite, argentite, galena, sphalerite and bornite.

Within this area, two principal zones were identified. The Peninsula Zone (or Shore Zone) and the West Zone, located about 700 meters southwest of the Peninsula Zone. Shroeter reported ruby silver, freibergite, electrum, native gold, stephanite, galena, pyrite and sphalerite occurring in a stockwork of quartz veinlets in sericitic andesitic tuff.

In the Unuk River Area, the geological cross section of the Calpine/Consolidated Stikine's Eskay Creek property is as follows: the hanging wall consists of interbedded breccias, pillow lavas and andesites up to 100 meters thick. The contact zone, a black argillite containing felsic fragments up to 2 inches across, is 10 to 15 meters thick with mineralization occurring at the base of the unit. It is unclear from published data on the property whether the mineralization in the contact zone is syngenetic or epigenetic. In the north section of the contact #21 Zone, mineralization consists of electrum, aktashite (Cu-Pb-Zn-Ag-Hg sulphosalt) and honey coloured blebs of sphalerite

rimmed with chlorite alteration. Free gold was observed in the core. Disseminations and needles of arsenopyrite predominate in the south section of the #21 contact zone with sections of massive stibnite, veinlets of stibnite and blebby realgar. Gold assays from this contact zone vary from 0.25 oz. Au/t to several oz. Au/t.

The footwall belongs to the Dillworth Formation and consists of a 100 to 150 meters thick rhyolite breccia and lapilli tuff. Along strike to the north the lapilli fragments are finer. Alteration observed is silicification, strong K-spar and white mica. Gold assays from this section vary up to 0.25 oz. Au/t. A 10 to 20 meters thick argillite layer separates the lapilli tuffs from a felsic lithic tuff which varies from 60 to 100 meters thick. This latter unit, which may be the equivalent of the Betty Creek Formation, forms large gossans of pyritic material assaying from 0.15 to 0.25 oz. Au/t. The bottom of the footwall is formed by thickly bedded siltstone containing pelecypods (dating in progress) and locally developed conglomerates. Drill intersections of the north part of the #21 Zone (hole 89-109) were recently reported in the Northern Miner as follows: "682 foot interval grading an average of 0.875 oz. gold, 0.97 oz. silver, 1.12% lead and 2.26% zinc. Within this interval is a 200.1 foot section averaging 2.877 oz. gold, 0.85 oz. silver, 1.86% lead and 3.44% zinc" (Northern Miner, Aug. 28/1989). The Northern Miner reports (Sept. 4, 1989) that drill hole 89-126 intersected at the north end of the #21 Zone a disseminated to massive sulphide mineralized section of 445 feet in width, of which a 30-ft and a 26-ft section consisted of pyrite - galena - sphalerite - chalcopyrite massive sulphide mineralization. No assays are available to date on

this hole. This may indicate a volcanogenic massive sulphide lense off the #21 Zone.

Souther (1971) recognized numerous phases of faulting and shearing in the Stikine River area. Major northerly trending faults and associated subsidiary minor faults occur throughout the area. Normal faulting, initiated during the early Jurassic, is most commonly developed with only minor reverse faulting having been identified (Souther, 1971).

The Hank property region is underlain by a thick succession of Upper Triassic To Middle Jurassic volcano-sedimentary lithologies. The strata have been intruded by a series of plutons which represent different intrusive episodes. These intrusions consist of synvolcanic plugs, dykes and stocks. The Upper Triassic sequence consists of Stuhini Group andesitic tuffs, flows and trachytic volcanics. Middle Jurassic sediments of the Spatsizi Group unconformably overly the Stuhini Group (Figure 3).

5.0 PROPERTY GEOLOGY

5.1 Stratigraphy

The Hank property lithological assemblage as described by Turna (1988) is largely agreed with by the current writer. Some outcrops mapped by Turna as agglomerate underlying the lower alteration zone were classified as volcaniclastic during the 1989 mapping. Much of the property is underlain by thick alternating monotonous sequences of alternating fine to coarse grained andesitic tuffaceous units. These form massive, crudely layered, compositionally similar exposures.

Because of this, bedding is rarely identifiable in outcrop. Lapilli tuffs are evident in places.

Colour variations are found throughout the sequence. The volcanics underlying the lower alteration zone are predominantly pyritic dark green-grey (chloritic) andesitic tuffaceous and volcaniclastic units. There are interbeds of agglomerate evident in some stream sections below this alteration zone. The basal contact of the lower alteration zone appears to be marked by a transition sequence from the above rocks into a highly altered, deeply weathered orange-yellow coloured "melange" when viewed in the deeply incised creek gullies on the property. Occasional pods of maroon coloured, weakly altered volcanics were noted within the lower alteration zone during the 1989 mapping.

The upper contact of the lower alteration zone is not marked by a distinct break or gouge zone in the area to the southwest of creek 7. A transition zone similar to that at the base is exposed in the creek sections along the upper contact. Overlying the transition zone is a sequence of purple-maroon (hematitic) amygdaloidal lavas and epiclastics. Turna recognized pipe amygdules within this sequence which provided right-way-up criteria. However during the 1989 mapping only flat lying "pipe amygdules" were noted in outcrop. The outcrops also appeared to have undergone a period of pressure solution cleavage formation which has imposed a NE-SW fabric and preferred orientation on the incorporated structures. The distinct maroon colour of the rocks in this area suggests that they may be a separate suite of volcanics. Many of the rocks contain hematite concentrated along fractures. Lateral facies changes and interfingering make tracing the stratigraphy more complex.

The interbedded massive fine and coarse andesitic and agglomeratic units within the stratigraphic succession may imply repeated periods of tectonic activity followed by periods of erosion.

In the area to the northeast of creek 7, there is a distinct linear topographic high which coincides with the incoming of unaltered light green and maroon volcanics into the sequence. This is interpreted as a fault contact and is described in Section 5.4.

The succession between the lower and upper alteration zones is similar to that described above. However, on the well exposed, north facing, steep slope of Camp 3 Peak spheroidal weathering is evident within the dark green volcanics.

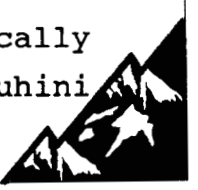
The upper alteration zone is capped by a bleached, grey cohesive silica-clay type horizon. This has resulted in very swampy ground conditions in upper parts of creeks 3 and 4.

A breccia zone, in the upper grid area, has been mapped by Turna as a diatreme and is detailed in previous reports. This zone consists of large, coarse, cobble sized breccia clasts many of which are rounded to sub-angular. There is a lateral, tectonic grading of clast size evident in outcrops of this breccia zone. Portions of this zone appear to have a pipe like geometry however, there is a more planar sheet-like geometry also present. This zone is described in Section 5.4. Whether the clay horizon flanks the breccia zone, unconformably overlies it or is intruded by the breccia zone is unclear.

Within the silica-clay horizon there are a series of highly siliceous "cherty" outcrops. Turna (1988) mapped these as his "line of cherts" and a number of diamond drill holes were drilled through the horizon. In core, no chert horizon was intersected and the zone was found to consist of a large "gouge" type layer. During a site visit and discussion with C. Nelsen of LAC Minerals (USA) Inc., during the 1989 field season, the outcrops of chert were examined and recognized as being highly altered andesites. Similar types of alteration may be caused by sulphuric acid fumes that emanate from modern siliceous geothermal springs near Reno, Nevada (Panteleyev, 1986). Minor siliceous zones are evident in a road cut of the clay layer in the upper grid area. This unit may represent an alunite layer unconformably overlying the Stuhini Group volcanics.

A similar type clay, possibly derived from this part of the sequence, covers the lower portions of creeks 6 and 5, within the lower alteration zone. This clay forms an impervious layer and has resulted in an area which, as may now be expected, appeared to host only low gold soil geochemical values. It also made CAT work difficult during heavy rain fall periods.

Overlying the clay layer, in the upper grid portion of the property, is an extrusive, siliceous grey, leucocratic, highly siliceous dacitic? unit. This may be an altered, welded, lapilli tuff unit. It consists of a fine-grained grey matrix, which weathers a brown-yellow colour, with abundant altered feldspar? crystals. In thin section these are seen as crystal pseudomorphs which have been completely altered (Appendix IIId). This dacitic unit may be locally unconformable on the green and maroon coloured Stuhini



Group volcanics. Turna (1988) noted the presence of chalcedony boulders in the upper grid area. This suggests that quartz may have become finer grained upwards in the system.

Intruding the Stuhini Group volcanics are stocks of dioritic to granodioritic composition. These are exposed in the southwest portion of the property. Anderson (1984) mapped the Stikine composite batholiths of the Stikine Arch and dated them as Late Triassic to Middle Jurassic age.

5.2 Alteration

Iron hydroxides are evident on all surface exposures of the lower alteration zone. They impart a yellow - brown colour with earthy material infills in places within the zone. This feature is probably due to oxidation of pre-existing sulphides in the alteration zone. Clusters of euhedral pyrite crystals were noted in places. These were associated with zones where the original lapilli textures of the host rocks could be detected occasionally.

In "fresh" outcrops and in core, the lower alteration zone is a white-grey bleached unit with abundant veinlets and gouge zones. The veinlets appear to form a 30-40 meter wide stockwork which is oriented oblique to the alteration zone contacts. In thin section the lower alteration zone consists of a carbonate-sericite-pyrite assemblage.

The pervasive nature of the alteration within the lower alteration zone makes recognition of discrete alteration stages very difficult in outcrop.

5.3 Mineralization and Veining

Sericitic alteration with pyritization and bleaching have produced an extensive gossan, which is exposed in the creeks, and forms the lower alteration zone. Within the alteration zones disseminated pyrite is the most abundant sulphide. However, fine disseminated pyrite is also ubiquitous within all lithologies on the property. Galena and sphalerite are commonly developed in the veinlets of the lower alteration zone. Precious metal mineralization is confined to the zones of alteration on the property. The green and maroon coloured, competent, epiclastics and volcanics surrounding the alteration zones do not appear to have been affected by the carbonate-sericite-pyrite alteration. However, these lithologies are involved in and affected by the faulting on the property and must have been present during mineralization. This suggests that mineral deposition was concentrated in preferentially suitable lithologies, possibly tuffaceous horizons, around structurally produced conduits.

The vein characteristics of the upper alteration zone and the lower alteration zone are distinctly different. The geochemistry of both zones is also different in that base metal sulphides are more evident in the lower alteration zone. The veins in the upper zone are typically banded quartz-carbonate-siderite-barite veins which can be quite thick in places. Metal deposition was predominantly along the contact of the host rock with the vein margins (see Turna, 1988).

The veins of the upper alteration zone commonly show a banded or "varved" type texture in outcrop. The composition of these veins is predominantly different

from that of the host rock. However, there are lines of wall rock fragments commonly evident along and subparallel to the margins of the veins. The material in these "bands" appears to be derived from the walls of the fissure during fracture initiation. These show the evolution of the veins and mark successive openings along the vein-wall contacts with the "rip-off" of host rock during fluid injection. This process of vein formation is consistent with the description by Ramsay (1980) of veins formed by a crack-seal mechanism. The centers of the veins also have wall rock incorporated within bands but there also appears to be a distinct crustiform texture as a last stage infill. The earlier formed bands display a crinkly or stylolitic type geometry probably induced by pressure solution effects after vein formation.

The accretionary type vein geometry of the upper alteration zone is indicative of formation within a brittle tectonic environment where mineralization tends to border the shear/fault zone rather than being hosted in the zone.

Veins in the lower alteration zone typically form a network of thin, small-scale, anastomosing, discontinuous, cross-cutting carbonate-barite veinlets when viewed in the core. Occasional "pinking" of the veins, due to the presence of rhodochrosite, is evident. Much of this pinking is evident towards the basal contact of the lower alteration zone when seen in the core. The most significant precious metal grades appear to be related to the presence of galena and sphalerite in the veinlets. Sulphides do not appear to be deposited systematically within any particular portion of the veins. One galena-sphalerite rich barite vein, up to 0.5 meters thick, was exposed in a

trench in creek 5 and creek 7. This vein is the most laterally continuous (orientation 048^0) and well mineralized discrete vein uncovered to date. This may mark the site of a subsidiary fracture within the lower alteration zone.

The "varved" textures of the upper alteration zone veins are not evident in the lower zone. Mineralization is often in veined pods of more competent material separated by unmineralized intensely deformed material within veins of the lower alteration zone. Repeated cycles of mineral deposition are evident by the unsystematic distribution of the sulphides within the veins. This type of vein geometry and mineralization is often produced within brittle-ductile shear/fault zones.

The variation in the mechanism of deformation from the lower to the upper zone of alteration is reflected in the vein widths in the two zones. The brittle deformation of the upper zone provided large zones of dilation for metal deposition. The narrower vein widths within a stockwork of thin, small-scale, anastomosing, discontinuous carbonate-barite veinlets in the lower alteration zone were produced in a tectonic regime where there was a component of strike-slip shearing movement associated with normal fault development.

The sigmoidal en-echelon extensional gash veins linked and crosscut by oblique shear veins exposed in creek 8 and detailed in Section 5.4 may represent the type of vein network which exists within but which is not exposed in outcrops of the lower alteration zone. The vein arrays occur as narrow, subparallel-walled sets within the unaltered volcanics. The zones may be

classified as brittle-ductile shear zones (Ramsay, 1980).

5.4 Structure

The eastern boundary of the Hank 2 claim, contiguous with the Hank 4 claim, approximately coincides with a major steeply inclined topographic feature. The land surface morphology of this portion of the property reflects a relatively flat-topped ridge dipping to the east on the Hank 4 claim which is separated from the topographically lower Hank 2 claim by the steeply inclined, north-easterly oriented feature. This feature is now believed to represent a major fault scarp (Figures 4 and 5). The exposed portion of the relatively upthrown Hank 4 claim foot wall block has undergone extensive local erosion of the fault surface. This has resulted in formation of a large scree slope with no outcrop exposure at the base of the scarp. This precludes a definitive interpretation and examination of the fault plane. For mapping and interpretation purposes it is assumed that orientation of the eroded fault scarp coincides closely with the trace of the fault surface.

Additional evidence to support the normal-fault scarp interpretation is that there is a significant lithological change from the "felsite (leucocratic) event" (see Appendix IIId) zone of the Hank 2 claim hanging wall block to the agglomerates of the Hank 4 upthrown, foot wall block area. The absence of leucocratic lithologies within the footwall block implies that faulting occurred prior to deposition of the leucocratic lithologies. The abrupt nature of the dip change at the Hank 4-Hank 2 fault scarp and the absence of hanging wall synform or antiform fold

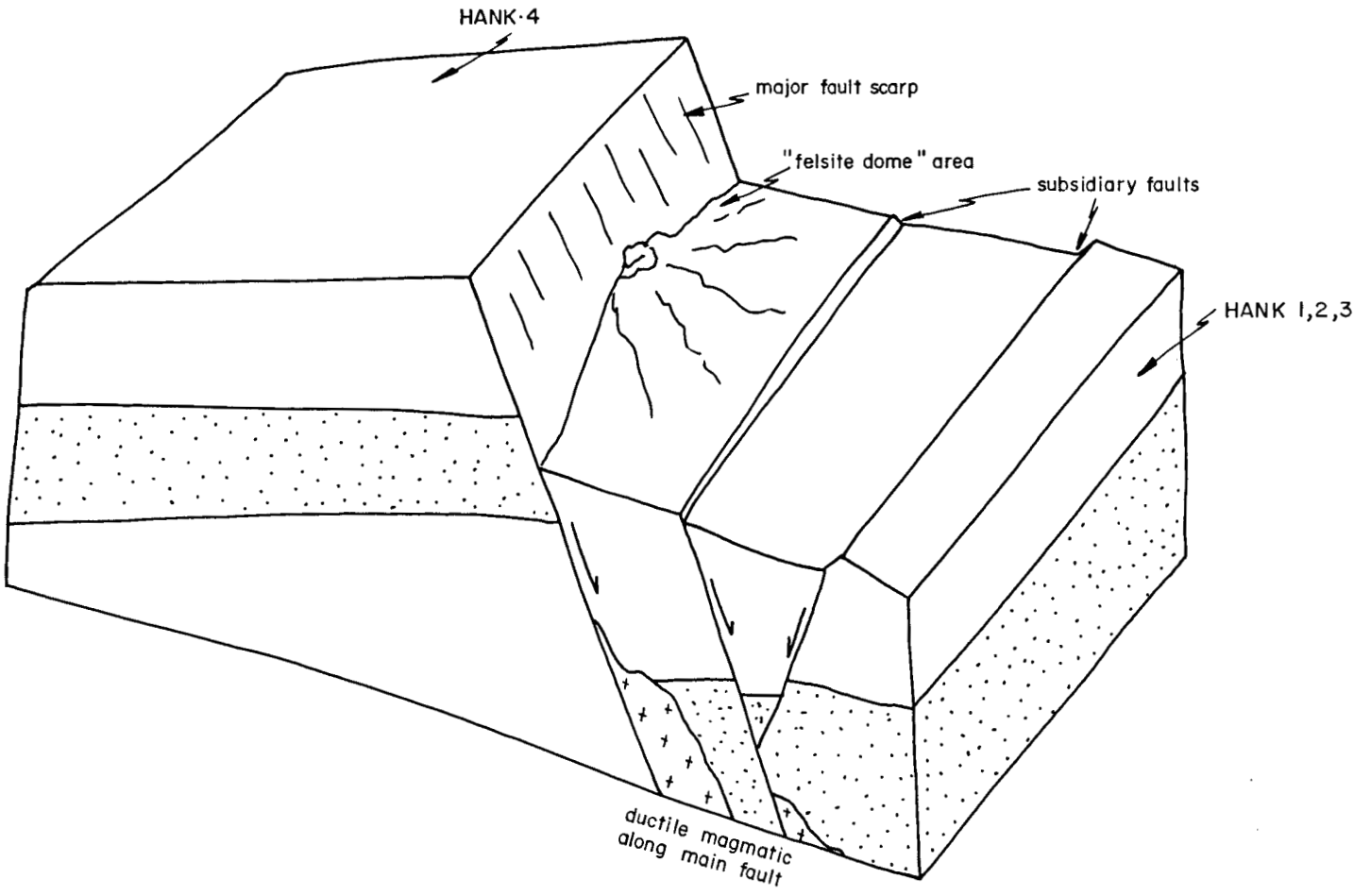


FIGURE 5: Schematic Block Diagram of the Hank 2-Hank 4 Fault Scarp

structures within the Hank 2 claim suggest that the major fault is not listric at depth.

R. Brown, P. Eng., of LAC and the writer briefly inspected the area immediately opposite and to the north of the Hank property. The regional dip of bedding in this area is to the southeast and the surface morphology is also similar to that on Hank 4 and Hank 2 claim boundary. It is believed that a major fault scarp is also present in this area which was formed coeval with and sub-parallel to the scarp on the Hank property. This implies that the Hank property is situated within a half graben type feature (Figure 6).

The extensional type tectonic environment which gave rise to the formation of the major Hank 2-Hank 4 normal fault and the sub-parallel fault to the north of the property with the resultant production of a half graben is well documented in structural geology literature (eg. Ramsay, 1967). Extensional regimes of this type have been termed the "domino" or "bookshelf" model. This model demonstrates the sideways collapse of a sequence of fault bounded blocks within an extensional tectonic environment (Figure 6a). In a simplistic model no slip or deformation takes place within each block, each block undergoes a rigid body rotation and the faults remain planar and not listric at depth. However, large openings are produced during rigid rotation of a block and fault geometry constraints imply that such space compatibility problems are not allowable.

Full and half graben structures are commonly associated with regional extension regimes. This phenomenon may lead to the upward migration of fluids. Therefore, the space problem at depth within the bookshelf model may

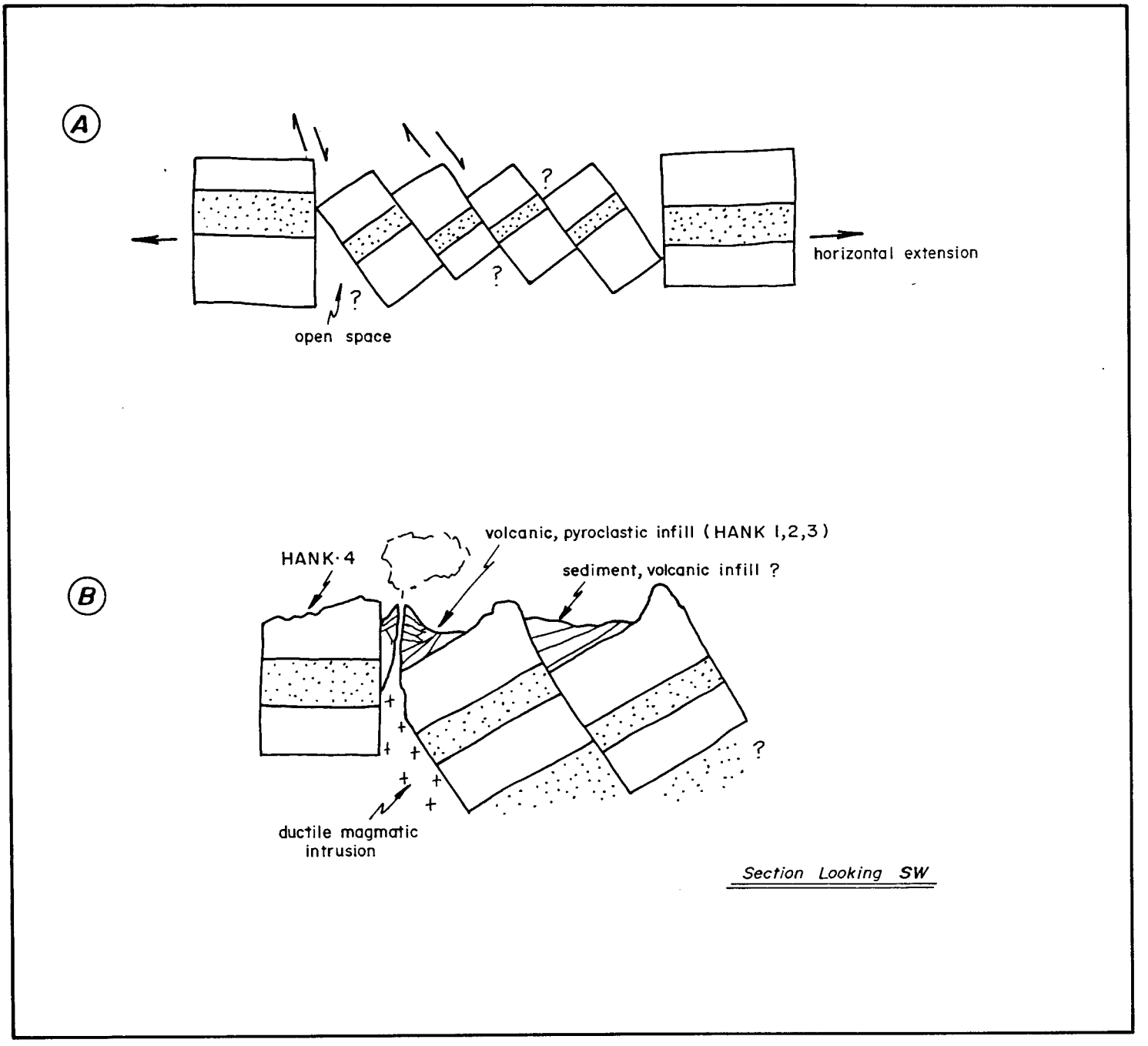


FIGURE 6:

Schematic Bookshelf Model to show the Development of a Half-Graben Structure. The relative positions of the Hank 1,2.3 claims with the Hank 4 claim are indicated.

A: Extension with resultant space problems.

B: Infilling of Upper Triangular Basins by Volcanic Strata & possible Magmatic Intrusion into the Lower Block Spaces

be accommodated by the ductile flow of underlying magmatic material into the open spaces produced during extension and the subsequent venting of pyroclastic and volcanic material at surface (Figure 6b).

On the southwest portion of the Hank 3 claim Turna (1988, 1989) has mapped outcrops and talus of dioritic material. Numerous granodioritic float boulders and rare altered dioritic or granodioritic clasts were mapped in the breccia zone outcrops of the "leucocratic" event area of the upper grid portion of the property during the 1989 mapping by HI-TEC. Dioritic banding and brecciation is also reported in the log of diamond drill hole 88-14. The presence of these breccia clasts and the outcrops of diorite? suggests the existence of a magmatic source in the region. The granodiorite and leucocratic volcanic rocks may also have had this common magmatic source. The development of extensional fractures would not be inhibited in such a regime because high fluid pressures associated with such a magmatic source would permit hydrofracturing to occur in the overlying strata.

Many of the breccia clasts in the upper "pipe/sheet" zone are of cobble size and are rounded to sub angular. The exsolution of a fluid phase from a crystallizing magmatic source may rupture the enclosing strata and may vent explosively to the surface at shallow depths (Burnham, 1985). This process frequently causes the formation of breccia pipes and sheet zones which can host rounded intrusive fragments (Allman-Ward et al., 1982). The rounding and brecciation and alteration of the clasts is thought to have occurred during their propagation to the surface by a fluid phase within a breccia pipe or fluid-phase breccia sheet zone which acts as a conduit. This is not termed a diatreme,

sensu stricto, but is a zone of extension and weakness within a volcanic assemblage which forms a channel for the upwelling of underlying material.

There appears to be a correlation between distance from the breccia sheet zone and the intensity of alteration and deformation. The presence of interbedded altered tuffaceous units, some of which appear "aplitic" in outcrop, with progressively decreasing intensity of deformation and alteration away from the breccia zone is indicative of a periodic venting/exhalative environment at the time of deposition.

The final stages of deformation and the initiation of the "leucocratic event" may have occurred once the breccia sheet breached the upper-most strata of the sequence producing a decrease in explosive energy due to a release of confining pressure. This pressure release may correlate with the termination of auriferous mineralization.

From the 1989 mapping, debris flow type units are interpreted to unconformably overlie the leucocratic sequence lithologies. Debris flow movement was presumably initiated by some high energy event or volcanic activity at the last stages of deformation. Late stage reactivation of the fault plane may also be responsible for this unconformable covering.

The exhalative material which infills the uppermost triangular "basins" in the domino model frequently display intraformational unconformities as a result of uneven block rotation rates. Individual strata from the primary extrusion events may also show thickness increases and wedge shapes down dip into the basinal structure. The lower alteration zone of the Hank

property may be analogous to this feature. Later, stratigraphically and structurally higher, infill strata may display a reduction in dip angles. The upper alteration zone may occur within this latter position of the basin infill.

Evidence of intraformational unconformities is found in the creek 3 area, approximately Line 1009N/460E. Here an unconformable contact between unaltered tuff and coarse conglomeratic, possibly agglomeratic material, is exposed in a gully. Altered tuffaceous units above this unconformity are classified as occurring within the lower alteration zone. Other possible unconformable low angle contacts were noted in the creek 6 area near the upper contact of the lower alteration zone.

The creek 3 area appears to have undergone repeated stages of faulting. Poor amounts of exposure and numerous faults in this area of limited outcrop make interpretation of the geology difficult. This zone is in close proximity to the dioritic intrusions mapped by Turna (1989) and has likely undergone additional episodes of faulting related to emplacement of the stocks. Fault orientation and any associated mineralization is likely discontinuous and difficult to define. However, there appears to be a general southward offset associated with the lower alteration zone bottom contact (Figure 4). The faults bounding the intrusion are likely to be steeply dipping.

The formation of half graben structures with steep planar major normal faults, frequently initiate the production of subsidiary faults and structures within the hanging wall basinal-infill strata during later reactivation. Bedding surfaces between different

lithologies may preferentially be the sites of local shearing within the infill units. Evidence for the existence of such structures on the Hank claims has been mapped during the 1989 field season.

At the junction of creek 10 and Hank Creek, an airphoto lineament and topographic linear are interpreted as a fault structure on Figure 4. This lineament may be traced to a 25 cm gouge zone, oriented $014^0/84^0$ east, within green volcanics and maroon lava which is exposed at the intersection of creek 8 with the CAT road of the lower alteration zone (approximately Line 2500N/750E). Confirmation of this fault was also made in diamond drill hole 88-21. Turna (1989) reports that this hole intersected the fault at a depth of 227 meters. A fault of similar strike also outcrops near the "chert knoll" at Line 1200N/1850E. The trace of the creek 10 - creek 8 fault may be associated with the latter fault. These structures are interpreted as forming subsidiary faults to the major Hank 4 - Hank 2 fault.

The upper contact of the lower alteration zone in the creek 7 to creek 9 area is marked by another topographic lineament. No exposure exits across the trace of this lineament. Diamond drill hole 88-14 was collared in unaltered andesitic agglomerates on the foot wall side of this subsidiary fault. Dioritic banding and brecciation were noted at a depth of 36 meters in the hole. This provides additional support for the upwelling of magmatic intrusions along fault conduits at depth. The contact of the lower alteration zone in hole 88-14 was at a depth of 71 meters. The upper contact is marked by a gouge zone and core recovery was poor.

On creek 8, an outcrop of green massive unaltered volcanics is exposed in the stream bed at approximately Line 2500N/650E. This hosts a quartz-calcite vein array comprising sigmoidal en-echelon extensional gash veins, with a dextral shear sense, linked and crosscut by oblique shear veins. The vein arrays occur as narrow, subparallel-walled sets within the volcanics. The zones may be classified as brittle-ductile shear zones (Ramsay, 1980). The veins are predominantly infilled with a white calcite/quartz assemblage but pink rhodochrosite staining is evident in places.

Although veins of this type were only exposed in this one locality, the strike orientation of 048^0 of the array was noted in various other outcrops within the lower alteration zone. It is considered valid to infer an overall sense of movement on a locally larger scale (but not regionally) from an interpretation of the geometry and evolution of these vein arrays on outcrop scale.

During the initial shear displacement which produces a system of tension gash arrays, the fissures are oriented perpendicular to the first maximum incremental extension i.e. at an obtuse angle of 135^0 to the shear zone walls. As a consequence of subsequent variations in the amount of shear displacement in the zones from center to edge, the veins become sigmoidal (Ramsay & Huber, 1983; Collins & DePaor, 1986). With increasing shear displacement new cross-cutting veins may form at an angle of 135^0 to the shear zone. The shear veins (oriented at $048^0/90^0$) off-set the sigmoidal extension veins in the creek 8 outcrop and they are oriented at an acute angle of 48^0 (an obtuse angle of approximately 132^0) to the major creek 10 fault (oriented at approximately 005^0 with an assumed dip of 65^0W) as

shown in Figure 7. This relationship to the creek 10 fault and the sigmoidal shape of the cross veins in creek 8 implies that there may be a component of dextral strike slip along this major fault. The veins may form Riedel type shears associated with the creek 10 fault. Therefore, the brittle-ductile textures of the veins in the lower alteration zone were probably induced by the strike slip motion associated with this fault.

Epithermal mineralization is frequently reported from areas of extensional fault-fracture systems undergoing magmatic and/or geothermal activity. Veins textures within such deposits often display a record of repeated extension and precipitation. Ascending magmatic source fluids are not considered critical to the formation of epithermal deposits. The most critical factor is that deposits are formed from dilute to weakly-alkaline chloride water that undergo boiling and fluid mixing as they ascend or migrate laterally (Panteleyev, 1986). However, structurally controlled emplacement of high-level stocks and plutons provide the most suitable fractured environment and geological setting for the formation of epithermal deposits.

The passage of hydrothermal fluids through pre-existing fractures produces structurally controlled zones of alteration. Dilation zones within these structures provide sites for the deposition of precious and base metals. The intrusion of magmatic suites of rocks are coeval with the Upper Triassic Stuhini Group volcanics. Mineralization is also spatially and genetically related to the Stuhini Group volcanics and the intrusive episodes.

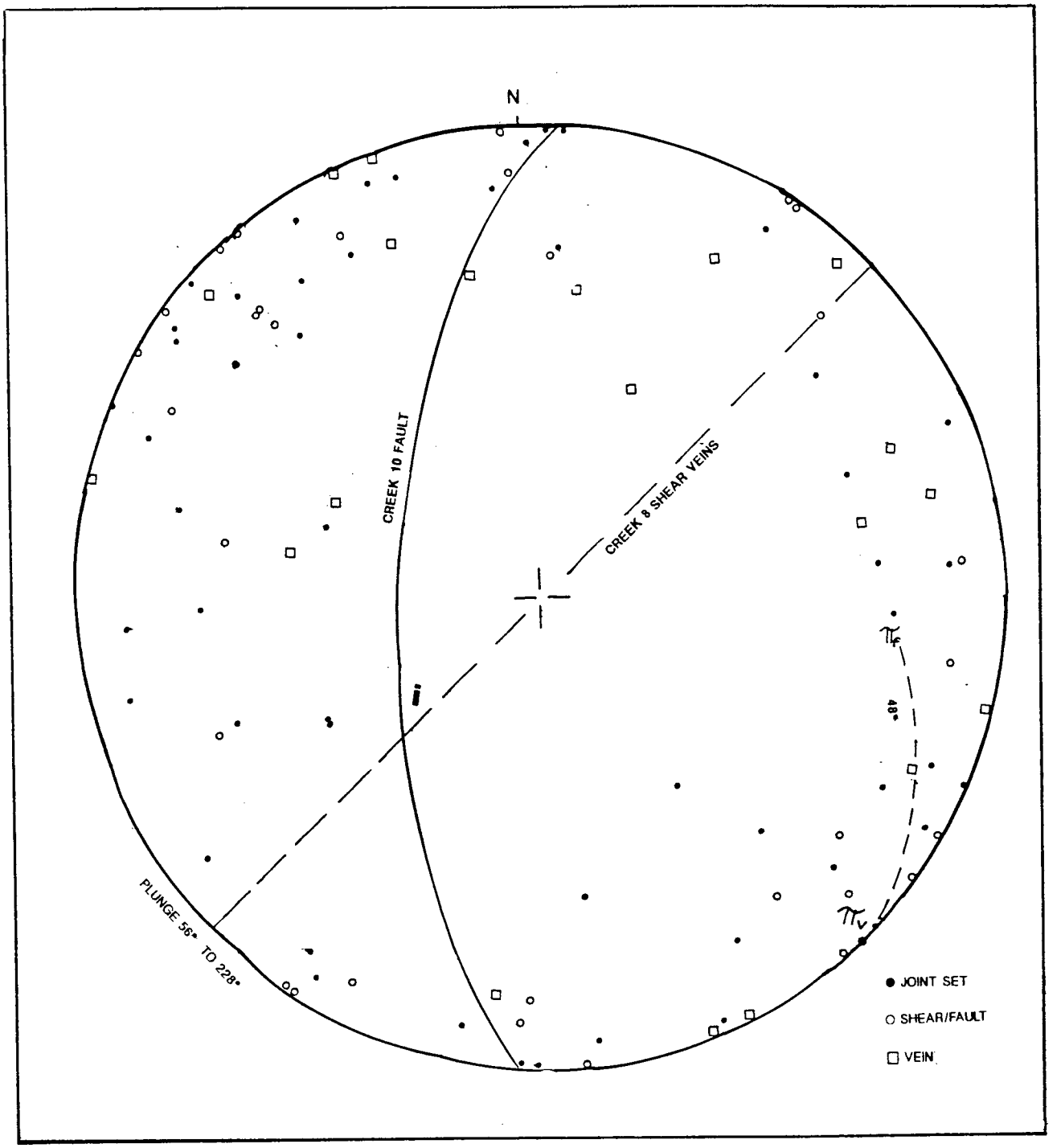


FIGURE 7: Stereoplot of Creek 10 fault/Creek 8 veins and Lower zone data.

The variation in the dips of the upper and lower alteration zones is related to the variation in the types of controlling structures within each zone. The brittle fractures which controlled the upper alteration zone were produced by and during the emplacement and upwelling of fluids. The accompanying "doming" associated with such a high pore fluid pressure event would be accompanied by brittle failure near the surface and the formation of extensional veins. The orientation of the mineralized structures need not have any relationship to the surrounding stratigraphic dip. Steeper dipping structures may be expected to form at deeper depths in the system. The lower alteration zone appears to be fault controlled and cross-cuts the stratigraphy in this area. The presence of a steeper dipping stratigraphy, related to the infill from primary extrusion events, may have localized the position of some of the later faults.

6.0 DIAMOND DRILLING

The drilling contractors were Connors Drilling Ltd. of Kamloops, British Columbia. This company collared all the holes in NQ size core and completed the holes in BQ size core. Problems arose in 5 of the holes due to BQ rods binding and sticking in faults and gouge zones. No problems were encountered while using NQ rods and all future holes should be drilled in NQ size. However, BQ rods should be available on site should any problems arise during deep NQ drilling.

A total of 1610.6 meters were diamond drilled on the claims. All of the core boxes are stored on the property at a leveled site behind the core shack adjacent to hole DDH 88-22.

Each diamond drill hole is summarized below and drill logs, geotechnical logs and geological cross-sections are presented in Appendices IVa, IVb, and IVc respectively. The drill hole layouts are shown in Table 1. The locations of the diamond drill holes are included in Figure 8. The core was logged by Mr. York Ming So under the supervision of the writer.

DDH : 89-1

Bedrock consists mainly of interlayered andesitic breccia, tuffs and flows. Mineralization was confined to the alteration zone and consisted of pyrite, chalcopyrite, sphalerite and galena. There appears to be a correlation between the presence of sphalerite and galena within a vein or gouge zone and anomalous gold values. A geological cross-section which may be overlain with the assay data section in the Brown (1989) report is shown in Appendix IVc. Vein and shear zones are predominantly oriented at steep angles to the core axis. The hole was abandoned at a depth of 95.05m due to down hole problems.

DDH : 89-2

This hole was collared at an angle of -46^0 from the same pad as DDH 89-1 (Appendix IVc). The same stratigraphic sequence as above was intersected. The hole was terminated in intermediate basic volcanic breccia. There is a weakly altered transition zone towards the basal contact of the alteration zone. Some shear zones and veins were intersected that contained appreciable amounts of visible sphalerite and galena.

TABLE 1.
DRILL HOLE LAYOUTS.

Hole Number	Collar Azimuth	Collar Dip	Test Azimuth	Test Dip	Test Depth	Northing	Easting	Elevation	Length (m)	Hole Size	Comments
89-1	320^0	-60^0	310.5^0	-59.5^0	89m	10670.136	10162.749	1116.820	95.05	NQ/BQ	Lost
89-2	320^0	-46^0	319.5^0	-46.5^0	110m	10670.236	10162.349	1116.820	110.03	NQ/BQ	Lost
89-3	320^0	-64^0	315.0^0	-66.0^0	128.6m	10670.036	10163.149	1116.820	130.14	NQ/BQ	Lost
89-4	310^0	-60.5^0	259.5^0	-61.0^0	112.91m	10645.542	10132.445	1110.010	121.91	NQ/BQ	Lost
89-5	310^0	-74.5^0	311.0^0	-75.0^0	156m	10645.342	10132.645	1110.010	157.58	NQ/BQ	Lost
89-6	320^0	-50^0	318.5^0	-51.0^0	110.34m	10573.316	10073.404	1103.950	111.86	NQ/BQ	Lost
89-7	320^0	-70^0				10573.316	10073.404	1103.950	101.20	NQ/BQ	Lost
89-8	313^0	-55^0	333.5^0	-58.0^0	233.25m	10454.401	10037.800	1114.040	233.77	NQ/BQ	Lost
89-9	316.5^0	-62^0	Failed	Failed		11017.406	10434.765	1124.170	270.36	NQ/BQ	Lost
89-10	320^0	-60^0				11449.180	10697.300	1105.270	156.97	NQ/BQ	Lost
89-11	320^0	-65^0				11448.980	10697.500	1105.270	121.62	NQ/BQ	Lost

DDH : 89-3

This hole was drilled to establish a position of the basal contact of the lower alteration zone and to define the continuity of mineralized veins and shears at depth in the Creek 5 area. Pyrite-sericite-carbonate alteration was evident to a depth of approximately 139 meters. The bottom of the hole intersected a series of interlayered unaltered intrusive and extrusive lithologies. Mineralization was largely confined to veins and gouge zones in andesitic breccia horizons. Contacts between contrasting lithologies may have localized shearing to some degree as evidenced by the shearing at a tuff - andesite breccia contact at a depth of approximately 100 meters.

Based on the three drill holes from this site the alteration zone bottom contact appears to dip at 77^0 to the southeast. The lower portions of holes 89-2 and 89-3 are altered and "cooked" by a possible intermediate to mafic volcanic intrusion. Zones of sphalerite-galena-chalcopyrite evident in the core from each hole yielded the best anomalous results. These zones are traceable down dip between holes.

DDH : 89-4

A similar assemblage of andesites and andesitic breccia as above was intersected in this hole. One well developed series of 3mm quartz-carbonate veins within pale green andesite between 53.67 and 54.61m yielded the best anomalous gold values obtained during the drilling program (Appendices IVb and IVc). This andesite was only weakly altered when viewed in the core.

DDH : 89-5

Although many of the veins and gouge zones of DDH-89-4 can be projected into DDH-89-5, the highly anomalous values of hole 89-4 were not repeated in 89-5 (Appendices IVb and IVc). The lower portions of holes 89-4 and 89-5 display the same altered and "cooked" texture as is evident in holes 89-2 and 89-3. This suggests that the intermediate to mafic volcanic intrusion is present in this zone. The footwall to the lower alteration zone dips at approximately 83^0 to the southeast in these holes.

DDH : 89-6

This hole was collared at an angle of -50^0 and intersected the footwall of the lower alteration zone at a depth of approximately 86 m (Appendix IVc). This lower contact is marked by a gouge zone with a core axis of 45^0. The hole was stopped in intermediate-basic volcanics. An andesitic intrusion was intersected at the contact of the footwall to the alteration zone. This is similar to the intrusion intersected in the previous holes. High angled quartz-carbonate veinlets and gouge zones were intersected in the core. The highest precious metal values were associated with sphalerite-galena mineralization in veinlets (Appendix IVb and Appendix IVc). At 32.62 m a lapilli horizon was intersected which may act as a possible marker bed (see 89-7). No core axis could be measured for the contacts of this unit.

DDH : 89-7

This hole was collared at an angle of -70^0 from the same drill pad as DDH 89-6. The hole was terminated short of it's target depth due to the BQ rods binding and tightening in the hole. At a depth of 35.28 m a

lapilli horizon was intersected which is similar to that recovered in DDH 89-6 (Appendix IVc). Core axes of 30^0 and 32^0 were recorded for the upper and lower contacts of the unit, respectively. These contacts appear to be stratigraphic and therefore, the mineralized veins and shear zones in the core cross-cut the stratigraphy.

DDH : 89-8

There is a change in the intensity of alteration and lithology between the previous holes and 89-8. This hole contains an alternating, thinly bedded sequence of more competent grey altered andesites, andesite breccias and tuffs than the previous holes. Two intersections of andesitic dykes or sills within the lower alteration zone were recovered in the core (Appendix IVc). The andesitic intrusion which was intersected at the contact of the footwall to the alteration zone in the previous holes was not present in DDH 89-8.

DDH : 89-9

This hole was collared adjacent to the upper contact of the lower alteration zone. The major portion of this hole appears to be only weakly altered, however, the veining intensity is similar to other holes. Porphyritic andesite was recovered in two places in the upper 65m of this hole. This porphyritic lithology was not found in the previous holes which were collared in the lower portion of the lower alteration zone. At a depth of 235 m, a pinkish, 1 cm wide rhodochrosite veinlet with core axis of 300 was intersected in the core. This marks the top position of a rhodochrosite veinlet zone. This extended to a depth of 270.36 m, at

which point the hole was abandoned due to the BQ rods binding, tightening-up and the near loss of a rod string.

DDH : 89-10

This hole was collared adjacent to the upper contact of the lower alteration zone at an angle of -60^0. The veining intensity is higher than the previous hole. Porphyritic andesite was not recovered in this hole. Mineralized shears, veins and gouge zones are predominantly oriented at high angles to the core axis. This hole was lost due to binding in a gouge zone at a depth of 156.97m.

DDH : 89-11

This hole was collared from the same site as hole 89-10, at an angle of -65^0. It was intended that this hole would intersect and penetrate the gouge zone intersected in the previous hole. However, this hole was also abandoned at a depth of 121.62m.

The lower alteration zone drill program has been discussed in an interim LAC Minerals Ltd. report dated November 1989, by R. F. Brown, P.Eng. The current writer endorses the content of this interm report and part of this discussion is included here for completeness. All of the drill sections referred to in the following discussion were included with the interim report and are not appended to the current report.

LOWER ALTERATION ZONE DRILLING 1989

.....In total 1610.6m was drilled in 1989.

Due to broken to shattered outcrop near surface the holes were started using N.Q. rods to a 50 m depth, then converting to B.Q. to finish the hole. This worked very well in penetrating the shattered

surface rocks but faults and gouge zones often hampered B.Q. drilling. Future drilling should be strictly of N.Q. size, this will improve productivity, lessen the necessary parts inventory and lower the gross weight of equipment.

The thrust of the 1989 drilling was to detail one of the high grade areas from previous drilling (namely the 88-4 to 87-3 area) and continue on strike exploration in the lower alteration zone. Holes 89-1 to 89-8 were to test around the 87-3 and 88-4 intersections while 89-9 tested high grade Au, Ag, Pb, Zn carbonate veins in Creek 7 and 89-10, 11 tested the on strike continuation of 88-14 which had a broad "high background" section of Au values.

DISCUSSION OF LOWER ALTERATION ZONE DRILLING

Combined with the holes drilled in 1987 and 1988 and there are now 25 holes in the LAZ. As such, an attempt at interpretation of the mineralization zones is given below.

Interpretation is based primarily on drill core orientations (perpendicular to core axis); intensity of veining, alteration, % pyrite; and abundance of Zn, Pb, Ag, Cu mineralization. Shear-vein outcrops in Creek 5 and 7 along with shears in Creeks 4, 6, 8 indicate a gross NE trend with steep (70^0) SE dip for the mineralization. Drill core orientations were thus preferentially oriented into a steep dip position, the exception is the Creek 5 Flat zone which is interpreted from drill core orientations as a NE trending, 15^0 - 20^0 SE dipping zone.

Within "high background" sections 11 zones have been defined [Tables #2 and #3 Hi-Tec report]. These zones can be traced vertically from hole to hole (on section) and horizontally from section to section.

The Creek 5 "A", "B", "C", "D" zones are all within a 50 m thick high background section along the north boundary of the LAZ in the section 950 E to 1000 E. area.

Creek 5 "A" zone occurs only in 89-4 and 89-5 on section 950E and consists of a strongly veined area with modest gold values.

Creek 5 "B" zone has modest Au values in holes 89-2 and the deeper 89-1 (section 1000E) but is not correlatable further down dip onto 89-3. There is a strong possibility that a high grade intersection in 89-4 (70.86 g/t Au over 0.63 m) is again the Creek 5

TABLE 2
SUMMARY OF LOWER ALTERATION ZONE INTERSECTIONS
CREEK 5 "A" ZONE

Hole	From (m)	To (m)	Interval (m)	True Width (m)	Au* GMT	Ag[1] GMT	Pb[1] %	Zn[1] %
89-4	20.83	22.93	2.10	1.41	1.37			
89-5?	33.98	35.66	1.68	0.79	5.11	114.9	0.32	1.00
89-5?	38.17	39.48	1.58	0.74	2.51	18.5	0.49	0.68
				CREEK 5 "B" ZONE				
89-1	61.63	63.19	1.56	1.10	2.74			
89-2	49.00	59.49	1.49	1.60	1.89			
89-4	53.67	54.61	0.94	0.63	70.86			
				CREEK 5 "C" ZONE				
89-1	82.16	82.37	0.21	0.15	95.28			
89-2	66.71	68.00	1.29	0.85	1.41			
89-3	89.57	92.49	2.92	1.80	1.78	31.20	0.08	0.25
89-4	64.46	70.69	6.23	4.17	5.26			
89-5	96.28	98.40	2.12	1.00	10.22	175.50	0.13	0.13
89-3	45.37	49.38	4.01	3.40	16.83	incomp.	-	0.66
				CREEK 5 "D" ZONE				
89-1	88.85	92.00	3.12	2.23	0.91			
89-3	98.85	101.91	4.06	2.50	1.60	31.20	0.09	0.35
89-4	78.00	79.00	1.00	0.67	3.53			
89-5?	117.70	118.84	1.24	0.58	5.86	93.90	0.02	0.04
				CREEK 5 "88-4 DEEP"				
88-4	117.85	316.99	9.14	5.88	13.39	132.30	1.00	1.57

* Au Intersection uses Fire Assay and Metallic Assay Data
1 Ag, Pb, Zn Intersection uses Fire Assay and Geochemical Analysis

TABLE 3
SUMMARY OF LOWER ALTERATION ZONE INTERSECTIONS
CREEK 5 "FLAT" ZONE

Hole	From (m)	To (m)	Interval (m)	True Width (m)	Au* GMT	Ag[1] GMT	Pb[1] %	Zn[1] %
89-6?	57.84	59.10	1.26	1.18	1.16			
89-7?	46.91	48.84	1.93	1.92	3.40			
89-8	84.77	86.31	1.54	1.47	5.51	144.20	0.68	1.29
89-4	140.00	143.00	3.00	2.93	18.27	132.90	0.04	0.08
88-22	47.58	49.98	2.40	2.38	4.97	123.40	0.08	0.13
				CREEK 5 "88-6 DEEP" ZONE				
88-6	376.43	376.43	1.97	1.10	66.19	530.40		
				CREEK 8 "A" ZONE				
89-9?	High Background							
89-10	80.00	82.00	2.00	1.29	3.15	30.50	0.04	0.17
89-11	82.00	89.42	7.42	4.26	5.77	35.20	-	0.44
88-14	166.64	167.64	1.00	0.50	2.14			
				CREEK 8 "B" ZONE				
89-11	106.27	108.66	4.15	2.38	12.00	257.20	-	0.98
88-14?	191.00	192.00	1.00	0.50	3.19	3.19	0.06	1.43
88-14	195.00	198.00	3.00	1.50	3.12	13.5	0.05	0.41
				CREEK 8 "C" ZONE				
88-14?	227.00	229.00	2.00	1.00	2.38	11.5	0.03	2.77
				CREEK 8 "D"				
89-10	153.95	156.07	2.12	1.36	1.36	23.5	0.74	2.05

* Au Intersection uses Fire Assay and Metallic Assay Data
1 Ag, Pb, Zn Intersection uses Fire Assay and Geochemical Analysis

"B" zone. Unfortunately the high grade in 89-4 is not traceable up dip to 87-3 or down dip to 89-5.

Creek 5 "C" zone is the strongest most continuous vein-shear system and is found on section 950E in holes 87-3, 89-4 and 89-5. The best values and widths are in the upper two holes. On section 1000 E Creek 5 "C" zone is narrower and of lesser Au grade.

The Creek 5 "D" zone on section 1000 E is found in 89-1 and 89-3 and is open to depth and N.E. True widths of approximately 2.5 m were intersected although gold grade is low. To the SW on section 950E "D" zone was narrower with intersections in 89-4 and 89-5 again gold grade is low.

The Creek 5 "88-4 Deep" Zone seems to occur in a NW flexure of the north side of the LAZ on section 800E. Updip projection of 100 m to 88-22 shows a "high background" section with low gold values. Updip and to the S.W. hole 89-8 (section 750E) has no significant values and no similar flexure in the LAZ.

The Creek 5 "Flat" zone was intersected by five holes. Holes 89-8 (section 750E) and 88-4 and 88-22 (section 800E) have good core orientations to suggest this "flat" feature, striking NE, dipping 150 - 200 SE. The intersection on section 850E lines up well with the implied flat zone orientation but the core orientations are less affirmative (i.e. lost core in 89-6). Widths are from 1-3 m with the best grade in 88-4 (18.27 g/t Au/2.93 m), the other four holes had modest grades.

The Creek 5 "88-6 Deep" zone was not tested in 1989. The intersection is on section 1100 E in an area of high background values. Updip holes 88-19, 19A did not intersect the high background values. This zone is open on strike as it is SE of the Creek 5 A to D zones.

The Creek 8 "A, B, C, D" zones are found within a 50 meter wide high background area in relative proximity to the SE side of the LAZ. Connection of the zones between section 1800E and 1925 is tenuous at best. Nonetheless, using the postulated linear contact (fault) of the LAZ, a NE zone trend and an assumed steep SE dip, zones were connected between sections.

Creek 8 "A" zone is narrow and low grade in hole 88-14 on section 1800E. On section 1925E holes 89-10

and 89-11 are drilled close together. Hole 89-10 is believed to be drilled nearly down a strong fracture system and was terminated in a gouge zone. Hole 89-11 was an attempt at a steeper angle to penetrate deeper than 89-10 but failed in a gouge zone well short of its projected mark. Although both holes intersected the high background area high grade shear-vein zones cannot be projected hole to hole.

Creek 8 "B" zone on section 1925E shows a vast difference between the deeper 89-11 (strong vein-shears, 2.38m @ 12.0 g/t Au) and 89-10, 14 meters updip which is high background. On section 1800E, hole 88-4 intersected a wide zone of modest values which may be "B" zone.

Creek 8 "C" zone is a modest gold intersection only in 88-14 on section 1800E.

Creek 8 "D" zone is a modest gold intersection on section 1925E, which in only partially tested by hole 89-10 before the hole was lost in a gouge zone.

Several other "high background" sections exist elsewhere in the LAZ which are potential targets for high grade vein-shear zones. In particular are the high background sections in holes 89-9 (at the end of the hole) and 88-12A on sections 1450E and 1550E, these sections may be the SE continuation of the Creek 8 A, B, C, D zones 250 m to the NE.

Of interest is the observation that the S.W. portion of the LAZ (SW of 88-8) has high background sections and vein-shears with Pb-Zn-Au, Ag, Cu values while NE of 88-8 the high background sections and vein shears are prominently Zn, Au, Ag with minor Pb, Cu.

....The best intersections are summarized in Table[s #2 and #3.]

.....There are several targets which have good strike and dip length potential that still have to be adequately detailed. Namely the Creek 5 "flat" zone; Creek 5 "Deep 88-4" zone; Creek 5 "Deep 88-6" zone; down dip and NE strike extension of Creek 5 "A-D" zones; and the NE and SW extensions of the Creek 8 "A-D" zones. This would entail an extensive drill program covering over 1100m of LAZ strike length, drill down dip over 300 meters.

7.0 GEOCHEMISTRY

One hundred and sixty-eight rock samples and eight hundred and fifteen core samples were collected and all of the samples were submitted to Bondar-Clegg & Company Ltd., in Vancouver, British Columbia. All of the rock samples and four hundred and seventy-eight core samples were analyzed for Au (plasma), Ag, As, Cd, Cu, Fe, Mn, Mo, Ni, Pb, Zn, Hg and Sb by geochemical methods. Three hundred and thirty-seven core samples were analyzed by geochemical methods for gold. Selected core samples were additionally analyzed gold and silver by the Fire Assay (F.A.) technique. Analytical procedures are reported in Appendix II and analytical data can be found in Appendices IIIb and IVb.

Statistical treatment of data was possible for each analyzed element. Statistical methods, data, correlation coefficients, histograms and scatter plots are listed in Appendices IIIc and V for rock and core samples respectively.

The relationships between various elements are provided by the correlation coefficient matrices and scatter plots for the rock and core samples in the latter Appendices. A scatter plot of Au GMT against Au ppb for all of the rock samples is included in Appendix IIIc (File: AuRock). There is a strong linear relationship for the data set in the lower value range up to 10,000 ppb.

Au values of 10,000 ppb were removed from the data set prior to additional statistical analysis. There is a moderate to strong correlation between Au, Ag and Pb content in the rock samples. Ag and Hg also show a moderate correlation (Appendix IIIc, File: Rock).

A histogram of the gold values for the rock samples, showing the frequency of values and the total number of Au values, is provided in Appendix IIIc (File: STROCK).

Six of the diamond drill holes had their samples analyzed for multi-elements. The correlation coefficients for eight of these element variables were calculated and are provide in Appendix V. In DDH 89-3, there is a strong correlation between the Zn and Hg values. Au and Ag show a moderate to strong correlation. Au-Pb and Ag-Cu have moderate correlations. In DDH 89-5, Au-Ag and Pb-Zn rate strong correlations while Ag-Hg, Ag-Cu, Ag-Zn, Ag-Pb and Cu-Zn rate moderate correlation coefficients. Similar results are provided by the correlation coefficients matrices for holes DDH 89-8, 9, 10, and 11. Overall there appears to be only a weak correlation between As and Au.

A histogram of the all the gold values for all of the diamond drill hole samples, showing the frequency of values and the total number of Au values, is provided in Appendix V (File: HistDDH).

Scatter plots of Au GMT against Au ppb for most of drill hole samples is included in Appendix V. There are strong linear relationship for the data sets.

8.0 CONCLUSIONS

The proposed model is based on mapping and drilling conducted on the Hank property during the 1989 field season and previous work by R. Turna. Insufficient

exposure in the upper grid zone of the property precludes definitive statements regarding the origin of the textures and lithologies in the area. Many of the events outlined above were approximately coeval and form part of the one event.

The Hank claims mineralization forms part of a large epithermal system which has been obliquely cut by glacial erosion. Deformation and volcanism must have occurred within narrow time constraints. The main Hank 2 - Hank 4 fault appears to provided structural control for and the physical limits to the mineralizing system to the east. The potential of volcanic conduit related mesothermal veins at depth exists and should be drill tested. High level stocks with the potential of associated porphyry mineralization may also have formed at depth in the Hank 2 - Hank 4 fault conduit zone (Figure 9).

This fault zone may provide a similar environment for mineralization to that which exists on the Calpine/Consolidated Stikine's Eskay Creek property. If the mineralization in the contact zone of the latter property is epigenetic in origin then the potential for a similar zone, at the contact of the leucocratic volcanics and volcano-sedimentary footwall assemblage along the Hank 2 - Hank 4 fault zone, exists.

Mineral deposition paragenesis on the Hank property tentatively appears to have been (a) precipitation of pyrite (b) deposition of quartz-carbonate veins in several stages and (c) deposition of sphalerite, galena, chalcopyrite and micron-size gold. Additional mineralogical analysis would have to be conducted to verify the paragenesis and genetic model for the deposit.

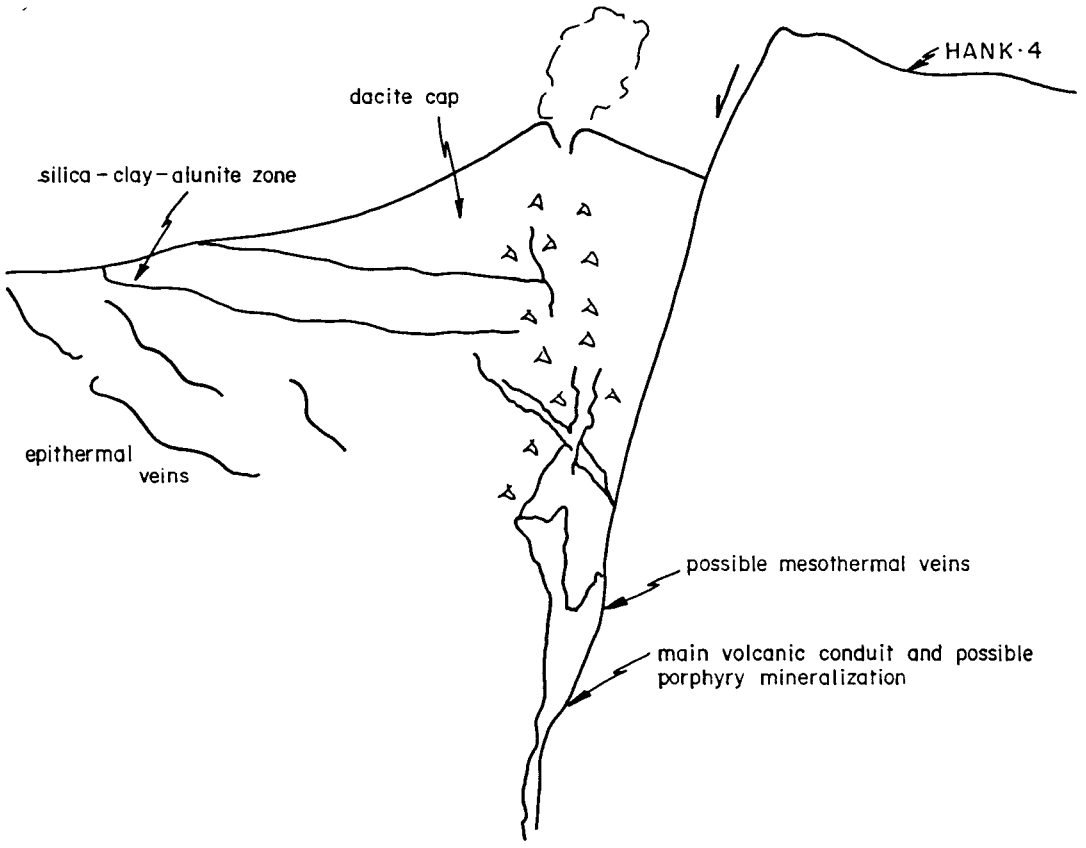


FIGURE 9: SCHEMATIC DIAGRAM OF TYPES OF POTENTIAL MINERALIZATION

The contacts of the lower alteration zone and the mineralized veins and shear zones within it cross-cut the stratigraphic dip as evidenced by the lapilli horizon in holes 89-6 and 89-7.

The lower alteration zone appears to be within a structurally controlled block. Complex faulting occurs in the west of the zone due to the intrusion of dioritic stocks. This portion of the alteration zone has only been tested by hole 88-23 to date. This was collared at an angle of -62^0 to test a strong bulls-eye chargeability anomaly (Turna, 1989). Highly pyritic alteration zone rocks with occasional elevated gold values were intersected. The footwall to the lower alteration zone was intersected at a depth of approximately 220 meters in this hole. This concurs with the pattern of southward stepping faults which were mapped in this area during the current exploration program. This portion of the lower alteration zone, west of creek 4, has not been adequately tested by drilling in previous programs.

Respectfully submitted,

HI-TEC RESOURCE MANAGEMENT LTD.

Denis A. Collins, Ph.D., P.Geol., F.G.A.C.

January, 1990

REFERENCES

Allman-Ward, P. et al, 1982. An intrusive hydrothermal breccia body at Wheal Remfry in the western part of the St. Austell granite pluton, Cornwall, England. In: Metallization Associated with Acid Magmatism, 6. Ed. by A.M. Evans, Wiley, Chichester.

Anderson, 1984. Late Triassic and Jurassic Magmatism along the Stikine Arch and the Geology of the Stikine Batholith, North-central B.C. Geol. Surv. Can. Paper 84-1A.

Awmack, H.J. 1989. 1988 Summary Report on the JD 1 & II Claims. Report for Pass Lake Resources Ltd.

Brown, R.F. 1989. Report on the Hank Claims diamond Drilling Program, 1989. Internal LAC Minerals report dated Nov. 1989.

Burnham, C.W., 1985. Energy release in subvolcanic environments:Implications for breccia formation. Econ. Geol. 80, p1515-1522.

Collins, D.A. and DePaor, D.G. 1986. A determination of the bulk rotational deformation resulting form displacements in discrete shear zones in the Hercynian Fold Belt of South Ireland. J. Struct. Geol., 8, 101-109.

Geological Survey of Canada, Map No. 9-1957: Operation Stikine 1956.

Geological Survey of Canada, Map No. 1418A-1979: Iskut River

Grove, E.W. 1986. Geological Report, Exploration and Development Proposal on the Skyline Exploration Ltd.'s Reg Property.

Grove, E.W. 1988. Geological, Exploration and Development Review of the Skyline Exploration Ltd.'s Reg Property. Cordilleran Roundup, February 4, #5.

Grant, G.W. 1964. Final Geological Report-CW Group. BCMEMPR Assmt. Rpt. #621.

Holtby, M.H. 1985. A Geological, Soil Geochemical, Trenching and Diamond Drilling Program on the Paydirt Claim Group. BCMEMPR Assessment Rpt.#14,980.

Kerr, F.A. 1930. Preliminary Report on the Iskut River Area, B.C. GSC Summary Report, 1929, Part A, pp. 30-61.

Kerr, F.A. 1948. Lower Stikine and Western Iskut Rivers Area, B.C., GSC Memoir 246.

Panteleyev, A. 1986. A Canadian Cordilleran Model for Epithermal Gold-Silver Deposits. Geoscience Can. 13, No. 2.

Ramsay, J.G., 1967. Folding and Fracturing of Rocks. McGraw-Hill, New York.

Ramsay, J.G. 1980. Shear Zone Geometry-a Review. J. Struct. Geol. 2, 83-99.

Ramsay, J.G. and Huber, M.I. 1983. The techniques of modern structural geology, Vol 1. Strain Analysis. pp 307.

Souther, J.D. 1971. Telegraph Creek Map Area, B.C. Geological Survey of Canada Paper 71-44.

Turna, R., March 1985. Geological Geochemical and Diamond Drilling Assessment Report on the Hank Claim Group.

Turna, R., March 1986. Report on Diamond Drilling and Trenching on the Hank Claim Group in 1985.

Turna, R., February 1988. Report on Diamond Drilling and Trenching on the Hank Claim Group in 1987.

Turna, R., February 1989. Report on Diamond Drilling and Trenching on the Hank Claim Group in 1988.

Wolfe, W.J. & Nichols, R. F. 1988. Geological, Exploration and Development Review of the SNIP deposit. Cordilleran Roundup, February 4, #5.

APPENDIX I

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, DENIS A. COLLINS, of the District of North Vancouver, Province of British Columbia, hereby certify:

1. THAT I am a geologist employed by Hi-Tec Resource Management Ltd. at 1500-609 Granville Street, Vancouver, British Columbia, Canada, V7Y 1G5.

2. THAT I obtained a Bachelor of Science degree in Geology from University College Cork, Ireland in 1980 and a Ph.D. in Structural Geology from the same university in 1985.

3. THAT I have been practicing my profession as a geologist in Ireland, South Africa and Canada since 1980.

4. THAT I am a Fellow, in good standing, with the Geological Association of Canada.

5. THAT I am a registered Professional Geologist, in good standing, with a license to practice, with the Association of Professional Engineers, Geologists and Geophysicists of the Northwest Territories.

Dated in Vancouver, British Columbia, this 9 th day of January, 1990.

Denis Collins

Denis A. Collins, Ph.D., P. Geol., F.G.A.C.

GEOLOGICAL ASSOCIATION OF CANADA
D.A. COLLINS
FELLOW

APPENDIX II

GEOCHEMICAL PREPARATION AND ANALYTICAL PROCEDURES

LABORATORY AND ANALYTICAL METHODS

Geochemical samples were processed by Bondar-Clegg and Company Ltd. at 130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5 employing the following procedures.

After initial preparation, samples were analyzed by the Inductively Coupled Plasma (ICP) method. Gold was determined by the fire assay and atomic absorption method.

Rock/core samples were put through a jaw crusher and a ceramic-plotted pulverizer.

For ICP analyses, 1.0 gram of sample material was digested for 6 hours with a hot HNO_3 - $HClO_4$ mixture. After cooling, samples were diluted to a standard volume. The solutions were then analyzed by a computer-operated Jarrell Ash ICP Analyzer. Reports are formated by a route computer dotline printout.

For Au analyses, a suitable sample weight of 15 or 30 grams was fire assay preconcentrated. Samples were then digested with an Aqua Regia solution and then taken up to suitable volume by adding a 25% HCl solution. Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with methyl isobutyl ketone. Gold is analyzed by Atomic Absorption instruments using a suitable standard solution. The detection limit is 1 ppb.

APPENDIX IIIa

ROCK SAMPLE DESCRIPTIONS

ROCK SAMPLE DATA HANK CLAIMS, Hi-Tec Project No.: 89-BC-019

Total Number of rock samples : 168

SAMPLE NO.	LOCATION	DESCRIPTION
89 Hank	5001 K1 88-22 0/1.5m	Start at K1 east side of road. 1.5m sample. OB 3m thick, alt tuff, local maroon clast, py<5% disseminated blebs & fracture fillings. Alt int=7, pale whiteish grey.
89 Hank	5002 1.5/3m N	1.5m long. Rock as above.
89 Hank	5003 3/4.5m N	1.5m long. Rock as above.
89 Hank	5004 Creek 8	Grab of carbonatized/silicified green pyroclastic tuff. Sample is of rare calcite veinlet found within rusty green/grey o/c. 5% py
89 Hank	5005 Creek 3	Highly weathered pyroclastics. No mineralization.
89 Hank	5006 Creek 3	Pyroclastics, no mineralization.
89 Hank	5007 Creek 3	Pyroclastics, <1% pyrite, manganese stain.
89 Hank	5008 Creek 3	Alteration zone, sample is carbonatized and silicified, with 2% pyrite.
89 Hank	5009 Creek 3	Bleached altered rock.
89 Hank	5010 L27N/75E	1m chip from face of rusty buff weathered grey/white altered sericitic tuff. Sample is highly weathered & leached with minimal sulphs
89 Hank	5011 Creek 8	Taken 11-15.5m N of L26N intersection with creek 8. 4.5m long chip, consisting of 0.5% Pyrite, fair limonite stain at joints (2%).
89 Hank	5012 Creek 3	L1200N, 295E. 5m chip, across part of outcrop. Fine grained tuff, 0.5% to 1.0% Pyrite showing CB alteration.
89 Hank	5013 Creek 3	S wall of creek, 4m chip of fn gr tuff, 0.5% - 1.0% Pyrite, unit is competent and unaltered.
89 Hank	5014 Creek 3	4m long. Rock as above.
89 Hank	5015 Creek 3	(99m up from '14) Grab sample from strongly altered whitish tuff, 3% Pyrite as cubes.'
89 Hank	5016 Creek 3	(142m up from '14) 2m chip sample from S wall of strongly CB altered, white rock, with 5% Pyrite as cubes.
89 Hank	5017 Creek 3	(228m up from '14) 1.5m chip sample from S wall of Rock as above.
89 Hank	5018 L19N/168E	4.0m long chip. Sample is of unaltered intermediate volcanics, weathered clastic tuffaceous unit with no sulfides.
89 Hank	5019 L1907N/ 275E	4.0 m long chip. Rock as above, except with tr. to 0.5% Pyrite.
89 Hank	5020 L1900N/ 708E	Grab sample from grey, unaltered andesitic volcanic rock. No sulfides.
89 Hank	5021 L2100N/ 464E	3m chip sample, from altered rock with limonite and pyrite.
89 Hank	5022 L2100N/ 467E	3m chip sample. Rock as above.
89 Hank	5023 L2100N/ 442E	Grab sample. Rock as above.
89 Hank	5024 L2100N/ 424E	(E wall). Grab sample from, altered competent outcrop, with 2.5% Pyrite and limonite.
89 Hank	5025 L2100N/ 379E	Grab sample from light green, grey, moderately altered tuff containing a trace of pyrite.
89 Hank	5026 L2500N/	Grab sample from outcrop of white altered

	304E	rock, containg 2.5% quartz, carbonate veins with a trace pyrite and 1% limonite.
89 Hank	5027 L2500N/ 328E	4m chip sample from altered rock, containg a trace pyrite and 2% limonite.
89 Hank	5028 L2500N/ 332E	4m chip sample. Rock as above.
89 Hank	5029 L2200N/ 400E	(73m E of Co-ord) Grab sample from fine grained pale yellow, brown clastic rock (tuffaceous ?). Sample contains 1% Pyrite.
89 Hank	5030 L2013N/ 483E	3m chip sample, outcrop under 10cm of overburden, unit is strongly altered with 5% pyrite and limonite.
89 Hank	5031 L2600N/ 142E	(10m W of Co-ord) 4m chip sample from whitish altered rock containing 3-5% limonite.
89 Hank	5032 L2600N/ 142E	(14m W of Co-ord) 4m chip sample. Rock as above.
89 Hank	5033 L2600N/ 22E	(6m SW of Co-ord) 4m chip sample across weakly altered, light green, grey, white, clastic tuff, with a trace pyrite and 2.5% to 5.0% Ti-oxides.
89 Hank	5034 Creek 5 89-TR-1	(0.0m - 1.4m) Grab sample from CB altered grey clay zone. Samples contain 1% CB veins with galena sphalerite, chalcopyrite, and pyrite.
89 Hank	5035 Creek 5 89-TR-1	(1.4m - 2.4m) Rock as above.
89 Hank	5036 Creek 5 89-TR-1	(2.4m - 3.4m) Rock as above.
89 Hank	5037 Creek 5 89-TR-1	(3.4m - 4.9m) Rock as above. Unit is less clay altered, more CB and pyrite altered, more competent.
89 Hank	5038 Road ~ 1835N/675E	Grab. Mafic unit, (dyke?), light green, dark green altered minerals (hbl). Weakly altered, no sulfides.
89 Hank	5039 Road ~2000N/690E	Grab. Andesite lava, pale green, moderate alteration, with carbonate(green) and chert (milky) amydales. Unit is sheared, contains 1% pyrite cubes.
89 Hank	5040 Creek 4	Float. Carbonate alteration, veining. Abundant py. Occ weathered at margins.
89 Hank	5041 Creek 4	Composite sample of float from creek. Calcite veining with py/gn. Some 2cm long crystals of calcite.
89 Hank	5042 Creek 4	D/C? Carv. veining at base of alteration zone. Py, Po, GN in calcite. Orientation 072/90
89 Hank	5043 Creek 4	Thin Calcite vein x-cutting 1m wide shear zone.
89 Hank	5044 Creek 6	Float sample. Abundant massive Py around altered nodule approx. 10cm long.
89 Hank	5045 Creek 8	Vein sample. Pinkish tinge with trace Gn/Py Host is massive green volc. clastic.
89 Hank	5046 Creek 8	Massive Py in siliceous nodule up to 0.5m diam. Prov. incorporated within movement zone. Sample is composite chip over 3m parallel to NE side of creek and 1m perpendicular to creek
89 Hank	5047 Road ~ 2005N/685E	4.5m chip sample, of andesite lava, light green with limonitic clots (alt py) to 1% and minor amygdales.
89 Hank	5048 Road ~ 2005N/685E	4.5m chip sample. Rock as above.
89 Hank	5049 Road ~2012N/670E	2.5m chip sample, of andesite lava, green with manganese oxide (black) amygdales to 5%, generally 3 - 4cm in diameter.
89 Hank	5050 Road by ~L2600N/ 477E	3m chip sample, of green - grey andesite volcanic with 0.3% - 1.0% pyrite.

89 Hank	5051 As Above	3m chip sample. Rock as above.
89 Hank	5052 Road Creek 8E	3m chip sample. Green intermediate volcanic with limonite and a trace pyrite.
89 Hank	5053 Road "	3m chip sample. Rock as above.
89 Hank	5054 Road "	3m chip sample. Rock as above.
89 Hank	5055 Road "	3m chip sample. Shear, altered, white with 10% limonite.
89 Hank	5056 Road "	3m chip sample. Rock as above.
89 Hank	5057 Road ~L2640N/250E	1.2m chip sample of white altered rock, containing 10% limonite, no pyrite (vuggy remnants) and 50% GG.
89 Hank	5058 Road ~L2590N/225E	2.0m chip sample of fine grained Andesite, light whitish grey, moderately altered.
89 Hank	5059 Road "	2.0m chip sample. Rock as above.
89 Hank	5060 Road "	2.0m chip sample. Rock as above.
89 Hank	5061 Road "	2.0m chip sample. Rock as above.
89 Hank	5062 Road "	2.0m chip sample. Rock as above.
89 Hank	5063 Road "	2.0m chip sample. Rock as above.
89 Hank	5064 Road ~L2550N/440E	2.0m chip sample, of moderately altered intermediate or andesitic volcanic, greenish grey in color, fine grained, with 2.5% pyrite and 5.0% limonite.
89 Hank	5065 Road "	2.0m chip sample. Rock as above.
89 Hank	5066 Road "	2.0m chip sample. Rock as above.
89 Hank	5067 Road "	2.0m chip sample. Rock as above.
89 Hank	5068 Road "	2.0m chip sample. Rock as above.
89 Hank	5069 Road "	2.0m chip sample. Rock as above.
89 Hank	5070 Road ~L2000N/650E	5.0m chip sample, of green lava containg 5.0% pyrite as amygdales and fracture fill. Very limonitic.
89 Hank	5071 Road "	5.0m chip sample. Rock as above.
89 Hank	5072 Road "	5.0m chip sample. Rock as above.
89 Hank	5073 Road "	5.0m chip sample. Rock as above.
89 Hank	5074 Road "	3.0m chip sample. Rock as above.
89 Hank	5075 Road ~L2005N/620E	0.4m chip sample, of green lava with 10% pyrite.
89 Hank	5076 Road ~L2070N/500E	Grab sample from white altered rock, containing 5.0% pyrite stringers, CB and sericite.
89 Hank	5077 Road ~L2058N/472E	2.0m chip sample of pale green alter andesite with 0.5% pyrite.
89 Hank	5078 Road ~L2062N/466E	2.0m chip sample. Rock as above.
89 Hank	5079 Road ~L2162N/515E	Grab sample. Taken from outcrop of altered whitish rock, containing 5.0% pyrite cubes.
89 Hank	5080 Upr Grid	2m chip across outcrop face. Sample is of rusty weathered, grey fresh, silicified porpyroclastic tuff. Sample contains <3% fine dis. pyrite. Unit is generally massive, highly fractured.
89 Hank	5081 Upr Grid	Grab sample from outcrop of fine - medium grained porpyroclastic tuff. Unit is red to buff weathered, dark grey fresh, and contains minor calcite and siderite. Sample contains <1% pyrite.
89 Hank	5082 Upr Grid	1m chip across outcrop of dark grey fine grained silicified tuff. Sample contains up to 6% pyrite as blebs.
89 Hank	5083 Road ~L2168N/506E	Grab sample? Taken from outcrop of altered whitish rock containing 5.0% pyrite cubes.
89 Hank	5084 Road Creek 7	2.0m chip sample taken from pale green to whitish grey altered andesite, sample contains 5.0% pyrite.

89 Hank	5085 Road "	2.0m chip sample. Rock as above.
89 Hank	5086 Road "	2.0m chip sample. Rock as above.
89 Hank	5087 Road "	2.0m chip sample. Rock as above.
89 Hank	5088 Road "	2.0m chip sample. Rock as above.
89 Hank	5089 Road "	2.0m chip sample. Rock as above.
89 Hank	5090 Road "	2.0m chip sample. Rock as above.
89 Hank	5091 Road "	2.0m chip sample. Rock as above.
89 Hank	5092 Road "	Grab sample taken from outcrop of 12cm barite vein, containing 5% sphalerite, galena, TT bornite and 2.5% pyrite. Vein contains some quartz vugs.
89 Hank	5093 Road "	Select sample. Rock as above.
89 Hank	5094 Road ~L2425N/325E	1.0m chip sample from outcrop of light green - grey moderately altered andesite, containing 5.0% pyrite and localized lenses (2mm to 30mm thick) of sphalerite and galena.
89 Hank	5095 Road "	1.0m chip sample. Rock as above.
89 Hank	5096 Road "	1.0m chip sample. Rock as above. (5.0% SP+GN)
89 Hank	5097 Road "	1.0m chip sample. Rock as above. (2.5% SP+GN)
89 Hank	5098 Road "	1.0m chip sample. Rock as above.
89 Hank	5099 Road Creek 7 Trenching	(0m - 1m) 1.0m chip sample, across outcrop of 10cm to 30cm wide vein. Vein is composed of barite with minor quartz and calcite, 5.0% - 10.0% pyrite and locall masses of galena, sphalerite, TT and MA.
89 Hank	5100 Road "	(1m - 2m) 1.0m chip sample. 2.5% grey sulfides.
89 Hank	5101 Road "	(2m - 3m) 1.0m chip sample. 5.0% grey sulfides.
89 Hank	5102 Road "	(3m - 4m) 1.0m chip sample. 10% galena and sphalerite.
89 Hank	5103 Road "	(4m - 5m) 1.0m chip sample. Barite vein, 1.0% pyrite.
89 Hank	5104 Road "	(5m - 6m) 1.0m chip sample. Rock as above.
89 Hank	5105 Road "	(6m - 7.3m) 1.3m chip sample. Rock as above.
89 Hank	5106 Road "	(12.2m - 13m) 0.8m chip sample. 60%GN, 2.5%Ti-oxides 0.5% SP.
89 Hank	5107 Road "	(13m - 14m) 1.0m chip sample. 10%Ti-oxides, 5% GN+SP.
89 Hank	5108 Road "	(14m - 15m) 1.0m chip sample. 30% grey sulfides.
89 Hank	5109 Road "	(15m - 16m) 1.0m chip sample. 3.0% grey sulfides.
89 Hank	5110 Road "	3.0m chip sample perpendicular to above at 8.2cm. Light to pale grey altered andesite with 5.0% pyrite.
89 Hank	5111 Road "	2.0m chip sample perpendicular to above at 12 cm. Rock as above.
89 Hank	5112 Creek 5	1.0m chip sample across an outcrop of a quartz, barite vein stockwork, within a dark grey weathered, grey green fresh, coarse grained (tuff) agglomerate. Sample shows strong chloritization and contains 6% pyrite as stringers and blebs. Manganeses stain is present along fractures.
89 Hank	5113 Creek 4	Altered tuff with massive & stringer pyrite. May be incorporated within shear zone 15cm thick. Lenticular nodules of variable comp. with 2mm veinlets in places. Abundant py in overlying beds
89 Hank	5114 Creek 4	Carb-ser alt. material with relict lapilli.
89 Hank	5115 Creek 4	Maroon/green alt. material. Maroon portions more siliceous. <4% py.
89 Hank	5116 Creek 5 89-TR-1	1.0m grab sample, across grey clay altered outcrop hosting unaltered tuffaceous clasts and minor carbonate veins. NVM.
89 Hank	5117 Creek 5 89-TR-1	1.0m grab sample, across grey clay altered outcrop hosting unaltered tuffaceous clasts and to 75% mineralized carbonate veins (GN>PY>SP>CPY).
89 Hank	5118 Creek 6	Barite veining + abundant py-dissem+infilling vugs <1cm diam. Maroon siliceous laminae.

		Agglomerate associated with veining.
89 Hank	5119 Creek 6	1.0m chip sample across outcrop of a silicified unit with 5.0% pyrite and 1.0% grey sulfide.
89 Hank	5120 Creek 6	Gouge and altered tuffaceous unit. Chloritic with < 5% disseminated py.
89 Hank	5121 Creek 6	Float in creek base. Gr volcanic breccia with calcite matrix. Galena/py infilling vugs. Breccia clasts <0.5cm.
89 Hank	5122 Creek 7	2m down stream from "vein 2229" Disseminated galena/sp/py in altered volcanics.
89 Hank	5123 Site 6	Float. Galena/py/cp rich calcite/barite vein material. Same as Galena vein 2229 Creek 7.
89 Hank	5124 Creek 4 L1253N/607E	0.40m chip sample across outcrop of rusty purple weathered, white fresh Barite>Quartz>Calcite vein vein, sample contains <6% pyrite, minor limonite.
89 Hank	5125 Creek 4 L1250N/607E	1.0m chip sample perpendicular to rusty weathered white fresh, Barite>Quartz>Calcite vein, which is hosted by a silicified, strongly altered white tuff(?). Sample contains <3% pyrite, <1% galena, minor malachite.
89 Hank	5126 Creek 4 L1243N/606E	Grab sample from outcrop of rusty weathered, white fresh, very strongly silicified, altered tuff(?). Sample contains <4% pyrite as blebs and along fractures, <1.5% galena as blebs. Minor carbonate as "blasts".
89 Hank	5127 Creek 4 North bank.	Grab sample from outcrop located approx. 5m, down cliff face. Sample is 0.04m wide quartz veinlet, rusty weathered and white fresh, within silicified/altered tuff(?). Sample contains 5% pyrite, 10% limonite and <1% grey sulfide.
89 Hank	5128 Creek 4 North bank.	Grab sample from rubble, of rusty weathered, white/grey fresh, quartz>barite>calcite vein with up to 6% pyrite, 6% limonite and , <2% grey sulfide.
89 Hank	5129 Creek 4 North bank.	1.00m chip sample across rusty weathered, white grey fresh, 0.40m wide barite vein, within altered tuff(?) host. Sample is barite>quartz>calcite with abundant limonite, <2% pyrite and <2% grey sulfide.
89 Hank	5130 Creek 4 North bank.	Grab sample from outcrop of 0.10m wide quartz>calcite>barite bleb, within altered tuffaceous(?) host. Sample contains <4% pyrite and <3% galena as blebs.
89 Hank	5131 Creek 3 L1009N 498E	0.40m chip sample across rusty, black weathered, white (?) fresh, errosive, altered(?) or sheared(?) tuff. Sample contains <20% limonite, <2% pyrite and abundant carbonate as massive "blebs" to 0.5cm.
89 Hank	5132 Creek 3 L1010N 498E	2.00m chip sample across buff, brown weathered, boulder conglomerate, with rusty weathered matrix. Boulders consist of light green fresh, fine grained unaltered tuffaceous material with <2% pyrite/limonite.
89 Hank	5133 Creek3 L1015N 500E	1.50m chip sample across black weathered, grey fresh, fine grained tuff with <2% pyrite and limonite.
89 Hank	5134 Creek 3 L1015N 605E	Grab sample from outcrop of 15cm to 20cm wide calcite, quartz vein hosted by altered tuffs. Sample contains approximately 6% pyrite, 3% malachite, 1% azurite, 1% chalcopyrite, 1% galena and up to 10% limonite.
89 Hank	5135 Upr Grid *L2000N/1725E, road cut	Grab. Road cut/trench, grey/white clay with weathered felsite?
89 Hank	5136 Upr Grid Road cut	2.7m chip. Clay, abundant clasts of rusty weathered gy-brown silicified felsite? Abundant limonite, minor cherty fragments
89 Hank	5137 Upr Grid	Grab. Cherty zone along road cut. <2% py, <6% limonite.

		Road cut	
89 Hank	5138	Upr Grid	1m chip in clay zone. Leached limonite, minimal chert clasts
		Road cut	
89 Hank	5139	Upr Grid	Grab. Clay, 35% limonite seams, 3% chert clasts, <3% py.
		Road cut	
89 Hank	5140	Upr Grid	3m chip. 80% dacite, rusty weathered light gy, Dark gy
"L2100N/1800E cat road			when fresh, <1% py.
89 Hank	5141	Upr Grid	Grab. rusty weathered grey fresh O/C. <2% py, cherty.
		Cat road	
89 Hank	5142	Upr Grid	Grab. Felsite, fine/med grained, porphroblastic, siliceous,
		Cat road	2% py disseminated.
89 Hank	5143	Upr Grid	Grab. Breccia with flow type banding, white/buff, light gy when
		Cat road	fresh, fine/coarse grained, <4% hem staining, <1% py as
			fracture filling, Up to 10% chert in outcrop.
89 Hank	5144	Upr Grid	Grab. Dark brn/dk gy fine grained tuff. <3% hem, <4% py.
L2400N/1700E			
89 Hank	5145	Upr Grid	Grab. Rusty weathered maroon, silicified tuff, fine/med grained
L2435N/1910E			Clasts <1cm diam. Debris flow type unit (medial). <5% py dis'm
89 Hank	5146	Upr Grid	30 cm chip. Gy weathered limonitic gouge? with fine grained
L2050N/2115E			clasts of grey/blue aphanitic tuff
89 Hank	5147	Upr Grid	Grab. Brown/buff pink rusty, fine grained siliceous altered
L2100N/2153E			andesitic tuff?
89 Hank	5148	no sample	
89 Hank	5149	no sample	
89 Hank	5150	Creek 8	Float. Carbonate/barite veining. Py/Gn in vugs.
			Barite is last stage infill in centre of vein.
89 Hank	5151	Creek 8	Carb/barite veining in shear zone. Gy siliceous alt.
			Siliceous zones contain abundant Rx py. Cubes <2-3mm.
89 Hank	5152	Creek 8	Similar mineral assemblage to above with Gn/sp in vugs.
89 Hank	5153	Creek 8	Float. Veining with pinkish tinge. Spotty Gn/py/Cp
89 Hank	5154	Creek 8	Float composite. Massive Cp trace Gn/Malachite/azurite
			in well formed calcite crys. Prob. pressure soln seam.
89 Hank	5155	Creek 8	Float composite. Massive Gn in calcite. Same zone as above
89 Hank	5156	Creek 8	O/C. Gn/rodocrosite in white alt.
89 Hank	5157	Creek 9	Float. Carbonate/calcite vein material in gy/gr altered volanic
			Abundant py in vugs within calcite. May be some CP included.
89 Hank	5158	Creek 5	2m trench sample. Highly altered, whiteish grey, 5-10% py,
			few calcite veinlets, some py stringers.
			Trenched down 4m from surface.
89 Hank	5159	Creek 5	As above @ 2m interval.
89 Hank	5160	Creek 5	As above @ 2m interval.
89 Hank	5161	Creek 5	As above @ 2m interval.
89 Hank	5162	Creek 5	As above @ 2m interval.
89 Hank	5163	Creek 5	As above @ 2m interval.
89 Hank	5164	Creek 5	As above @ 2m interval.
89 Hank	5165	Creek 5	As above @ 2m interval.
89 Hank	5166	Creek 5	As above @ 2m interval.
89 Hank	5167	Creek 5	As above @ 2m interval.
89 Hank	5168	Creek 5	As above @ 2m interval.
89 Hank	5169	Creek 5	As above @ 2m interval.
89 Hank	5170	Creek 5	As above @ 2m interval.

APPENDIX IIIb

ANALYTICAL DATA FOR ROCK SAMPLES

Rock sample geochemistry project 89-BC-019. HANK claims.

Sample ID	ppb Au	GMT Au	GMT Ag	ppm Ag	ppm As	ppm Cd	ppm Cu	pct Fe	ppm Mn	ppm Mo	ppm Ni	ppm Pb	pct Pb	ppm Sb	ppm Zn	pct Zn	ppb Hg
89 HANK 5001	38			0.8	75	-1	71	5.64	1196	2	15	16		-5	32		25
89 HANK 5002	41			1.7	86	2	185	5.97	1130	2	18	43		-5	107		40
89 HANK 5003	13			0.7	31	2	82	5.25	1119	2	17	40		-5	86		60
89 HANK 5004	25			1.4	21	-1	113	3.86	2847	-1	5	12		15	15		80
89 HANK 5005	2			-0.2	-5	1	4	3.05	1156	-1	2	-2		-5	83		5
89 HANK 5006	3			-0.2	10	-1	8	3.67	1531	-1	1	-2		-5	98		25
89 HANK 5007	25			0.6	20	1	9	4.97	1747	5	3	-2		-5	109		15
89 HANK 5008	41			0.2	41	-1	11	4.32	1974	-1	2	-2		-5	60		25
89 HANK 5009	132			0.4	38	1	3	3.84	3021	-1	4	-2		-5	30		30
89 HANK 5010	70			0.6	30	-1	6	0.98	28	-1	2	20		-5	18		15
89 HANK 5011	23			0.4	43	-1	52	6.96	1427	3	12	-2		-5	93		15
89 HANK 5012	21			0.2	26	-1	13	4.12	1221	-1	2	-2		-5	82		40
89 HANK 5013	1			-0.2	24	-1	14	5.8	1150	2	-1	-2		-5	100		10
89 HANK 5014	-1			-0.2	19	-1	17	5.97	1211	2	1	16		-5	93		10
89 HANK 5015	31			0.3	63	-1	12	3.77	1568	1	2	28		-5	190		40
89 HANK 5016	75			2.5	119	-1	33	4.88	254	1	1	69		-5	108		55
89 HANK 5017	7			0.3	30	-1	8	3.55	1193	-1	2	34		-5	82		10
89 HANK 5018	-1			-0.2	15	2	49	5.71	1100	2	9	-2		-5	72		10
89 HANK 5019	1			-0.2	-5	3	68	7.69	1177	1	15	-2		-5	80		5
89 HANK 5020	-1			-0.2	10	2	4	3.67	1359	1	4	-2		-5	65		15
89 HANK 5021	98			1.6	80	-1	50	6.33	420	3	6	-2		-5	50		30
89 HANK 5022	10			0.3	24	2	61	6.54	476	3	18	-2		-5	62		20
89 HANK 5023	5			0.5	44	-1	38	6.38	24	2	2	100		-5	102		125
89 HANK 5024	51			0.6	177	7	60	2.56	1123	1	3	631		-5	837		30
89 HANK 5025	-1			0.3	7	2	54	4.94	1745	-1	13	6		-5	104		30
89 HANK 5026	247	0.31		1.3	24	-1	5	0.55	31	-1	2	734		-5	36		105
89 HANK 5027	13			0.2	30	1	13	4.84	483	2	3	13		-5	60		25
89 HANK 5028	24			0.2	35	2	15	5.05	328	1	4	12		-5	53		20
89 HANK 5029	20			0.2	82	-1	41	4.39	826	2	13	5		-5	47		60
89 HANK 5030	15			0.9	68	1	16	4.79	42	2	2	106		-5	46		50
89 HANK 5031	5			-0.2	30	-1	24	6.08	686	1	-1	40		-5	119		30
89 HANK 5032	45			0.7	38	-1	13	4.3	398	2	3	16		-5	59		20
89 HANK 5033	54			0.4	57	-1	61	5.22	1340	-1	7	9		-5	129		20
89 HANK 5034	2180	2.95		40.5	68	13	146	6.07	1104	4	10	679		-5	1525		220
89 HANK 5035	96			1.1	22	3	19	4.71	1103	2	14	175		-5	326		100
89 HANK 5036	98			1	22	2	17	4.69	1449	3	10	115		-5	240		80
89 HANK 5037	79			1.1	14	2	25	4.29	1233	2	29	98		-5	279		75
89 HANK 5038	1			0.2	-5	-1	9	4.86	2738	2	-1	-2		-5	92		30
89 HANK 5039	19			0.3	-5	-1	162	5.98	847	3	20	-2		-5	117		35
89 HANK 5040	1021	0.96		7.5	340	-1	500	2.1	5736	-1	3	18		11	58		295
89 HANK 5041	2721	2.71	100.8	50	185	92	3180	0.53	11774	-1	-1	4084		1940	11128		5000
89 HANK 5042	1424	1.54	34.29	50	62	1	463	2.99	2176	-1	4	87		268	143		295
89 HANK 5043	107			0.7	73	-1	18	3.21	3507	2	1	14		-5	101		130
89 HANK 5044	292	0.31		1.7	522	4	338	10	697	13	31	57		-5	236		55
89 HANK 5045	16			0.7	28	2	98	4.32	1674	1	15	-2		-5	178		55
89 HANK 5046	510	0.45		7.7	1259	-1	35	10	310	4	12	53		36	20		1100
89HANK 5047	31			0.3	-5	-1	122	4.43	943	3	17	-2		-5	101		45
89HANK 5048	19			0.4	-5	-1	63	4.35	877	2	18	17		-5	82		35
89HANK 5049	1			0.2	-5	-1	63	4.4	1022	3	22	-2		-5	86		35
89HANK 5050	-1			0.2	-5	1	98	7.54	1519	3	13	-2		-5	118		65
89HANK 5051	-1			-0.2	-5	1	83	7.3	1591	3	12	-2		-5	107		40
89HANK 5052	4			-0.2	-5	1	19	7.47	1530	3	10	-2		-5	108		50
89HANK 5053	5			-0.2	-5	1	63	7.43	1361	3	12	-2		-5	97		30
89HANK 5054	598	0.75		1.9	330	1	56	5.69	253	3	-1	22		-5	40		310

Rock sample geochemistry project 89-BC-019. HANK claims.

Sample ID	ppb Au	GMT Au	GMT Ag	ppm Ag	ppm As	ppm Cd	ppm Cu	pct Fe	ppm Mn	ppm Mo	ppm Ni	ppm Pb	pct Pb	ppm Sb	ppm Zn	pct Zn	ppb Hg
89HANK 5055	30			0.6	20	-1	103	6.63	1532	3	11	-2		-5	113		60
89HANK 5056	168	0.17		1.2	322	-1	60	5.06	340	3	3	11		11	59		170
89HANK 5057	92			0.7	85	-1	19	4.6	81	2	1	107		-5	43		60
89HANK 5058	73			0.5	37	-1	93	7.93	150	3	2	5		-5	68		40
89HANK 5059	413	0.51		0.3	15	-1	81	6.77	382	2	3	-2		-5	88		30
89HANK 5060	137			0.5	-5	-1	64	7.57	685	3	5	-2		-5	88		50
89HANK 5061	140			1	34	-1	96	8.58	347	3	3	-2		-5	73		40
89HANK 5062	315	0.34		1.2	162	-1	114	10	373	4	3	57		-5	126		40
89HANK 5063	163	0.17		0.7	51	-1	88	8.95	509	3	3	145		-5	141		45
89HANK 5064	98			0.5	20	-1	100	6.91	761	3	2	36		-5	111		40
89HANK 5065	39			0.4	33	-1	115	7.32	1029	3	5	19		-5	127		30
89HANK 5066	39			0.3	35	-1	106	6.88	1062	2	4	11		-5	133		30
89HANK 5067	37			0.2	16	1	73	6.61	1285	2	9	25		-5	223		30
89HANK 5068	17			0.2	-5	2	124	6.23	1473	3	10	7		-5	243		25
89HANK 5069	51			0.4	7	-1	58	6.65	618	4	3	10		-5	127		30
89HANK 5070	3			0.3	-5	-1	211	8.49	2394	6	26	21		-5	159		50
89HANK 5071	3			0.2	-5	-1	144	6.51	2416	4	23	30		-5	141		40
89HANK 5072	6			0.3	-5	-1	93	6.35	1761	3	18	13		-5	120		35
89HANK 5073	26			1	35	-1	113	7.47	1778	4	16	38		-5	130		75
89HANK 5074	33			1.4	61	-1	76	5.84	1230	4	13	51		-5	85		125
89HANK 5075	52			1.2	145	-1	115	10	1094	7	22	42		10	103		30
89HANK 5076	47			1.8	94	-1	45	7.68	121	3	8	89		6	138		80
89HANK 5077	8			0.4	34	3	40	6.39	2845	3	22	150		-5	386		60
89HANK 5078	4			0.6	31	2	104	7.43	3429	3	23	43		-5	307		75
89HANK 5079	83			0.6	94	3	221	4.28	1520	2	18	96		-5	314		70
89HANK 5080	2			-0.2	8	-1	12	3.52	69	3	-1	10		-5	10		1600
89HANK 5081	-1			-0.2	9	-1	3	2.35	12	1	1	-2		-5	4		1250
89HANK 5082	23			-0.2	211	-1	28	5.67	31	18	-1	60		14	3		2100
89HANK 5083	338	0.38		6.1	283	2	131	7.18	511	3	4	577		8	248		190
89HANK 5084	30			0.8	51	-1	99	5.53	358	3	2	146		-5	93		100
89HANK 5085	44			1.1	39	-1	153	8.13	580	3	6	38		-5	125		65
89HANK 5086	16			0.7	18	-1	102	8.18	167	4	2	82		-5	99		50
89HANK 5087	368	0.41		3.2	209	-1	119	7.77	801	4	2	1064		8	100		140
89HANK 5088	198	0.21		1.3	82	-1	71	6.38	189	3	2	70		-5	65		100
89HANK 5089	131			1.1	126	-1	79	5.76	579	3	5	64		-5	101		50
89HANK 5090	440	0.48		2.3	519	2	182	7.41	519	3	6	54		8	113		110
89HANK 5091	97			1.1	108	-1	111	7.9	1053	3	16	64		-5	95		60
89HANK 5092	5110	4.73	77.8	50	215	193	1952	2.67	368	1	2	8553		1250	18231		4000
89HANK 5093	10000	45.02	613.4	50	300	344	3827	3.14	532	-1	-1	10000	1.66	2000	20000	3.44	5000
89HANK 5094	1500	0.75		13.3	21	9	159	6.61	170	3	8	527		46	961		300
89HANK 5095	787	0.75		10.8	66	5	68	6.96	132	3	7	445		30	491		180
89HANK 5096	10000	39.36	849.9	50	55	351	2417	9.96	370	3	9	10000	3.6	152	20000	4.53	3650
89HANK 5097	299	0.34		14.4	118	144	782	8.32	625	2	10	10000	0.94	42	15618		600
89HANK 5098	670	0.69		27.4	15	171	512	5.07	573	1	7	10000	1.26	49	18657		400
89HANK 5099	2370	2.57		21.8	179	59	429	5.39	954	3	6	1281		93	6692		1550
89HANK 5100	4860	4.77	34.6	50	184	244	964	5.32	550	4	5	7851		104	20000	2.28	2700
89HANK 5101	8120	7.17	105.6	50	597	244	3511	6.5	667	3	-1	6465		218	20000	2.13	1800
89HANK 5102	10000	25.71	349.7	50	207	441	2831	3.3	910	3	-1	10000	1.59	1102	20000	4.04	3700
89HANK 5103	972	1.13		19.1	428	225	2672	6.98	1587	2	6	10000		1369	20000		270
89HANK 5104	1464	1.54		12.4	95	5	83	4.03	158	3	6	859		26	516		300
89HANK 5105	524	0.58		3.7	90	2	27	5.83	81	7	7	191		9	164		70
89HANK 5106	10000	36.86	541	50	438	228	2659	7.58	1624	3	3	10000	3.26	1408	20000	2.47	5000
89HANK 5107	9760	9.02	149.1	50	241	293	3384	5.35	798	3	11	10000	1.21	587	20000	3.36	5000
89HANK 5108	10000	10.87	223.5	50	230	590	6785	6.69	780	5	-1	10000	5.28	311	20000	6.01	5000

Rock sample geochemistry project 89-BC-019. HANK claims.

Sample ID	ppb Au	GMT Au	GMT Ag	ppm Ag	ppm As	ppm Cd	ppm Cu	pct Fe	ppm Mn	ppm Mo	ppm Ni	ppm Pb	pct Pb	ppm Sb	ppm Zn	pct Zn	ppb Hg
89HANK 5109	2750	3.09		49.2	176	325	2341	4.74	540	1	7	10000	1.32	147	20000	3.35	4700
89HANK 5110	267	0.31		2.6	89	5	110	5.25	644	3	8	341		9	559		170
89HANK 5111	306	0.34		2.9	148	2	158	4.83	237	4	7	203		12	260		65
89HANK 5112	446	0.62		2.6	46	2	85	1.61	189	2	12	170		5	381		165
89HANK 5113	21			2.5	48	1	47	5.91	1338	4	2	171		-5	138		10
89HANK 5114	38			0.8	13	-1	43	3.07	424	1	24	20		-5	28		40
89HANK 5115	1750	1.37		2.3	47	-1	7	2.84	29	-1	51	96		-5	38		90
89HANK 5116	188	0.21		4.2	64	23	72	5.87	2011	1	24	1349		6	2859		330
89HANK 5117	10000	18.24	323.7	50	114	1262	2951	8.34	3172	-1	-1	10000	5	372	20000	14.37	5000
89HANK 5118	95			1.9	118	5	135	4.47	551	2	17	202		-5	748		140
89HANK 5119	406	0.45		10.8	21	5	30	1.71	31	2	6	507		6	642		120
89HANK 5120	18			1.4	31	1	157	4.12	855	1	12	325		-5	186		15
89HANK 5121	2200	2.26	87.1	50	22	470	2700	2.22	6056	1	9	10000	1.13	188	20000	4.75	4500
89HANK 5122	1572	1.71		26.3	221	9	145	3.71	111	2	4	900		15	990		210
89HANK 5123	401	0.45		2.4	311	1	20	3.94	104	2	4	57		9	106		70
89HANK5124	980	0.96	48.7	50	338	-1	71	3.6	31	1	3	80		204	32		2600
89HANK5125	224	0.14	38.4	50	52	-1	15	0.46	16	-1	2	399		37	22		750
89HANK5126	89			37.2	62	4	62	1.95	161	-1	3	520		31	662		370
89HANK5127	2417	2.67		14.8	838	-1	29	1.61	1239	-1	4	129		16	59		120
89HANK5128	2422	2.74		21.5	2000	-1	31	1.33	550	-1	5	81		54	147		150
89HANK5129	4851	5.86		45	2000	-1	82	1.65	817	1	4	158		123	54		650
89HANK5130	685	0.62		5	158	14	90	1.33	77	1	3	1254		8	2065		220
89HANK5131	22			0.7	67	-1	4	2.76	271	1	2	14		-5	44		115
89HANK5132	24			0.4	51	-1	10	4.33	1580	1	2	-2		-5	96		60
89HANK5133	7			0.3	19	1	11	4.5	1684	2	1	-2		-5	98		70
89HANK5134	1414	1.68	323	50	123	95	3323	3.24	9155	2	1	8166		140	9299		2800
89HANK-5135	42			-0.2	36	-1	1	0.84	20	2	-1	26		7	7		180
89HANK-5136	19			-0.2	-5	-1	16	5.83	4313	6	-1	12		10	210		90
89HANK-5137	121			0.6	-5	-1	9	1.33	43	2	4	23		17	16		1600
89HANK-5138	13			-0.2	298	2	6	10	32	27	-1	-2		-5	-1		70
89HANK-5139	399	0.41		0.5	15	-1	21	5.7	24	213	-1	41		17	56		190
89HANK 5140	15			-0.2	-5	-1	9	1.14	24	4	1	18		-5	5		3700
89HANK 5141	12			-0.2	11	-1	9	1.51	17	6	2	17		-5	3		3700
89HANK 5142	12			-0.2	5	-1	11	1.3	9	4	1	4		-5	14		1500
89HANK 5143	7			-0.2	-5	-1	5	0.69	26	6	5	5		-5	1		220
89HANK 5144	-1			-0.2	-5	-1	10	5.89	2116	2	-1	-2		-5	89		100
89HANK 5145	-1			-0.2	-5	-1	14	4.76	213	3	-1	-2		-5	26		1500
89HANK 5146	72			-0.2	98	-1	6	1.49	39	4	2	148		18	3		5000
89HANK 5147	4			-0.2	-5	-1	2	0.3	3	-1	-1	4		-5	5		2400
89HANK5150	223	0.21		7.3	23	17	42	0.89	65	-1	3	262		18	2322		115
89HANK5151	588	0.51		2.7	120	16	35	3.51	328	1	5	172		8	2190		190
89HANK5152	635	0.55		10.4	55	143	184	1.79	137	-1	4	503		60	18198		1350
89HANK5153	2154	2.13		29.3	216	31	1021	4.8	287	2	5	10000	2.13	22	3583		300
89HANK5154	2000	0.89		13.5	70	237	11647	4.91	2354	-1	5	5523		-5	20000	3.16	700
89HANK5155	795	0.75	60.7	50	57	790	1359	3.49	1856	-1	3	10000	4.8	163	20000	10.11	2050
89HANK5156	463	1.44		36.4	54	9	6249	2.72	510	49	2	10000	1.32	7	913		190
89HANK-5157	193	0.27		1.2	121	-1	3	2.23	9593	2	-1	10		28	5		590
89HANK-5158	60			1	7	-1	11	6.74	1208	2	7	91		9	126		50
89HANK-5159	894	1.2		14.2	17	14	224	4.79	2340	1	10	1865		20	1668		290
89HANK-5160	102			2.2	18	13	95	3.31	1536	1	14	627		10	1573		310
89HANK-5161	1628	2.06	1.4	50	31	25	337	4.44	1811	2	14	2131		15	2895		540
89HANK-5162	137			3.2	23	10	68	2.5	972	1	19	226		10	1224		250
89HANK-5163	791	0.93		11.1	31	-1	2100	5.89	1001	1	6	164		8	83		70
89HANK-5164	79			1.1	-5	-1	54	3.93	848	1	10	28		-5	108		80

Rock sample geochemistry project 89-BC-019. HANK claims.

Sample ID	ppb Au	GMT Au	GMT Ag	ppm Ag	ppm As	ppm Cd	ppm Cu	pct Fe	ppm Mn	ppm Mo	ppm Ni	ppm Pb	pct Pb	ppm Sb	ppm Zn	pct Zn	ppb Hg
89HANK-5165	68			0.3	27	-1	13	4.96	920	1	6	2		-5	69		100
89HANK-5166	125			1.1	71	-1	25	7.44	710	2	8	9		6	79		60
89HANK-5167	25			0.2	-5	-1	96	6.84	854	2	10	-2		-5	68		55
89HANK-5168	16			-0.2	-5	-1	321	5.29	1275	1	7	-2		5	55		50
89HANK-5169	40			0.3	7	-1	47	6.44	1223	1	29	4		5	51		40
89HANK-5170	40			0.6	79	-1	79	7.6	1151	2	51	8		-5	69		30

APPENDIX IIIc

STATISTICAL DATA FOR ROCK SAMPLES

STATISTICAL TREATMENT OF DATA

Histograms were produced for each element. The number of intervals (K) in the data population was determined by using the following formula (Levinson, A.A., 1974: Introduction to Exploration Geochemistry, p. 563), which is valid for a population greater than 30.

$$K = 10\ (\log_{10} N)$$

K = Number of intervals
N = Number of samples

The interval width was found by dividing the largest value in the population (N) by the number of intervals (K)

$$\text{Intervals width} = \frac{\text{largest value in the population}}{K}$$

In all cases the results were statistically treated on the basis of a lognormal distribution. The mean (x) and the standard deviation (s) were calculated using the following formulas:

$$\text{mean } (x) = \frac{\Sigma x}{n}$$

n = Number of samples
Σx = Total of samples
Σx^2 = Sum of squares of samples

$$\text{standard deviation } (s) = \sqrt{\frac{\Sigma x^2 - n\,\bar{x}^2}{n}}$$

The threshold (t) was calculated as being equal to the mean (x) plus 2.5 times the standard deviation (s)

$$t = x + 2.5s$$

CORRELATION COEFFICIENTS

	Au	Ag	As	Pb	Cu	Zn	Sb
Au	1.000	0.003	-0.144	0.029	0.111	0.0002	-0.036
Ag		1.000	-0.322	0.275	0.187	0.450	0.017
As			1.000	0.127	-0.209	-0.008	0.358
Pb				1.000	0.317	0.371	-0.028
Cu					1.000	0.111	-0.057
Zn						1.000	0.291
Sb							1.000

Rating:					
		0.000	to	(+/-) 0.300	Weak
	(+/-)	0.301	to	(+/-) 0.550	Slight
	(+/-)	0.551	to	(+/-) 0.800	Moderate
	(+/-)	0.801	to	(+/-) 1.000	Strong

SQUARES OF CORRELATION COEFFICIENTS
(To express the interaction in percentile)

	Au	Ag	As	Pb	Cu	Zn	Sb
Au	100.0	0.00	2.00	0.08	1.20	0.00	0.10
Ag		100.0	10.30	7.50	3.40	20.20	0.02
As			100.0	1.60	4.30	0.00	12.80
Pb				100.0	10.00	13.70	0.07
Cu					100.0	1.20	0.30
Zn						100.0	8.40
Sb							100.0

Rating:			
	0.0%	to 9.0%	Weak
	9.1%	to 30.2%	Slight
	30.3%	to 64.0%	Moderate
	64.0%	to 100.0%	Strong

file: ROCK

COMMAND: CORR MISSING VALUE TREATMENT: PAIRWISE

(NUMBER OF VALID CASES APPEARS UNDER COEFFICIENT)

*** CORRELATION MATRIX ***

VARIABLES:							
1 AU_PPB	1.00000						
2 AG	0.72055	1.00000					
	162						
3 AS	0.42402	0.30182	1.00000				
	162	168					
4 CU	0.44368	0.55861	0.08220	1.00000			
	162	168	168				
5 PB	0.72655	0.66379	0.09125	0.63213	1.00000		
	153	153	153	153			
6 ZN	0.26764	0.31436	-0.01060	0.23982	0.52333	1.00000	
	150	150	150	150	148		
7 HG	0.44116	0.60654	0.08843	0.38540	0.51863	0.22874	1.00000
	161	164	164	164	153	150	
	1 AU_PPB	2 AG	3 AS	4 CU	5 PB	6 ZN	7 HG

file: ROCK

COMMAND: DESC MISSING VALUE TREATMENT: VARWISE

*** DESCRIPTIVE STATISTICS ***

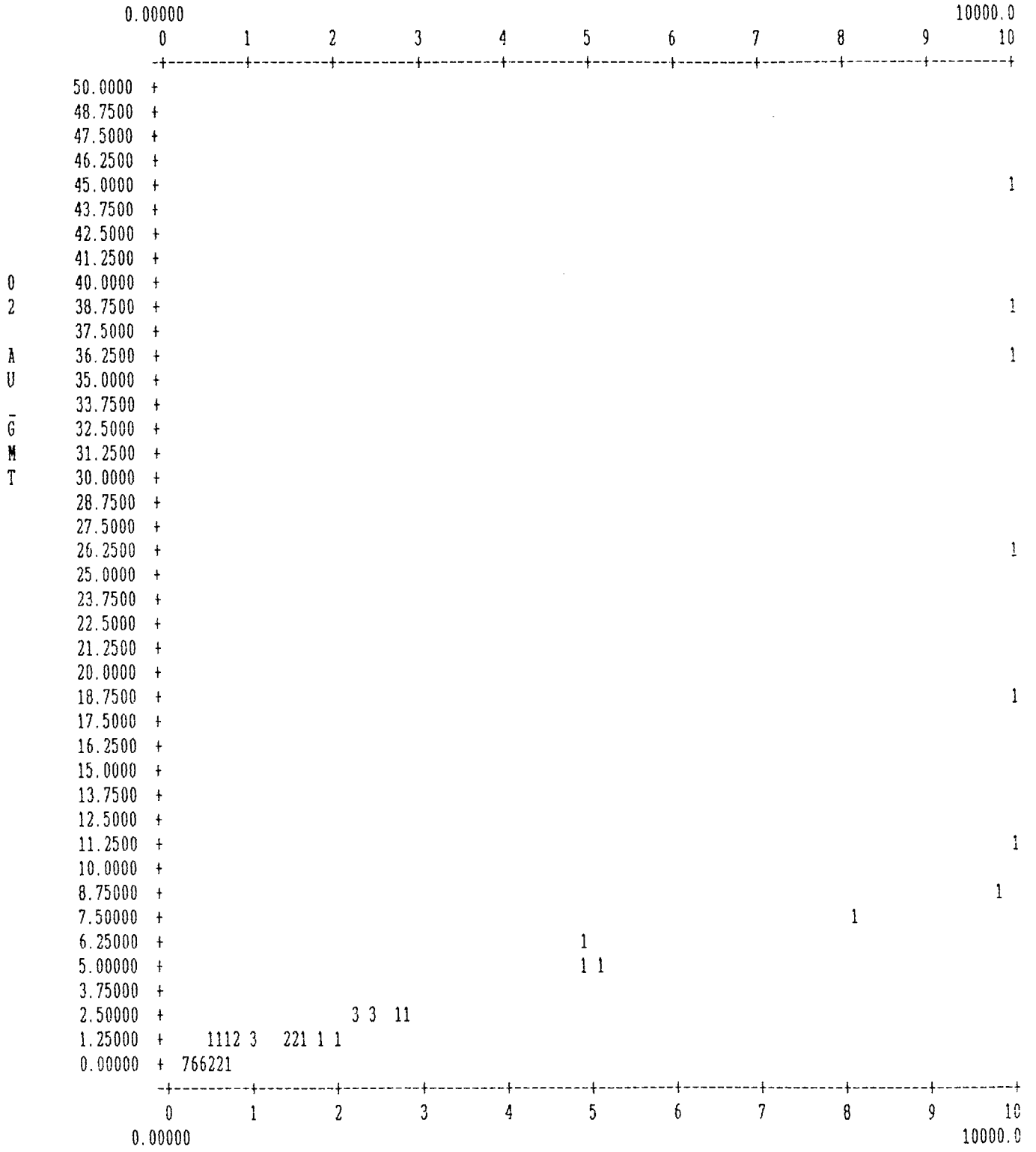
THERE ARE 7 VARIABLES AND 172 CASES IN THE DATA SET

VARIABLE	VALID CASES	NUMBER MISSING	% MISSING
1 AU_PPB	162	10	5.8
2 AG	168	4	2.3
3 AS	168	4	2.3
4 CU	168	4	2.3
5 PB	153	19	11.0
6 ZN	150	22	12.8
7 HG	164	8	4.7

VARIABLE	MEAN	STD.DEV.	VARIANCE	STD ERROR OF MEAN	COEFF OF VARIATION
1 AU_PPB	530.333	1287.29	1657117	101.139	242.732
2 AG	8.96845	16.5782	274.836	1.27903	184.850
3 AS	115.071	258.122	66627.0	19.9145	224.315
4 CU	477.714	1354.40	1834395	104.494	283.516
5 PB	416.817	1367.05	1868827	110.519	327.974
6 ZN	507.420	1803.06	3251032	147.219	355.339
7 HG	530.854	1114.05	1241114	86.9929	209.861

file: AUROCK

COMMAND: PLOT MISSING VALUE TREATMENT: LISTWISE



TOTAL POINTS PLOTTED:58 1 AU_PPB

```
file:   STROCK


COMMAND: HIST      MISSING VALUE TREATMENT: VARWISE

VARIABLE:   1 AU         AUTO/22

AT LEAST       1.00000            10          20          30          40          50          60          70          80
BUT NOT OVER:  FREQ     %   +-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+
     444.591    115  75.7  IXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
     888.182     12   7.9  IXXXXXXXXXX
     1331.77      4   2.6  IXXX
     1775.36      7   4.6  IXXXXXX
     2218.95      4   2.6  IXXX
     2662.55      3   2.0  IXX
     3106.14      2   1.3  IXX
     3549.73      0  00.0  I
     3993.32      0  00.0  I
     4436.91      0  00.0  I
     4880.50      2   1.3  IXX
     5324.09      1   0.7  IX
     5767.68      0  00.0  I
     6211.27      0  00.0  I
     6654.86      0  00.0  I
     7098.45      0  00.0  I
     7542.05      0  00.0  I
     7985.64      0  00.0  I
     8429.23      1   0.7  IX
     8872.82      0  00.0  I
     9316.41      0  00.0  I
     9760.00      1   0.7  IX
                           +-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+
       TOTAL    152 100.0             10          20          30          40          50          60          70          80
```

APPENDIX IIId

THIN SECTION DESCRIPTIONS FOR ROCK SAMPLES

Vancouver Petrographics Ltd.

JAMES VINNELL, Manager
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Report for: Robert Brown,
Lac Minerals Ltd.,
1050-1055 West Hastins St.,
Vancouver, B.C.
V6E 2E9

Invoice 8613

November 17th, 1989

Samples:

9 rock samples for sectioning and petrographic examination.

The samples come from 4 sites, and are arbitrarily designated A, B, C etc. in each case. They are distinguished as follows:

89R-61	A	Diatreme
89R-61	B	Diatreme
89R-61	C	Diatreme
89R-61	D	Diatreme
89R-62	A	Red felsite
89R-62	B	Grey felsite
89R-63		Cherty knoll
89R-64	A	Cherty knoll ("Big Knob")
89R-64	B	Andesitic host rock

Summary:

Except for 89R-64-B, which is recognizable as a partially altered, abundantly porphryritic andesite, the rocks of this suite are all intensely altered, and contain virtually no recognizable primary minerals.

The relict textures are clearly those of glassy volcanic and/or derived fragmentals. No remnant quartz phenocrysts are recognizable, suggesting that the original rocks may have been andesitic rather than rhyolitic or dacitic in composition. The lack of secondary mafic products like chlorite indicates a leucocratic primary character.

The rocks now consist of cryptocrystalline altered glass, cherty silica and felted kaolinite, in various proportions and modes of intergrowth (pseudomorphing primary vitric, fragmental and porphyritic textures).

X-ray diffraction scans were run on a number of the apparent multi-phase samples. Compositions in all cases were indicated as quartz (cherty silicification) and kaolinite (from alteration of feldspars) - except in 62B, where quartz is apparently absent. Residual non-crystalline material (glass) does not yield an XRD response.

Based on textural observations, the samples from 89R-61 are altered glassy fragmentals (possibly tuffs or diatreme breccias), except for Sample C which is a chert - possibly representing complete silicification of a volcanic or tuff. Samples A and D contain recognizable altered biotite flakes.

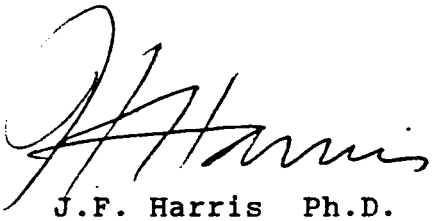
The samples from 89R-62 are porphyritic rather than fragmental in texture. One of them contains minor accessory barite associated with kaolinized pseudomorphs.

The single sample from 89R-63 is a cherty, intensely silicified rock - probably of fragmental or porphyritic origin, like the others. It contains barite as a trace accessory.

The cherty sample from 89R-64 shows crackle-type microbrecciation. Relict primary textures are absent.

The style and intensity of alteration (to fine-grained silica, kaolinite, minor barite and pyrite) exhibited by these rocks of glassy volcanic and fragmental affinities appears typical of a high-level epithermal system.

Individual petrographic descriptions are attached.



J.F. Harris Ph.D.

(929-5867)

SAMPLE 89-R-61-A ALTERED GLASSY FRAGMENTAL

This rock is a heterogenous, streaky/fragmental melange of unidentifiable cryptocrystalline material.

In thin section it is seen to include streaky, brownish/opaque zones showing flow banding, sometimes apparently highly contorted; similar material also forms angular, elongate fragments to 5mm or more.

The majority of the rock consists of a cryptocrystalline to minutely felsitic material which is probably altered glass. This contains more or less abundant, sub-prismatic and diffuse ovoid bodies, 0.2 - 2.0mm in size, of slightly better crystallized material - sometimes recognizable as cherty silica, and sometimes apparently clays. Some of these features may represent original feldspar phenocrysts.

Occasional ghost relics of original biotite flakes are seen, now represented by lamellar masses of leucoxene.

XRD analysis yields strong peaks of kaolinite and quartz, and very minor peaks of biotite and possible montmorillonite.

SAMPLE 89R-61-B ALTERED GLASSY FRAGMENTAL

This rock is of similar general appearance to 61A in thin section, consisting of cryptocrystalline, streaky/pellety or flecked, brownish material - clearly representing altered glass.

It lacks the zones of strongly developed flow banding seen in 61A, and (best observed macroscopically in the thin section) contains abundant, clearly defined, sub-angular fragments, 0.2 - 10mm or more in size. It is somewhat vesicular.

These clasts are found, in thin section, to be composed of minutely cherty/siliceous material (of grain size 2 - 20 microns). A few of the smaller ones (possibly pseudomorphs of feldspar crystals) are composed of compact aggregates of probable clays.

The rock contains traces of very fine-grained pyrite - generally as more or less dense disseminations in certain clasts.

XRD sanalysis yields a pattern consisting of strong peaks for quartz and minor peaks of kaolinite.

This sample appears to be a breccia or coarse tuff of altered glassy volcanic material.

SAMPLE 89R-61-C CHERT (SILICIFIED VOLCANIC)

This rock is of very different appearance in thin section to the previous two samples from 89R-61.

It consists of a featureless anhedral/interlocking aggregate of chert, showing diffuse patchy variations in grain size. Much of it is in the grain size range 2 - 5 microns, varying up to 20 microns or so. Rare, pockety segregtions of microgranular quartz, of grain size 20 - 100 microns, are also seen.

Locally the patches of different grain size show sub-prismatic shapes, and may represent original phenocrysts or fragments in a totally silicified volcanic. This feature is best observed under low magnification in the off-cut block, where the different grain sizes of chert show varying degrees of whitish etch.

The only other component is minutely fine-grained, disseminated, opaque material, occurring as clusters of ragged granules, 10 - 50 microns in size. These show no crystal form and, in fact, appear to be "fluffy" aggregates of micron-sized dust (sulfides? carbon?). The opaque granules partly concentrate as small patches or clumps - clearly favouring areas of the most minutely fine-grained chert.

SAMPLE 89R-61-D **ALTERED TUFF**

This is a rock of somewhat similar macroscopic appearance to 61A and B - though less coarsely fragmental.

In thin section, it is seen to be composed of minutely felsitic/ cryptocrystalline material (probably weakly devitrified siliceous glass). Sub-prismatic pseudomorphs - 0.1 - 1.0mm in size and composed of colourless to brownish felted material, which appears to be compact clay - are abundant. These mainly look like totally altered feldspar crystals - sometimes showing preferred orientation suggestive of flow. In some cases, however, they show relict streaky vitric textures indicative of their being glassy lithic fragments.

Leucoxenized relict biotite flakes (as in 61A) are a notable trace constituent. There are also some irregular to sub-prismatic patches of compact leucoxene.

Disseminated pyrite is relatively abundant. It occurs as compact clumps of micron-sized granules, only rarely showing typical cubic form (as rare grains to 0.1mm). The pyrite tends to form irregular clusters, often associated with altered biotite and leucoxene.

The X-ray diffraction pattern yielded by this sample is a simple combination of strong peaks of kaolinite and quartz.

This rock appears to be a tuff of argillized crystals and glassy clasts in a siliceous glassy matrix.

SAMPLE 89R-62-A ALTERED PORPHYRITIC VOLCANIC

This is another totally altered rock showing abundant, patchy, crypto-fragmental or pseudomorphic forms (clearly visible in low-power examination of the etched off-cut).

In thin section, these are found to be predominantly of sharply prismatic form and to range in size from 0.1 - 2.0mm. They are mostly composed of brownish felted material (having the appearance of clay), sometimes with intergrown cherty to microgranular quartz. Small patches of barite are a notable minor constituent in some of the pseudomorphs.

Irregular patches and lamellar relics (after biotite) of leucoxene are also rather common, and the rock contains minutely fine-grained disseminated pyrite (as described in 61-D).

The altered pseudomorphs are set in a cherty/felsitic matrix. Some irregular/amoeboid patches of the brown clay have the appearance of amygdules.

XRD analysis gives a pattern essentially identical to that of previous rocks of the suite, indicative of a mixture of kaolinite and quartz.

The fabric of this rock is dominated by geometric forms which are clearly crystal pseudomorphs. Lithic clasts are not evident. It appears to be a totally altered porphyry.

SAMPLE 89R-62-B ALTERED PORPHYRITIC VOLCANIC

This rock consists predominantly of a homogenous, minutely felsitic/ cryptocrystalline matrix, with rather sparse, ill-defined, sub-prismatic forms, 0.2 - 2.0mm in size, pseudomorphous after original phenocrysts.

The matrix appears to be composed predominantly of compact clays (probably representing altered glass) - probably with accessory proportions of intergrown chlorite, leucoxene and cherty silica.

The pseudomorphs are of similar composition except that they lack the darker sub-opaque components (chlorite/leucoxene) and the grain size of the constituent aggregate is slightly coarser (5 - 50 microns) compared to that of the matrix (1 - 10 microns).

This rock is also distinguished by rather high content of disseminated pyrite. This occurs as coalescent clusters of minute granules, 2 - 10 microns in size, with some more distinct individual grains up to 100 microns. The distribution of the pyrite clusters appears random, and is independent of the pseudomorphed porphyritic texture (i.e. pyrite occurs both in the matrix and the pseudomorphs, or extends across contacts from one to the other).

XRD analysis yields strong peaks of kaolinite. Quartz peaks are notably absent.

This rock appears to be an altered (intensely kaolinized) porphyritic volcanic.

SAMPLE 89R-63 CHERT (SILICIFIED VOLCANIC)

This rock is a chert composed essentially of microcrystalline silica, of grain size 2 - 50 microns. It shows diffuse patchy, pockety and veniform development of the coarser grain sizes, in a predominant, minutely fine-grained matrix.

Barite is a minor accessory, as small, randomly disseminated granular clumps and thread-like veinlets of subhedral crystals, 0.1 - 1.0mm in size. The larger of these tend to occur in the areas of slightly better-crystallized chert.

Another accessory is a clay mineral (or possibly compact, minutely felted sericite), occurring as a few irregular patches up to 2mm or more in size. The clay component is occasionally seen associated with the barite, but is mostly independent.

Minor proportions of micron-sized, disseminated, brown sub-opaque material, and possibly a little pyrite, are the remaining components.

Macroscopic examination of the cut-off block shows ill-defined, angular, patchy features which suggest that this rock is of secondary origin - i.e. a totally silicified fragmental or porphyritic volcanic (similar to 61-C).

SAMPLE 89R-64-A **CHERT**

This rock has the macroscopic appearance of a silicified crackle breccia or micro-stockwork.

In thin section, it is found to be composed essentially of monomineralic chert, of grain size 5 - 20 microns. This shows patchy/pockety variations to coarser and finer grain sizes, and is cut by a network of microfractures and hairline veinlets - again defined by coarser or finer grain size in the chert.

The only other component is a trace of micron-sized opaques ($<$ 1-5 microns in size), which occur as diffuse dusty patches and veniform segregations.

SAMPLE 89R-64-B ALTERED PORPHYRITIC ANDESITE

Estimated mode

Phenocrysts	
Plagioclase	30
Sericite	18
Clays)	5
Epidote)	
Chlorite	5
Opaques	8
Groundmass	
Plagioclase	25
Chlorite	5
Sericite	5
Rutile)	1
Leucoxene)	

This sample is the only one of the suite where positive optical identification of the constituent minerals and estimation of their relative proportions are possible.

Though quite strongly altered, it is readily recognizable as an abundantly porphyritic volcanic of andesitic composition - possibly of minor intrusive (dyke rock) character.

Phenocrysts, 0.1 - 1.0mm in size, are of stumpy, euhedral/prismatic form, and are randomly oriented. They consist predominantly of plagioclase, showing rather strong pervasive alteration to fine-grained sericite and minor saussuritic products (clays, cryptocrystalline epidote).

There is also a component of what are probably totally altered mafic phenocrysts - now composed of indeterminate, fine-grained secondary products (including chlorite, clays and rutile/leucoxene) and clusters of tiny granules of opaques - probably mainly pyrite.

The groundmass is a turbid felsitic aggregate of partially sericitized plagioclase, of grain size 10 - 50 microns, with intergrown fine-grained chlorite and micron-sized granules of opaques and sub-opaques.

The tendency for the fine-grained sulfides to concentrate in the altered mafic phenocrysts is a notable feature of this rock.

APPENDIX IVa
DIAMOND DRILL LOGS

HI-TEC RESOURCE MANAGEMENT LTD. DIAMOND DRILL LOG

Property Name: HANK Client Name: LAC MINERALS LTD.

Hole No: 89-DDH-01 Azimuth: 320 Borehole Test Method: Tropari
Test Azimuth: 310.5 Core Size: NQ & BQ

Northing:10670.136 Dip: -60 Test Dip: -59.5 Date Started: d: August 13, 1989
Easting: 10162.749
Elevation:1116.820m Length: 95.05 m Test Depth: 89 m Date Completed:ted: August 17, 1989

Overall impression of hole

LITHOLOGY

FROM (m)	TO (m)	WIDTH (m)	
12.00	18.35	6.35	Andesite breccia
18.35	20.20	1.85	Tuff
20.20	30.37	10.17	Andesite
30.37	65.53	35.16	Andesite Breccia
65.53	75.67	10.14	Andesite
75.67	76.28	0.61	Andesite Dyke (?)
76.28	79.12	2.84	Andesite Breccia
79.12	80.11	0.99	Clastic Tuff
80.11	95.09	14.98	Andesite Breccia

ALTERATION

12.00	65.00	53.00	Mainly moderate strong CB-PY-sericite alteration
73.00	95.09	22.09	Asaboe
65.00	73.00	8.00	Weak altered

MINERALIZATION

PY % is good all through this hole

42.00	54.00	12.00	)
82.16	95.09	12.93	) Major zones of SP-GN appearances
61.63	63.19	1.56	)
88.95	92.00	3.05	) Major CB vein zone, possibly high Au
94.68	95.09	0.41	)
0.00	12.19	12.19	Casing
0.00	12.00	12.00	Overburden
14.32	14.32		First feetage mark
13.30	13.30		Measured back from 14.32 m
12.00	14.00	2.00	Minor limonite on fracture surfaces
12.00	18.35	6.35	Andesite Breccia Pale greenish grey with greenish breccias and pale grey-maroon matrix
0.00	25.30	25.30	N @ Core
25.30	95.09	69.79	B @ Core
12.00	14.00	2.00	20% gouge , 50% greyish, matrix, disseminated & blebs PY replaced mafic minerals
14.00	16.00	2.00	20% gouge, 40% sheared, shear plane at 42
16.00	18.00	2.00	10% sheared sections at 30-45 16.56-16.61: Two quartz vein 1/2 cm at 3 17.37-17.5: 20% maroon silicious fragments in sheared section
18.35	20.20	1.85	Tuff (ash) plae green
18.00	20.00	2.00	19-19.2 m: 20% greyish andesitic veins 2-4 cm at 15-40 , associated with some banded PY at 10

20.20	30.37	10.17	Andesite, local clastic
20.00	22.00	2.00	40% sheared sections, 10% gouge at 60 and other directions 20.9 m : minor blackish mineral
20.20	25.00	4.80	60% sheared sections, 30% gouge
22.00	24.00	2.00	60% gouge
24.00	25.30	1.30	30% sheared, at 24~40
25.30	27.00	1.70	10% sheared sections at 40 & 60 25.3 m: 4 cm silicified & feldsparthized section
27.00	29.00	2.00	5% gouge at 10 & 45 27.85 m: minor SP blebs associated at tiny quartz vein 1mm, 45
29.00	31.00	2.00	50% gouge
30.37	37.86	7.49	Sheared & gouge zone, 75% sheared sections 15% gouge not included wash off mud
30.37	65.53	35.16	Andesite Breccia
31.00	37.86	6.86	Shear fractures, gougey mainly at 30-60
32.86	34.21	1.35	33.45~33.81m: Silicified with 10% quartz veinlets 1~5 mm thids at 30 contacts with 0.1% GN + SP. trace CP 32.25~33.35m: 5% GN + SP + CP associated with quartz CB reinlets 2mm at 60 33.92m : 4mm quartz vein associated with 40 GN SP
34.21	36.00	1.79	30% gouge at 55 34.21~34.35: Tuff, upper contact = 60
36.00	38.00	2.00	Few quartz - CB veinlets 1~6 mm at 60
38.00	45.00	7.00	Moderate competent core
38.00	40.00	2.00	1% gouge at 80
40.00	42.05	2.05	No comment
42.05	42.56	0.51	42.10: QZ-CB vein 1cm 2 with SP GN selvage 1mm 42.18: QZ-CB vein 1cm, 45, some SP, GN, CP 42.44: QZ-CB vein 1 cm. 55
42.56	44.00	1.44	Brecciated up with 20 pale greyish-maroon matrix 6 cm sheared at 30
44.00	46.00	2.00	30 sheared sections at 20 & 40, 5% gouge trace GN-SP in sheared section
45.35	46.48	1.13	Sheared gougey
46.00	48.00	2.00	48.62 m : 8 cm banding with CB-QZ, associated and GN and blackish mineral at 50
48.00	50.00	2.00	48.9~50.57 m: 50% sheared at 45, 20% shattered 48.9 m: 1.5 cm spot of QZ-CB with SP
50.00	52.00	2.00	20% sheared sections at 10, 40 & 60 Two CB veinlets 2 & 8 mm 10 , 20
52.00	54.00	2.00	54~52.6 m: slightly sheared at 40 & 60, some quartz veinlets 2mm at 40 minor blackish mineral 53.83 m: 1mm SP-GN vein at 20 53.84~54 m: Pervasive PY alteration at 70
54.00	55.65	1.65	55.03~55.57: Sheared & shattered 54.39: 1 cm banded PY at 45
55.65	56.18	0.53	Intruded by 30% CB-QZ veins 2 mm to 2 cm at 20, 1 CB vein 8 mm cross cutting a CB-QZ vein at 50
56.18	57.00	0.82	QZ-CB veinlets 1-4 mm at 30
57.00	59.00	2.00	57.57~58.38 m: 30% clasts, subround to round, 2~30 mm in diameters, grey & maroon
59.00	61.63	2.63	20% pale greyish matrix

			60.33 m: CB vein 2.5 cm 42
61.63	63.19	1.56	shear section
61.63	62.36	0.73	Hanging wall with CB-QZ-BA veins and brecciated sections. Two veins 2 & 4 mm 32 with some CP blebs and TT GN envelop 62.06~62.23 m: vein-breccia section, upper contact 40 lower contact 50 62.35: 2 cm silicified section
62.36	62.70	0.34	Sheared section, with PY banding 48, some silicious spots about 1.5 cm in diameters
62.70	63.19	0.49	Footwall: 62.78~62.99 m: silicified section at 30 with BA-CA-QZ vein at 30, 1% CP, 2.5% SP, some GN
63.19	65.00	1.81	Few quartz veinlets and CB-QZ veinlets 1-4 mm at 40
65.00	67.00	2.00	Alteration is locally 3 or 4 Quartz veinlets 1~8 mm generally at 20, one at 65 66.53~67 m: some slightly bleached sections due to quartz veinlet intrusion
65.53	75.67	10.14	Andesite: crystalline, fine to medium grain green, magnetic when altered to grey, nonmagnetic PY generally accured as mafic mineral replacement and sheeting
67.00	69.00	2.00	QZ veins 1~10 mm generally at 40
69.00	71.00	2.00	Green, magnetic, strong chloritized
71.00	73.00	2.00	QZ veinlets and QZ-CB veinlets 1~10 mm, 10-40 common at 20 unmineralized 72.2 m: 85 fracture, rich in PY
73.00	75.00	2.00	Unmineralized CB-QZ vein as above
75.00	77.00	2.00	75.66~75.84 m: maroon layers 70% at 10-20
73.00			Start grey color
75.67	76.28	0.61	Andesitic Dyke C
76.28	79.12	2.84	Andesite Breccia
79.12	80.11	0.99	Tuff, clastic
77.00	79.00	2.00	30% sheared at 40, 2.5% gouge
80.11	95.09	14.98	Andesite breccia
79.00	81.00	2.00	30% sheared sections at 50 Minor SP at a fracture 60
81.00	82.16	1.16	Slightly sheared at 45
82.16	82.37	0.21	CB vein with shear fractures upper contact = 6 lower contact = 32, 2 1/2 SP some CP pale pinkish color
82.37	84.00	1.63	10% matrix
84.00	86.00	2.00	50% matrix 85.5 m: 1 mm fracture filling 70 85.41 m: CB vein 2 cm: 47 associated with SP
86.00	88.00	2.00	20% greyish matrix Two barren quartz U CR vein 1 cm at 45
88.00	88.85	0.85	No comment
88.85	89.13	0.28	Four QZ-CB veinlets 1cm, 1.8cm, 1cm, 3mm associated with SP, GN, PY at 30
89.13	89.72	0.59	Trace SP at some CB sheared fractures at 45
89.72	90.52	0.80	89.72~89.91 m: sheared at 35, gougey 10% PY some SP and blackish mineral
90.52	92.00	1.48	Sheared & shattered, some quartz silicified fragement 60% gouge with some quartz and SP at 38
	92.00	92.00	is measured back from 93.57 mark
92.00	93.57	1.57	60% sheared at 40-45

93.57	94.68	1.11	sheared and shattered, gougey
94.68	95.09	0.41	Ground core.
			Mainly quartz vein silicified section
			At the end, a piece of ground core has 8mm CB vein
			with SP GN CP
95.09			Left a drill bit in hole try to drill through on
			Aug. 14 & 17 for 1/2 day rod is tight, give up end
			of hole at 95.09m

HI-TEC RESOURCE MANAGEMENT LTD. DIAMOND DRILL LOG

Property Name: HANK Client Name: LAC MINERALS LTD.

Hole No: 89-DDH-02 Azimuth: 320 Borehole Test Method: Tropari
Test Azimuth: 319.5 Core Size: NQ & BQ

Northing:10670.236 Dip: -46 Test Dip: -46.5 Date Started: d: August 14, 1989
Easting: 10162.349
Elevation:1116.820m Length: 110.03 m Test Depth: 110 m Date Completed:ted: August 17, 1989

Overall impression of hole
LITHOLOGY

FROM (m)	TO (m)	WIDTH (m)	
20.17	47.30	27.13	Andesite Breccia
47.30	60.00	12.70	Crystalline Andesite
60.00	78.52	18.52	Andesite Breccia
78.52	80.58	2.06	Intermediate-basic volcanic breccia
80.58	83.63	3.05	Tuff
83.63	85.95	2.32	Andesitic intrusion
85.95	97.80	11.85	Intermediate -basic volcanic breccia
97.80	100.30	2.50	Andesitic (?) intrusion
100.30	110.03	9.73	Intermediate-basic volcanic breccia
			ALTERATION
20.17	78.52	58.35	Moderate strong CB-PY-Sericite alteration
78.52	110.03	31.51	Unaltered zone
			MINERALIZATION
44.80	69.28	24.48	Major SP, GN, TT, CP appearances
			Two main sections of CR-QZ vein as below
49.00	50.49	1.49	40 to core normal
66.71	69.28	2.57	40 to core normal
0.00	21.33	21.33	Casing
0.00	40.23	40.23	N.Q. core
40.23	110.03	69.80	B.Q core
20.42			First footage mark
20.17			Start sampling, measured from 20.42 m
	20.42	20.42	39 cm recording, three pieces maroon x-line andesite, one piece silicified rock
			No limonite zone
20.17	47.30	27.13	Andesite Breccia, Pale green to grey clasts moderate altered, matrix is grey and pale greyish maroon in locals
20.17	34.00	13.83	30% sheared sections gougey
20.17	23.47	3.30	90% sheared, 70% gouge, one shear fracture at 45
23.47	26.00	2.53	40% sheared mainly at 35, 10% gouge
26.00	28.00	2.00	20% sheared sections 45-85, 5% gouge
28.00	30.00	2.00	30% sheared sections, one shear fracture at 48, 10% gouge
			Pale maroon matrix 20%
30.00	32.00	2.00	20% sheared sections 10-45, Major at 15-20
			10% gouge, pale green
32.00	34.00	2.00	10% sheared sections, 1 CB vein 5 mm at 40
			20% grey matrix, clasts have abundant altered mafic

			mineral 2 mm - 4 mm in diamters (sericitized)
34.00	36.00	2.00	36.77 m: a silicified section 11 cm lag 15, 20% irregular quartz veins Two gougey fractures at 20
36.00	38.00	2.00	5% sheared sections at 20, 45 37.69-38.71 m gougey
38.00	40.23	2.23	3% silicious grey matrix
40.23	42.32	2.09	Core ground as at 40.23 m: when changed to B.Q Bit
42.32	44.80	2.48	Low recovery 20% gouge, some sheared at 42 42.59 m: QZ-CB vein 2 cm, 45
44.80	46.21	1.41	30% sheared at 20-40, 10 gouge 45.61 m: QZ vein 1 cm at 55 with 30% SP 20% PY, minor GN, CP
46.21	48.00	1.79	47.43 m: 4 cm pyritic vein at contact 40
47.30	60.00	12.70	Andesite, crystalline altered (pale), phenocrysts 30%, 1-2 mm in diameters
48.00	49.00	1.00	48.54 m: 2 mm QZ vein, 38% with SP, GN 48.9 m: 2 mm QZ vein 85 with SP GN TT
49.00	50.49	1.49	49.12-49.54 m: main QZ-CB vein section at 40, minor SP GN selvage 50.2 m: /cm thick QZ-CB vein with 2.5% SP minor GN
50.49	52.53	2.04	51.7-52.65: pale green
52.53	55.00	2.47	40% sheared sections at 10 & 40, 5% gouge 54.16 m, QZ vein, 6 cm thick at 45
55.00	57.00	2.00	55-56.4 m: pale green 55.4-55.76 m: cooked up with 20% QZ 55-76-56 m: brecciated up by 20% grey silicious matrix
57.00	58.92	1.92	57-57.20 m: cooked up with 30% pale maroon volcanics, silicious 58.57 m: sheared fracture 38 minor SP
58.92	60.00	1.08	5% sheared at 40 49.8 m, 6 cm silicified vein at 40
60.00	78.52	18.52	Andesite Breccia
60.00	61.31	1.31	Irregular QZ-CB veinlets 1-7 mm, mainly 20 with some SP, GN
61.31	62.40	1.09	40% matrix 5% gouge, 2-5 cm thick 35-40
62.40	64.69	2.29	50% matrix
64.69	66.71	2.02	30% matrix
67.71	68.00	0.29	Moderate silicified, some quartz veinlets associated with SP, GN, TT, CP 67.88 m: a quartz lens 6-20 mm, 20 & 45 with 40% SP 30% PY 20% gouge
68.00	69.28	1.28	70% sheared sections at 40 78.71 m: 2 mm QZ lens with some GN SP
69.28	70.14	0.86	Pale green 69.28-69.59 m: slightly sheared at 40
60.14	72.00	11.86	Light green beccias in 20% grey matrix
72.00	74.00	2.00	Light green & 20% matrix as above 73.67-74 m sheared at 25, gouges
74.00	76.45	2.45	Pale green
76.45	77.45	1.00	70% sheared, 60% gouge 76.71 m: QZ lens 1 cm, 40 with SP
77.45	78.52	1.07	77.07-78.52 m: silicified, upper contact 47

			lower contact = 38
78.52	80.58	2.06	Intermediate to basic volcanic breccia grey cooked up & brecciated up with tuff (?) unaltered. Porpheritic looking, felsic minerals about 70%, fine to coarse grain; matrix is grey fine grain local medium grain mafix minerals
80.58	83.65	3.07	Tuff: pale green, 50% fine recrystalline feldspars, 5-10% clast,< 1 mm to 3 cm in diameters and to subround. Grey green maroon colors, lower contact = 25
79.00	105.00	26.00	Competent core
83.63	85.95	2.32	Andesitic c intrusion light grey fine grain (Subvolcanics)
80.58	83.58	3.00	81.51-81.65: 2 cm QZ veins & silicified section associated with PY contacts are 40 83.5 cm: 6 mm QZ vein, 40 with PY
83.58	86.63	3.05	86.28-82.63: greenish grey color slightly cooked by the greyish volcanics
85.95	97.80	11.85	Intermediate-basic volcanic breccia as above
86.63	90.00	3.37	No comment
90.00	93.00	3.00	No comment
93.00	95.00	2.00	Local dark grey holes with diameters = 10^14 cm
95.00	97.80	2.80	95.49-95.68 m: shear fractures 28 with PY some QZ spots and veinlets
97.80	100.30	2.50	Andesitic intrusion (Dyke ?): Fine grain with 10% altered (sericitized) greenish phenocrysts = 1.5 mm long. Matrix is massive, pale pink, green, grey colors Upper contact = 20, lower contact = 5
100.30	110.03	9.73	Intermediate-basic volcanic breccia as above (with tuffaceous ? clasts)
100.30	103.00	2.70	No comment
103.00	106.00	3.00	105.89-106.09 m: Gouge at 20 & 42
106.00	107.72	1.72	10% sheared sections at 42
107.72	110.03	2.31	A 1 cm thick CB/V = 90

HI-TEC RESOURCE MANAGEMENT LTD. DIAMOND DRILL LOG

Property Name: HANK Client Name: LAC MINERALS LTD.

Hole No: 89-DDH-03 Azimuth: 320 Borehole Test Method: Tropari
Test Azimuth: 315 Core Size: NQ & BQ

Northing:10670.036 Dip: -64 Test Dip: -66 Date Started: August 17, 1989
Easting: 10163.149
Elevation:1116.820m Length: 130.14 m Test Depth: 128.6 m Date Completed: August 19, 1989

Overall impression of hole
LITHOLOGY

FROM	TO	WIDTH (m)	
12.19	19.07	6.88	Andesite Breccia
19.07	23.25	4.18	Tuff
23.25	37.73	14.48	Andesite
37.73	48.00	10.27	Andesite Breccia
48.00	51.91	3.91	Andesite
51.91	69.19	17.28	Andesite Breccia
69.19	77.27	8.08	Andesite
77.27	101.91	24.64	Andesite Breccia
101.91	103.95	2.04	Tuff
103.95	112.11	8.16	Andesite Breccia
112.11	113.04	0.93	Pale Green Lava
113.04	115.61	2.57	Andesitic Intrusion
115.61	117.95	2.34	Latite (?)
117.95	125.52	7.57	Andesite
125.52	130.14	4.62	Andesite Brecciated by Intermediate-Basic Volcanics

ALTERATION

12.19	109.12	96.93	Carbonate-PY-Sericite altered
109.12	103.14	-5.98	Unaltered

MINERALIZATION

82.52	101.20	18.68	Major QZ-CB veins and GN, SP, CP, TT appearances
			Three main QZ-CB vein zones as below
82.52	83.89	1.37	75 to core normal
89.57	92.49	2.92	80 to core normal
97.85	101.20	3.35	70 to core normal
	12.19	12.19	Casing
	12.00	12.00	Overburden
17.37		17.37	First footage mark
18.49	41.76	23.27	NQ core
41.76	130.14	88.38	BQ core
			No visible limonite zone
12.19	17.37	5.18	Mislatch. Very low recovery (4%)
12.19	19.07	6.88	Andesite Breccia
17.37	19.07	1.70	17.37-17.77: moderate broken up and 5 cm sheared
19.07	23.25	4.18	Tuff, pale green, 2 1/2% clast less than 1 cm
19.07	21.05	1.98	19.55-19.90: shattered
			19.36-19.53 m: some pale greyish maroon silicious intrusion

21.05	23.25	2.20	22.9-23.8 m: sheared at 30, 2 cm gouge
23.25	37.73	14.48	Andesite minor clast in locals
23.25	26.00	2.75	Sheared 30% gouge
26.00	28.00	2.00	0.1% blackish mineral
			27.25-27.44 m: sheared at 45 gougey
28.00	30.00	2.00	28-28.8 m: slightly sheared
			2.5% clasts
30.00	32.00	2.00	.3% blackish mineral dissemination
			Some fractures at 45
32.00	34.00	2.00	33-33.70 m: sheared at 42
			2.5% clasts
34.00	36.00	2.00	34-35.18 m: moderate sheared at 45 1 cm QZ lens
			attached to 6 cm silicified section 10% gouge
37.73	48.00	10.27	Andesite Breccia
36.00	38.00	2.00	Two QZ-CB vein 1 cm thick 65-70
			Once QZ-CB vein 6 mm at 45
38.00	39.83	1.83	38.71-39 m: silicified and brecciated with QZ veins
			2 mm to 1.5 cm
39.83	41.00	1.17	4.15 m: QZ-CB vein 2 cm 40
			40.9 m: QZ-CR vein 1.5 cm 45 with SP, PY
41.00	41.76	0.76	40% pale greyish maroon, matrix
41.76	44.80	3.04	41.76-44 m: altered from maroon porphyritic andesite
			42.75-44 m: sheared gouge at 90
44.80	46.87	2.07	45-46 m: slightly sheared at 45, 5% gouge
46.87	48.00	1.13	Sheared at 33%, 5% gouge
			47.88 mQZ vein 5 cm 38 with 20% PY
48.00	51.91	3.91	Andesite pale greenish grey
48.00	50.00	2.00	49.49 m: 1 cm QZ-CB vein 45 with SP, GN
50.00	51.00	1.00	50.32-50.42 m: some banding at 45
			50 m: CB vein 1 cm at 30
			50.88-50.9 m: Few QZ-CB veinlets 1-2 mm 20-40
51.00	52.00	1.00	51-51.3 m: Three major CB vein 1 cm, 5 cm, are at 30
			unmineralized.
			51.32-51.40 m: Gouge at 22
			51.48-51.84 m: Porpheritic texture
51.91	69.19	17.28	Andesite breccia
52.00	53.70	1.70	20% sheared sections
53.70	54.70	1.00	54 m: 2 cm CB vein, no sulfide at 42
54.70	56.18	1.48	10% sheared at 10, 45, 5% gouge
			55.59-56.02: Moderate silicified with QZ veinlets
56.18	58.00	1.82	20% pale grey matrix
58.00	60.00	2.00	50% matrix. Few QZ veinlets 2-3 mm 70
60.00	62.00	2.00	60.04-60.85 m: Moderate carbonatized with QZ-CB
			veinlets 2- 8 mm 50-75
62.00	64.00	2.00	Weakly sheared with CB veinlets and stringers
64.00	66.00	2.00	20% matrix
66.00	68.00	2.00	40% matrix
68.00	70.00	2.00	Alteration intensity = 4.5
			69.13 m: shear fracture 70, some SP
			69.25 m: QZ-CB vein 1.3 cm 120 no sulfide
			69.37 m: QZ-CB vein 1 mm 40 some SP
			68.72 m: QZ-CB vein 60, some SP, GN
69.19	77.27	8.08	Andesite: Local weak altered magnetic, green hematatized
			mafic minerals = 1 mm long
70.00	72.00	2.00	Light greenish grey, Bleaching bands = 40
			70-70.15 m: green magnetic

			70.56 m: 1 cm QZ-CB vein 65 71.27-71.40 m: weakly silicified with QZ veinlets and spots 71.58-71.7 m: some brownish intrusive veinlets
72.00	74.00	2.00	72 m: two 2 mm QZ vein 45 72-73.25 m: Light to pale brownish pervasive alteration
74.00	74.64	0.64	20% CB veinlet network
74.64	75.45	0.81	Few QZ-CB veinlets 1-6 mm at 5, 42, 60
75.45	76.68	1.23	75.55-75.72 m: QZ-CB veinlet network 2-4 mm with some disseminated GN, SP 76.02-76.68 m: some shear fractures at 45, 65
76.68	78.33	1.65	77.62: QZ-CB vein 1.2 cm 50 no sulfide
77.27	101.91	24.64	Andesite Breccia
78.33	79.69	1.36	20% matrix 78.52-78.77 m: Blacked with QZ-CB veinlets 1-3 mm 10, 42, 80
79.69	81.18	1.49	Some weakly sheared fractures at 10, 30, 50, 80
81.18	82.52	1.34	81.18 m: Sheare fracture 4 cm, 70 with PY and QZ-CB lens QZ-CB veinlets and lens 1-12 mm at 10-45
82.52	83.89	1.37	QZ-CB vein and alteration zone with .1% GN dissemination and Tr SP 82.66 m - 83 m: main QZ-CB vein section, upper contact = 75, lower contact not clear 83.29-83.52 m: QZ-CB vein section with 1% GN dissemination, upper contact 47, lower contact = 45 83.6-83.89 m: CB vein 5 mm at 82 The whole section is weakly sheared at 70-80
83.89	84.43	0.54	83.89-84.2 m: Weakly sheared 83.16 m: Sheared fracture 75 with 6 mm QZ-CB vein at 75 84.4 m: CB vein 6 mm at 75
84.43	85.89	1.46	50% matrix
85.89	86.49	0.60	86.06 m: QZ-CB vein 5 cm 40 with SP 5% 86.19 m: QZ-CB vein 1.5 mm 60 with SP
86.49	87.47	0.98	50% matrix
87.49	88.19	0.70	87.63 m: 4 cm thick QZ vein (two 1 cm thick vein) and altered section with SP, GN at 45 87.94-88.19 m: sheared at 45 one QZ-CB vein 3 mm with GN, SP
88.19	89.57	1.38	88.8-89.2 m: Some greyish matrix banding at 42 Three 2 mm QZ-CB vein at 42-45 with some GN, SP
89.57	92.28	2.71	Shear zone with 20% QZ-CB veins and alterations associated with 0.3% GN & SP 89.57 m: Sheared upper contact 45 92.38 m: Sheared lower contact at 80
89.57	90.60	1.03	89.57-90.05 m: sheared at 45-50 90.14 m: Minor SP at CB fracture 90.14-90.40 m: 40% irregular QZ-CB lenses (intruded in shear zone and welded) at 85 90.40 m: QZ-CB terminated at 45 shear fracture minor CP
90.60	91.82	1.22	Major QZ-CB vein & alteration zone 90.6-90.9 m: 80% QZ-CB, minor SP, GN, TT, CP Upper contact = 25, lower contact = 75 90.9-91.45 m: 10% QZ-CB small patches up to 4 cm in diameters and veinlets 1-2 mm associated with some SP, GN

			94.45-91.82 m: 50% high angle QZ-CB veins with disseminated GN, TT, SP, CP 91.45-91.53 m: 2mm and 15 mm QZ-CB veins at 45 91.53-91.77 m: QZ-CB vein 25 mm at 90 91.77-91.82 m: 1.7 cm QZ-CB vein at 50
91.82	92.49	0.67	Shear zone. Fractures 75-90
92.49	94.00	1.51	40% green clast 60% grey matrix
94.00	96.00	2.00	60% matrix 95.1 m: 2 mm QZ-CB lens with SP, TT
96.00	97.85	1.85	50% matrix
98.17	101.91	3.74	Shear zone accompanied with QZ-CB veins and silicification 98.17 m: upper contact of QZ-CB vein at 70 101.91 m: shattered
97.85	98.72	0.87	97.97-98.02 m: Slightly bleached at 70 with SP, TT, GN at 5, 2 mm veinlet 98.17-98.42 m: QZ-CB vein contacts are 70 disseminated with minor CP, TT 98.17-98.64 m: moderate silicified and carbonatized 5% PY 98.64-97.70 m: QZ-CB vein at 70
98.72	99.66	0.94	Shear zone at 70, 30, gouge
99.66	101.20	1.54	80% silicified with quartz stringers
101.20	101.91	0.71	Shattered gougey, low recovery
101.91	103.95	2.04	Tuff: upper contact is not sure because of strong silicified shattered and gougey. Lower Contact = 80
101.91	102.82	0.91	1% QZ veinlets 1-2 mm at 20-45
102.82	103.88	1.06	102.82-103.3 m: Strongley silicified, some quartz veinlets 2 mm at 30 with minor SP 103.56-103.73 m: Strongly silicified. Brecciated by QZ vein intrusion
103.88	105.86	1.98	Strongly silicified and brecciated
103.95	109.12	5.17	Andesite Breccia
105.86	106.09	0.23	100% fault gouge, surrounded by 4-5 mm drill mud, (contaminated)
106.09	109.12	3.03	106.09-107 m: Moderate shattered 106.88-107 m: Silicified with QZ veinlets 108.62-109.01 m: Silicified 109.01-109.12 m: Sheared at 15
109.12	112.11	2.99	Andesite breccia: 10% cooked up with or brecciated with dark grey intermediate to mafic volcanics 111.45 - 111.70 m: Sheared at 30 111.70-111.86 m: Silicified 111.86-112.11 m: Sheared
112.11	112.52	0.41	Pale green lava: with 10% amygdale filled with dark grey intermediate - mafic volcanics and some with PY Size up to 1 cm long, 2-4 mm wide The bubble alongated directions = 45% 112.11 m: Upper contact = 25 112.52 m: Lower contact = 32
112.52	113.04	0.52	The above lava & cone andesite, 60% cooked up with the dark grey intermediate-mafic volcanics 113.04 m: Contact = 42
113.04	114.78	1.74	Andesitic intrusion as in DDH89-1, but with 20-20% pale green to grey altered mafic mineral flakes 2 1/2 mm long 1 mm wide matrix is altered to light pinkish 114.78 m: contact -55 cut by quartz vein

114.78	115.61	0.83	Silicified section. Lower contact =45
115.61	117.95	2.34	Latite: brownish, fine grain massive 115.61-116.69 m: 5% felsic mineral (feldspar ?) Few CB and PY veinlets 117.95 m: Lower contact = 47
117.95	125.52	7.57	Andesite: Carbonate amygdales in locals magnetic at the unaltered greenish sections. Crystalline
117.95	121.00	3.05	117.95-118.51 m: 5% calcite amygdales 1-15 mm long 1-6 mm wide. Bubbles alongated at 5 118.52 m: some brownish latite veins 2-8 mm 119.78-119.48 m: 1% calcite amygdales 120.46-121 m: 20% dark grey intermediate-mafic volcanics Two calcite veins 8 mm, 10 mm at 45
121.00	124.05	3.05	Locally (10%) cooked up with dark grey intermediate-mafic volcanic intrusion 121-121.25 m: Latite at 90 122.53-122.63 m: Latite at 35 123.24 m: 4 cm Latite at 20
124.05	127.10	3.05	124.68-125.52 m: 2.5% hematite dots < 1-2 mm in diameters
125.52	130.14	4.62	Andesite breciated up by dark grey intermediate-basic volcanics Andesite clast = 80-90%

HI-TEC RESOURCE MANAGEMENT LTD. DIAMOND DRILL LOG

Property Name: HANK Client Name: LAC MINERALS LTD.

Borehole Test Method: Tropari

Hole No: 89-DDH-04 Azimuth: 310 Test Azimuth: 259.5 (unreliable) Core Size: NQ & BQ

Northing:10645.542 Dip: -60.5 Test Dip: -61 Date Started: August 19, 1989
Easting: 10132.445
Elevation:1110.010m Length: 121.91 m Test Depth: 112.91 m Date Completed: August 20, 1989

Overall impression of hole

LITHOLOGY

FROM	TO	WIDTH (m)	
11.28	47.00	35.72	Andesite Breccia
47.00	56.63	9.63	Andesite
56.63	63.12	6.49	Andesite Breccia
63.12	72.23	9.11	Andesite
72.23	90.76	18.53	Andesite Breccia
90.76	92.44	1.68	Intermediate-Basic Volcanics
92.44	104.04	11.6	Andesite
104.04	108.12	4.08	Andesitic Intrusion and Pale Green Lava
108.12	110.81	2.69	Andesitic Breccia
110.91	112.74	1.83	Pale green lava
112.74	121.91	9.17	Andesite and andesitic brecciated and cooked with intermediate-basic volcanics

ALTERATION

11.28	90.76	79.48	PY-CB-Sericite altered (41-56.63 m: weakly altered)
90.76	121.91	31.15	Unaltered

MINERALIZATION

20.83	73.83	53	Major SP, GN, TT, CP apperances
20.83	22.93	2.1	)Major QZ-CB vein and SP, GN, TT, CP, zones
65.90	68.65	2.75	)
73.31	73.83	0.52	Veins of massive sulphides
	10.67	10.67	Casing
11.28		11.28	First feetage mark
	11.28	11.28	29 cm recovery, 80% unaltered andesite fragments
11.28		1128	Start sampling
11.28	18.00	6.72	Minor limonite on some fracture surfaces
	31.39	31.39	No core
31.39	121.91	90.52	BQ Core
11.28	47.00	35.72	Andesite breccia; grey to pale green clast in grey matrix
11.28	14.32	3.04	Sheared at 50, 80, 10% gouge 11.28-12.28 m: Intruded by %5 QZ-maroon veins and lenses (brecciated up) 14 m: 30 cm silicified with QZ veins (40 ?)
14.32	16.00	1.68	40% sheared, 20% 15.7-16.1 m: Andesite
16.00	18.00	2	20% sheared and shattered, 10% gouge
18.00	19.50	1.5	40% sheared and shattered, 10% gouge at 45, 90 Minor blackish mineral
20.83	22.93	2.1	Shear zone with calite-QZ veins and sulfides
19.50	20.83	1.33	Competent, 20% matrix

20.83	22.16	1.33		50% sheared at 50-70, 20% gouge
				20.83 m: shear fracture 60
				21.37-21.76 m: weakly silicified with QZ-CB stringers with minor SP
22.16	27.93	5.77		22.16-27.29 m: sheared at 22
				22.29-22.40 m: brecciated by SP-PY-and blackish mineral 40% at 42-45
				22.59-22.81 m: RZ-CB vein 20, with 5% SP, some CP, TT, GN, PY
				22.93 m: 3 cm silicified section with QZ-CB, some SP, CP, (at 42)
22.93	25.00	2.07		22.47-25 m: highly carbointized
				22.4-22.70 m: QZ-CB vein (1 cm) network, Tr, SP,
				24.38 m: 4 cm BA-CA-QZ vein 30, no sulfide
				24.82 m: gouge 4 cm at 43
25.00	27.27	2.27		50% grey matrix
27.07	28.07		1	27.3-28.74 m: moderate silicified and carbonatized with QZ-CB veins with 0.1% SP, TT, GN. Upper contact at 47 Lower contact at 43
28.07	29.21	1.14		Shear fracture 85, gougey
				Minor SP at 1 mm QZ-CB veinlet at 50
29.21	31.39	2.18		29.85-30.5 m: sheared
				29.85-31.39 m: 30% grey silicious matrix
31.39	33.00	1.61		Few calcite and QZ-CB veinlets 2-5 mm, 50, 40
33.00	35.00		2	No comment
35.00	37.00		2	Weakly sheared at 20-45
37.00	38.55	1.55		80% matrix, 20% pale green clasts
38.55	39.13	0.58		QZ-CB vein and SP, GN section 5% SP
				38.71 m: 18 mm QZ-CB vein 45 with SP, GN selvage
				38.76 m: 18 mm QZ-CB vein 45 with SP, GN selvage
				38.94-39.11 m: QZ-CB vein >1 cm 90 with SP, GN, selvage
39.13	41.00	1.87		41.47-41.49 m: 2 QZ-CB veinlets 3 mm 45 with SP, GN
41.00	43.00		2	42.32 m: QZ-CB vein 8 mm 45 with SP, GN, 30% grey matrix
43.00	45.00		2	40% grey matrix 60% pale green clasts
45.00	47.00		2	20% grey matrix, 80% pale green clasts
47.00	56.63	9.63		Andesite: greenish grey to light grey, local magnetic at greenish color sections
47.00	49.00		2	47.68 m: 3 mm QZ-CB spot with SP
49.00	51.00		2	One 3 cm clast
				50.7-51 m: 1% hematite altered mafic minerals
51.00	53.67	2.67		50% green section, fine to medium grain magnetic
53.67	54.61	0.94		1% of SP, some CP, GN, TT associated with QZ-CB veins
				53.71-53.80 m: QZ-CB vein, upper contact 75
				Lower contact 38
				54.03-54.13 m: QZ-CB vein. Upper contact 45
				Lower contact = 38
				54.13-54.32 m: QZ-CB vein 3 mm, 80
				54.38 m: & 54.42 m: 1.5 mm veins at 10 & 30
				54.55 m: 1.5 cm vein 45
				All the above veins have SP, TT, GN, CP, PY
54.61	56.63	2.02		54.98-55.5 m: some pale maroon banding at 40
				55.6-55.90 m: 3% hematitized mafic minerals
56.63	63.12	6.49		Andesite breccia
				Higher alteration intensity
56.63	58.03	1.4		50% sheared at 45
				56.70-56.93 m: some QZ lens at shear fracture with

			minor SP, GN 57.32 m: gouge 6 cm at 45
58.03	60.00	1.97	Slightly sheared 30% 58.52-58.73 m: some SP at QZ-CB veinlets 2 mm at 40-45
60.00	62.00	2	61.52-62 m: shear section (61.61-61.72 m) with QZ silicified section (61.52-61.61 m) 61.86-62 m: brecciated with 10% QZ, some blackish mineral dissemination
62.00	64.66	2.66	62.45 m: QZ vein 3 cm at 45 ? some PY 63.13 m: QZ vein 2 mm with abundant SP at 50 63.7 m: QZ-CB lenses 3 mm thick 12 mm long with SP 63.64-64.35 m: light green andesite
63.12	72.23	9.11	Andesite
64.46	65.90	1.44	1% QZ-CB veinlets 1-2 mm 20, 40 and 90 with SP 65.8-65.9 m: 2.5% hematite disseminated alteration and and tiny fracture filling
65.90	66.25	0.35	5% SP, GN, TT minor CP associated with QZ-CB veins 65.93 m: SP, TT, GN vein with CB-QZ 2 mm at 65 65.97-66.23 m: Main QZ-CB veins sections with SP, TT, GN, CP. Upper contact 43 Lower contact = 47
66.25	67.25	1	66.49 m: QZ-CB vein 1 cm 90, Tr, GN 66.86 m: 2.5 cm QZ-CB vein at 80 minor PY 67 m: 2.5 cm QZ-CB vein at 52 with SP, CP, PY
67.25	68.65	1.4	68.79-68.91 m: 3 mm QZ-CB vein 65 with 80% SP, TT, GN 68.33 m: 4 mm wide QZ-CB lens 3 cm long at 35 with 60% SP 68.54 m: 1.8 cm QZ-CB vein Tr. SP
68.65	70.69	2.04	100% sheared 70.09 m: some SP associated with CB veinlets at 35 (four 1 mm thick veinlets)
70.69	72.23	1.54	72.2 m: 2 cm cooked up with pale maroon vein at 45
72.23	73.31	1.08	10% sheared at 35, 55, 90 72.70-72.82 m: weakly silicified
73.31	73.83	0.52	73.38 m: 1 cm massive SP, GN, TT, CP, vein at 70 73.45 m: 2 cm (square) thodachrosite spot 73.57 m: 1 cm thick 3 cm long massive sulfide vein at 70 73.79-73.80 m: 5 cm true thickness of massive sulfide vein at 50
72.23	90.76	18.53	Andesite breccia
73.83	75.00	1.17	Sheared at 70-85
75.00	77.00	2	Very pale altered (a different stage of volcanics ?)
77.00	78.00	1	As above, but some fade clastic texture (?)
78.00	79.00	1	78.70 m: 1 cm QZ-CB vein 40 with 50% SP Brecciated
79.00	80.00	1	79.3 m: 5 cm altered vein, 50 with 10% PY
80.00	82.00	2	Fade casts 70%
82.00	84.43	2.43	83.85-84.68 m: sheared, gougey
84.43	85.46	1.03	84.84 m: 1 mm GN, SP, CB at fracture 80 84.94 m: same as above but at 35 85.36 m: CB lens 3 mm at 30 with SP
85.46	86.46	1	40% sheared at 45, 90, gougey
86.46	89.00	2.54	88.22-88.47 m gougey at 50
89.00	90.76	1.76	90.57-90.66: sheared at 55 PY and blackish mineral
90.76		90.76	Ground core or washedaway mud at contact lost 0.74 m
90.76	92.44	1.68	Intermediate to basic volcanics, dark grey with 50% feldspar 1-1/2 mm long , 1/2 mm wide, matrix is dark grey

			non magnetic, 2.5% black argillite clasts 90.76-91 m: 2.5% PY blebs 94.42 m: 5 cm maroon gouge at 0 (?)
92.44	104.04	11.6	Andesite (dark grey) Colored up by dark grey intermediate-mafic volcanics; also contains or cooked up some black argillite clasts from few mm to 30 cm. Mainly weakly altered by the intermediate-basic volcanic activity
90.76		90.76	Start unaltered rock
92.44	95.00	2.56	Mainly QZ veinlets 1-2 mm 5-20 few at 45
95.00	98.00	3	Few QZ-CB veinlets 1-3 mm at 40 one with PY selvage
98.00	101.00	3	10% argillite clasts 98.43-98.76 m: sheared at 80 98.8-99 m: Pervasive PY-CB 100.25-100.48 m: pervasive PY-CB Mainly QZ & QZ-CB veinlets 1-5 mm 20-45 few at 70-80
101.00	103.95	2.95	101.02 m: two small PY veins 9 mm & 1 mm at 30 102.9-103.56 m: 10% QZ-CB veinlets network Two calcite lens, 2 1/2 cm in diameters no sulfide
104.04	106.46	2.42	Andesitic Intrusion Pale green and pale pinkish locally cooked by the later dark grey intermediate-basic volcanic with 20% mafic mineral flakes 1-2 mm long, 1/2 mm wide, usually epidolized or sericitized matrix is massive, very fine
106.46	107.16	0.7	Pale green lava as in hole 89-3 but no amygdales. Locally brecciated by the above andesitic intrusion and locally cooked up by the intermediate-basic volcanics Upper contact =32; Lower contact =70
107.16	108.12	0.96	Andesite intrusion as above Lower contact =45
108.12	110.91	2.79	Andesitic breccia Cooked up and brecciated up with dark grey intermediate mafic volcanics lower contact =10
103.95	106.24	2.29	10% QZ-CB veinlet network. No sulphide 103.95-104.76 m: the vein zone is about 70 106-106.14 m: vein zone is at 45
108.12	110.91	2.79	Pale grey to dark grey
110.91	112.74	1.83	Pale green lava as above Lower contact = 5 (irregular) 112.08 m: QZ-CB veinlet 5 mm, 55 some PY
112.74	121.91	9.17	Andesite brecciated to cooked up to dark grey intermediate-basic volcanics (some andesite breccia) Dark grey & pale green color
121.36	121.91	0.55	Sheared and shattered for 70% of sections
121.74	116.00	5.74	113.74-113.91 m: gouge at 3
116.00	118.00	2	116.4 m: QZ vein 5 mm, 30 with SP 117.7 -11.95 m: shattered
118.00	121.91	3.91	70% shattered 180.6 m QZ vein 9 mm at 65

HI-TEC RESOURCE MANAGEMENT LTD. DIAMOND DRILL LOG

Property Name: HANK Client Name: LAC MINERALS LTD.

Borehole Test Method: Tropari

Hole No: 89-DDH-05 Azimuth: 310 Test Azimuth: 311 Core Size: NQ & BQ

Northing:10645.342 Dip: -74.5 Test Dip: -75 Date Started: August 21, 1989

Easting: 10132.645

Elevation:1110.010m Length: 157.58 m Test Depth:156 m Date Completed:August 23, 1989

Overall impression of hole

LITHOLOGY

FROM	TO	WIDTH (m)	
8.23	40.00	31.77	Andesite Breccia
40.00	53.13	13.13	Andesite
53.13	141.60	88.47	Andesite Breccia
141.60	146.68	5.08	Andesite
146.68	157.57	10.89	Andesite (cooked up by intermediate-basic volcanics)
			ALTERATION
8.23	45.00	36.77	{
49.00	146.48	97.48	{Moderate to high PY-CB-sericite alteration
30.68	36.13	5.45	{
38.17	39.75	1.58	{
61.49	62.60	1.11	{
89.99	98.40	8.41	{Are the possibly high Au mineralization zone, with SP, GN, CP, TT, in parts
	7.62	7.62	Casing
	7.00	7.00	Overburden
8.23		8.23	First footage mark
	8.23	8.23	32 cm recovered, 10 pieces of core 2-4 cm long, 60% unaltered green andesite 40% altered andesite
8.23		8.23	Start sampling
8.23	8.50	0.27	Minor limonite on fracture surfaces
	31.15	31.15	NQ core
31.15	157.58	126.43	BQ core
8.23	40.00	31.77	Andesite Breccia; grey altered
8.23	11.00	2.77	8.79-9.10 m: fractures 90 and 45. moderate shattered
12.79	23.90	11.11	Sheared and shattered 40% gouge
11.00	12.79	1.79	Intruded and cooked up by maroon volcanics 5%
12.79	14.32	1.53	80% gouge some visible fractures at 40 & 80 1% maroon volcanics interstitial
14.32	17.37	3.05	60% gouge, 2.5% maroon volcanic veins (3 cm at 20) blebs and interestitial
17.37	18.37	1.00	90% gouge
18.37	20.42	2.05	Shattered
20.42	23.47	3.05	40% shattered, 2.5% gouge at 45 & 80
23.47	25.64	2.17	One CB vein 1 cm 45, no sulfide 25.21 m: shear fracture 45 some CB and blackish mineral
25.64	26.77	1.13	Sheared and 30% shattered, 5% gouge at 20, 40 and 80, minor CB veinlets with gouge.
27.52	29.90	2.38	Few CB veinlets 1-2 mm at 25-45 One gougey fracture at 45 20% grey matrix 80% pale whiteish clast

29.90	30.68	0.78	50% sheared at 50 29.9-30.18 m: shattered, washed away gouge (?) some calcite veinlets
30.68	31.15	0.47	Sheared, some SP, GN associated with calcite veinlets mainly at 85 about 4 mm (?) some irregular filled in fractures 4-6 mm, 20-30, SP = 2.5%
31.15	32.61	1.46	Soft ground, ground and washed away a lot low recovery BQ start at 31.15 m.
30.68	39.75	9.07	Calcite and QZ-CB vein zone contains 2 main sections associated with SP, GN
31.50		31.50	Changed to BQ bit, ground some core here, also broekn up and gougey, low recovery
31.50	32.61	1.11	Very low recovery. Shattered gougey
32.61	33.98	1.37	32.61-32.71 m: moderate silicified with 1.5 cm QZ vein, 42, some PY 32.76 m: 12 mm QZ-CB vein at 80, no sulphide 32.81 m: 4 cm gouge at 45 32.95-33.09 m: sheared and rich calcite 33.12-33.98 m: QZ-CB veinlets (one pink), 1-4 mm 70-80 with some SP, PY
33.98	35.66	1.68	Mainly high angle veins 33.98-34.23 m: QZ vein 5 mm, 90 with minor SP, GN 35.17-35.66 m: some QZ-CB veinlets 2- 3 mm 45 & 90 with some SP
35.66	36.13	0.47	Sheared at 75 & 90 with some QZ-CB veinlets 1-3 mm at 75
36.13	37.11	0.98	10% grey silicious matrix two gougey fractures at 45
37.11	38.17	1.06	20% grey silicious matrix 80% pale green andesite clast
38.17	38.75	0.58	38.17-38.26 m: gouge 0 38.26-38.34 m: QZ-CB veinlet network 38.34-38.54 m: QZ-CB veins and alteration at 45 with 20% SP some GN, CP 38.58-38.72 m: 30% SP associated with QZ-CB veins 2.5 cm (3 veins) at 45 accompany with shearings
38.75	39.48	0.73	Totally brecciated up by QZ CB intrusion upper contact 45, lower contact 42
39.48	39.75	0.27	QZ-CB vein associated with SP, GN (1% SP) Upper contact = lower contact = 30
40.00	53.13	13.13	Andesite; grey to pale green
39.75	40.74	0.99	40.59-40.65 m: Irregular QZ, CB vein at 15 with GN, SP 40.67-40.76 m: some greenish banding 2-3 mm on 5
40.74	42.00	1.26	Grey, 41.92-42 m: shear fractures at 20-30
42.00	44.00	2.00	Grey, good andesitic crystalline texture = 50% altered feldspar phenocryst about 2 mm in diameters Local hematitic altered mafic minerals
44.00	45.00	1.00	44.49 m: 2 1/2 QZ vein 45 with some SP, GN 44.8 m: 2 mm QZ vein 45 with SP, GN
45.00	47.00	2.00	Bleached, with hematite altered mafic minerals
46.78	49.20	2.42	Green unaltered andesite, magnetic crystalline
47.00	49.00	2.00	Mainly dark green andesite, magnetic
49.00	51.00	2.00	49.17-49.48 m: bleached at 45 as a 2 cm QZ vein 45 at 49.45 m 5015-50.21 m: some grey silicious veins 0 50.31-50.53 m: matrix is pale maroon altered
51.00	53.00	2.00	51.1-51.63 m: sheared at 60 51.63-52.36 m: pale maroon altered matrix

53.00	55.00	2.00	53.05-53.13 m: sheared at 45
53.13	141.60	88.47	Andesite breccia: greyish matrix and pale or whiteish clasts
55.00	57.00	2.00	5% of andesitic clasts were whiteish altered
57.00	59.00	2.00	60% pale grey matrix
59.00	61.49	2.49	30% matrix
61.49	62.60	1.11	A 1-1.2 cm QZ-CB vein 85 strike along whole section; associated with SP, GN, TT, CP 62.6 m: vein terminated at 30 shear fracture
62.60	64.00	1.40	Few shear fractures 35-45 Few QZ-CB veinlets 1-2 mm 35-45
64.00	66.00	2.00	64.7-65.1 m: slightly bleached with a 3 mm QZ-CB vein at 85 associate with PY
66.00	68.00	2.00	20% matrix grey 67.35 m: 3 mm QZ-CB vein 45 at shear fracture
68.00	70.00	2.00	30% matrix, pale or whiteish clasts
70.00	72.00	2.00	70.14-71.47 m: weakly sheared, higher carbonatized
72.00	74.00	2.00	40% matrix, some shear fractures at 45 & 65
74.00	76.00	2.00	40% matrix pale whiteish clast 74.21-74.36 m: sheared at 45
76.00	77.05	1.05	QZ-CB veins 2-20 mm at 10 77.02 m: 1 cm QZ-CB vein 65 with PY
77.05	79.00	1.95	40% matrix
79.00	81.30	2.30	79.72-69.74 m: two QZ-CB veins 3 and 1 mm at 8 with SP 80.95-31.15 m: one CB veinlet, 1 mm 65 with SP
81.30	81.91	0.61	No comment
81.91	83.09	1.18	82 m: 1-2 mm QZ-CB veinlet 75 with SP
83.09	83.90	0.81	One higle angle 80-90 QZ-CB vein 2-15 mm associated with SP, PY SP=2.5% 1% disseminated blackish mineral
83.90	85.00	1.10	83.9-84.3 m: 0.3% disseminated blackish mineral
85.00	86.00	1.00	85.75-85.9 M slightly sheared 45 and 80
86.00	87.00	1.00	86-86.18 m: sheared 20, gougey 86.7-86.91 m: sheared at 35 with few QZ-CB veinlets 1-5 mm
87.00	88.00	1.00	60% pale grey matrix
88.00	89.00	1.00	88.25 m: 5 cm QZ vein 55 baren
89.00	89.99	0.99	88.79-89.34 m: 2 mm QZ-CB vein, 85, baren
89.99	98.38	8.39	Shear zone with strong carbonatization and associated with some SP, GN, CP, TT, at about 75 in general
89.99	91.00	1.01	89.99-90.24 m: sheared 60 gougey with 1 cm QZ-CB lens at 80 with SP 90.74 m: 1 cm calcite vein at 0
91.00	92.00	1.00	70% sheared at 40-130, 20, 70 gougey 91.72-91.82 m: QZ-CB veinlets at 45 and 135
92.00	93.00	1.00	Sheared, 30% gouge, highly carbonatized some calcite veinlets and QZ-CB veinlets 45-70 associated with minor SP
93.00	94.35	1.35	30% sheared, 10% gouge
94.35	94.76	0.41	Gouge, 94.35 m: contact 0. Some SP and blackish mafic mineral. One CB lens, 12 mm, 45
94.76	95.24	0.48	94.76-94.83 m: sheared at 70 gougey some SP 94.89 m: 3 cm silicified with QZ-CB veinlets at 68 94.89-95.13 m: massive sulfide vein, 40% QZ-CB veinlet network, 50% SP, 2.5% CP, 2.5% PY some GN, TT, lower contact is irregular 0 (95.13-95.20 m has the above vein extention >2 mm at 85) 93.89-85.24 m: gouge

95.24	96.28	1.04	Sheared gougey
96.28	97.67	1.39	96.28-96.62 m: competent andesite breccia 96.62-97.67 m: sheared, 10% gouge some QZ-CB veinlets 2-10 mm at 45, 50 with SP, PY
97.67	98.40	0.73	97.67-97.85 m: competent section, minor SP around 97.85 m 97.85-97.98 m: gouge, upper contact at 45 Lower contact = 68, some PY minor SP 97.98-98.07 m: vein consists of 10% QZ-CB, 20% SP 1% CP, 5% Py, 1 cm banded texture at upper contact (some QZ and dark grey seams) Lower contact of vein = 55 98-98.37 m: moderate silicified, minor SP
98.40	99.40	1.00	99.04-99.34 m: Andesite upper contact = 45 Lower contact = 5
99.40	101.00	1.60	Some QZ-CB veinlets 1-6 mm at 10, 45
101.00	103.00	2.00	Few shear fractures 40-45
103.00	105.00	2.00	103-104 m: few high angle fractures 104-104.2 m: trace SP, 1% blackish mineral dissemination
105.00	105.69	0.69	40% matrix 105.55 m: QZ vein 3 mm 45
105.69	106.30	0.61	Sheared, bleached high angle gougey
106.30	107.51	1.21	106.95 m: 3 mm SP, GN vein with minor QZ at 80 107-107.51 m: 5% QZ-CB stringers 1% blackish mineral dissemination, trace SP
107.51	108.81	1.30	108.62 m: 9 mm QZ-CB vein 80 with some PY
108.81	111.00	2.19	50% grey matrix, 50% pale clast
113.00	115.00	2.00	113-113.25 m: high angle silicified (1/2 core) 113.58-113.81 m: 1% disseminated blackish mineral 114.2 m: gouge at 60
115.00	117.60	2.60	20% sheared sections, 40 & 68 gougey 115.38-115.55 m: 1% disseminated blackish mineral 115.78-116.5 m: 30% gouge 116.3 m: CB vein 7 mm 48 with PY 116.61 m: shattered CB/V
117.60	120.33	2.73	CB vein and QZ-CB-vein zone on top of shear zone
120.33	126.59	6.26	Shear zone. 126.59 m: shear contact 30
117.60	118.84	1.24	117.64 m: QZ-CB vein 4 cm, 65 118.47 m: QZ-CB vein 4 cm at 15 118.56 m: QZ-CB vein 1 cm 30 118.63 m: QZ-CB vein 3 cm 50 118.52-118.84 m: moderate silicified
118.84	120.33	1.49	Totally cooked up, carbonatized and silicified with QZ-CB vein intrusion 118.84 m: QZ-CB vein 15 mm at 45 contact 120.18 m: Lower contact 30 120.18-120.31 m: Dark grey silicilious matrix brecciated up andesite
120.33	121.33	1.00	80% sheared, 60% gouge 120.33-120.50 m: weakly silicified
121.33	122.33	1.00	Gouge, grey
122.23	123.33	1.10	90% gouge
123.33	124.33	1.00	90% gouge
124.33	126.59	2.26	90% gouge. Some broken up CB vein, some PY cubes
126.59	127.51	0.92	50% greyish matrix
127.51	129.01	1.50	Very low recovery, ground core and muddy soft ground just round rubbles of 1-4 cm in diameters were recovered,

			some QZ-CB with massive SP, 2 cm in diameter
129.01	130.14	1.13	Few QZ-CB veinlets 2 mm 45-50
130.14	131.63	1.49	40% sheared sections at 45 131.28-131.40 m: some QZ veins = 1 cm 40
131.63	133.00	1.37	A weakly sheared fracture 85-90 associated with some QZ passing through the whole section
133.00	134.64	1.64	134.08-134.64 m: sheared
134.64	138.94	4.30	Silicified. Upper contact 70. Lower contact 60
134.64	136.46	1.82	136.14 m: weakly silicified, grey matrix pale clasts. Some QZ spot, 5 cm round (this high ample, QZ vein) 136.14-136.46 m: strongly silicified 136.24 m: contact = 75 (silcified vein)
136.46	138.94	2.48	Totally silicified matrix, pale whiteish grey Partial silicified clasts
138.94	151.60	12.66	Few QZ-CB veinlets 1-2 mm with PY at 30, 60, 75
141.60	146.48	4.88	Andesite, upper contact = 75 Grey altered
151.60	143.60	8.00	144.6-141.9 m: slightly sheared at 80 142.54 m: shear fracture 65 with QZ-CB vein 1 cm 142.81-143 m: sheared at 85
143.60	146.48	2.88	143.17-143.72 m: weakley sheared at 70 144.45m: Three QZ-CB veinlets 2-3 mm, 68 145.38-145.77 m: Intruded and cooked up with dark grey intermediate-basic volcanics 145.46 at 75, some shear fracture 146-146.48 m: 2-3 mm high angle QZ veinlet cut by some low angle 0-10 QZ-CB veinlets 1 mm. These veinlets all cut the dark grey fractures
146.48	157.57	11.09	Andesite: Mainly altered, intruded, and cooked up by the dark grey intermediate-basic volcanics. Pale grey & dark grey
146.48	148.00	1.52	30% cooked with intermediate-basic volcanics high PY in locals
148.00	150.00	2.00	80% cooked up or brecciated with the intermediate-basic volcanics 148.7-149 m: QZ vein 3 mm 80, with some GN, SP, CP 149.3-150 m: 5% PY veinlets 45 and dissemination
150.00	152.00	2.00	Some high angle and low angle quartz veinlets
152.00	153.55	1.55	Bleached, 20% silicified sections with quartz veins 70 high PY
153.55	156.00	2.45	153.55-155.47 m: Moderately silicified with QZ veinlet network 155.47-156 m: strongly silicified
156.00	157.57	1.57	157.19-157.57 m: brecciated up by intermediate-basic volcanics QZ-CB veinlets, baren, 1-6 mm, 30-60

HI-TEC RESOURCE MANAGEMENT LTD. DIAMOND DRILL LOG

Property Name: HANK Client Name: LAC MINERALS LTD.

Hole No: 89-DDH-06 Azimuth: 320 Borehole Test Method: Tropari
Test Azimuth: 318.5 Core Size: NQ & BQ

Northing:10573.316 Dip: -50 Test Dip: -51 Date Started: August 23, 19
Easting: 10073.404
Elevation:1103.950m Length: 111.86 m Test Depth: 110.34 m Date Completed: August 25, 19

LITHOLOGY

FROM	TO	WIDTH (m)	
12.88	18.72	5.84	Andesite Breccia
18.72	32.60	13.88	Andesite; 32.6-35.5 m: Lapilli
35.50	44.32	8.82	Andesite Breccia
44.32	57.30	12.98	Andesite
57.30	68.63	11.33	Andesite Breccia
68.63	74.20	5.57	Andesite (local clasts)
74.20	82.34	8.14	Andesite Breccia
82.34	85.11	2.77	Andesite
85.11	86.86	1.75	Latite
86.86	91.38	4.52	Andesite (cooked up and/or brecciated up by intermediate-basic volcanics)
91.38	92.54	1.16	Andesitic Intrusion
92.54	92.84	0.30	Pale Lava (?)
92.84	111.86	19.02	Andesite (Cooked up and/or brecciated up by intermediate basic volcanics)

ALTERATION

12.88	44.32	31.44	)
50.90	81.38	30.48	)Moderate or strong PY-CB-Sericite alteration

MINERALIZATION

40.00	44.32	4.32	Shear zone, high carbonatized (?) whiteish grey color could be good gold (?) mineralization
57.84	59.10	1.26	Veins of GN, SP, CP, TT appearances, but very low recovery
	12.19	12.19	Casing overburden should be less than 12 m
14.32		14.32	First footage mark
12.88		12.88	Measure back from 14.32 m
12.88		12.88	Start sampling
	12.88	12.88	32 cm recovered, 5 pieces altered and unaltered core 3-6 cm long
	31.39	31.39	NQ Core
31.39	111.86	80.47	BQ core
12.88	13.00	0.12	Minor limonite
12.88	18.72	5.84	Andesite breccia; altered light grey to pale grey 50% sheared, 20% gouge, contains 0.62 m QZ-CB vein section
12.88	14.32	1.44	Sheared, 60% gouge at 10 (?)
14.32	16.00	1.68	30% sheared at 10 & 45, 5% gouge 14.84-14.96 m: silicified, grey, upper contact 40 Lower contact 300
16.00	17.37	1.37	16-16.61 m: QZ-CB vein zone, 70% QZ-CB veins mainly at 45 16.06 m: 5 cm QZ-CB vein 30 16.24-16.45 cm QZ-CB vein upper contact at 43. Lower

			contact 317
17.37	18.72	1.35	Sheared at 55. Crumbly.
18.72	32.62	13.90	Andesite; altered, grey-pale grey
20.33	21.12	0.79	Andesite breccia
18.72	21.00	2.28	Minor QZ-pink CB veinlets at 19.85 m and 21 m
21.00	23.00	2.00	Few QZ-CB veinlets 2 mm at 10-40
			21.2 m: QZ-CB vein 5 cm 35
23.00	25.00	2.00	23.98-24 m: sheared at 10 gougey some black mineral lenses
			2 mm 10
			24.54-24.68 m: 10% PY pervasive
			24.55 m: 1 cm QZ-CB vein 45
25.00	27.00	2.00	26.32-27.15 m: sheared gougey
			26.69-26.85 m: 5% maroon volcanics (?) associated with 5% PY
27.00	29.00	2.00	27.7 m: 4 cm gouge 45
			28.05-28.18 m: sheared at 10
29.00	31.39	2.39	30.9 m: 5 cm sheared at 32
31.39	33.00	1.61	31.80-31.89 m: gougey, lost core here
			32.1 m: 2 cm silicified vein at 35
33.00	35.00	2.00	10% sheared, local blackish mineral dissemination
			33-33.1 m: shattered, some limonitic fractures
35.00	37.00	2.00	35.53-35.9 m: 5% maroon volcanics, weakly silicified
			35.53-36.19 m: weakly sheared
			36.22 m & 36.47 m: some QZ veinlets associated with
			PY 10-30
37.00	39.00	2.00	37-38 m: weakly silicified with some QZ veinlets
			37.49 m: & 37.8 m: high PY spots
			38.3 m: 12 mm QZ-CB vein 25, trace SP
32.62	35.50	2.88	Lapilli (possible marker horizon - correlate with 89-7)
35.50	44.32	8.82	Andesite breccia: altered, grey-pale grey
39.00	41.00	2.00	40% sheared 0-10, 20% gouge
40.25	44.32	4.07	Shear zone, white, grey highly carbonatized but no distinct
			veining sheared at 1-10
41.00	43.00	2.00	90% sheared, 10% gouge, trace SP
43.00	44.32	1.32	80% sheared
			43.18 m: QZ-CB vein 8 mm 45
			43.32-43.47 m: moderate silicified with QZ-CB lens and PY
			44.2-44.1 m: QZ-CB vein with 20% PY upper contact 45,
			lower contact 20
44.32	57.30	12.98	Andesite; weak altered, pale green minor grey clasts
			(argillite ?)
			50.9- : grey color
44.32	46.00	1.68	45-45.7 m: slightly sheared
			45.3 m: few blebs of SP with QZ-CB veinlet
			45.69 m: 3 mm QZ-CB veinlet 43 with SP
46.00	48.00	2.00	1% grey argillaceous clasts < 1 cm
			46.82 m: minor SP in 1 mm QZ-CB veinlet 45
48.00	50.90	2.90	50.22-50.9 m: slightly sheared
			50.22 m: 8 mm calcite rhodochrosite vein 45
			50.48-50.75 m: gouge at 40
50.90	53.00	2.10	50.9-51.08 m: slightly sheared, trace SP with calcite veinlet
			51.47-51.61 m: sheared at 45
53.00	55.00	2.00	One 90 fracture
55.00	56.72	1.72	55.52-55.63 m: bleached, with some PY and grey bandings 45
55.73	57.30	1.57	Prophyritic andesite
57.30	68.63	11.33	Andesite breccia
56.72	57.84	1.12	57.26 m: gouge 1.5 cm 75

			57.51-57.84 m: shattered
57.84	58.88	1.04	Very low recovery; shattered, rubble size 1-4 cm QZ-CB veins associated with massive GN-SP some CP, TT
58.88	59.10	0.22	QZ vein: lower contact = 10, upper contact not clear with a 3 mm QZ-CB veinlet and PY bands at 47, 2.5% SP some GN, CP, TT
59.10	60.00	0.90	20% clasts
60.00	62.00	2.00	60.4-61.6 m: fracture with 3 mm QZ vein , 90 minor blacking mineral in locals 40% clasts, 60% matrix
62.00	64.00	2.00	62.68 m: QZ-CB vein 1 cm, 65 with PY 50% matrix
64.00	66.00	2.00	30% clasts, few pale maroon and grey clasts
66.00	68.00	2.00	10% slightly sheared, 30% pale whiteish clasts
68.00	70.00	2.00	60% sheared section, 5% gouge, sheared at 40-45 68.21 m: QZ-CB vein 1.5 cm 45 69-70 m: strongly sheared
69.00	87.00	18.00	Broken up, 50% sheared, 30% shattered, 20% gouge
68.63	74.20	5.57	Andesite, local clasts
70.00	74.00	4.00	70% sheared, 20% shattered, 5% gouge
72.00	74.00	2.00	30% sheared, 5% gouge 73.66 m: some SP along fracture 50 73.42-73.66 m: three QZ veins 1 cm at 50, 70, 45
74.00	76.00	2.00	30% sheared, 5% gouge
74.20	82.34	8.14	Andesite breccia
76.00	78.00	2.00	90% sheared at 60, 80, 30% gouge 77.9 m: 15 mm QZ vein at 77
78.00	81.38	3.38	79.68-80.2 m: mud, grey 78-79.15 m: 30% shattered
81.38	84.00	2.62	20% sheared sections at 10-40, 5% gouge
82.34	85.11	2.77	Andesite; pale green
85.11	86.86	1.75	Latite: brownish, upper contact = 45 (?)
84.20		84.20	Major CB-PY-Sericite altered zone end
84.00	86.86	2.86	85-86.86 m: 30% gouge at 45
86.86	91.38	4.52	Andesite strongly cooked up and/or brecciated up by dark grey intermediate-basic volcanics
86.86	89.00	2.14	PY flooded with some calcite veinlets and blebs
89.00	91.00	2.00	QZ-CB veinlet network 1 mm- 3 mm. PY occurred as above
91.00	93.00	2.00	92.52-93 m: 5% QZ-CB veinlets (1-3 mm) with minor PY
91.38	92.54	1.16	Andesitic Intrusion Pale slightly cooked by the dark grey intermediate-basic volcanics, with 20% pale to prey phenocryst flakes (altered mafic minerals) as in Hole 89-2 to 5. Lower contact =75
92.54	92.84	0.30	Pale lava (?)
92.84	111.86	19.02	Andesite; cooked up and/or brecciated up by the dark grey intermediate-basic volcanics
93.00	96.00	3.00	93.66-94.15 m: fracture 90 with 2mm QZ veinlet
96.00		96.00	
96.00	99.00	3.00	96.8 m: two QZ-CB veins, 8 mm at 43 96.7-96.95 m: sheared at 45 gougey 97.12 m: 3 cm gouge 50 97.52-97.58 m: QZ vein, upper contact 43 Lower contact)0 97.59-97.74 m: gouge
99.00	102.00	3.00	100.53 m: QZ vein 16 mm 10

			100.9-101.57 m: slightly bleached & weakly sheared with QZ-CB veinlets
102.00	105.00	3.00	Few CB veinlets 1 mm at 75
105.00	108.81	3.81	105.37 m: QZ vein 2 cm, 63 with PY 105.34-105.8 m: slightly bleached 108.67-108.81 m: shattered grits, washed away gouge (?) low recovery
108.81	111.86	3.05	111.70-111.85 m: rubbles (shattered)

HI-TEC RESOURCE MANAGEMENT LTD. DIAMOND DRILL LOG

Property Name: HANK Client Name: LAC MINERALS LTD.

Borehole Test Method: None

Hole No: 89-DDH-07 Azimuth: 320 Test Azimuth: Core Size: NQ & BQ

Northing:10573.316 Dip: -70 Test Dip: Date Started: August 25, 1989
Easting: 10073.404
Elevation:1103.950m Length: 101.20 m Test Depth: Date Completed:August 27, 1989

LITHOLOGY

FROM	TO	WIDTH (m)	
10.32	21.69	11.37	Andesite breccia
21.69	35.28	13.59	Andesite
35.28	38.06	2.78	Lapilli
38.06	51.40	13.34	Andesite
51.40	101.20	49.80	Andesite breccia
			ALTERATION
10.32	51.40	41.08	)
75.00	101.20	26.20	(are the moderate high PY-CB-Sericite alteration zone
			MINERALIZATION
46.91	47.81	0.90	)
88.36	88.75	0.39	)Two small sections with good SP, GN, CP, TT, associated with QZ-CB veins
1.00	9.14	8.14	Casing. Overburden should be than 9 m.
11.28		11.28	First footage mark
10.32		10.32	Measured back from 11.28 m
	31.39	31.39	NQ core
31.39	101.20	69.81	BQ core
	10.32	10.32	19 cm recovery, 7 pieces
			No distinct limonite zone in core
10.32	21.69	11.37	Andesite breccia, grey altered
12.16	20.02	7.86	Shear zone
10.32	12.16	1.84	10.32-11.18 m: silicified 10.53-10.70 m: sheared and shattered 11.25-11.5 m: sheared at 40 12-12.16 m: bleached
12.16	12.84	0.68	Gouge at 7 to Core Axis
		0.00	12.75 m: 6 mm SP, GN, CP vein with QZ-CB lens at 45
12.84	13.84	1.00	13-13.54 m: 50% sheared, gougey
13.84	15.00	1.16	50% sheared at 10-40 Minor SP with CB in gouge
15.00	17.00	2.00	80% sheared, 50% gouge 16.58-16.65 m: silicified
17.00	19.00	2.00	80% sheared, 70% gouge One QZ-CB lens 6 mm, 58%
19.00	20.02	1.02	19.06-19.15 m: grey seam sheared at 50 19.43 m: sheared at 78 with CB vein 4 mm 19.81 m: sheared at 45

20.02	21.69	1.67	Moderate silicified 20.23-20.52 m: a irregular PY vein 3-10 mm = 80 21.36 m: 12 mm QZ-CB vein at 45
21.69	35.28	13.59	Andesite; pale grey
21.69	23.78	2.09	Bleached 23.22-23.46 m: cooked up with 50% maroon volcanics 23.52-23.69 m: maroon volcanics, contact = 60
23.78	24.50	0.72	Bleached with QZ vein intrusion 23.78-23.88 m: QZ vein, barren 23.88-24.53 m: 80% silicified with QZ veinlets
24.53	26.52	1.99	24.53-24.91 m: cooked up with 60% maroon volcanics 25.18 m: 4 cm gouge at 70 25.28 m: 2.5 cm QZ-CB vein 45
26.52	27.52	1.00	20% maroon volcanics Two QZ-CB veinlets 2 mm, 10, 45 with PY-SP
27.52	29.56	2.04	27.52-28.15 m: 20% maroon volcanics
29.56	31.39	1.83	Few QZ-CB veinlets 1 mm associated with high PY at 5 & 45
31.39	33.48	2.09	31.73-33.14 m: 40% maroon volcanics, some QZ veinlets 4 mm at 80 and 45
33.48	34.23	0.75	2.5% blackish mineral dissemination Two calcite vein 6 mm & 18 mm, 45 trace SP
34.23	35.28	1.05	Weakley sheared, 5% maroon volcanics
35.28	38.06	2.78	Lapilli Mainly white (90%) clasts and some grey (10%) clasts 1-20 mm in diameter angular to subround, some shards, clasts orientation at 45 (bedding) Upper contact = 30, Lower contact = 32 36.7 m: some rhodochrosite
38.06	51.40	13.34	Andesite; pale grey - whiteish grey
38.06	39.31	1.25	38.06-38.14 m: silicified at 35 and 325 38.14-38.46 m: gouge 38.46-39.31 m: cooked up with 50% maroon volcanics Some gouge at 10 39.22 m: QZ-CB vein 4 cm 27
39.31	41.57	2.26	Strong carbonatization and weak silicification 20% weakly sheared sections at 45, one at 90 39.35 & 34.37 m: 1 cm thick QZ vein 10 39.57 m: 2 cm QZ vein at 20, trace SP 39.85-41.57 m QZ vein network 2-6 mm
41.57	43.00	1.43	Few QZ & QZ-CB veinlets 1-3 mm at 40, 45, 60
43.00	45.00	2.00	44.04-45.54 m: sheared at 40 44.9-45 m: shattered
45.00	46.91	1.91	Sheared, 20% gouge mainly at 30-45
46.91	47.56	0.65	46.91-47.19 m: slightly silicified 47.20-47.4 m: calcite vein at 43, baren 47.4-47.47 m: slightly silicified
47.56	47.81	0.25	10% SP zone GN, CP, TT massive veinlet at 47.62-47.69 m, 47 47.85 m: 4 mm calcite vein, 60 with some above sulphides
47.87	48.84	0.97	40% sheared and shattered, 2.5% gouge
48.84	51.40	2.56	49.18-49.29 m: gouge at 45 50-50.7 m: broken along fractures 90 and 45 51-51.4 m: gouge
51.40	76.00	24.60	Andesite breccia; weak altered pale to light green clast in pale maroon-grey matrix
51.40	54.00	2.60	Bright greenish chloritized mafic minerals in clasts

			2.5% matrix
			53.8-54 m: some pyritic amygdales
54.00	56.00	2.00	54-54.6 m: some amygdale filled with PY-CB-QZ
			55.76-56.1 m: sheared and shattered
56.00	58.00	2.00	40% pale maroon-grey matrix
58.00	60.00	2.00	70% matrix
60.00	63.00	3.00	60.04-60.38 m: ash (?)
			60.38-61.38 m: sheared at 70
			61.38-63 m: 40% maroon volcanics
63.00	66.00	3.00	40% matrix
			63.26-64.67 m: sheared and shattered at 33
66.00	69.00	3.00	30% matrix
			66.78-67.13 m: sheared at 10, gougey
			68-69 m: some bright green clasts
69.00	72.00	3.00	69-69.2 m: some baren QZ-CB veinlets 2-10 mm 45
72.00	75.00	3.00	73.58-74 m: sheared
			74.15 m: baren QZ-CB vein 12 mm 60
			72-73.3 m: some bright green clasts (highly chleritized)
76.00	101.20	25.20	Andesite breccia as above, but higher alteration,
			greyish matrix and whiteish clasts
75.00	77.00	2.00	76 m: 1 cm QZ-CB vein 45
77.00	79.00	2.00	30% matrix
79.00	80.00	1.00	40% matrix. Some QZ-CB veinlets 2 mm 45-65
80.00	81.38	1.38	Sheared, 5% gouge
			80 m: gouge 4 cm at 40
81.38	84.10	2.72	81.74-84.1 m: sheared at 35, 10% gouge
			82.26-82.31 m: 2 mm QZ-CB vein with SP at 75
84.10	86.16	2.06	84.1-84.43 m: sheared, 5% gouge
			84.93-85.70 m: some QZ veinlets 1 mm
			85.70-85.80 m: PY veinlet 1 mm
			Pocket of PY 1 cm
			85.80-86.16 m: QZ-CB veinlets at 50-70, 2 mm
86.16	87.47	1.31	Less altered
			QZ-CB veinlets < 1 mm
			86.34-86.74 m: SP veinlets (with QZ-CB) 1 mm @ 45
87.47	88.36	0.89	PY less disseminated more concentrated
			87.47-88.04 m: some QZ-CB veinlets
			Few PY rich veinlets < 1 mm @ 25-35
			Few SP-PY rich veinlets < 1-3 mm @ 20, 50 & 310
88.36	88.75	0.39	QZ-CB veinlets < 1 mm - 2 cm
			88.42-88.48 m: PY-SP rich veinlets @ 25 & 70
			PY = 2.5% SP = 5%
			88.62-88.75 m: SP - rich veinlets @ 55
			SP = 5% GN = 0.3%
88.75	90.52	1.77	88.75-89.10 m: veinlet of SP & PY < 1 mm @ 85
			SP = 1% PY = 0.3%
			89.10-89.45 : bleached and altered zones
			QZ-CB veinlets < 1 mm - 2 mm
			89.45 - 90.17: QZ-CB veinlets <1-2 mm @ 310, 330, 10
			90.17-90.52: many QZ-CB veinlets < 1-2 mm
			some SP & PY rich < 1 m @ 280, 320 highly altered
90.52	92.54	2.02	90.52-91.18: veinlets of PY < 1 mm @ 310, 40
			91.18-92.54: 10% pale clasts
			Few QZ-CB & 1 mm @ 70
			Few PY veinlets < 1 mm @ 310, 90, 70
92.54	93.57	1.03	20% pale clasts

			92.78-93.20: gouge
93.57	95.28	1.71	93.57-94.17: pale clasts 20% 94.17-94.41: bleached QZ-CB veinlet 3 mm (broken section) 94.41-95.10: pale clasts 10% QZ-CB veinlets 2 mm @ 45, 60, PY = 2.5% 95.10-95.28: shear & QZ-CB veinlet @ 310, veinlet SP = 1%
95.28	96.23	0.95	Gouge, shear QZ-CB veinlet 2 mm (broken up)
96.23	98.00	1.77	96.62-97 m: fractures 85, 50% sheared and 30% shattered 97.36 m: QZ-CB lens 8 mm, 80 97.82 m: QZ-CB veinlets 2 mm 80 with minor PY
98.00	99.66	1.66	30% sheared at 30-45, 60, 2.5% gouge
99.66	101.20	1.54	100.38-101.10 m: shattered
101.20		101.20	Binding rods, Try to go down for 13 hours but couldn't make it. Finally lost 14 rods and a core barrel

HI-TEC RESOURCE MANAGEMENT LTD. DIAMOND DRILL LOG

Property Name: HANK Client Name: LAC MINERALS LTD.
Borehole Test Method: None

Hole No: 89-DDH-08 Azimuth: 313 Test Azimuth: 333.5 (?) Core Size: NQ & BQ

Northing:10454.401 Dip: -55 Test Dip: -58 Date Started: August 27, 1989
Easting: 10037.800
Elevation:1114.040m Length: 233.77 m Test Depth: 233.25 m Date Completed:August 30, 1989

LITHOLOGY:

FROM	TO	WIDTH (m)	
26.52	55.38	28.86	Andesite
55.38	61.83	6.45	Andesite breccia
61.83	66.85	5.02	Andesite
66.85	69.76	2.91	Tuff (= 65)
69.76	72.50	2.74	Andesite
72.50	81.50	9.00	Andesite breccia
81.50	84.77	3.27	Andesite
84.77	139.22	54.45	Andesite breccia
139.22	147.25	8.03	Andesite
147.25	151.29	4.04	Andesite dyke ? or sill
151.29	157.62	6.33	Andesite
157.62	163.75	6.13	Andesite breccia
163.75	194.15	30.40	Andesite
194.15	221.63	27.48	Clastic andesite
221.63	224.07	2.44	Andesite
224.07	233.77	9.70	Clastic andesite

ALTERATION:

26.52	145.00	118.48	)
151.29	193.84	42.55	)Moderate or strong PY-CB-Sericite alteration

MINERALIZATION

53.33	53.77	0.44	QZ-CB veins associated with SP, GN, TT, CP
84.77	86.31	1.54	Shear zone, QZ-CB veins associated with SP, GN, CP
92.64	93.17	0.53	QZ-CB veins with SP, GN
	18.29	18.29	Casing
	26.52	26.52	Overburden, 5.18 m core recovered
	61.87	61.87	NQ core
61.87	233.77	171.90	BQ core
26.52	40.00	13.48	Limonite existent. (33-40 m minor limonite)
20.42		20.42	First footage mark
26.52	55.38	28.86	Andesite; altered grey locally, intruded or cooked by maroon volcanics, silicious
26.52	38.28	11.76	Shear zone
26.52	29.56	3.04	Sheared and shattered, 20% gouge low recovery, limonite gouge and fracture, shattered
29.56	32.61	3.05	Sheared, 30% shattered, 30% gouge One 1 cm QZ-CB spot with GN 31.7: 2 cm QZ vein 40 Minor maroon volcanics, limonite as above
32.61	35.66	3.05	32.61-33.4 m: sheared and shattered, limonitic 33.4-34.9 m: solid andesite, brecciated by 5%

			maroon volcanics, silicious 34.9-35.66 m: gouge
35.66	38.71	3.05	20% gouge 38.25-38.71 m: few maroon volcanic veinlets 1 mm 5, 38
38.71	41.00	2.29	40% sheared sections, 5% gouge 40.38-41.10 m: maroon volcanics veins, Upper contact = 45, lower contact = 85
41.00	43.00	2.00	41.34 m: gouge 4 cm at 60 5% maroon silicious volcanics
43.00	45.00	2.00	20% sheared at 40, 60, 10% gouge 2.5% maroon volcanics 44.35-45.2 m: 1% hematitic - pyritic altered mafic minerals
45.00	47.00	2.00	5% maroon silicious volcanics cooked up and some veinlets 1 mm at 40 46 m: 2 mm QZ-CB vein barren at 60 to Core axis 46.64-47 m: sheared at 60
47.00	48.76	1.76	70% of section cooked with maroon volcanics
48.76	62.36	13.60	Shear zone.
48.76	50.76	2.00	Sheared, 20% gouge, high angles & low angles whiteish color
50.76	51.76	1.00	70% gouge
51.76	53.33	1.57	30% sheared at 40, 10% gouge 50% sections cooked up with maroon volcanics
53.33	53.77	0.44	2.5% SP, with some CP, TT, GN associated with a 3 mm QZ-CB vein 72, 5 brench QZ-CB veinlets 3 mm at 8
53.77	55.48	1.71	Sheared, very low recovery
55.38	61.83	6.45	Andesite breccia. Lower contact = 63
55.48	56.68	1.20	55.48-56.27 = 60% silicified 55.48-55.54 m: 3 cm QZ vein at 48 55.86-55.99 m: irregular QZ vein roughly 30 56.27-56.66 m: sheared at 25, 80% gouge
56.66	57.67	1.01	56.77-56.83 m: gouge 65 56.83-56.99 m: QZ-CB vein at 70 contacts, baven 56.99-57.67 m: silicified, slightly sheared
57.67	60.04	2.37	Moderate sheared at 70, 45, crumbly
60.04	61.87	1.83	Weakly sheared, 60% crumbly sections
61.87	64.00	2.13	61.87-62.4 m: shear fractures 85-90
64.00	66.00	2.00	Few QZ veinlets at 45 1-5 mm
61.83	66.85	5.02	Andesite
66.00	68.00	2.00	66.85-68 m: some strong carbonate altered banding and beddings at 50
66.85	69.76	2.91	Tuff (ash) Upper contact = 65, lower contact not clear cooked up by maroon volcanics and calcite veins pale green grey - highly sericitized
68.00	70.00	2.00	69.19-70.4 m: 80% cooked up with maroon volcanics 68-68.2 m and 69-16.19 m: shattered 68.82 m: QZ-CB vein 2 cm 47, trace SP
69.76	72.50	2.74	Andesite; pale greenish grey (highly sericitized)
70.00	72.00	2.00	30% cooked with maroon volcanics Some QZ-CB veinlets 2-9 mm, 20-35
72.00	73.11	1.11	72.49-72.82 m: silicified 72.42 m: gouge 2 cm at 85 72.61 m: one QZ feldspar spot 2 cm in diameter white & brown
72.50	81.50	9.00	Andesite breccia; pale grey
72.36	76.63	4.27	Shear zone

73.11	73.80	0.69	80% silicified with 1/2% SP concentrated at QZ vein (irregular 1-3 mm) 73.31 m: upper contact of silicification at 45 73.75 m: lower contact = 60
73.80	75.29	1.49	Gouge
75.29	76.63	1.34	Sheared, 60% gouge 75.9 m: 2-3 mm calcite/rhodochrosite vein 80
76.63	78.00	1.37	Clasts are faded Some sheared fractures at 30 and 45
78.00	80.00	2.00	Weakly sheared at 30
80.00	82.00	2.00	81.3-82 m: sheared at 45, some calcite veinlets 2-3 mm at 45
81.50	84.77	3.27	Andesite; pale grey
82.00	84.00	2.00	82-82.7 m: slighly sheared at 30 and 60, some gouge 83.47 m: 1.5 cm QZ-CB lens 8
84.00	84.77	0.77	Whiteish color, few shear fractures at 80, 30, 40
84.77	86.31	1.54	Shear zone with QZ-CB veins, SP, GN
84.77	85.46	0.69	Sheared 85.07-85.47 m: gouge, upper contact at 42 = lower contact Trace SP
85.46	86.07	0.61	Brecciated and weakly silicified with QZ vein 85.47-85.56 m: carbonatized and weakly silicified at 30, some SP 85.56-85.63: dark grey matrix with 10% clasts and some GN, PY at 30 85.67-77 m: QZ vein at 30, minor PY 85.77-86.07 m: grey matrix with 80% small clasts (5 mm), minor CP
86.07	86.31	0.24	5% SP, some GN 86.17-86.28 m: QZ-CB vein 30 with SP, PY, GN
84.77	139.22	54.45	Andesite breccia
86.31	87.16	0.85	Some maroon carbonate (siderite ?) or PY rims around some of the clasts Few fractures 60, 80
87.16	88.03	0.87	80% clast, very pale green, highly sericitized and carbonatized, 20% greyish matrix
88.03	90.00	1.97	Clast as above 88.03-88.57 m: weakly sheared at 30, 45
89.84	90.30	0.46	Dyke of latite (?) contacts at 38, very fine grain
		0.00	brown & greyish
90.00	92.64	2.64	Only 10% matrix 90.98-91.08 m: sheared at 10 92.34-92.45 m: sheared at 20, 40 gougey
92.64	93.17	0.53	1% SP, some GN 92.82 m: QZ-CB veinlet 3 mm, 53 with SP, GN 92.85 and 92.89 m: 1 mm QZ-CB vein 45 & 10 with SP 92.95 m: QZ-CB vein 1 cm, 43 with SP, GN 93.2 and 93.15 m: some PY lenses , 5 mm and 10 mm thick
93.17	95.00	1.83	Weakly sheared, minor SP at some shear fracture 94.55 m: QZ-CB veinlet 3 mm at 0 with SP 94.64-94.71 m: some irregular QZ-CB spots and veinlets
95.00	97.00	2.00	Very pale greenish grey soft altered clasts-sericite, carbonate & talc (?) alteration intensity is 4-5
97.00	99.00	2.00	As above

99.00	101.00	2.00	As above
101.00	103.00	2.00	As above
103.00	105.00	2.00	As above, but only 20% clasts
105.00	107.00	2.00	As above
107.00	109.00	2.00	50% clasts as above 107.6 m: 2 cm gouge
109.00	111.00	2.00	As above, 40% clast
111.00	113.00	2.00	111.74-112 m: sheared, gougey
113.00	115.00	2.00	20% weakly sheared sections at 40, 70 113.16-113.26 m: 50% gouge at 40
115.00	117.00	2.00	20% clasts, 10% sheared sections, some gougey fractures at 20, 60
117.00	119.00	2.00	20% clasts as above, 20% sheared sections 10, 45, 5% gouge
119.00	121.00	2.00	119.08-119.73 m: gouge. Some shear fractures 50, 60
		0.00	120.47 m: 6 mm QZ vein, 45 some PY
		0.00	120.78 m: 2 cm QZ lens at 10
		0.00	120.66 m: two grey clasts (argillite ?)
121.00	122.81	1.81	Grey plus pale green sections 121.23-122.06 m: Few QZ veinlets 2-5 mm at 20-40 122.30 m: QZ vein 2 cm, 10
122.81	124.05	1.24	Pale green. Some QZ veinlets 3-10 mm at 10, 30, 60
124.05	126.00	1.95	124.09-124.38 m: QZ vein 43 with 0.3% PY 124.38-125 m: 70% sheared, at 30, 45, gougey 125.92-126.06 m: gouge
126.00	126.74	0.74	126.08-126.74 m: Intruded and brecciated up with QZ-CB veins contact angles are not clear because of shattered contacts. This section consists of three major veins, 4 cm thick at 25 and some other irregular veins
126.74	129.00	2.26	127.21-127.52 m: some maroon matrix Whiteish clasts 30%, pale grey and pale maroon matrix
129.00	131.00	2.00	70% whiteish clasts, 30% pale maroon, grey matrix
131.00	133.00	2.00	As above
133.00	135.00	2.00	As above
135.00	137.00	2.00	40% clasts
137.00	139.00	2.00	137.94-138.21 m: some low angle PY-QZ veinlets at 65-80, 2-3 mm, some irregular lenses, 1-2 cm
139.22	147.25	8.03	Andesite; altered, pale color, massive
139.00	141.00	2.00	No comment
141.00	143.00	2.00	141.38 and 141.44 m: PY-QZ veinlets 4 mm & 2 mm are at 60 142.86-143: sheared and shattered at 75
143.00	145.00	2.00	Few QZ-PY veinlets 2 mm - 3 mm, 70-90
145.00	147.25	2.25	Gradually changed to unaltered section of andesite Few 1 cm thick calcite veins, 20-30 146.87-147.05 m: some maroon bandings at 38
147.25	151.29	4.04	Andesite (dyke or sill) Fine grains, dark green, massive, magnetic, both contact are 42. The contacts show gradually changing because of cook up.
147.25	149.26	2.01	Dark greyish green
149.26	151.29	2.03	As above. Some calcite and QZ-CB veinlets 0.5-4 mm mainly 30-45
151.29	157.62	6.33	Andesite (?); altered, pale color, maroon banding in locals
151.29	153.00	1.71	151.85-152.07 m: sheared and shattered 151.29-151.9 m: alteration intensity is 4 152.07-153.2 m: some maroon bandings and fracturings
153.00	155.00	2.00	Rich PY fracture fillings and dissemination

155.00	157.00	2.00	156.6 m: 4 cm PY/silicious bandings at 34 157.26-157.42 m: broken up along high angle fracture 157.47 and 157.555 m: 1 cm QZ-CB veins at 47
157.00	159.00	2.00	157-159.39 m: = shattered 158.68 and 158.89 m: some PY and maroon bandings at 28
157.62	163.75	6.13	Andesite breccia; pale color
157.67			Mis latch
159.00	161.00	2.00	160.21-161 m: PY is very fine disseminated
161.00	163.00	2.00	Pale green
163.00	165.57	2.57	163.34-163.78 m: shear fracture 80-90, 10% PY minor blackish mineral, 2 mm calcite veinlet 165.15-165.26 m: and 165.5-165.58 m: shattered 168.28-168.47 m: 5% maroon banding 45, 80
163.75	194.15	30.40	Andesite; mainly altered, grey but 165.57-168 m: green, weakly altered 176-183 m: pale greenish grey
165.57	167.94	2.37	Green, local magnetic 167.48-167.61 m: sheared and shattered, gouges
167.94	169.00	1.06	Cooked up with 10% maroon volcanics
169.00	171.00	2.00	Sheared, some fracture at 45, 90, 50%
171.00	173.00	2.00	5% maroon bandings at 10 Some QZ-CB and calcite veinlet at 80 172.97 m: 2 cm gouge at 12.
173.00	176.00	3.00	173.1-174.47 m: sheared at 55, with calcite and PY veinlets Few QZ-CB veinlets 2-8 mm 20-32
176.00	179.00	3.00	Pale greenish grey 176.16 m: 5 mm gouge at 0 176.88 m: 2 cm QZ-CB vein 45 with some PY 177.21 m: sheared at 65 177.35 m: QZ vein 2 mm 60, rich PY
179.00	182.00	3.00	Pale greenish grey as above 180.1-180.43 m: slightly sheared at 75
182.00	184.00	2.00	As above. Few QZ veins and QZ-CB veins 1-3 mm at 30, 60
184.00	185.85	1.85	Pale greyish color
185.85	186.37	0.52	Weakly silicified with QZ veinlet 1 mm-15 mm mainly at 40 and 32
186.37	188.24	1.87	Pale grey. Few QZ-CB veinlets 1 mm 30, 45
188.24	190.00	1.76	Few QZ-CB veinlets 25, 42 Four PY-CB veinlets 1-2 mm, 45, one at 75 188.24-189.30 m: grey 189.30-190 m: pale greenish grey, slightly bleached
190.00	191.32	1.32	Slightly bleached 190.21 m: QZ-CB vein >4 mm, 87 with trace SP, GN 190.59-190.72 m: QZ silicified vein, 10% PY at 40 and 320 contacts
191.32	191.93	0.61	Moderately silicified by QZ veinlet network contacts are at 75
191.93	193.84	1.91	Bleached. Pale grey, local PY spots up to 3 cm and veins, 3 mm thick 192.94-193.21 m: weakly silicified and brecciated dark grey contacts at 15. 193.21-193.84 m: sheared at 75
194.15	221.63	27.48	Clastic andesite weakly altered. Pale to light green andesitic clast in pale grey intermediate (andesitic also ?) matrix, this rock type R. Turna used to call it agglomerate, York called it clastic andesite

			in 1988. Since the clasts were unique and brecciated from the interbeded andesite could be subvolcanic formation or intrusive.
193.84	196.14	2.30	Pale green, 50% sheared, 1% blackish mineral 194-194.3 m: shattered 195.25-196.12 m: sheared at 90, gougey shattered, rich PY
196.14	198.00	1.86	Bleached, pale grey, 30% sheared and shattered
198.00	201.00	3.00	20% clast 198.34m: 8 mm QZ-CB vein at 30 200-200.24 m: shattered
201.00	203.00	2.00	20% clasts, major PY in the blebs, altered in clasts
203.00	206.00	3.00	10% shattered in locals 20% green clast
206.00	209.00	3.00	20% green clast 206.73 m: 8 cm altered section, with PY and 5% carbonate, dark grey at 30 207.85-209.35 m: 5% CB veinlets 1-8 mm at 45-50
209.00	210.97	1.97	A shear fracture 85 with QZ-CB vein 5 mm
210.97	214.00	3.03	40% light green andesitic clasts
214.00	217.00	3.00	20% clast as above
217.00	220.00	3.00	20% clast as above 219-220 m: 5% QZ vein 2-8 mm at 0, 45
221.63	224.07	2.44	Andesite; light green, weakly altered with some yellowish disseminated carbonate, upper contact = 8, lower contact = 5
220.00	223.00	3.00	No comment
223.00	226.00	3.00	224.31-224.37 m: sheared at 45 with 5 mm QZ-CB vein 90% clast
224.07	233.77	9.70	Clastic andesite as above
226.00	228.65	2.65	10% clast 227 m: 10 cm sheared at 70
228.65	229.48	0.83	228.65 m: sheared at 60 gouge 1 cm 228.76-228.36 m: silicified with QZ veins contacts are 40
229.48	231.76	2.28	20% clast
231.76	233.77	2.01	20% clast 233.49-233.63 m: 10% blackish disseminated mineral

HI-TEC RESOURCE MANAGEMENT LTD. DIAMOND DRILL LOG

Property Name: HANK Client Name: LAC MINERALS LTD.

Hole No: 89-DDH-09 Azimuth: 316.5 Borehole Test Method: Tropari
Test Azimuth: Failed Core Size: NQ & BQ

Northing:11017.406 Dip: -62 Test Dip: Failed Date Started: August 31, 1989
Easting: 10434.765
Elevation:1124.170m Length: 270.36 m Test Depth: Date Completed:d: September 3, 1989

LITHOLOGY

FROM	TO	WIDTH (m)	
5.18	21.16	15.98	Andesite (green)
21.16	24.47	3.31	Andesite & unaltered intrusive Dyke (?)
24.47	26.75	2.28	PPAN
26.75	61.23	34.48	Andesite breccia
61.23	64.24	3.01	PPAN
64.24	128.88	64.64	Andesite breccia
128.88	136.00	7.12	Andesite
136.00	137.75	1.75	Andesite breccia
137.25	153.55	16.30	Andesite
153.55	216.46	62.91	Andesite breccia
216.46	221.85	5.39	Intermediate subvolcanics
221.85	270.36	48.51	Clastic andesite

ALTERATION

5.18	246.37	241.19	Weak PY-CB-Sericite alteration
246.37	270.36	23.99	Strong PY-CB-Sericite alteration

MINERALIZATION

Most of the andesite breccia (with greenish andesitic clasts) zones are with 2.5% PY

255.11	269.74	14.63	QZ-CB vein zone
259.00	264.00	5.00	Major SP, GN appearances
1.00	4.57	3.57	Casing
	31.39	31.39	NQ core
31.39	270.36	238.97	BQ core
5.18		5.18	First footage mark
4.57	5.18	0.61	0.64 m: dark greenish grey clastic tuff
4.57	10.00	5.43	Minor limonite on fracture surfaces
5.18	21.16	15.98	Andesite; pale greenish color in general, with about 20-40% pale to light greenish sericite-carbonate and pyrite replacement of the mafic (?) minerals 1-2 mm in diameter. Matrix is also pale green but whiteish grey in locals. Minor small clasts-green or grey in parts. Alteration intensity is between 4 to 5
5.18	7.00	1.82	5.18-5.84 m: silicified, some high angle fractures
7.00	9.00	2.00	Few argillite (?) clasts 0.5-1 cm
9.00	11.00	2.00	As above.
11.00	13.00	2.00	As above.
13.00	15.00	2.00	10% sheared actions at 30, 5% gouge 14.62 m: 3 mm CB veinlet 41 with SP, GN
15.00	17.00	2.00	16.92-17.07 m: weakly silicified at 40 17 m: a pale green-carbonate vein 12 mm at 75 rich

			chlorite
17.00	19.00	2.00	30% moderately sheared sections, 30-45, 2.5% gouge
19.00	21.00	2.00	19.38-19.48 m: bleached, with 3 mm QZ-CB vein at 45
21.16	24.47	3.31	Andesite; cooked and brecciated up by 10-20% of the dark brownish grey (fresh) andesite dyke.
21.00	23.00	2.00	21.52-23.3 m: greenish and pale maroon
23.00	24.47	1.47	Pale green 23.15-23.47 m: sheared at 47, gougey 24.06 m: some SP with 2 mm calcite veinlet 38
24.47	26.75	2.28	Dark brownish grey andesite, magnetic, very fine grain, but has 0.3-1% local phenocrysts of mafic mineral (pseudomorphed by biotite) 1-3 mm, so its porphyritic texture in parts. This could be the undifferentiated PPAN Upper contact = 10. Lower contact = 80 24.47-26.1 m: pale to light green-maroon, 5% clast 26.01-26.5 m: dark brownish grey magnetic unaltered.
26.75	28.76	2.01	Breccia; 10% andesitic clasts brecciated with the above maroon-grey matrix, 1% 1-3 mm mafic mineral phenocrysts
28.76	61.23	32.47	Andesite breccia; pale grey, very pale green or whiteish clasts in pale marron-grey or grey matrix. Alteration intensity is between 4 & 5
28.76	30.00	1.24	29.28 m: QZ vein 1 cm 45 with PY
30.00	31.39	1.39	30.11-20.30 m: Irregular 1 cm QZ vein = 70, minor PY
31.39	33.00	1.61	Few fracture, 65-75
33.00	35.00	2.00	20% greenish clasts 33.82-33.94 m: 20% calcite veinlets 2-4 mm with some SP. One calcite lens 2.5 cm thick
35.00	37.00	2.00	60% clasts 36.4-36.76 m: sheared 20, 40 36.4 m: some SP, GN at 1 cm shear fracture 20
37.00	39.00	2.00	37.3 m: 5 mm gouge 4 60% clasts as above.
39.00	41.00	2.00	50% clast. Few QZ-CB veinlets 1-2 mm
41.00	43.00	2.00	60% clast
43.00	45.00	2.00	44.03-44.17 m: weakly silicified with QZ vein 1 cm at 38. Silicified section contacts are 32. Some SP, GN associated with QZ vein 44.95 m: 1 mm QZ-CB veinlet 40 with GN
45.00	47.00	2.00	70% clast
47.00	49.00	2.00	40% clast 47.58 m: 5 cm sheared at 45 47.6-47.68 m: silicified, 45, with minor SP at tiny QZ-CB vein 1/2 mm. 47.74-47.78 m: some SP in QZ-CB spots 1 cm 48.71 m: 3 mm QZ-CB veinlets 47 with CP
49.00	51.00	2.00	30% clast 49 m: 12 mm gouge at 7 49.53 m: 1.5 cm QZ-CB vein 42 with some PY 50.52 m: 4 cm sheared and shattered
51.00	53.00	2.00	51.33 m: 1 cm rhodochrosite lens 51.98 m: 1 mm CB veinlet with minor SP 52.16-52.42 m: Sheared at 37, 50% gouge
53.00	55.00	2.00	60% clast 54.56-54.53 m: sheared gougey
50.00	61.23	11.23	Light greenish clasts
55.47	60.50	5.03	Silicious matrix, greyish

55.00	57.00	2.00	80% green clast
57.00	59.00	2.00	As above
59.00	61.00	2.00	70% green clast 60.63 and 60.68 m: 3 mm barren QZ-CB vein 35
61.23	64.24	3.01	Andesite. Dark greenish grey. (same as PPAN ?) 61.23-61.53 m: magnetic
61.00	63.00	2.00	61-61.23 m: shattered 62.74 m: 1.5 cm QZ-CB vein 45 with 10% SP
63.00	65.00	2.00	63.64-64 m: sheared, 40% shattered, 5% gouge 63.70 m: 3 mm calcite veinlet 40 with SP, GN
64.24	128.88	64.64	Andesite breccia as above; green-whiteish clasts in grey matrix
65.00	67.00	2.00	60% greenish clast
67.00	69.00	2.00	40% clasts 67.98 m: 5 cm gouge with calcite vein at 45 minor SP, CP
69.00	71.00	2.00	69.61-70.02 m: green, andesite contacts are 5 70.08 m: 6 cm dark brownish grey alt vein at 20 70.28 m: 5 mm QZ-CB vein 30, some SP 70.64 m: 12 mm QZ-CB vein 40 minor GN
71.00	73.00	2.00	70% clast 72.76 m: QZ-CB vein 3 mm 40 with SP, GN 72.81-73.23 m: a 90 fracture with minor GN, SP
73.00	75.00	2.00	50% clast
75.00	77.00	2.00	80% clast
77.00	79.00	2.00	90% clasts 78.18 m: 2 mm barite lens with SP 78.12 m: 2 mm QZ-CB vein 42 with PY
79.00	81.00	2.00	80% clasts
81.00	83.00	2.00	82.31 m: 1 mm CB veinlet, 50 with GN 82.37-82.52 m: sheared and shattered
83.00	85.00	2.00	80% clasts 84.59 m: minor QZ-pink carbonate at fracture 45 84.32 m: 1 cm gouge at 45
85.00	87.00	2.00	60% clasts 86.34 m: & 86.77 M are slightly shattered
87.00	89.00	2.00	90% clasts
89.00	91.00	2.00	30% clasts 90.72m: 6 mm QZ vein 38 90.68-90.88 m: greyish alteration
91.00	93.00	2.00	40% clasts
93.00	95.00	2.00	93.45-95.79 m: sheared 95.75 m: 1 cm gouge 6, high PY
94.62	95.25	0.63	Dyke. Dark brownish grey very fine grain massive. Upper contact = 40. Lower contact = 43 94.85 m: 6 cm hand sample
95.00	97.00	2.00	60% clasts
97.00	99.00	2.00	20% clasts
99.00	101.30	2.30	40% clasts
101.10	104.30	3.20	Low recovery (washed away mud). 30% sheared at 50, 10% gouge 101.3-102.7 m: sheared gougey 102.84-102.96 m: gouge 103.28 m: fracture 80 with little chodochrosite lens
104.30	106.00	1.70	40% clasts, minor rhodochrosite at fractures
106.00	106.87	0.87	70% clasts, few fractures 5, 38 with minor

			calcite fillings.
106.87	107.15	0.28	30% sheared at 50, 1% SP
			107.03 m: 2 cm QZ vein 42 with SP and GN
107.15	108.00	0.85	Calcite veinlets 1 mm at 30
108.00	110.20	2.20	70% clast. Few calcite veinlets and two gypsum veinlets
110.20	110.43	0.23	110.2-110.33 m: is shape QZ-CB vein 1-1.2 cm thick
			with 70% SP, minor GN
			110.31 m: shear gouge at 45 with QZ-CB vein
			5% SP for this section
110.43	112.00	1.57	30% clasts
112.00	114.00	2.00	2.5% gypsum veins - 1-20 mm, 5% 80, 75
114.00	115.70	1.70	20% clasts, few gypsum veinlets
115.70	117.49	1.79	Sheared at 45-50, 20% gouge, 0.1% rhodochrosite
117.49	119.00	1.51	30% clasts
			Few calcite veinlets 2 mm at 45
			118.44-118.57 m: bleached at 45
			118.7 m: 3 cm sheared at 45
			118.91-119.02 m: bleached, 2 cm silicified at 0
119.00	121.00	2.00	30% clasts
			2.5% gypsum veins 1 cm, 45, 60, 2 mm at 45, 75
121.00	123.00	2.00	121.47 m: 6 cm sheared at 45, 1 cm gouge, 6 mm gypsum
			vein
			121.62 m: 12 mm gouge at 45
123.00	125.00	2.00	30% clast, 10% gypsum veinlets
			124.25 m: QZ-CB vein 1 cm at 50
125.00	127.10	2.10	125.35-126.1 m: sheared at 30, 10% gouge
			Few gypsum veinlets
127.20	136.00	8.80	Grey color, higher alteration intensity, very fade
			texture
127.10	129.00	1.90	90% sheared at 60-80, 20% gouge
129.00	131.00	2.00	1% gypsum veinlets 1-2 mm
128.88	136.00	7.12	Andesite
			Upper contact at 80 (?). Lower contact 47
131.00	133.00	2.00	2.5% gypsum veinlets
133.00	135.00	2.00	1% gypsum veinlets
135.00	136.00	1.00	136 m: 8 cm sheared (contact) at 47
136.00	137.25	1.25	Andesite breccia; light green andesitic clast in light maroon-grey
			matrix
137.25	153.55	16.30	Andesite; local brecciated, light green, minor clasts
136.00	138.00	2.00	40% clasts. Few shear fractures at 45, 50
			137.28 m: minor SP at shear fracture 45
138.00	140.00	2.00	40% clasts 2.5% gypsum veinlets
140.00	142.00	2.00	2.5% gypsum veinlets, 70% clasts
142.00	144.00	2.00	142.31 m: gypsum vein 2 cm, 35
144.00	146.00	2.00	10% matrix 0.3% gypsum veinlets
146.00	148.00	2.00	5% matrix, 0.3% gpysum veinlets
148.00	150.00	2.00	2.5% matrix, few whiteish clasts, 3 mm
			1% gypsum veinlets
			149.59 m: 3 mm QZ-CB gypsum veins at 20 & 30
150.00	152.00	2.00	1% gypsum veinlets 1-13 mm mainly 40
152.00	154.00	2.00	152.69-152.80 m: silicified at 42
153.55	216.46	62.91	Andesite breccia, upper contact 66
			Pale greenish to whiteish clast in grey matrix
154.00	156.00	2.00	70% faded cast
			156 m: 1 cm QZ-CB vein 38 with PY
156.00	157.58	1.58	70% casts

			156.76 m: 1 cm QZ-CB vein 47
157.58	159.53	1.95	90% sheared at 50 (?), 20% gouge, Minor SP, GN, at some gougey fractures Two rhodochrosite lens 2 mm and 5 mm
159.53	159.91	0.38	Dyke; dark green, fine grain, massive, unaltered Upper contact = 40. Lower contact = 35 (gougey)
159.53	160.28	0.75	160.06-160.28 m: shattered
160.28	162.00	1.72	30% (?) clasts. Matrix is partially crystallized
162.00	164.00	2.00	20% clasts 162.94 m: 4 cm shattered
164.00	167.00	3.00	30% clasts, 3% gypsum veinlets. 165.47 m: 5 cm bleached, at 47, two QZ-CB-gypsum veinlets
167.00	170.00	3.00	30% clasts 169.31-169.60 m: sheared at 60, few gypsum veinlets
170.00	173.00	3.00	10% clast, 0.3% gypsum veinlets Matrix has 2.5% blueish green altered mafic phenocrysts
173.00	176.00	3.00	20% clasts, matrix as above 172-173.15 m: sheared at 65 with 10% gypsum veins 1-6 mm 65.
176.00	179.00	3.00	90% clasts matrix as above 176.24 m: 6 mm gypsum vein at gougey fracture 42 177.09 m: 1 cm gypsum-carbonate vein 58
179.00	181.12	2.12	40% clasts, 0.3% gypsum veinlets
181.12	182.33	1.21	181.15 m: 1.5 cm sheared at 45 with some QZ-CB 181.92-182.31 cm sheared at 45, gougey
182.33	185.00	2.67	30% clasts. Few gypsum veinlets 3 mm, 5 mm, 47
185.00	188.00	3.00	10% clast 186.5-188.59 m: cooked up with another stage (Third stage) of maroon dyke (?), massive very fine grain
188.00	191.00	3.00	188.48-189 m: 78% maroon silicious veins, main at 10-20 189.16 m: 18 mm QZ-CB shear vein at 18 190.3-190.52 m: silicified and sheared at 30 190.91-191.10 M sheared at 48
191.00	194.00	3.00	Clear clasts 50%
194.00	197.00	3.00	50% clasts as above 195.86-198.87 m: weakly sheared 196.3 m: 4 cm gouge at 43 196.31-196.42 m: moderately silicified at 43 197 m: 6 cm silicious vein at 40 & 340
197.00	200.00	3.00	197.52 m: sheared at 45, gougey
199.01	199.47	0.46	Lapilli in fine dark grey ash, clasts consists of green grey, whiteish and pale brown, total 80%, round to angular. This lapilli also slightly intruded by the greyish intermediate (?) subvolcanics, it is as interbed of the green andesite
200.00	203.00	3.00	20% matrix, 1% gypsum veinlets
203.00	206.00	3.00	As above
206.00	209.00	3.00	50% matrix
209.00	212.00	3.00	70% matrix 210.56-210.62 m: 3 cm silicified with PY stringers at 45 and 285 respectively
212.00	215.00	3.00	70% matrix 213.61-213.82 m: 7 cm long silicified at 48 7 cm long gouge and then 5 cm long QZ-CB gypsum vein at 45

			214.5 m: 5 cm carbonatized (calcite and siderite) section of 45
215.00	218.00	3.00	1% gypsum veinlets
216.46	221.85	5.39	Mainly intermediate subvolcanics (one stage of the andesites). The matrix of above breccia fine grain, greenish grey and maroon-grey with mafic phenocrysts (altered) 1-2.5% in locals. Minor breccia in parts. Upper contact not clear. Lower contact 5.
218.00	221.00	3.00	1% clasts, 1% gypsum stringers
221.00	224.00	3.00	221.85-224 m: 60% matrix
221.85	270.36	48.51	Clastic andesite; (green clasts)
224.00	227.00	3.00	90% matrix 226.2 m: shear fracture 40 226.43-226.55 m: shear at 75
227.00	229.59	2.59	90% matrix
229.59	233.14	3.55	Moderately sheared
229.59	231.00	1.41	80% sheared, 20% gouge 229.67 m: sheared at 45 230.48-231 m: gouge at 80
231.00	233.14	2.14	20% sheared at 75-80 20% clasts
233.14	235.00	1.86	20% clasts 233.86-233.93 m: gouge at 30 and 330
235.00	237.02	2.02	30% clasts 235.47 m: 1 cm rhodochrosite-gypsum vein 30
237.02	239.20	2.18	20% clasts 238.7-239.2 m: bleached, 4 mm QZ-CB vein at 80, gouges
239.20	241.00	1.80	30% clasts Few rhodochrosite veinlets 2 mm at 5
241.00	243.00	2.00	40% clasts 1% carbonate veinlets associated with gypsum at 30 & 50
243.00	245.00	2.00	5% clasts 243-243.47 m: moderate sheared at 45, gougey 243.44 m: 5 cm altered vein, bleached, at 42 243.69-243.88 m: sheared at 75 and 40 244.27-244.88 m: calcite veinlets 1-5 mm at 5, 45, & 315
245.00	246.37	1.37	5% clasts 245-245.5 m: 5% carbonate stringers, 1% rhodochrosite
246.37	270.36	23.99	Strong alteration, grey color
246.37	247.76	1.39	246.56 m: calcite vein > 1 mm 86 with SP
247.76	249.01	1.25	40% sheared sections at 40-65 247.80 m: shear fracture 65 with SP 248.2-248.25 m: 5% interstitial SP, GN at shear section 248.75 m: 2 cm QZ vein 25, trace GN 248.94: 2 cm calcite rhodochrosite vein 45
249.01	250.70	1.69	249.17-249.23 m: some elongated SP blebs 3 mm long 0.5 mm thick at 75 trending 249.25-249.3 m: GN-SP 2 mm at fracture 86 250 m: 1 mm GN SP at irregular fracture 250.33-250.48 m: 6 GN, SP veinlets 1-2 mm at 81 250.6-250.66: minor GN, SP, at shear section
250.70	252.06	1.36	251.75 m: 1 cm QZ-CB vein at 40, minor PY 251.82 m: 1 cm QZ-CB vein 5, some PY
252.06	253.00	0.94	Few gougey fractures at 32, 45

			Three QZ-CB veinlets 4 mm at 20, 30, 290
			252.83-253.1 m: 10% PY blebs 2 mm to 20 mm
253.00	254.00	1.00	10% pale green clay mineral (CB-sericite) alteration
			in parts are concentrated with PY
			253.29 m: some SP dissemination
254.00	255.11	1.11	PY occurred as above
			254.68 m: QZ vein 12 mm, 35
255.11	256.74	1.63	Irregular QZ-CB veinning zone; lens blebs stockwork, etc
255.11	256.00	0.89	255.26 m: 2 cm QZ-CB vein 50 with 3 cm gouge below
256.00	257.00	1.00	QZ-CB veinlets concentrate at 256.79-257.03 m:
257.00	258.00	1.00	15% QZ-CB lens, stringers and stockwork, trace SP
257.10	258.50	1.40	Brecciated up with QZ-CB
258.00	259.00	1.00	Moderately sheared 60-80
			Irregular QZ-CB, lens, stockwork, blebs veinlets
259.00	260.00	1.00	40% sheared 60-80, 5% gouge
			259.48-259.60 m: SP along QZ-CB vein and shear
			fracture 80
260.00	261.00	1.00	Sheared
			260.57-261 m: some SP, GN, blebs = 2% in sheared parts
261.00	262.00	1.00	261.3 m: 14 mm thick QZ-CB lens at 30 with SP
			261.5 m: 2 cm QZ-CB vein 42 with SP
			261.93 m: 3.5 cm QZ-CB vein 39 with SP
262.00	263.00	1.00	262-262.85 m: QZ-CB vein breccia, upper contact = 38
			Lower contact = 10, trace SP
263.00	264.00	1.00	263-263.28 m: 20% QZ-CB lenses and stockwork, some GN
			SP
			263.93 m: 2 cm QZ-CB vein 28 with PY
264.00	265.00	1.00	264-264.25 m: bleached
265.00	266.00	1.00	265.67-226.2 m: 20% QZ-CB stockwork
266.00	267.00	1.00	266.81 m: QZ-CB vein > 3 mm 90, trace SP
			266.92 m: QZ-CB vein, 8 mm 42
267.00	268.00	1.00	266.97-267.13 m: 15% PY in bleached section
			267.5-267.64 m: QZ-CB vein at 45, trace SP at lower
			contact
268.00	269.12	1.12	268.9-269.05 m: sheared 45, 90, gougey some
			QZ-CB stockwork
			269.09 m: 8 mm QZ-CB vein 20
269.12	270.36	1.24	267.70 m: 6 mm QZ-CB vein 50

HI-TEC RESOURCE MANAGEMENT LTD. DIAMOND DRILL LOG

Property Name: HANK Client Name: LAC MINERALS LTD.

Borehole Test Method: None

Hole No: 89-DDH-10 Azimuth: 320 Test Azimuth: Core Size: NQ & BQ

Northing:11449.180 Dip: -60 Test Dip: Date Started: September 3, 1989

Easting: 10697.300

Elevation:1105.270m Length: 156.97 m Test Depth: Date Completed: September 6, 1989

LITHOLOGY:

FROM	TO	WIDTH	
6.83	99.82	92.99	Andesite breccia
99.82	113.27	13.45	Andesite
113.27	118.67	5.40	Tuff
118.67	156.97	38.30	Clastic andesite

ALTERATION

PY-CB-Sericite alteration is moderate to high in general

MINERALIZATION

153.95	156.07	2.12	Shear zone, with QZ-CB vein associated with SP, GN
	6.10	6.10	Casing
	4.54	4.54	NQ core
40.54	156.97	116.43	BQ core
8.23		8.23	First footage mark
6.83		6.83	Measured back from 8.23 m
6.83	53.00	56.17	Limonite existent zone
			Limonite mainly on fracture surfaces
6.83	99.82	92.99	Andesite breccia
			Light green or pale whiteish green andesitic
			clasts in greyish matrix (intermediate or andesitic)
6.83	16.86	10.03	60% sheared sections, 20% gouge
6.83	8.23	1.40	70% sheared
			6.83-7.45 m: some high angle shear fractures 85
			7.83-7.92 m: gouge at 45
			8.9-9.48 m: gouge at 87
6.23	11.28	5.05	60% sheared, 30% shattered sections 2.5% gouge
11.28	14.32	3.04	11.28-11.4 m: shattered
			11.62-11.75 m: shattered
14.32	17.37	3.05	14.58-16.25 m: moderate shattered very limonite and
			crumbly small fault
17.37	20.42	3.05	Very limonitic fracture, mainly 40-50, some at 90
20.42	23.47	3.05	21.8-22.5 m: shattered and sheared, very limonitic &
			gougey
22.00	42.00	20.00	Clasts are whiteish grey or grey altered
23.47	26.52	3.05	24.93 m: 5 mm PY vein, 2
			26.4-26.7 m: shattered
26.52	29.56	3.04	Only few clasts
			28.52-29 m: very limonitic sheared and shattered
29.56	31.00	1.44	30% sheared and shattered, very limonitic fractures
			2.5% gouge
31.00	33.00	2.00	20% clasts
33.00	35.00	2.00	10% clasts

			33-33.25 m: gouge at 87
35.00	37.00	2.00	Very faded clasts 35.66 m: 1 mm PY on fracture surface 48 36.8-37.2 m: a very limonitic fracture 90
37.00	39.00	2.00	5% clasts fractures mainly at 28
39.00	40.54	1.54	20% clasts 40.13 m: 6 cm gouge at 70
40.54	41.76	1.22	41.28-41.76 m: moderately shattered, very limonitic
42.00	104.00	62.00	Very faded clasts
41.76	44.00	2.24	41.92-42.8 m: a 90 fracture, very limonitic
44.00	46.00	2.00	About 10% faded clasts. Minor blackish mineral dissemination 44.72-44.8 m: shattered
46.00	48.00	2.00	46.05 and 46.27 m: some disseminated blackish mineral 46.35-46.52 m: and 47.70-47.85 m: shattered and limonitic fracture 85
48.00	50.00	2.00	48.45-49.35 m: one very limonitic fracture at 90 49.44 m: one QZ vein 1 cm, 0, barren
50.00	52.00	2.00	51.55-51.65 m: purpleish grey silicified section at 4, with PY blebs in vugs 3 mm in diameters
52.00	53.95	1.95	53.44-53.63 m: sheared and shattered, gougey
53.95	56.99	3.04	54.19-54.66 m: sheared at 90 54.56-54.66 m: shattered 55-56.48 m: moderate sheared at 90, gougey 56.88-56.99 m: shattered
56.99	60.04	3.05	57.67-58.22 m: sheared and shattered 59.64-60.04 m: sheared at 75-85, shattered, gougey
60.04	62.00	1.96	50% clasts 60.52-60.76 m: sheared, some PY stringers
62.00	64.00	2.00	30% faded clasts. Two QZ-CB veinlets 2 & 7 mm 50, 38
64.00	66.00	2.00	64-65.52 m: 80% clasts 65.18 m: 1 cm gouge 75
65.52	66.67	1.15	No clast, pale grey, upper contact = 70, lower contact sheared and shattered
66.00	68.00	2.00	Lower recovery 66.52-66.66 m: bleached section 50, with 10% PY and some blackish mineral 66.66-67.93 m: moderately shattered and sheared minor QZ-CB (pink) veinlet
68.00	70.00	2.00	69.92-70 m: some disseminated blackish mineral
70.00	72.00	2.00	40% clasts 71.57-72 m: silicified upper contact 40, lower contact not clear, shattered
72.00	74.00	2.00	Few rhodochrosite stringers 73.68-74.3 m: sheared and shattered, gougey
74.00	76.00	2.00	1% QZ-CB stringers 0.5-2 mm, 35-45
76.00	78.00	2.00	77.32-77.38 m: 2.5% blackish mineral 77.39-77.48 m: bleached vein at 43
78.00	80.00	2.00	79.66 m: 3 mm shear fracture with CB and SP, 45
80.00	82.00	2.00	1% calcite and QZ-CB stringers 80.59 m: 3 cm altered vein with 3 mm QZ-CB vein at 12 80.68-81.28 m: some disseminated blackish mineral in parts
82.00	84.00	2.00	20% sheared at 40, 10% shattered, 5% gouge
84.00	86.00	2.00	85.67-86.18 m: sheared and shattered, gougey
86.00	88.00	2.00	20% faded clast, very strong seritized
88.00	90.00	2.00	50% clasts

			88.37 m: 3 mm QZ-CB veinlet at 24
90.00	92.00	2.00	91.19 m: 5 cm pale green altered section (strong PY-CB-Sericite alteration) at 22, with, 20% PY 92.57 m: 6 cm section as above at 47
92.00	94.00	2.00	93.19-93.4 m: sheared at 60, 2 cm gouge 93.9 m: some disseminated blackish mineral
94.00	96.00	2.00	95.04 m: 4 mm QZ-CB vein 60, trace SP 95.36 m: 3 mm QZ-CB stringer, 20 with SP
96.00	98.00	2.00	1 mm QZ-CB veinlet 90 with some PY
98.00	98.92	0.92	98.91: 1 cm gouge at 25
98.92	100.00	1.08	98.92-99.19 m: some calcite stringers 1 mm at 38, 2 99.43-100 m: sheared at 60, gougey
99.82	108.81	8.99	Andesite (?): highly altered, grey
100.00	102.12	2.12	100.62-102.12 m: sheared, 20% shattered, 50% gouge, low recovery
102.12	104.04	1.92	103.29-104.04 m: some high angle shear fracture 85; gougey
104.04	105.76	1.72	.3% disseminated blackish mineral 105.55-105.76 m: 30% gouge at 70
105.76	108.81	3.05	108.49-109.66 m: sheared and shattered
108.81	113.27	4.46	Andesite: light to pale green
108.81	111.86	3.05	108.85 and 111 m: some ground rubbles have SP with QZ-CB ground or washed away about 43% of core
111.86	113.27	1.41	Grey slightly sheared 85
113.27	118.67	5.40	Tuff: 113.27-114.18 m: ash, some fine grain, pale green sections with 1% recrystalline and altered euhedral phenocrysts interbed with some coarse grain layers >2-4 cm green altered, bedding 28-30 114.18-118.67 m: cooked up by the greyish subvolcanics (matrix of the andesite breccia)
113.27	115.67	2.40	See above.
115.67	118.67	3.00	Minor QZ-CB stringers, few clasts up to 9 cm long
118.67	121.90	3.23	Bleached moderately sheared
118.67	119.67	1.00	118.67 m: 1 cm, QZ-CB vein 38 with 50% SP, attached with 1 cm gouge QZ-CB stringers are in network 119-119.67 m: fractures are 60, 30, 90
119.67	121.00	1.33	Shear fracture 90 gougey with QZ-CB veinlets (one pink vein 3 mm 80)
118.67	156.97	38.30	Clastic andesitic (Intermediate) (alteration intensity between 4 & 5)
121.00	121.09	0.09	Weakly sheared at 30, 48, gougey
121.09	124.00	2.91	30% clasts, 123.76-124.07 m: shear fractures 20-45
124.00	126.00	2.00	30% clasts
126.00	128.00	2.00	10% clasts
128.00	130.00	2.00	130 clast, 129.33-129.52 m: shattered
130.00	132.00	2.00	10% clast 130.74 m: 4 mm QZ-rhodochrosite 10
132.00	134.00	2.00	20% clast, 132.1 m: 4 mm calcite at fracture 84
134.00	136.00	2.00	10% clast 134.34 m: 3 mm QZ-CB veinlet 60 with 50% SP-GN
136.00	138.00	2.00	20% clasts 138.54 m: 5 mm QZ-CB veinlet 0, some PY
138.00	139.46	1.46	10% clast, 1% QZ-CB stringers 0.5-2 mm
139.29	142.33	3.04	Recovery = 67.76% Core ground and/or washed away at 139.9 m, 140.5 m and 142.3 m.

139.46	140.33	0.87	140.33 m: only a roughly guessed mark 139.75-140 m: ground core, shattered,a piece of 4 cm section has a 1.1 cm QZ-CB vein 48 with SP and GN
140.33	141.31	0.98	Very low recovery, sheared and shattered some QZ-CB vein 14 mm with 70% SP, GN selvages = 75
141.31	141.94	0.63	10% clast, pale grey and some QZ-CB stringers
141.94	143.41	1.47	Sheared and shattered, very low recovery, 60% gouge 141.94-142.33 m: gouge at 82, with SP and CB vein at upper contact >12 mm (?)
143.41	145.00	1.59	Pale green grey matrix, 10% clasts, local clasts have blackish mineral replacement
145.00	147.00	2.00	Pale green, only few clasts
147.00	149.00	2.00	10% clast 148.85 m: 4 mm rhodochrosite at 18
149.00	151.00	2.00	5% clasts Few QZ-CB stringers 1-2 mm 10 150.35 m: 2 mm QZ-CB stringer 45, with SP, GN
151.00	153.00	2.00	20% clasts 151.6 m: 5 mm rhodochrosite vein at 12
153.00	153.95	0.95	10% clasts
153.95	154.53	0.58	153.95-154.28 m: gouge 72 154.28-154.53 m: weakly silicified and carbonatized with 5% SP, some GN, at 40 and 85-90
154.53	155.90	1.37	Few clasts 154.62-154.79 m: sheared and shattered
155.90	156.07	0.17	50% SP and GN associated with QZ-CB vein at 56
156.07	156.97	0.90	Bleached 156.47 m: 0.5 mm QZ-CB stringer 82 with SP 156.84-156.97 m: gouge
	156.97		End of Hole. Lost one shell and bit. No tropary test

HI-TEC RESOURCE MANAGEMENT LTD. DIAMOND DRILL LOG

Property Name: HANK Client Name: LAC MINERALS LTD.

Borehole Test Method: None

Hole No: 89-DDH-11 Azimuth: 320 Test Azimuth: Core Size: NQ & BQ

Northing:11448.980 Dip: -65 Test Dip: Date Started: September 6, 1989

Easting: 10697.500

Elevation:1105.270m Length: 121.62 m Test Depth: Date Completed: September 8, 1989

LITHOLOGY:

FROM	TO	WIDTH	
8.23	110.42	102.19	Andesite breccia
110.42	112.40	1.98	PPAN
112.40	121.62	9.22	Andesite breccia
			ALTERATION:
			PY-CB-Sericite alteration is moderate to high in general
			MINERALIZATION
72.30	76.70	4.40	Shear zone with minor SP about 10% PY, silicified in parts
84.00	89.42	5.42	Shear zone with some rhodochrosite veinlets locally silicified some SP associated with CB veins
104.48	104.82	0.34	SP associated with QZ-CB veins
108.32	110.42	2.10	Shear zone, massive SP-PY vein, associated with some QZ-CB
	7.62	7.62	Casing. Overburden should be less than 6.1 m
	61.87	61.87	NQ core
61.87	121.62	59.75	BQ core
8.23		8.23	First footage mark
	8.23	8.23	Only 23 cm recovered, included overburden casing
	60.00	60.00	Limonite existent zone. Mainly along on fracture surfaces
8.23	110.42	102.19	Andesite breccia
8.23	9.41	1.18	70% sheared
			8.82-9.01 m: gouge
8.23	13.92	5.69	Rare limonite
9.41	11.00	1.59	Sheared at 55, 75-90, gougey fractures (5%)
			9.77 m: 5 mm calcite vein 42 with SP
11.00	13.10	2.10	20% sheared
13.10	15.00	1.90	10% clasts
			13.62-13.81 m: gouge
			14.14 m: QZ spot 1 cm with SP
13.92	60.00	46.08	Rich limonite in some fractures and sheared sections
15.00	17.00	2.00	2.5% limonite on fracture surface
17.00	19.00	2.00	10% greenish grey clasts (andesitic)
			17-17.37 m: some high angle shear fracture 85 very limonitic
19.00	21.00	2.00	20% clasts
			19.24-19.32 m: very limonitic gouge at 35
21.00	23.00	2.00	21.14-21.33 m: sheared and shattered, limonitic
			22.12-22.31 m: very limonitic gouge
23.00	25.00	2.00	20% clasts
			24-24.92 m: sheared at 75-85 very limonitic gougey
25.00	27.00	2.00	Some porphyritic texture, 1% altered mafic phenocrysts
			1-2 mm in diameters, 5% clasts

			25-25.45 m: sheared
			25.06 m: 5 cm gouge at 36
27.00	29.00	2.00	30% clasts. Limonitic fractures at 40, 65-75
29.00	31.00	2.00	50% clasts
31.00	33.00	2.00	20% clasts
33.00	35.00	2.00	5% clast, some porphyritic texture in matrix
35.00	37.00	2.00	60% clast
37.00	39.00	2.00	30% clasts
39.00	41.00	2.00	70% clasts
41.00	43.00	2.00	30% clasts
			41.2 m: 2 cm gouge at 63
			42.18-42.33 m: gouge at 45
43.00	45.00	2.00	50% clasts, few dark grey clasts, mainly whiteish
			Some fractures 70
45.00	47.00	2.00	30% clasts, whiteish with PY rims
			45.6-46.6 m: a fracture 90, limonitic
47.00	49.00	2.00	70% whiteish clasts as above
			48.4-48.55 m: a limonitic fracture 85, some 35-45
			limonitic fractures
49.00	51.00	2.00	10% matrix more or less silicious
			50.25 m: 12 mm limonitic gouge at 80
51.00	53.00	2.00	5% matrix, 2.5% limonitic, fractures are 20, 45, 70
53.00	55.00	2.00	5% matrix
			53.45-53.53 m: sheared and shattered
			53-53.74 m: limonitic fracture 90
			Some other fractures 10, 50-60
55.00	57.00	2.00	10% matrix
			56.08-56.35 m: sheared at 80, gougey
57.00	59.00	2.00	5% matrix
			57.45-59.54 m: fractures subparrel to core axis
59.00	61.87	2.87	59-60.9 m: 30% matrix
			60.9-61.94 m: bleached, no visible clast
			Still have high angle fractures subparelled to core axis
61.87	63.09	1.22	61.87 m: ground some core, change of BQ bit
			61.87-61.93 m: shattered (?) gougey
			61.87-63.09 m: some shattered rubbles (20%)
63.00	65.30	2.30	Very pale clast, matrix is more or less silicious
63.09	65.00	1.91	10% matrix, one 80 fracture and some at 10, 45
65.00	67.00	2.00	20% matrix as above, pale green high sericitized clasts
			with feldspar phenocrysts 0.5 mm fractures mainly 50
67.00	69.00	2.00	5% matrix, clast as above
			67.09-67.59 m: some high angle fractures 80-90 and some
			at 10
			68.98 m: 2 mm PY with calcite stringer at 45, 4 cm
			bleached
69.00	71.00	2.00	60% clast whitish, 40% matrix as above
			69.88-70.01 m: some rhodochrosite lens (5%)
			70.68 m: minor GN at fracture 73, one rhodochrosite lens
			2 cm long, 4 mm thick beside it
71.00	72.30	1.30	30% matrix
72.30	75.80	3.50	Shear and silicified zone
72.30	75.28	2.98	50% sheared, 5% gouge at 10, 40, 70
			10% shattered, 1% blackish mineral dissemination, trace SP
			72.38-72.72 m: moderately silicified
75.28	76.70	1.42	75.28-75.8 m: sheared at 80, 50, 30% gouge
			75.8-76.7 m: 1% disseminated blackish mineral Tr, SP

76.70	78.00	1.30	1% disseminated blackish mineral in locals - trace SP 77.82 M 6 cm sheared at 52
78.00	80.00	2.00	20% matrix, very strong sericitized, pale green 79.36-79.59 m: bleached section at 45, with 2.5% rhodochrosite veinlets and spots, 2.5% blackish mineral dissemination
80.00	82.00	2.00	50% clasts. Pale green and white, rich PY replacement 80.27-80.47 m: bleached, 1% blackish mineral dissemination Upper contact 50, Lower contact 80
82.00	84.00	2.00	20% clasts 82.67 m: 5 mm QZ- pink CB lens, 45 83-83.48 m: alteration vein, sheared and silicified in parts, 5% blackish mineral 83-83.13 m: strongly sericitized pale green 83.13-83.17 m: feldspar vein 40 with some blackish mineral SP and green fragments 83.17-83.24 m: gouge 45 83.24-83.36 m: silicified vein at 50, with 5 mm black mineral-SP-GN vein at the middle.
84.00	85.66	1.66	30% clast, strongly bleached, Few rhodochrosite stringers 84.61 m: 3 mm altered vein with minor SP
85.66	89.42	3.76	Shear zone with 5% carbonate veins included rhodochrosite and QZ-CB veins, locally silicified, some SP
85.66	87.47	1.81	85.66-85.85 m: shear fractures at 30, 30% gouge with some rhodochrosite and SP 85.98 m: 6 mm QZ vein at 46 with some SP and blackish mineral 86-86.26 m: shear fracture 60 change to 90 with QZ-pink CB 8 mm, 5% blackish mineral and some SP 86.23 m: QZ-pink CB vein 1.7 cm at 33% 86.87 m: 1 cm pink CB vein at 48
87.47	89.42	1.95	80% sheared 20% shattered 88.11-88.29 m: QZ-CB pervasively altered, at 43 88.27 m: 22 mm massive PY 88.52-89.42 m: 60% shattered, some blackish mineral and rhodochrosite
89.42	91.00	1.58	20% clasts
91.00	93.00	2.00	30% clasts 92.68-93 m: some shear fractures at 80, 45
93.00	95.00	2.00	20% clasts. Some QZ-CB stringers 1 mm at 5-10 93.26 m: two 1 mm QZ-CB stringers with SP at 70
95.00	97.00	2.00	50% clasts
97.00	99.00	2.00	60% clasts 99.53 m: calcite vein (lens) 2-10 mm, 35 (vug) 97.57-97.72 m: cooked up with some maroon volcanics (?) banding at 0. (pale maroon)
99.00	101.00	2.00	20% clasts 99.54 m: 2 cm QZ-CB vein at 20; barren
101.00	103.00	2.00	10% clasts 102.83 m: two QZ-pink CB veinlet 4 mm at 20 102-102.19 m: 2.5% SP associated with QZ-CB stringers 70, 295, 1 mm - 5 mm 102.34-102.40 m: SP-QZ-CB stringers as above at 65 and 295 102.9 m: 1 mm SP-QZ-CB stringer at 45
103.00	104.48	1.48	Local minor blackish mineral

104.08	104.82	0.74	104.5-104.63 m: 1 mm QZ-CB veinlet at fracture 75 with SP, PY 104.69-104.82 m: one 2.5 cm QZ-CB vein 63 with 20% SP
104.82	106.27	1.45	104.95-105.40 m: one 87 fracture, gougey 105.63-105.93 m: 5% QZ-CB veinlets 1-5 mm 0, 30 106.12 m: QZ-CB vein 1 cm 25, pale pink 106.05 m: 1 mm SP vein at 40
106.27	108.32	2.05	107.33-107.6 m: shattered
108.32	108.66	0.34	5% SP minor CP 108.42-108.58 m: massive SP-PY associated with 10% CB upper contact sheared at 70. Lower contact = 67 108.58-108.66 m: sheared
108.66	110.43	1.77	108.66.109.17 m: sheared 108.86 m: 12 mm & 30 mm QZ lens with SP 109.17-109.52 m: silicified with 10% QZ veinlets lens and stockworks, upper contact 45, lower contact 295 110.29-110.42 m: gouge
110.42	112.40	1.98	PPAN Pale green with 40% altered felsic phenocrysts (feldspar) 2-3 mm in locals. Mafic mineral are pale green altered 1-3 mm long 111.92 m: 7 mm QZ-pink CB vein at 20 112.09-112.25 m: shattered
112.40	121.62	9.22	Andesite breccia
112.40	114.07	1.67	Sheared 30% gouge trace SP
114.07	115.62	1.55	70% sheared, 30% gouge 114.96 m: 2.3 cm QZ vein 32
115.62	117.95	2.33	115.62-117.73 m: 40% clasts 117.73-117.89 m: PPAN 117.89-117.95 m: shattered
117.95	118.87	0.92	Pale greenish grey 0.3% SP associated with calcite stringers 1-2 mm, some pink carbonate, weakly sheared
118.87	120.00	1.13	Light green, 40% clasts 119.67 m: 6 mm calcite vein 10
120.00	121.62	1.62	Light green, 60% clasts
121.62			End of hole Hole caved in, 2 bits gone, no drilling-rod pulled out, no tropary test

APPENDIX IVb

GEOTECHNICAL LOGS AND ANALYTICAL DATA FOR

DIAMOND DRILL HOLES

HOLE NUMBER DDH 89-1		SAMPLE											ME
Recovery	R.Q.D.	From	To	Width (m)	PY%	VN%	A	F	Sample Number		ppb Au	GMT Au	GI
0.78/2=39%	(0.78-0.22)/2=28%	12.00	14.00	2.00	2.50	0.00	5	5	101001		23		
1.46/2=73%	(1.46-0.25)/2=60.5%	14.00	16.00	2.00	2.50	0.30	5	7	101002		29		
2/2=100%	(2-0.3)/2=85%	16.00	18.00	2.00	2.50	1.00	5	5	101003		110		
1.96/2=98%	(1.96-0.72)/2=62%	18.00	20.00	2.00	2.50	Tr	5	3	101004		39		
1.89/2=94.5%	(189-0.56)/2=66.5%	20.00	22.00	2.00	2.50	1.00	5	5	101005		200	0.21	
2.09/2=104.5%	(209-0.45)/2=82%	22.00	24.00	2.00	2.50	Tr	5	7	101006		32		
(1.25/1.3=96.15%	(1.25-0.47)1.3=28.33%	24.00	25.30	1.30	1.00	Tr	5	5	101007		35		
1.63/1.7=95.88%	(1.63-0.32)/1.7=77.06%	25.30	27.00	1.70	2.50	1.00	5	4	101008		35		
2/2=100%	(2-0.83)/2=58.5%	27.00	29.00	2.00	5.00	Tr	5	3	101009	SP	36		
1.84/2=92%	(1.84-0.4)/2=72%	29.00	31.00	2.00	2.50	0.30	8	9	101010		170	0.21	
1.33/1.86=71.51%	(1.33-0)/1.86=71.51%	31.00	32.86	1.86	5.00	Tr	6	8	101011		248	0.27	
1.33/1.35=98.52%	(1.35-0.34)/1.35=74.81%	32.86	34.21	1.35	5.00	5.00	7	5	101012		1018	0.62	
1.7/1.79=94.97%	(1.7-0.1)/1.79=89.39%	34.21	36.00	1.79	5.00	0.03	6	7	101013		117		
0.9/2=45%	(0.9-0.1)/2=40%	36.00	38.00	2.00	5.00	2.50	6	6	101014		260	0.27	
2/2=100%	(2-0.42)/2=69%	38.00	40.00	2.00	5.00	0.10	5	3	101015		159	0.17	
1.85/2.05=90.24%	(1.85-0.25)/2.05=78.05%	40.00	42.05	2.05	2.50	0.30	5	3	101016		32		
0.51/0.51=100%	(0.51-0.26)/0.51=49.02%	42.05	42.56	0.51	5.00	10.00	5	2	101017	SP,GN,CP	140		
1.46/1.44=101.4%	(1.46-1.2)/1.44=18.06%	42.56	44.00	1.44	5.00	0.10	5	5	101018		19		
1.97/2=98.5%	(1.97-0.37)/2=80%	44.00	46.00	2.00	5.00	0.10	5	5	101019	Tr,SP,GN	90		
1.89/2=94.5%	(1.89-0.48)/2=70.5%	46.00	48.00	2.00	5.00	0.30	5	4	101020	Tr,SP,GN	130		
2/2=100%	(2-0.61)/2=69.5%	48.00	50.00	2.00	5.00	0.30	5	3	101021	SP	189	0.21	
1.64/2=82%	(1.64-0.36)/2=64%	50.00	52.00	2.00	5.00	1.00	5	6	101022		52		
1.77/2=88.5%	(1.77-0.73)/2=52%	52.00	54.00	2.00	5.00	0.30	5	3	101023	SP,GN	214	0.24	
1.51/1.65=91.52%	(1.51-0.67)/2=42%	54.00	55.65	1.65	5.00	1.00	5	4	101024		262	0.31	
0.53/0.53=100%	(0.50-0.38)/8.53=28.30%	55.65	56.18	0.53	2.50	30.00	5	2	101025		103		
0.81/0.82=98.78%	(0.81-0.42)/0.82=47.56%	56.18	57.00	0.82	5.00	2.50	5	3	101026		315	0.45	
1.98/2=99%	(1.98-1.38)/2=30%	57.00	59.00	2.00	2.50	0.30	5	3	101027		525	0.62	
2.63/2.63=100%	(2.63-1.71)/2.63=34.98%	59.00	61.63	2.63	2.50	2.50	5	3	101028		66		
0.66/0.73=90.42%	(0.66-0.2)/0.73=63.01%	61.63	62.36	0.73	2.50	20.00	7	4	101029	CP,TT,GN	4990	5.18	2.7
0.31/0.34=91.18%	(0.31-0)/0.34=91.18%	62.36	62.70	0.34	5.00	Tr	9	4	101030		202	0.24	
0.48/0.49=97.96%	(0.48-0.32)/0.49=32.65%	72.70	63.19	0.49	5.00	10.00	7	3	101031	CP,SP,GN	2871	2.78	2.9
1.81/1.81=100%	(1.81-1.59)/1.81=12.15%	63.19	65.00	1.81	5.00	1.00	5	2	101032		53		
2/2=100%	(2-1.6)/2=20%	65.00	67.00	2.00	2.50	1.00	4	2	101033		86		
1.95/2=97.5%	(1.95-1.51)/2=19%	67.00	69.00	2.00	2.50	2.50	4	2	101034		120		
2.06/2=103%	(2.06-1.78)/2=14%	69.00	71.00	2.00	1.00	1.00	3	2	101035		138		
2/2=100%	(2-1.51)/2=24.5%	71.00	73.00	2.00	1.00	5.00	4	2	101036		145		
1.92/2=91%	(1.92-1.4)/2=26%	73.00	75.00	2.00	2.50	5.00	5	2	101037		884	0.27	
2.06/2=103%	(2.06-1.61)/2=22.5%	75.00	77.00	2.00	2.50	2.50	5	2	101038	Tr,SP	255	0.41	
2/2=100%	(2-1.6)/2=20%	77.00	79.00	2.00	2.50	1.00	5	3	101039		43		
1.96/2=98%	(1.96-0.88)/2=54%	79.00	81.00	2.00	5.00	2.50	5	4	101040	Tr,SP	139		
1.08/1.16=93.1%	(1.08-0.96)/1.16=10.34%	81.00	82.16	1.16	5.00	0.30	5	2	101041		154	0.27	
0.21/0.21=100%	(0.21-0)/0.21=100%	82.16	82.37	0.21	5.00	80.00	9	5	101042	SP,CP	10000	95.28	
1.62/1.63=99.39%	(1.62-0.72)/1.63=55.21%	82.37	84.00	1.63	5.00	0.30	5	3	101043		124		
1.95/2=97.5	(1.95-1.2)/2=37.5%	84.00	86.00	2.00	2.50	1.00	5	2	101044		183	0.17	
2/2=100%	(2-1.68)/2=16%	86.00	88.00	2.00	2.50	2.50	5	2	101045		281	0.48	
0.85/0.85=100%	(0.85-0.74)/0.85=12.94%	88.00	88.85	0.85	5.00	1.00	5	2	101046		180	0.17	
0.28/0.28=1000%	(0.28-0.1)10.28=64.29%	88.85	89.13	0.28	5.00	5.00	7	5	101047	2.5%SP&GN	2822	2.88	1.9
0.59/0.59=100%	(0.59-0.16)/0.59=72.88%	89.13	89.72	0.59	5.00	5.00	5	3	101048	Tr,SP	311	0.41	
0.58/0.8=72.5%	(0.58-0.16)/0.8=52.5%	89.72	90.52	0.80	5.00	2.50	6	5	101049	SP,GN	1474	1.61	
0.82/1.48=55.44%	(0.82-0)/1.48=55.41%	90.52	92.00	1.48	10.00	2.50	9	10	101050	SP	388	0.48	
1.38/1.57=87.90%	(1.38-0.14)/1.57=78.98%	92.00	93.57	1.57	10.00	2.50	7	8	101051		94		
0.96/1.11=86.49%	(0.96-1)/1.11=86.49%	93.57	94.68	1.11	10.00	0.00	8	9	101052		65		
0.37/0.41=90.24%	(0.37-0)/0.41=90.24%	94.68	95.09	0.04	1.00	90.00	9	5	101053	GN,SP,CP	272	0.31	

HOLE NUMBER	DDH 89-2	SAMPLE							Sample		
Recovery	R.Q.D.	From	TO	Width (m)	PY%	VN%	A	F	Number		ppb Au
1.82/3.3=55.15%	(1.82-0.14)/3.3 = 50.91%	20.17	23.47	3.30	2.50	0.30	9	10	41201		193
2.49/2.53=98.42%	(2.49-0.36)/2.53=84.19%	23.47	26.00	2.53	2.50	0.30	8	9	41202		204
1.73/2=86.5%	(1.73-0.167)/2=78.5%	26.00	28.00	2.00	5.00	1.00	6	6	41203		273
2/2 = 100%	(2-0.22)/2=89%	28.00	30.00	2.00	5.00	0.30	5	5	41204		67
1.75/2=87.5%	(1.75-0.68)/2=53.5%	30.00	32.00	2.00	5.00	Tr	5	5	41205		143
1.96/2=98%	(1.96-0.59)/2=68.5%	32.00	34.00	2.00	5.00	Tr	5	4	41206		37
2/2=100%	(2-0.34)/2=83%	34.00	36.00	2.00	5.00	1.00	5	5	41207		96
1.93/2=96.5%	(1.93-0.58)/2=67.5%	36.00	38.00	2.00	2.50	1.00	5	4	41208		169
2.23/2.23=100%	(2.23-0.81)/2=71%	38.00	40.23	2.23	2.50	0.30	5	6	41209		55
1.24/2.09=59.33%	(1.24-0.46)/2.09=37.32%	40.23	42.32	2.09	5.00	Tr	5	4	41210		89
0.82/2.48=33.06%	(0.82-0.1)/2.48=29.03%	42.32	44.80	2.48	2.50	1.00	7	10	41211		106
1.37/1.41=97.16%	(1.37-0.35)/1.41=72.34%	44.80	46.21	1.41	5.00	2.50	5	5	41212	SP,GN,CP	579
1.76/1.79=98.32%	(1.76-1.3)/1.79=25.7%	46.21	48.00	1.79	5.00	0.30	5	2	41213		308
1/1=100%	(1-0.23)/2=77%	48.00	49.00	1.00	2.50	0.30	5	3	41214	SP,GN,TT	282
1.34/1.49=89.93%	(1.34-0.12)/1.49=81.88%	49.00	50.49	1.49	5.00	10.00	5	4	41215	SP,GN	1509
2.04/2.04=100%	(2.04-1.62)/2.04=20.59%	50.49	52.53	2.04	2.50	0.30	5	2	41216		173
2.3/2.47=93.12%	(2.3-0.11)/2.47=88.66%	52.53	55.00	2.47	5.00	2.50	6	6	41217		908
2.06/2=103%	(2.06-1.63)/2=21.5%	55.00	57.00	2.00	5.00	2.50	5	2	41218		340
1.91/1.92=99.48%	(1.91-0.85)/2.92=55.21%	57.00	58.92	1.92	5.00	Tr	5	3	41219	SP	127
1/1.08=92.59%	(1-0.16)/1.08=77.78%	58.92	60.00	1.08	5.00	1.00	5	4	41220		286
1.27/1.31=96.95%	(1.27-0.37)/1.31=68.70%	60.00	61.31	1.31	5.00	5.00	5	5	41221	SP,GN	799
0.98/1.09=89.91%	(0.98-0.3)/1.09=62.39%	61.31	62.40	1.09	5.00	2.50	5	4	41222		38
2.29/2.29=100%	(2.29-1.51)/2.29=34.06%	62.40	64.69	2.29	5.00	0.10	5	3	41223		80
1.92/2.02=95.05%	(1.92-1.45)/2.02=23.27%	64.69	66.71	2.02	2.50	1.00	5	2	41224		61
1.29/1.29=100%	(1.29-0.1)/1.29=92.25%	66.71	68.00	1.29	5.00	10.00	7	3	41225	SpGnCp,TT	1456
1.11/1.28=86.72%	(1.11-0.42)/.1.28=53.91%	68.00	69.28	1.28	2.50	1.00	6	7	41226	SP,GN	375
0.86/0.86=100%	(0.86-0.78)/0.86=9.3%	69.28	70.14	0.86	2.50	1.00	5	2	41227		261
1.90/1.86=102.15%	(1.90-1.32)/1.86=31.18%	70.14	72.00	1.86	2.50	0.10	4	2	41228		43
2/2=100%	(2-1.51)/2=24.5%	72.00	74.00	2.00	2.50	1.00	4	3	41229		136
2.35/2.45=95.92%	(2.35-1.74)/2.45=24.90M	74.00	76.45	2.45	2.50	1.00	5	2	41230		95
0.94/1=94%	(10.94-0)/1=94%	76.45	77.45	1.00	5.00	1.00	8	10	41231	SP	181
1.1/1.07=102.80%	1.1-0.32)/1.07=72.9%	77.45	78.52	1.07	5.00	2.50	8	3	41232		617
2.06/2.06=100%	(2.06-1.47)/2.06=28.64%	78.52	80.58	2.06	Tr	0.30	3	3	41233		40
2.98/3=99.33%	(2.98-2.67)/3=10.33%	80.58	83.58	3.00	0.10	1.00	3	2	41234		13
3.02/3.05=99.02%	3.02-2.87)/3.05=4.92%	83.58	86.63	3.05	Tr	Tr	3	2	41235		-5
3.43/3.37=101.78%	(3.43-2.85)/3.37=17.21%	86.63	90.00	3.37	Tr	0.10	3	2	41236		12
2.97/3=99%	(2.97-2.8)/3=5.67%	90.00	93.00	3.00	Tr	0.10	3	2	41237		-5
2/2=100%	(2-1.36)/2=32%	93.00	95.00	2.00	Tr	0.10	3	2	41238		-5
2.73/2.8=97.5%	(2.73-1.91)/2.8=29.29%	95.00	97.80	2.80	Tr	0.30	3	2	41239		-5
2.17/2.23=97.31%	(2.17-0.58)/2.23=71.3%	97.80	100.30	2.50	0.30	0.30	3	3	41240		-5
2.9/2.97=97.64%	(2.9-2.46)/2.97=11.81%	100.30	103.00	2.70	Tr	0.10	3	2	41241		-5
2.92/3=94%	(2.92-1.68)/3=41.33%	103.00	106.00	3.00	Tr	0.10	3	3	41242		-5
1.78/1.72=103.49%	(1.78-0.62)/1.72=67.44%	106.00	107.72	1.72	Tr	Tr	3	3	41243		179
2.29/2.31=99.13%	(2.29-1.44)/2.31=36.80%	107.72	110.03	2.31	Tr	2.50	3	3	41244		-5

	HOLE NUMBER	DDH 89-3							SAMPLE		MET												
Recovery	R.Q.D.	FROM	TO	WIDTH (m)	PY%	Vn%	A	F	NUMBER	ppb Au	GMT Au	GMT Au	GMT Ag	ppm Ag	ppm As	ppm	ppm Cu	pct Fe	ppm Mn	ppm Mo	ppm Ni	ppm Pb	ppm Sb	ppm Zn	ppb Hg
0.21/5.18=4.05%	(0.21)/5.18=4.05%	12.19	17.37	5.18	2.50	Tr	5	9	41245	67				1.1	45	-1	308	4.89	784	2	17	78	11	147	70
1.17/1.17=100%	(1.17-0.13)/1.17=88.89%	17.37	19.07	1.70	2.50	Tr	5	4	41246	52				2.8	69	2	149	5.91	325	4	21	197	14	271	65
1.98/1.98=100%	(1.98-0.27)/1.98=86.36%	19.07	21.05	1.98	1.00	Tr	5	5	41247	40				1.7	34	1	126	2.3	60	3	22	127	14	149	55
2.20/2.20=100%	(2.2-1.57)/2.20=28.64%	21.05	23.25	2.20	2.50	0.10	5	2	41248	93				2.1	34	4	89	3.3	166	2	24	273	14	518	105
2.43/2.75=88.36%	(2.43-0)/2.75=88.36%	23.25	26.00	2.75	2.50	Tr	8	9	41249	93				2.9	112	4	196	5.12	397	2	33	384	15	446	110
1.96/2=98%	(1.96-1.43)/2=26.5%	26.00	28.00	2.00	2.50	Tr	5	3	41250	61				1.5	136	6	171	5.83	789	2	24	483	19	767	210
2/2=100%	(2-1.3)/2=35%	28.00	30.00	2.00	2.50	1.00	5	2	41251	30				1	85	-1	90	3.62	1097	-1	23	127	15	120	65
1.91/2=95.5%	(1.91-0.66)/2=62.5%	30.00	32.00	2.00	2.50	0.30	5	3	41252	22				1.2	92	6	57	5	1073	2	29	599	16	900	170
2/2=100%	(2-1.34)/2=18%	32.00	34.00	2.00	2.50	0.30	5	3	41253	73				2.3	100	3	139	5.59	687	2	24	387	14	389	90
1.88/2=94%	(1.88-1.08)/2=40%	34.00	36.00	2.00	2.50	0.30	6	3	41254	231		0.31		2.6	90	3	85	5.07	314	3	18	274	15	316	85
1.86/2=93%	(1.86-0.55)/2=65.5%	36.00	38.00	2.00	2.50	1.00	5	3	41255	109				1.6	97	-1	37	6.01	420	3	7	38	13	29	55
1.83/1.83=100%	(1.83-0.91)/1.83=50.27%	38.00	39.83	1.83	5.00	2.50	6	3	41256	204		0.24		1.5	115	-1	49	6.39	250	4	13	57	11	53	35
1.01/1.17=91.45%	(1.07-0.76)/1.17=26.50%	39.83	41.00	1.17	10.00	5.00	6	2	41257	SP	697		0.96		3.9	93	9	402	7.16	608	2	7	472	17	1148	120
0.75/0.76=98.68%	(0.75-0.59)/0.70=21.05%	41.00	41.76	0.76	5.00	1.00	6	2	41258		359		0.45		1.4	86	-1	23	7.23	623	3	12	47	14	52	35
2.3/3.04=75.66%	(2.3-0.98)/3.04=43.42%	41.76	44.80	3.04	5.00	0.50	5	3	41259	51				0.5	79	-1	117	7.39	682	2	17	32	13	45	30
1.93/2.07=93.24	(1.93-0.84)/2.07=52.66%	44.80	46.87	2.07	2.50	0.30	5	4	41260	90				1.2	134	-1	112	7.31	866	3	24	115	14	163	40
1.13/1.13=100%	(1.13-0.14)/1.13=87.61%	46.87	48.00	1.13	5.00	2.50	8	9	41261	167		0.1		1.9	120	1	64	7.71	812	2	29	167	16	178	70
2/2=100%	(2-1.59)/2=20.5%	48.00	50.00	2.00	2.50	0.30	5	2	41262	SP,GN	127				1.5	111	5	243	6.68	707	2	32	156	18	601	105
1/1=100%	(1-0.44)/1=56%	50.00	51.00	1.00	1.00	1.00	4	3	41263	214		0.24		3.6	69	3	170	4.8	1085	2	25	325	18	379	130
1/1=100%	(1-0.41)/1=59%	51.00	52.00	1.00	2.50	10.00	5	3	41264	50				0.9	73	-1	173	6.27	723	2	12	35	14	52	50
1.4/1.7=82.35%	(1.4-0.44)/1.7=56.47%	52.00	53.70	1.70	1.00	0.10	5	3	41265	28				0.4	49	-1	159	4.66	946	-1	9	30	14	61	50
0.98/1=98%	(53.7-0.42)/1=53.28%	53.70	54.70	1.00	5.00	2.50	5	3	41266	437		0.55		1.5	105	1	23	7.18	395	4	11	100	16	162	45
1.35/1.48=91.22%	(1.35-0.45)/1.48=60.81%	54.70	56.18	1.48	2.50	2.50	5	4	41267	512		0.62		3.2	129	3	59	6.05	343	5	14	265	16	422	65
1.76/1.82=96.70%	(1.76-0.74)/1.82=56.04%	56.18	58.00	1.82	2.50	0.30	5	3	41268	189		0.24		0.8	89	-1	25	6.17	693	3	13	299	17	61	20
1.78/2=89%	(1.78-1.1)/2=34%	58.00	60.00	2.00	2.50	1.00	5	3	41269	455		0.51		1.5	121	-1	64	5.13	637	3	11	50	16	72	35
2/2=100%	(2-0.71)/2=64.5%	60.00	62.00	2.00	2.50	2.50	5	3	41270	874		1.03		2.3	181	-1	107	6.5	449	3	15	71	18	58	35
1.95/2=97.5%	(1.95-1.28)/2=35%	62.00	64.00	2.00	2.50	2.50	5	3	41271	146				1.1	74	-1	61	6.18	688	2	9	30	16	41	25
2/2=100%	(2-1.4)/2=30%	64.00	66.00	2.00	2.50	0.30	5	2	41272	124				0.9	113	-1	45	5.29	596	2	9	28	18	36	25
1.93/2=96.5%	(1.93-1.21)/2=36%	66.00	68.00	2.00	2.50	0.30	5	2	41273	334		0.38		3.5	145	-1	114	6.19	688	2	10	61	15	76	30
2/2=100%	(2-1.62)/2=15.5%	68.00	70.00	2.00	1.00	2.50	4	2	41274	SP,GN	449		0.41		4.7	82	12	191	5.72	949	2	17	592	18	1609	225
1.96/2=98%	(1.96-1.62)/2=17%	70.00	72.00	2.00	2.50	1.00	4	2	41275	37				1.9	61	-1	175	6.03	1126	2	31	52	13	70	70
2/2=100%	(2-1.38)/2=31%	72.00	74.00	2.00	2.50	0.30	5	2	41276	21				0.7	61	-1	11	5.94	596	2	20	40	13	28	20
0.59/0.64=92.19%	(0.59-0.59)/2=0%	74.00	74.64	0.64	2.50	20.00	6	1	41277	27				0.5	36	-1	6	4.53	278	2	11	37	13	7	25
0.81/0.81=100%	(0.81-0.63)/0.81=22.22%	74.64	75.45	0.81	2.50	2.50	5	2	41278	80				0.5	55	-1	15	6.06	367	2	14	52	12	18	15
1.23/1.23=100%	(1.23-0.43)/1.23=65.04%	75.45	76.68	1.23	10.00	2.50	6	4	41279	SP,GN	334		0.21		0.6	57	-1	18	7.31	487	2	10	420	12	15	15
1.6/1.65=96.97%	(1.6-0.63)/1.65=58.79%	76.68	78.33	1.65	5.00	1.00	5	3	41280	48				0.5	48	-1	22	6.7	480	3	10	44	15	23	20
1.35/1.36=99.26%	(1.35-1.2)/1.36=11.03%	78.33	79.69	1.36	5.00	0.10	6	1	41281	19				0.4	24	-1	12	6.46	710	2	10	15	-5	25	25
1.49/1.49=100%	(1.49-1.12)/1.49=24.83%	79.69	81.18	1.49	2.50	0.10	5	2	41282	59				0.7	33	-1	43	4.67	651	2	11	17	-5	44	40
1.36/1.34=101.49%	(1.36-0.88)/1.34=35.82%	81.18	82.52	1.34	2.50	2.50	6	3	41283	236		0.31		3.3	40	3	62	5.5	603	3	10	263	-5	417	65
1.27/1.37=92.70%	(1.27-0.71)/1.37=40.88%	82.52	83.89	1.37	2.50	40.00	8	4	41284	SP,GN	2172	2.66	3.12	2.9	37	6	87	3.5	592	2	8	3287	7	775	110
0.56/0.54=103.70%	(0.56-0.2)/0.54=66.67%	83.89	84.43	0.54	2.50	5.00	6	3	41285		433		0.62		2.6	47	5	40	5.41	842	2	9	241	-5	630	120
1.45/1.46=99.32%	(1.45-1.03)/1.46=28.77%	84.43	85.89	1.46	5.00	0.30	5	2	41286	54				2.1	68	1	90	6.42	1166	2	10	155	-5	230	65
0.6/0.6=100%	(0.6-0.47)/0.6=21.67%	85.89	86.49	0.60	5.00	10.00	6	2	41287	SP	296		0.34		11.6	139	94	339	8.12	1122	2	12	1200	23	11270	950
0.97/0.98=98.98%	(0.97-0.52)/0.98=45.92%	86.49	87.47	0.98	5.00	0.30	5	3	41288	324		0.21		2.5	80	2	33	6.32	928	2	11	164	-5	258	55
0.72/0.72=100%	(0.72-0.5)/0.72=30.56%	87.47	88.19	0.72	2.50	2.50	6	3	41289	SP,GN	355		0.48		9.5	90	51	207	4.45	677	3	12	2807	14	6159	650
1.32/1.38=95.65%	(1.32-1)/1.32=24.24%	88.19	89.57	1.38	2.50	0.30	5	2	41290	GN,SP	301		0.38		13.5	47	9	188	5.76	894	2	9	483	5	1119	180
1/1.03=97.09%	(1-0.26)/1.03=71.84%	89.57	90.60	1.03	2.50	10.00	8	5	41291	SP,CP	1377	1.82	2.16		32.6	91	11	167	6	777	2	9	261	8	1332	245
1.26/1.22=103.29%	(1.26-0.66)/1.22=49.18%	90.60	91.82	1.22	2.50	40.00	8	3	41292	SpGnCp,TT	1514	1.5	1.68		21.8	94	37	375	3.45	1270	2	6	1126	15	4449	550
0.66/0.67=98.51%	(0.66-0)/0.67=98.51%	91.82	92.49	0.67	2.50	2.50	9	9	41293		1541	1.73	1.89		46.1	134	7	435	5.1	861	4	10	982	9	872	440
1.48/1.51=98.01%	(1.48-0.49)/1.51=66.89%	92.49	94.00	1.51	2.50	0.10	4	3	41294		81				0.4	79	-1	161	5.39	1766	2	9	24	-5	133	45
2/2=100%	(2-1.28)/2=36%	94.00	96.00	2.00	2.50	0.30	5	2	41295	SP,TT	437		0.51		7.3	79	9	178	5.73	1390	3	9	506	9	1161	205
1.83/1.85=98.92%	(1.83-1.39)/1.85=23.78%	96.00	97.85	1.85	2.50	Tr	5	2	41296		80				1.9	64	-1	30	6.48	1192	2	11	66	-5	102	40
0.87/0.87=100%	(0.87-0.31)/0.87=64.38%	97.85	98.72	0.87	2.50	50.00	9	3	41297	SpTTGnCp	1500	1.56	1.65		48.5	91	15	272	6.95	1792	2	7	710	11	1724	300

Recovery	HOLE NUMBER DDH 89-3 R.Q.D.	FROM	TO	WIDTH (m)	PY%	Vn%	A	F	SAMPLE NUMBER		ppb Au	MET GMT Au	GMT Au	GMT Ag	ppm Ag	ppm As	ppm	ppm Cu	pct Fe	ppm Mn	ppm Mo	ppm Ni	ppm Pb	ppm Sb	ppm Zn	ppb Hg
0.67/0.94=71.28%	(0.67-0)/0.94=71.28%	98.72	99.66	0.94	5.00	0.00	9	9	41298		1245	1.38	1.41		29.8	115	10	263	8.36	263	3	11	315	7	1296	160
1.54/1.54=100%	(1.54-0.34)/1.54=77.92%	99.66	101.20	1.54	2.50	5.00	9	3	41299		1046	1.01	1.13		17	105	49	266	3.29	304	4	7	1105	19	6106	600
0.3/0.71=0.42.%25	(0.3-0)/1.71=42.25%	101.20	101.91	0.71	2.50	0.00	7	10	41300		3306	2.48	3.5	42.9	50	104	26	278	6.56	633	5	8	1388	13	3213	400
0.9/.91=98.90%	(0.9-0.74)/0.91=17.58%	101.91	102.82	0.91	2.50	1.00	5	2	41301		148				1.8	64	-1	106	5.46	198	4	11	62	-5	107	95
1.04/1.06=98.11%	(1.04-1)/1.06=3.77%	102.82	103.88	1.06	2.50	5.00	5	1	41302	SP	236		0.27		4.2	84	2	113	3.47	399	4	7	126	-5	312	75
1.93/1.98=97.47%	(1.93-1.41)/1.98=26.26%	103.88	105.86	1.98	1.00	5.00	8	2	41303		401		0.48		4.1	46	2	98	2.8	333	6	10	166	-5	271	110
0.22/0.23=95.65%	(0.22-0)/1.23=95.65%	105.86	106.09	0.23	2.50	0.00	10	10	41304		508		0.58		14.7	89	6	281	7.35	845	3	13	422	6	776	505
2.25/3.03=74.26%	(2.25-0.44)/3.03=59.74%	106.09	109.12	3.03	2.50	2.50	5	6	41305		562		0.65		11.2	120	5	306	5.74	522	3	12	298	5	626	310
2.57/2.99=85.95%	(2.57-0.84)/2.99=57.86%	109.12	112.11	2.99	1.00	0.30	4	4	41306		391		0.38		1.7	232	-1	133	5.54	797	3	28	23	6	99	110
0.93/0.93=100%	(0.93-0.41)/0.93=55.91%	112.11	113.04	0.93	1.00	0.30	4	3	41307		40				2	70	-1	142	2.43	456	3	15	16	8	59	90
1.76/1.74=101.15%	(1.76-1.38)/1.74=21.84%	113.04	114.78	1.74	Tr	0.30	4	2	41308		178		0.17		2.1	64	-1	146	4.8	657	3	18	15	-5	56	60
0.71/0.71=100%	(10.71-0.54)/0.71=23.94%	114.78	115.61	0.83	5.00	40.00	9	2	41309		1633		1.58		9.6	642	8	111	6.22	293	14	27	431	19	927	310
2.24/2.34=95.73%	(2.24-1,83)/2.34=21.79%	115.61	117.95	2.34	0.30	0.30	3	2	41310		32				0.6	63	-1	152	5.79	791	1	29	14	11	72	170
2.97/3.05=97.37%	(2.97-2)/3.05=31.80%	117.95	121.00	3.05	Tr	0.30	4	2	41311		8				0.2	39	-1	92	6.62	1542	2	29	4	8	74	290
3.01/3.05=98.69%	(3.01-2.46)/3.05=18.03%	121.00	124.05	3.05	Tr	0.30	4	2	41312		5				0.2	40	-1	94	6.38	1358	2	37	9	7	76	140
3/3.05=98.36%	(3-2.28)/3.05=23.61%	124.05	127.10	3.05	Tr	0.30	4	2	41313		7				0.3	38	-1	103	7.16	1418	2	36	6	9	80	80
2.91/3.04=95.72%	(2.91-2.27)/3.04=21.05%	127.10	130.14	3.04	0.30	0.10	4	2	41314		10				0.7	77	-1	147	8.22	1510	2	39	12	12	111	495

HOLE NUMBER	DDH 89-4								SAMPLE				ME
RECOVERY %	R.Q.D. %	FROM	TO	WIDTH (m)	PY%	VnI	A	F	NUMBER		ppb Au	GMT Au	GM Au
1.68/3.04==55.26%	(1.68-0)/3.04=55.26%	11.28	14.32	3.04	2.50	1.00	7	8	41315		53		
1.67/1.68=99.40%	(1.67-0.18)/1.68=88.69%	14.32	16.00	1.68	2.50	0.10	7	7	41316		59		
2/2=100%	(2-0.1)/2=95%	16.00	18.00	2.00	2.50	0.30	6	6	41317		41		
1.3/1.5=86.67%	(1.3-0)/1.5=86.67%	18.00	19.50	1.50	2.50	0.00	6	8	41318		12		
1.32/1.33=99.25%	(1.32-0.7)/1.33=46.62%	19.50	20.83	1.33	5.00	0.00	5	3	41319		65		
1.35/1.33=101.50%	(1.35-0.21)/1.33=85.71%	20.83	22.16	1.33	2.50	5.00	9	7	41320	SP	428	0.55	
0.77/0.77=100%	(0.77-0.41)/0.77=46.75%	22.16	22.93	0.77	1.00	30.00	9	3	41321	SpGnCpTT	2521	2.78	
2.07/2.07=100%	(2.07-1.11)/2.07=46.38%	22.93	25.00	2.07	2.50	5.00	6	3	41322	SP	107		
2.25/2.27=99.12%	(2.25-1.32)/2.27=40.97%	25.00	27.27	2.27	2.50	2.50	6	3	41323		172	0.17	
0.8/0.8=100%	(0.8-0.59)/0.8=26.25%	27.27	28.07	0.80	1.00	30.00	9	2	41324	SP,GN,TT	436	0.51	
1.01/1.14=86.32%	(1.01-0.14)/1.14=76.32%	28.07	29.21	1.14	2.50	1.00	6	5	41325	SP	80		
2.07/2.18=94.95%	(2.07-1)/2.18=49.08%	29.21	31.39	2.18	5.00	0.30	5	4	41326		62		
1.49/1.61=92.54%	(1.49-1.04)/1.61=27.95%	31.39	33.00	1.61	5.00	0.30	5	3	41327		26		
2.02/2=101%	(2.02-1.3)/2=0.36%	33.00	35.00	2.00	5.00	0.10	5	2	41328		89		
1.97/2=98.5%	(1.97-0.65)/2=66%	35.00	37.00	2.00	5.00	0.30	5	3	41329		221	0.27	
1.48/1.55=94.58%	(1.48-0.72)/1.55=49.03%	37.00	38.55	1.55	2.50	0.30	5	3	41330		174	0.17	
0.57/0.58=98.28%	(0.57-0.1)/0.58=81.03%	38.55	39.13	0.58	2.50	30.00	8	4	41331	SP,GN	1870	2.02	
1.85/1.87=98.93%	(1.85-0.72)/1.87=41.71%	39.13	41.00	1.87	2.50	0.30	5	3	41332	SP,GN	161	0.24	
1.96/2=98%	(1.96-1.11)/2=42.5%	41.00	43.00	2.00	2.50	0.30	4	3	41333	SP,GN	172	0.17	
1.96/2=98%	(1.96-1.18)/2=39%	43.00	45.00	2.00	2.50	0.30	4	2	41334		180	0.17	
1.96/2=98%	(1.96-1.9)/2=3%	45.00	47.00	2.00	2.50	Tr	4	1	41335		96		
2/2=100%	(2-1.31)/2=34.5%	47.00	49.00	2.00	2.50	1.00	4	2	41336	SP	120		
2.03/2=101.5%	(2.03-1.2)/2=41.5%	49.00	51.00	2.00	2.50	0.30	4	3	41337		51		
2.64/2.67=98.88%	(2.64-0.88)/2.67=65.92%	51.00	53.67	2.67	0.30	0.30	4	3	41338		55		
0.92/0.94=97.87%	(0.92-0.6)/0.94=34.04%	53.67	54.61	0.94	1.00	5.00	4	3	41339	SpGnCpTT	10000	64.46	77.2
1.83/2.02=90.59%	(1.83-1.24)/2.02=29.21%	54.61	56.63	2.02	1.00	0.30	4	3	41340		142		
1.43/1.4=1.02%	(1.43-0.32)/1.4=79.29%	56.63	58.03	1.40	2.50	1.00	6	5	41341	GN,SP	245	0.31	
1.81/1.97=91.88%	(1.81-1.13)/1.97=34.52%	58.03	60.00	1.97	2.50	0.30	6	3	41342	SP	153	0.14	
2.05/2=102.5%	(2.05-1.61)/2=22%	60.00	62.00	2.00	2.50	1.00	5	2	41343		102		
2.44/2.666=91.73%	(2.44-0.35)/2.66=78.57%	62.00	64.66	2.66	1.00	2.50	4	3	41344	SP	337	0.48	
1.3/1.44=90.28%	1.3-1.05)/1.44=17.36%	64.66	65.90	1.24	2.50	1.00	5	2	41345	SP	1163	1.23	1.3
0.35/0.35=100"	(0.35-0.26)/0.35=25.71%	65.90	66.25	0.35	1.00	70.00	9	2	41346	SpGnCpTT	5393	6.48	4.6
1/1=100%	(1-0.89)/1=11%	66.25	67.25	1.00	2.50	5.00	5	2	41347	SpGnCp	990	1.1	1.2
1.4/1.4=100%	(1.4-1.18)/1.4=15.71%	67.25	68.65	1.40	2.50	2.50	5	2	41348	SpGnTT	10000	19.61	15.5
1.8/2.04=88.24%	(1.8-0)/2.4=88.24%	68.65	70.69	2.04	5.00	0.30	8	9	41349	SP,GN	1550	1.85	1.2
1.43/1.54=92.86%	(1.43-0.63)/1.54=51.95%	70.69	72.23	1.54	2.50	Tr	5	3	41350		127		
1.05/1.08=97.22%	(1.05-0.31)/1.08=68.52%	72.23	73.31	1.08	2.50	2.50	6	4	41351		106		
0.52/0.52=100%	(0.52-0.2)/0.52=61.54%	73.31	73.83	0.52	2.50	2.50	8	3	41352	20%SpGnCp	1233	1.3	
1.16/1.17=99.15%	(1.16-0)/1.17=99.15%	73.83	75.00	1.17	5.00	0.30	8	7	41353		122		
2/2=100%	(2-0.68)/2=66%	75.00	77.00	2.00	5.00	0.30	6	3	41354		38		
1/1=100%	(1-0.47)/1=53%	77.00	78.00	1.00	5.00	0.00	6	3	41355		103		
1/1=100%	(1-0.65)/1=35%	78.00	79.00	1.00	5.00	1.00	6	2	41356	SP	3448	3.53	
1/1=100%	(1-0.61)/1=39%	79.00	80.00	1.00	5.00	0.30	6	2	41357		173	0.21	
1.79/2=89.5%	(1.78-1.25)/2=27%	80.00	82.00	2.00	5.00	0.10	6	2	41358		79		
2.43/2.43=100%	(2.43-1.33)/2.43=45.27%	82.00	84.43	2.43	5.00	0.10	5	4	41359		159	0.14	
1.03/1.03=100%	(1.03-0.51)/1.03=50.49%	84.43	85.46	1.03	5.00	0.30	6	4	41360	SP,GN	73		
0.74/1=74%	(0.74-0.1)/1=64%	85.46	86.46	1.00	2.50	Tr	7	6	41361		46		
2.45/2.54=96.46%	(2.45-1.02)/2.54=56.30%	86.46	89.00	2.54	2.50	1.00	6	3	41362		37		
1.75/1.76=99.43%	(1.75-0.74)/1.76=57.39%	89.00	90.76	1.76	2.50	0.30	6	3	41363		33		
0.92/1.68=54.76%	(0.92-0.37)/1.68=32.74%	90.76	92.44	1.68	0.30	1.00	2	3	41364		469	0.48	
2.53/2.56=98.83%	(2.53-1.9)/2.56=24.61%	92.44	95.00	2.56	2.50	2.50	4	2	41365		75		
3.09/3=103%	(3.09-1.51)/3=49.67%	95.00	98.00	3.00	Tr	1.00	4	3	41366		84		
3/3=100%	(3-2.48)/3=17.33%	98.00	101.00	3.00	2.50	2.50	4	2	41367		30		

HOLE NUMBER	DDH 89-4											
RECOVERY %	R.Q.D. %	FROM	TO	WIDTH (m)	PY%	Vn%	A	F	SAMPLE NUMBER		ppb Au	GMT Au	MET GMT Au
2.82/2.95=95.59%	(2.82-1.88)/2.95=31.86%	101.00	103.95	2.95	0.30	1.00	4	3	41368		16		
2.29/2.29=100%	(2.29-1.49)/2.29=34.93%	103.95	106.24	2.29	Tr	10.00	4	3	41369		78		
1.88/1.88=100%	(1.88-1.74)/1.88=7.44%	106.24	108.12	1.88	0.10	2.50	4	2	41370		22		
2.87/2.79=102.87%	(2.87-2.36)/2.79=18.28%	108.12	110.91	2.79	Tr	0.10	4	2	41371		14		
1.86/1.93=96.37%	(1.86-1.11)/1.93=38.86%	110.91	112.74	1.83	0.10	2.50	4	3	41372		17		
3.05/3.26=93.56%	(3.05-0.85)/3.26=67.48%	112.74	116.00	3.26	Tr	0.10	4	5	41373		30		
1.12/2=56%	(1.12-0.33)/2=39.5%	116.00	118.00	2.00	2.50	0.30	4	6	41374	SP	265	0.27	
2.23/3.91=57.03%	(2.23-0.21)/3.91=51.66%	118.00	121.91	3.91	0.10	0.10	3	7	41375		534	0.48	

HOLE NUMBER	DDH 89-5																															
RECOVERY	R.Q.D.	FROM	TO	WIDTH (m)	PY%	VN%	A	F	SAMPLE NUMBER		ppb Au	MET GMT Au	GMT Au	GMT Ag	ppm Ag	ppm As	ppm Cd	ppm Cu	pct Fe	ppm Mn	ppm Mo	ppm Ni	ppm Pb	pct Pb	ppm Sb	ppm Zn	pct Zn	ppb Hg
2.35/2.77=84.84%	(2.35-0.76)/2.77=57.4%	8.23	11.00	2.77	5.00	0.10	6	5	41376		12				0.4	58	-1	121	5.47	1060	3	17	-2		-5	33		45
1.78/1.79=99.44%	(1.78-0.61)/1.79=65.36%	11.00	12.79	1.79	5.00	Tr	6	3	41377		20				0.7	84	-1	132	6.3	956	3	20	41		-5	104		50
1.27/1.53=83.01%	(1.27-0)/1.53=83.01%	12.79	14.32	1.53	2.50	0.00	10	10	41378		70				1.7	81	2	123	5.33	945	3	18	176		-5	315		90
2.28/3.05=74.75%	(2.28-0)/3.05=74.75%	14.32	17.37	3.05	2.50	Tr	9	10	41379		95				2.7	87	3	263	5.95	583	3	22	225		-5	413		95
0.93/1=93%	(0.93-0)/1=93%	17.37	18.37	1.00	2.50	Tr	10	10	41380		1398		1.92		25.9	77	14	83	5.28	777	3	20	2001		10	1573		200
1.15/2.05=56.10%	(1.15-0)/2.05=56.15%	18.37	20.42	2.05	2.50	Tr	6	8	41381		36				0.5	29	-1	10	5.4	1060	1	11	19		-5	63		40
2.30/3.05=65.57%	(2.3-0.13)/3.05=71.14%	20.42	23.47	3.05	2.50	Tr	6	7	41382		31				0.5	33	-1	36	5.55	1025	2	7	70		-5	168		50
2.17/2.17=100%	(2.17-0.94)/2.17=56.68%	23.47	25.64	2.17	2.50	0.10	6	4	41383		47				0.5	41	-1	98	5.36	986	2	10	36		-5	100		55
1.12/1.13=99.12%	(1.12-0)/1.13=99.12%	25.64	26.77	1.13	2.50	0.30	7	8	41384		33				1.1	34	-1	68	5.28	783	2	9	7		-5	80		40
0.74/0.75=98.67%	(0.74-0.13)/0.75=81.33%	26.77	27.52	0.75	5.00	0.30	7	8	41385		79				1.5	55	-1	121	4.49	1381	1	9	42		-5	187		75
2.32/2.38=97.48%	(2.32-0.78)/2.38=64.71%	27.52	29.90	2.38	2.50	0.30	6	4	41386		65				1	57	-1	124	5.07	1343	2	10	55		-5	175		55
0.75/1.48=50.68%	(0.75-0.14)/1.48=41.22%	29.90	30.68	0.78	2.50	1.00	7	6	41387		152		0.17		2.6	81	4	146	5.75	1187	1	10	264		-5	555		110
0.45/0.47=95.74%	(0.45-0)/0.47=95.74%	30.68	31.15	0.47	2.50	2.50	8	9	41388	SP,GN	837		0.82		20.5	123	109	866	4.68	808	1	10	8642		23	12811		1900
0.38/1.46=26.03%	(31.15-0)/1.46=26.03%	31.15	32.61	1.46	2.50	2.50	7	9	41389		252		0.41		2.2	41	3	51	3.58	1060	1	7	776		-5	429		70
1.32/1.37=96.35%	(1.32-0.39)/1.37=67.88	32.61	33.98	1.37	5.00	5.00	7	4	41390	SP	359		0.41		3.9	89	11	106	4.47	934	2	5	864		-5	1438		310
1.18/1.68=70.24%	(1.18-0)/1.68=70.24%	33.98	35.66	1.68	2.50	5.00	7	6	41391	SP, GN	5657		5.11	114.9	50	63	88	323	4.36	2759	1	8	3174		15	10019		2150
0.47/0.47=100%	(0.47-0)/0.47=100%	35.66	36.13	0.47	5.00	5.00	7	7	41392		304		0.45		2	68	-1	16	5.92	855	2	12	40		-5	318		115
0.98/0.98=100%	(0.87-0.23)/0.98=76.53%	36.13	37.11	0.98	5.00	1.00	6	4	41393		193		0.21		1.5	86	-1	17	6.35	928	2	16	34		-5	138		35
1.06/1.06=100%	(1.06-0.25)/1.06=76.42%	37.11	38.17	1.06	5.00	0.10	5	3	41394		58				0.8	34	-1	40	5.66	1093	3	28	19		-5	95		30
0.54/0.58=92.10%	(0.54-0)/0.58=93.10%	38.17	38.75	0.58	2.50	70.00	9	5	41395	10%SpCpGn	2627		2.43		42.5	87	152	1526	4.33	3174	2	8	10000	1.31	89	17858		1950
0.73/0.73=100%	(0.73-0.5)/0.73=31.51%	38.75	39.48	0.73	1.00	70.00	9	2	41396		2496		2.88		6.3	96	3	114	3.48	4955	1	5	343		-5	484		190
0.27/0.27=100%	(0.27-0.27)/0.27=0%	39.48	39.75	0.27	1.00	80.00	9	1	41397	SP, GN	1548		1.68		24.1	102	161	668	4.28	5915	-1	8	9101		35	18664		2450
0.98/0.99=98.99%	(0.98-0.27)/0.99=71.72%	39.75	40.74	0.99	5.00	2.50	5	3	41398	GN, SP	507		0.58		19.6	119	7	92	6.88	1835	3	34	4052		-5	904		210
1.28/1.26=101.59%	(1.28-0.74)/1.26=42.86%	40.74	42.00	1.26	5.00	0.30	5	3	41399		107				1.7	68	-1	22	7.09	1525	2	33	107		-5	146		60
1.93/2=96.5%	(1.93-0.66/2=63.5%	42.00	44.00	2.00	2.50	0.10	5	3	41400		401		0.41		1.3	50	-1	74	6.33	1073	3	31	75		-5	121		30
1/1=100%	(1-0.8)/1=20%	44.00	45.00	1.00	2.50	2.50	5	2	41401	SP, GN	388		0.38		7.2	89	40	258	5.87	1467	2	28	2446		5	4761		270
2/2=100%	(2-0.66)/2=67%	45.00	47.00	2.00	2.50	2.50	4	3	41402		91				0.7	99	-1	144	6.49	1674	1	30	12		-5	82		40
2/2=100%	(2-1.26)/2=37%	47.00	49.00	2.00	Tr	0.30	3	2	41403		39				1.3	74	-1	227	7.2	1381	4	35	-2		-5	66		105
1.97/2=98.5%	(1.97-1.24)/2=36.5%	49.00	51.00	2.00	2.50	1.00	5	3	41404		78				0.6	40	-1	123	7.01	1088	3	27	-2		-5	37		35
2.09/2=104.5%	(2.09-0.44)/2=82.5%	51.00	53.00	2.00	2.50	Tr	6	4	41405		147				0.3	47	-1	12	4.91	842	3	20	-2		-5	45		25
2/2=100%	(2-1.31)/2=34.5%	53.00	55.00	2.00	5.00	0.30	5	3	41406		29				-0.2	15	-1	10	6.01	925	2	14	-2		-5	38		20
1.89/2=94.5%	(1.89-1.5)/2=19.5%	55.00	57.00	2.00	2.50	0.10	5	2	41407		58				0.2	44	-1	58	8.77	841	2	13	-2		-5	51		30
2/2=100%	(2-1.28)/2=36%	57.00	59.00	2.00	2.50	0.10	5	3	41408		41				0.3	15	-1	29	6.32	960	2	9	25		-5	68		35
2.47/2.49=99.20%	(2.47-1.28)/2.49=17.79%	59.00	61.49	2.49	2.50	Tr	5	3	41409		53				2	19	2	32	6.61	757	2	11	144		-5	218		30
1.11/1.11=100%	(1.11-0.63)/1.22=43.24%	61.49	62.60	1.11	5.00	30.00	6	3	41410	SpTT,CpGn	1115		1.06	52.5	50	101	265	4119	6.92	748	6	5	10000	1.54	66	20000	2.92	750
1.2/1.4=85.71%	(1.2-0.51)/1.4=49.29%	62.60	64.00	1.40	5.00	0.30	6	4	41411		49				1.6	20	1	20	7.33	688	3	10	75		-5	165		20
1.92/2=96%	(1.92-0.98)/2=47%	64.00	66.00	2.00	2.50	0.30	5	3	41412		434		0.58		1.6	34	-1	24	7.71	678	5	9	47		-5	133		25
2/2=100%	(2-0.9)/2=55%	66.00	68.00	2.00	2.50	0.10	5	3	41413		135				1.3	26	-1	11	6.18	728	3	10	73		-5	49		30
1.99/2=99.5%	(1.99-1.08)/2=45%	68.00	70.00	2.00	5.00	0.00	5	3	41414		43				1.1	18	3	19	7.48	782	4	10	145		-5	344		40
2/2=100%	(2-0.84)/2=58%	70.00	72.00	2.00	5.00	0.00	6	4	41415		36				0.5	13	2	21	7.61	777	3	9	143		-5	233		45
1.85/2=92.5%	(1.85-0.38)/2=73.5%	72.00	74.00	2.00	5.00	0.10	6	4	41416		34				0.5	20	-1	24	6.47	714	3	10	18		-5	58		25
1.99/2=99.5%	(1.99-1.1)/2=44.5%	74.00	76.00	2.00	2.50	0.30	5	3	41417		130				0.7	40	-1	55	6.69	773	3	10	-2		-5	39		20
1.07/1.05=101.9%	(1.07-0.69)/1.05=36.19%	76.00	77.05	1.05	2.50	5.00	6	3	41418		1304		1.71		1.3	33	2	15	4.62	477	3	9	82		-5	274		40
1.89/1.95=96.92%	(1.89-1.1)/1.95=40.51%	77.05	79.00	1.95	2.50	0.30	5	3	41419		230		0.27		1.2	45	-1	22	6.1	774	4	11	10		-5	39		40
2.34/2.3=101.74%	(2.34-1.6)/2.3=32.17%	79.00	81.30	2.30	2.50	0.30	5	3	41420	SP	63				0.9	18	4	43	6.72	876	3	8	122		-5	452		55
0.62/0.61=101.64%	(0.62-0.26)/0.61=59.02%	81.30	81.91	0.61	2.50	0.00	5	2	41421		41				0.9	29	-1	39	7.64	1021	4	10	143		-5	118		60
1.17/1.18=99.15	(1.17-0.11)/1.18=89.83%	81.91	83.09	1.18	2.50	0.30	5	3	41422	SP	115				2.8	16	35	101	6.62	910	3	8	2000		-5	3982		425
0.82/0.81=101.23%	(0.82-0.4)/0.81=51.85%	83.09	83.90	0.81	2.50	10.00	6	3	41423	SP	624		0.75		11	109	344	633	6.21	1514	5	8	10000	1.55	95	20000	3.8	2350
1.12/1.1=101.82%	(1.12-0)/1.1=101.82%	83.90	85.00	1.10	5.00	Tr	6	3	41424		138				2.2	60	9	83	6.69	1279	3	9	636		-5	1085		160
1/1=100%	(1-0.63)/1=37%	85.00	86.00	1.00	5.00	0.10	6	3	41425		103				2.1	72	1	32	6.66	1252	4	9	87		-5	163		55
1/1=100%	(1-0.39)/1=61%	86.00	87.00	1.00	2.50	2.50	6	3	41426		52				1.9	17	2	25	6.45	784	4	9	142		-5	265		50
1/1=100%	(1-0.75)/1=25%	87.00	88.00	1.00	5.00	0.30	6	2	41427		87				1.7	22	-1	20	6.4	645	3	9	21		-5	51		30
1.02/1=102%	(1.02-0.44)/1=58%	88.00	89.00	1.00	5.00	5.00	6	3	41428		358		0.45		1.3	23	2	57	6.31	690	4	9	45		-5	251		30

HOLE NUMBER DDH 89-5

RECOVERY	R.Q.D.	FROM	TO	WIDTH (m)	PY%	VN%	A	F	SAMPLE NUMBER		ppb Au	MET GMT Au	GMT Au	GMT Ag	ppm Ag	ppm As	ppm Cd	ppm Cu	pct Fe	ppm Mn	ppm Mo	ppm Ni	ppm Pb	pct Pb	ppm Sb	ppm Zn	pct Zn	ppb Hg
0.92/0.99=92.93%	(0.92-0.47)/0.99=45.45%	89.00	89.99	0.99	2.50	1.00	6	2	41429		64				1.3	31	-1	41	6.38	1413	3	8	-2		-5	61		30
1/1.01=99%	(1-0.3)/1.1=69.31%	89.99	91.00	1.01	5.00	2.50	6	3	41430	SP	282		0.31		2	17	3	336	5.82	1048	3	10	58		-5	394		150
1/1=100%	(1-0)/1=100%	91.00	92.00	1.00	5.00	5.00	7	8	41431		162		0.17		3.7	58	2	52	7.79	1478	5	9	220		-5	285		30
1.02/1=102%	(1.02-0.1)/1=92%	92.00	93.00	1.00	5.00	2.50	8	9	41432	SP	447		0.51		8	100	20	151	5.75	965	3	12	767		-5	2362		310
1.27/1.35=94.07%	(1.27-0.52)/1.35=55.56%	93.00	94.35	1.35	5.00	0.30	7	5	41433		313		0.34		12.9	110	3	380	5.81	1011	3	9	270		-5	402		145
0.41/0.41=100%	(0.41-0)/0.41=100%	94.35	94.76	0.41	2.50	2.50	9	10	41434	SP	688		0.72		16.5	61	59	245	6.42	708	5	11	1018		17	7402		1000
0.48/0.48=100%	(0.48-0.12)/0.48=75%	94.76	95.24	0.48	5.00	20.00	9	9	41435	SpCpBn,TT	2636		2.98	161.5	50	107	418	4495	8.29	2256	5	14	1216		261	20000	4.84	4300
0.61/1.04=58.65%	(0.61-0)/1.04=58.65%	95.24	96.28	1.04	5.00	1.00	8	10	41436		36				2.5	21	6	61	6.79	1656	3	10	52		-5	815		100
1.21/1.39=87.05%	(1.21-0.26)/1.39=75.54%	96.28	97.67	1.39	5.00	2.50	7	8	41437	SP	2875	3.22	3.57		27.9	53	40	92	8.75	1266	3	9	496		5	5078		490
0.73/0.73=100%	(0.73-0.42)/0.73=42.47%	97.67	98.40	0.73	5.00	2.50	7	3	41438		10000	27.99	17.59	456.7	50	144	195	1657	7.35	1651	7	7	2722		77	20000	2.31	5000
1/1=100%	(1-0.68)/1=32%	98.40	99.40	1.00	5.00	1.00	6	2	41439		186		0.31		5.1	99	3	126	6.3	1042	3	8	271		-5	390		240
1.6/1.6=100%	(1.6-1.11)/1.6=30.63%	99.40	101.00	1.60	2.50	1.00	5	3	41440		47				1.7	39	-1	94	6.07	1105	3	7	-2		-5	83		130
2/2=100%	(2-0.53)/2=73.5%	101.00	103.00	2.00	2.50	0.10	5	4	41441		20				0.6	41	-1	48	7.39	924	3	9	6		-5	70		50
1.9/2=95%	(1.9-0.74)=58%	103.00	105.00	2.00	2.50	0.30	5	3	41442	SP	101				2.3	31	1	71	7.01	888	3	10	145		-5	213		475
0.69/0.69=100%	(0.69-0.38)/0.69=44.92%	105.00	105.69	0.69	5.00	1.00	6	2	41443		33				0.8	44	-1	161	7.94	1085	3	10	8		-5	95		700
0.59/0.61=96.72%	(0.59-0)/0.61=96.72%	105.69	106.30	0.61	5.00	1.00	7	8	41444	SP	38				2.4	26	9	143	6.78	943	3	10	509		-5	1053		1300
1.19/1.21=98.35%	(1.19-0.58)/1.21=50.41%	106.30	107.51	1.21	5.00	2.50	6	3	41445	SP, GN	77				6.9	25	34	104	7.66	1069	3	8	3864		-5	3947		3200
1.3/1.31=99.24%	(1.3-0.86)/1.31=33.59%	107.51	108.81	1.30	5.00	2.50	6	2	41446		33				1.7	11	5	110	7.49	1123	4	8	425		-5	634		580
2.13/2.19=97.26%	(2.13-1.62)/2.19=23.29%	108.81	111.00	2.19	5.00	0.10	6	2	41447		20				0.8	13	-1	150	8.66	1037	4	9	114		-5	114		470
1.98/2=99%	(1.98-0.65)/2=66.5%	111.00	113.00	2.00	5.00	0.30	6	3	41448		27				0.6	30	-1	117	8.17	1019	4	7	75		-5	109		545
1.89/2=94.5%	(1.89-0.63)/2=63%	113.00	115.00	2.00	5.00	0.30	6	3	41449		53				1.8	47	9	163	6.35	818	3	8	731		-5	1213		1100
2.3/2.6=88.46%	(2.3-0.59)/2.6=65.77%	115.00	117.60	2.60	5.00	0.30	6	5	41450		214		0.21		4.8	77	12	301	6.8	723	4	10	678		-5	1478		1900
1.24/1.24=100%	(1.24-0.32)/1.24=74.19%	117.60	118.84	1.24	2.50	10.00	8	5	41451		5831		5.86	93.9	50	79	4	759	4.29	298	5	5	227		-5	440		1300
1.32/1.49=88.59%	(1.32-0.1)/1.49=81.88%	118.84	120.33	1.49	1.00	90.00	10	4	41452		450		0.55		5	26	5	63	1.89	310	4	7	116		-5	732		150
0.98/1=98%	(0.98-0.11)/0.98=78.57%	120.33	121.33	1.00	2.50	1.00	8	8	41453		132				6.3	13	2	460	4.45	347	9	31	119		-5	206		155
1/1=100%	(1-0)/1=100%	121.33	122.33	1.00	2.50	0.10	9	10	41454		122				2.5	64	-1	32	7.08	776	3	9	44		-5	107		180
0.98/1=98%	(0.98-0)/1=98%	122.33	123.33	1.00	2.50	0.30	9	10	41455		268		0.34		1.8	58	-1	108	4.71	1131	3	7	21		-5	93		155
1/1=100%	(1-0)/1=100%	123.33	124.33	1.00	5.00	0.30	9	10	41456		138				1.4	84	-1	37	5.54	888	3	9	25		-5	116		225
1.33/2.26=58.85%	(1.33-0)/2.26=58.85%	124.33	126.59	2.26	5.00	1.00	9	10	41457		123				3.5	87	3	83	6.67	963	4	12	107		-5	424		290
0.9/0.92=97.83%	(0.9-0.34)/0.92=60.87%	126.59	127.51	0.92	5.00	0.30	6	3	41458		114				2.3	17	2	27	7.28	1123	3	10	23		-5	289		65
0.37/1.5=24.67%	(0.37-0)/1.5=24.67%	127.51	129.01	1.50	5.00	5.00	6	9	41459		1016		1.13		19.8	32	156	139	5.74	2213	2	-1	1611		30	17150		1550
1.13/1.13=100%	(1.13-0.54)/1.13=52.21%	129.01	130.14	1.13	5.00	0.30	6	3	41460		145				2.5	29	5	30	6.38	926	2	7	21		-5	693		175
1.49/1.49=100%	(1.49-0.48)/1.49=67.79%	130.14	131.63	1.49	5.00	2.50	6	4	41461		424		0.48		6.2	54	6	42	7.4	1189	3	10	35		-5	687		150
1.29/1.37=94.16%	(1.29-1.15)/1.37=10.22%	131.63	133.00	1.37	2.50	1.00	6	2	41462		72				1.7	30	-1	33	7.26	896	3	10	30		-5	167		80
1.55/1.64=94.51%	(1.55-0.61)/1.64=57.32%	133.00	134.64	1.64	2.50	1.00	6	3	41463		39				0.8	17	-1	25	6.27	930	3	8	-2		-5	53		70
1.79/1.82=98.35%	(1.79-1.23)/1.82=30.77%	134.64	136.46	1.82	2.50	1.00	6	2	41464		187		0.24		2.5	58	-1	114	5.98	756	3	10	171		-5	91		50
2.41/2.48=97.18%	(2.41-1.56)/2.48=34.27%	136.46	138.94	2.48	1.00	1.00	6	2	41465		353		0.31		1.8	50	1	70	3.26	533	3	6	107		-5	183		30
2.66/2.66=100%	(2.66-1.37)/2.66=48.5%	138.94	141.60	2.66	2.50	0.30	5	3	41466		25				0.3	21	-1	101	7.28	819	3	9	5		-5	47		160
1.98/2=99%	(1.98-1.26)/2=36%	141.60	143.60	2.00	2.50	0.10	5	3	41467		65				1.1	39	-1	62	6.41	1029	3	9	4		-5	50		90
2.85/2.88=98.96%	(2.85-1.28)/2.88=54.51%	143.60	146.48	2.88	2.50	1.00	5	3	41468		71				1.5	67	3	118	7.26	727	4	10	159		-5	507		275
1.49/1.52=98.03%	(1.49-0.89)/1.52=39.47%	146.48	148.00	1.52	1.00	2.50	4	2	41469		117				3.5	64	-1	184	6.94	728	5	11	23		-5	91		240
1.97/2=98.5%	(1.97-1.11)/2=43%	148.00	150.00	2.00	2.50	2.50	4	2	41470	GN,SP,CP	255		0.31		5.4	229	3	66	8	934	4	12	2910		-5	423		165
2.02/2=101%	(2.02-1.76)/2=13%	150.00	152.00	2.00	5.00	2.50	4	2	41471		210		0.24		1.5	242	1	83	7.49	554	6	9	53		-5	98		100
1.5/1.55=96.77%	(1.5-1.39)/1.55=7.1%	152.00	153.55	1.55	5.00	1.00	4	1	41472		518		0.58		2.2	357	2	63	8.93	466	10	11	68		7	129		210
2.42/2.45=98.78%	(2.42-1.62)/2.45=32.65%	153.55	156.00	2.45	1.00	10.00	5	2	41473		547		0.69		1.4	68	-1	69	3.04	456	3	8	18		-5	68		75
1.49/1.57=94.9%	(1.49-1.2)/1.57=18.47%	156.00	157.57	1.57	0.30	2.50	4	2	41474		127				2.6	39	-1	88	5.07	533	3	10	3		-5	141		185

HOLE NUMBER	DDH 89-6								SAMPLE			
RECOVERY	R.Q.D.	FROM	TO	WIDTH (m)	PY%	VN%	A	F	NUMBER		ppb Au	GMT Au
1.44/1.44=100%	(1.44-0.22)/1.44=84.72%	12.88	14.32	1.44	2.50	0.00	8	9	41475		37	
1.66/1.68=98.81%	(1.66-0.6)/1.68=63.10%	14.32	16.00	1.68	2.50	1.00	6	4	41476		108	
1.37/1.37=100%	(1.37-0.86)/1.37=37.23%	16.00	17.37	1.37	2.50	20.00	7	3	41477		40	
1.34/1.35=99.26%	(1.34/0.12)/1.35=90.37%	17.37	18.72	1.35	2.50	0.00	9	9	41478		110	
2.21/2.28=96.93%	(2.21-1.2)/2.28=44.30%	18.72	21.00	2.28	2.50	1.00	6	3	41479		100	
2/2=100%	(2-0.88)/2=56%	21.00	23.00	2.00	2.50	2.50	6	3	41480		37	
1.92/2=96%	(1.92-1.28)/2=32%	23.00	25.00	2.00	2.50	0.30	6	3	41481		174	0.24
2/2=100%	(2-1)/2=50%	25.00	27.00	2.00	2.50	Tr	6	3	41482		23	
2/2=100%	(2-0.81)/2=59.5%	27.00	29.00	2.00	2.50	Tr	6	3	41483		29	
2.39/2.39=100%	(2.39-1.95)/2.39=18.41%	29.00	31.39	2.39	2.50	0.10	6	2	41484		40	
1.37/1.61=85.09%	(1.37-0.56)/1.61=50.31%	31.39	33.00	1.61	5.00	Tr	6	3	41485		49	
1.27/2=63.5%	(1.27-0.34)/2=46.5%	33.00	35.00	2.00	5.00	Tr	6	4	41486		93	
1.98/2=99%	(1.98-0.62)/2=68%	35.00	37.00	2.00	2.50	0.30	6	3	41487		196	0.24
2/2=100%	(2-0.96)/2=52%	37.00	39.00	2.00	2.50	1.00	6	3	41488	Tr, SP	159	0.21
1.74/2=87%	(1.74-0.21)/2=76.5%	39.00	41.00	2.00	5.00	1.00	7	5	41489		303	0.34
2/2=100%	(2-0.1)/2=95%	41.00	43.00	2.00	2.50	0.30	9	8	41490	SP	147	
1.31/1.32=99%	(1.31-0)/1.32=99.24%	43.00	44.32	1.32	5.00	2.50	9	8	41491		69	
1.65/1.68=98.21%	(1.65-0.4)/1.68=74.4%	44.32	46.00	1.68	1.00	0.30	4	3	41492		101	
1.95/2=97.5%	(1.95-0.97)/2=49%	46.00	48.00	2.00	2.50	0.10	4	3	41493		30	
2.35/2.9=81.03%	(2.35-1.03)/2.9=45.52%	48.00	50.90	2.90	2.50	0.10	4	3	41494		127	
2.08/2.1=99.05%	(2.08-1.67)/2.1=19.52%	50.90	53.00	2.10	2.50	0.10	5	2	41495	Tr, SP	19	
2.2=100%	(2-1.12)/2=44%	53.00	55.00	2.00	2.50	0.10	5	3	41496		11	
1.72/1.72=100%	(1.72-1.08)/1.72=37.21%	55.00	56.72	1.72	2.50	0.10	5	2	41497		26	
1.12/1.12=100%	(1.12-0.29)/1.12=74.11%	56.72	57.84	1.12	2.50	0.10	5	4	41498		42	
0.17/1.04-16.34%	(0.17-0)/1.04=16.34%	57.84	58.88	1.04	0.25	5.00	6	10	41499	GnSpCpTT	1342	1.27
0.22/0.22=100%	(0.22-0)/0.22=100%	58.88	59.10	0.22	2.50	90.00	6	3	41500	GnSpCpTT	431	0.62
0.9/0.9=100%	(0.9-0.32)/0.9=64.44%	59.10	60.00	0.90	2.50	1.00	6	3	41501		56	
1.92/2=96%	(1.92-0.31)=80.5%	60.00	62.00	2.00	5.00	5.00	6	3	41502		28	
2/2=100%	(2-0.77)/2=61.5%	62.00	64.00	2.00	2.50	1.00	6	3	41503		30	
1.91/2=95.5%	(1.91-0.91)/2=50%	64.00	66.00	2.00	2.50	0.10	5	3	41504		31	
1.93/2=96.5%	(1.93-0.37)/2=78%	66.00	68.00	2.00	2.50	0.10	6	4	41505		47	
1.96/2=98%	(1.96-0.6)/2=68%	68.00	70.00	2.00	2.50	0.30	6	6	41506		29	
1.89/2=94.5%	(1.89-0)/2=94.5%	70.00	72.00	2.00	2.50	0.10	5	8	41507		47	
2/2=100%	(2-0.23/2=88.5%	72.00	74.00	2.00	2.50	1.00	6	7	41508	SP	103	
1.55/2=77.5%	(1.55-0.19)/2=68%	74.00	76.00	2.00	2.50	0.00	6	6	41509		27	
1.23/2=61.5%	(1.23-0)/2=61.5%	76.00	78.00	2.00	2.50	1.00	6	9	41510		53	
3.12/3.38=98.11%	(3.12-0.48)/3.38=78.11%	78.00	81.38	3.38	2.50	0.30	6	9	41511		135	
2.43/2.62=92.75%	(2.43-0.51)/2.62=73.28%	81.38	84.00	2.62	2.50	1.00	4	5	41512		104	
2.05/2.86=71.68%	(2.05-0)/2.86=71.68%	84.00	86.86	2.86	0.30	0.10	4	4	41513		67	
2.18/2.14=101.87%	(2.18-1.38)/2.14=37.37%	86.86	89.00	2.14	1.00	0.30	3	2	41514		65	
2/2=100%	(2-1.39)/2=30.5%	89.00	91.00	2.00	2.50	2.50	3	2	41515		94	
2.05/2=102.5%	(2.05-1.19)/2=43%	91.00	93.00	2.00	0.30	0.30	3	3	41516		19	
3.08/3=102.67%	(3.08-1.46)/3=54%	93.00	96.00	3.00	0.10	0.30	3	3	41517		27	
3/3=100%	(3-1.89)/3=37%	96.00	99.00	3.00	0.10	2.50	3	3	41518		16	
2.97/3=99%	(2.97-2.52)/3=15%	99.00	102.00	3.00	0.10	2.50	3	2	41519		79	
2.78/3=92.67%	(2.78-1.83)/3=31.67%	102.00	105.00	3.00	Tr	1.00	3	3	41520		7	
2.65/3.81=69.55%	(2.65-1.06)/3.81=41.73%	105.00	108.81	3.81	0.10	3.00	3	4	41521		46	
2.15/3.05=70.49%	(2.15-1.05)/3.05=36.07%	108.81	111.86	3.05	0.10	0.10	3	3	41522		2	

HOLE NUMBER	DDH 89-7											
RECOVERY	R.Q.D.	FROM	TO	WIDTH (m)	PY%	VN%	A	F	NUMBER		ppb Au	GMT Au	MET GMT Au
1.81/1.84=98.37%	(1.81-0.86)/1.84=51.63%	10.32	12.16	1.84	5.00	2.50	6	3	41523		111		
0.68/0.68=100%	(0.68-0)/0.68=100%	12.16	12.84	0.68	2.50	0.30	9	10	41524	SP, GN,CP	272	0.31	
0.88/1=88%	(0.88)/1=74.14%	12.84	13.84	1.00	1.00	Tr	7	6	41525		172	0.21	
1.16/1.16=100%	(1.16-0.3)/1.16=74.14%	13.84	15.00	1.16	1.00	Tr	7	5	41526	SP	48		
2.02/2=101%	(2.02-0.4)/2=81%	15.00	17.00	2.00	2.50	1.00	8	8	41527		44		
1.95/2=97.5%	(1.95-0.1)/2=92.5%	17.00	19.00	2.00	2.50	2.50	9	10	41528		95		
1/1.02=98.04%	(1-0)/1.02=98.04%	19.00	20.02	1.02	5.00	2.50	9	9	41529		95		
1.66/1.67=99.4%	(1.66-0.56)/1.67=67.87%	20.02	21.69	1.67	5.00	1.00	6	3	41530		159	0.17	
2.14/2.09=102.39%	(2.14-1.06)/2.09=51.67%	21.69	23.78	2.09	5.00	0.10	7	3	41531		98		
0.74/0.75=98.67%	(0.74-0.49)/0.25=33.33%	23.78	24.53	0.75	5.00	30.00	7	2	41532		265	0.17	
2.05/1.99=103.02%	(2.05-1.22)/1.99=41.71%	24.53	26.52	1.99	5.00	2.50	7	3	41533		93		
1/1=100%	(1-0.7)/1=30%	26.52	27.52	1.00	5.00	0.30	7	3	41534	SP	80		
1.9/2.04=93.14%	(1.9-1.32)/2.04=28.43%	27.52	29.56	2.04	5.00	0.10	7	2	41535		155	0.21	
1.76/1.83=96.17%	(1.76-0.72)/1.83=56.83%	29.56	31.39	1.83	5.00	0.30	7	3	41536		81		
1.93/2.09=92.34%	(1.93-1.38)/2.09=26.32%	31.39	33.48	2.09	5.00	5.00	7	3	41537		311	0.34	
0.75/0.75=100%	(0.75-0.49)/0.75=34.67%	33.48	34.23	0.75	10.00	5.00	7	2	41538	SP	2516	3.46	
0.96/1.05=91.43%	(0.96-0.73)/1.05=21.9%	34.23	35.28	1.05	10.00	1.00	7	3	41539		759	0.96	
2.62/2.78=94.24%	(2.62-2.05)/2.78=27.70%	35.28	38.06	2.78	0.30	0.10	4	2	41540		72		
1.25/1.25=100%	(1.25-0.33)/1.25=73.6%	38.06	39.31	1.25	2.50	2.50	5	5	41541		113		
2.17/2.26=96.02%	(2.17-1.2)/2.26=42.9%	39.31	41.57	2.26	2.50	20.00	8	3	41542	SP	182	0.24	
1.43/1.43=100%	(1.43-0.25)/1.43=82.52%	41.57	43.00	1.43	2.50	1.00	7	3	41543		100		
1.93/2=96.5%	(1.93-0.77)/2=58%	43.00	45.00	2.00	2.50	0.30	6	4	41544		148		
1.86/1.91=97.38%	(1.86-0.34)/1.91=79.58%	45.00	46.91	1.91	2.50	0.10	7	7	41545		97		
0.64/0.65=98.46%	(0.64-0.36)/0.65=43.08%	46.91	47.56	0.65	1.00	20.00	6	3	41546		1035	1.17	1.4
0.31/0.31=100%	(0.31-0.12)/0.31=61.29%	47.56	47.87	0.31	2.50	5.00	6	3	41547	SpGnCpTT	10000	12.75	15.77
0.97/0.97=100%	(0.97-0.18)/0.97=81.44%	47.87	48.84	0.97	2.50	0.00	6	6	41548		1272	1.37	1.3
2.26/2.56=88.28%	(2.26-0.31)/2.56=76.17%	48.84	51.40	2.56	2.50	0.30	6	6	41549		65		
2.38/2.6=91.54%	(2.38-1.38)/2.6=38.46%	51.40	54.00	2.60	2.50	0.10	4	3	41550		132		
1.33/2=66.5%	(1.33-0.3)/2=51%	54.00	56.00	2.00	2.50	0.10	4	5	41551		42		
2/2=100%	(2-0.76)/2=62%	56.00	58.00	2.00	2.50	Tr	4	3	41552		41		
2/2=100%	(2-1.14)/2=43%	58.00	60.00	2.00	1.00	0.30	4	2	41553		48		
2.99/3=99.67%	(2.99-1.16)/3=61%	60.00	63.00	3.00	2.50	0.30	4	3	41554		201	0.27	
2.8/3=93.33%	(2.8-1.04)/3=58.67%	63.00	66.00	3.00	2.50	0.30	4	5	41555		48		
2.89/3=96.33%	(2.89-1.54)/3=45%	66.00	69.00	3.00	2.50	0.10	4	4	41556		74		
2.79/3=93%	(2.79-1.84)/3=38.67%	69.00	72.00	3.00	1.00	0.30	4	2	41557		33		
2.92/3=97.33%	(2.92-1.53)/3=46.33%	72.00	75.00	3.00	2.50	0.30	4	3	41558		773	0.99	
2/2=100%	(2-1.34)/2=33%	75.00	77.00	2.00	2.50	1.00	5	2	41559		290	0.27	
2/2=100%	(2-1.77)/2=16.5%	77.00	79.00	2.00	2.50	0.30	5	2	41560		87		
1/1=100%	(1-0.84)/1=16%	79.00	80.00	1.00	2.50	1.00	5	2	41561		133		
1.35/1.38=97.83%	(1.35-0.12)/1.38=9.42%	80.00	81.38	1.38	5.00	Tr	7	9	41562		27		
1.95/2.72=72.43%	(1.95-0.25)/2.72=65.5%	81.38	84.10	2.72	2.50	0.30	7	7	41563		289	0.38	
1.88/2.06=91.26%	(1.88-0.79)/2.06=52.9%	84.10	86.16	2.06	2.50	0.10	5	4	41564		40		
1.22/1.31=93.13%	(1.22-0.84)/1.31=29%	86.16	87.47	1.31	2.50	0.10	5	2	41565		58		
0.85/0.89=95.51%	(0.85-0.74)/0.89=12.36%	87.47	88.36	0.89	2.50	0.30	5	2	41566		174	0.24	
0.39/0.39=100%	(0.39-0.29)/0.39=25.64%	88.36	88.75	0.39	2.50	5.00	7	4	41567	SP,PY,GN	623	0.79	
1.68/1.77=94.92%	(1.68-1.20)/1.77=27.12%	88.75	90.52	1.77	2.50	0.30	6	3	41568		124		
1.95/2.02=96.53%	(1.95-1.76)/2.02=9.41%	90.52	92.54	2.02	5.00	0.10	4	1	41569		19		
0.66/1.03=64.08%	(0.66-0.38)/1.03=27.18%	92.54	93.57	1.03	2.50	0.00	5	3	41570		17		
1.69/1.71=98.83%	(1.69-1.14)/1.71=32.16%	93.57	95.28	1.71	2.50	1.00	5	3	41571		114		
0.35/0.95=36.84%	(0.35-0)/0.95=36.84%	95.28	96.23	0.95	2.50	2.50	7	5	41572		113		
1.68/1.77=94.92%	(1.68-1.17)/1.77=28.81%	96.23	98.00	1.77	2.50	1.00	5	4	41573		68		
1.20/1.66=72.29%	(1.20-0)/1.66=72.29%	98.00	99.66	1.66	2.50	0.30	5	5	41574		36		
1.35/1.54=87.66%	(1.35-0.18)/1.54=75.97%	99.66	101.20	1.54	2.50	0.30	6	9	41575		121		

RECOVERY	HOLE NUMBER DDH-8 R.Q.D.	FROM	TO	WIDTH (M)	Py%	Vn%	A	F	SAMPLE NUMBER		ppb Au	GMT Au	GMT Ag	ppm Ag	ppm As	ppm Cd	ppm Cu	pct Fe	ppm Mn	ppm Mo	ppm Ni	ppm Pb	pct Pb	ppm Sb	ppm Zn	pct Zn	ppb Hg
1.22/3.04=40.13%	(1.22-0)/3.04=40.13%	26.52	29.56	3.04	1.00	0.30	7	10	41576		33			1.8	9	-1	198	5.04	64	4	18	60		11	46		40
1.34/3.05=43.93%	(1.34-0)/3.05=43.93%	29.56	32.61	3.05	1.00	0.30	7	10	41577	GN	61			1.6	57	2	57	7.8	113	4	22	220		9	151		60
2.4/3.05=78.69%	(2.4-0.38)/3.05=66.23%	32.61	35.66	3.05	5.00	0.00	7	8	41578		83			1.8	26	-1	137	6.54	433	2	26	68		17	65		50
1.72/3.05=56.39%	(1.72-0.28)/3.05=47.21%	35.66	38.71	3.05	2.50	0.10	6	8	41579		67			1.2	36	-1	242	6.13	223	2	23	24		10	33		45
2/2.29=87.33%	(2-0.28)/2.29=75.11%	38.71	41.00	2.29	2.50	0.00	5	6	41580		39			0.8	36	-1	61	4.56	691	2	21	36		7	23		45
2/2=100%	(2-0.93)/2=53.5%	41.00	43.00	2.00	2.50	0.10	5	3	41581		51			1.4	61	-1	126	5.2	894	2	17	43		10	26		40
1.69/2=84.5%	(1.69-0.39)/2=65%	43.00	45.00	2.00	2.50	0.00	5	5	41582		151	0.21		2.2	121	-1	146	7.9	1450	2	50	42		10	75		110
1.81/2=90.5%	(1.81-1)/2=40.5%	45.00	47.00	2.00	2.50	0.30	5	3	41583		118			4.6	63	12	165	6.87	1328	2	56	133		8	1242		130
1.78/1.76=101.14%	(1.78-0.69)/1.76=61.93%	47.00	48.76	1.76	2.50	0.10	5	3	41584		41			1	49	-1	35	4.78	1376	2	19	76		7	64		40
1.82/2=90.5%	(1.81-0.12)/2=80.5%	48.76	50.76	2.00	5.00	0.00	7	9	41585		62			0.8	120	-1	30	5.76	882	2	15	62		9	79		55
1/1=100%	(1-0.1)/1=90%	50.76	51.76	1.00	2.50	2.50	8	9	41586		50			1.4	155	1	26	5.38	1242	2	26	119		-5	149		50
1.31/1.57=83.44%	(1.31-0.37)/1.57=59.87%	51.76	53.33	1.57	2.50	0.10	6	4	41587		201	0.21		5.3	183	10	333	5.72	830	2	40	756		8	1004		2400
0.44/0.44=100%	(0.44-0.17)/0.44=61.36%	53.33	53.77	0.44	5.00	5.00	6	4	41588	SpGnCpTT	1111	1.47		49.9	184	394	2297	5.93	887	-1	36	10000	1.39	153	20000	3.51	170
0.55/1.71=32.16%	(0.55-0)/1.71=32.16%	53.77	55.48	1.71	5.00	0.30	7	8	41589		147			3.5	147	3	131	5.05	342	2	37	154		6	353		125
1.18/1.18=100%	(1.18-0.28)/1.18=76.27%	55.48	56.66	1.18	2.50	10.00	7	5	41590		170	0.21		4.1	109	2	125	3.77	985	2	22	277		7	210		85
1.01/1.01=100%	(1.01-0.57)/1.01=43.56%	56.66	57.67	1.01	2.50	10.00	6	4	41591		114			1.7	106	3	47	4.16	4901	1	1	131		6	349		90
2.38/2.37=100.42%	(2.38-1.42)/2.37=40.51%	57.67	60.04	2.37	2.50	1.00	7	5	41592		63			1.5	126	1	45	4.39	788	2	2	77		-5	149		50
1.86/1.83=101.64%	(1.86-1.33)/1.83=28.96%	60.04	61.87	1.83	2.50	0.10	7	4	41593		89			5.6	91	5	267	4.39	609	3	51	307		-5	631		125
1.96/2.13=92.02%	(1.96-0.79)/2.13=54.93%	61.87	64.00	2.13	2.50	0.30	5	3	41594		301	0.45		3.2	139	4	96	4.76	342	3	12	338		-5	580		100
1.87/2=93.5%	(1.87-0.94)/2=46.5%	64.00	66.00	2.00	2.50	1.00	5	3	41595		76			4.6	110	4	413	6.16	537	2	56	243		-5	466		100
2/2=100%	(2-0.74)/2=63%	66.00	68.00	2.00	5.00	1.00	6	3	41596		90			2.8	108	-1	66	6.36	82	4	49	41		-5	73		15
1.88/2=94%	(1.88-0.98)/2=45%	68.00	70.00	2.00	5.00	1.00	6	3	41597	SP	258	0.31		5.2	80	3	303	6.07	93	4	46	41		-5	319		35
2.02/2=101%	(2.02-1.51)/2=25.5%	70.00	72.00	2.00	5.00	2.50	6	3	41598		172	0.17		5.1	172	1	240	6.11	326	3	36	107		5	146		45
1.11/1.11=100%	(1.11-0.56)/1.11=49.55%	72.00	73.11	1.11	2.50	1.00	6	3	41599		150	0.21		2.9	111	2	91	4.7	190	3	22	118		-5	254		60
0.64/0.69=92.75%	(0.64-0.55)/0.69=13.04%	73.11	73.80	0.69	1.00	5.00	6	2	41600	SP	794	0.99		22.1	93	41	520	3.05	307	4	9	2314		20	5236		600
1.36/1.49=91.28%	(1.36-0)/1.49=91.28%	73.80	75.29	1.49	5.00	0.00	9	10	41601		38			9.9	137	5	773	4.77	718	4	10	304		320	599		250
1.34/1.34=100%	(1.34-0)/1.34=100%	75.29	76.63	1.34	5.00	0.30	9	10	41602		8			0.9	63	-1	10	4.15	852	3	2	48		-5	38		15
1.3/1.37=94.89%	(1.3-1.05)/1.37=18.25%	76.63	78.00	1.37	2.50	0.30	7	3	41603		7			0.4	37	2	15	3.46	838	2	2	50		6	195		70
2/2=100%	(2-0.13)/2=93.5%	78.00	80.00	2.00	2.50	0.10	7	4	41604		20			0.8	51	-1	11	4.26	828	2	3	23		-5	77		40
2.01/2=100.5%	(2.01-1.15)/2=43%	80.00	82.00	2.00	2.50	0.30	6	3	41605		25			0.9	41	2	8	2.71	757	2	2	77		-5	174		30
1.99/2=99.5%	(1.99-0.77)/2=61%	82.00	84.00	2.00	2.50	0.30	6	3	41606		24			1.1	53	-1	12	3.68	906	2	1	21		5	24		40
0.78/0.77=101.30%	(0.78-0.27)/0.77=66.23%	84.00	84.77	0.77	5.00	0.30	6	3	41607		36			1.5	58	-1	5	3.73	628	2	2	85		-5	98		40
0.69/0.69=100%	(0.69-0)/0.69=100%	84.77	85.46	0.69	5.00	0.00	9	10	41608	SP	396	0.65		19.2	72	5	89	4.12	658	3	2	1487		43	571		230
0.61/0.61=100%	(0.61-0.46)/0.61=24.59%	85.46	86.07	0.61	5.00	20.00	8	3	41609	SP,GN,CP	1419	2.02	70.9	50	199	148	1302	5.17	825	3	10	10000	1.18	54	16998		1900
0.24/0.24=100%	(0.24-0.14)/0.24=41.67%	86.07	86.31	0.24	2.50	40.00	8	3	41610	SP, GN	10000	28.35	689.5	50	118	329	1460	4.29	1253	-1	8	9297		100	20000	3.65	2400
0.85/0.85=100%	(0.85-0.24)/0.85=71.76%	86.31	87.16	0.85	10.00	0.30	7	4	41611		132			2.7	51	3	58	4.88	620	2	10	212		-5	292		280
0.87/0.87=100%	(0.87-0.42)/0.87=51.72%	87.16	88.03	0.87	5.00	0.10	7	3	41612		107			1.1	83	-1	72	7.74	1340	3	9	13		-5	88		190
1.96/1.97=99.49%	(1.96-0.62)/1.97=68.02%	88.03	90.00	1.97	5.00	0.30	6	4	41613		126			0.8	66	-1	136	6.47	837	2	11	18		5	32		110
2.61/2.64=98.86%	(2.61-1.35)/2.64=47.73%	90.00	92.64	2.64	5.00	0.10	6	3	41614		60			0.4	29	-1	162	6.53	1225	3	13	45		-5	56		60
0.53/0.53=100%	(0.53-0.39)/0.53=26.42%	92.64	93.17	0.53	5.00	2.50	6	2	41615	SP, GN	594	1.1	28.8	29.8	104	95	884	6.83	1306	3	15	9432		67	10966		1400
1.83/1.83=100%	(1.83-0.46)/1.83=74.86%	93.17	95.00	1.83	5.00	2.50	7	4	41616	SP	173	0.24		9.5	93	15	160	5.56	891	4	11	695		13	1812		270
2/2=100%	(2-1.31)/2=34.5%	95.00	97.00	2.00	5.00	0.10	5	3	41617		10			0.4	52	-1	6	4.85	628	3	-1	15		-5	18		40
1.95/2=97.5%	(1.95-0.777)/2=59%	97.00	99.00	2.00	2.50	0.10	5	3	41618		14			0.5	36	-1	16	3.55	698	2	-1	9		-5	6		40
2/2=100%	(2-1.53)/2=23.5%	99.00	101.00	2.00	2.50	0.10	5	2	41619		19			0.4	38	-1	4	4.07	551	2	-1	10		-5	5		60
1.95/2=97.5%	(1.95-1.11)/2=42%	101.00	103.00	2.00	2.50	0.10	5	3	41620		13			0.6	53	-1	9	4.53	815	2	-1	21		-5	7		30
1.98/2=99%	(1.98-1.34)/2=32%	103.00	105.00	2.00	2.50	0.30	5	3	41621		30			1.2	71	-1	8	4.02	903	3	-1	5		-5	16		35
1.97/2=98.5%	(1.97-1.74)/2=11.5%	105.00	107.00	2.00	2.50	0.10	5	2	41622		12			0.3	69	-1	2	4.42	1386	4	1	18		-5	30		20
1.92/2=96%	(1.92-1.26)/2=33%	107.00	109.00	2.00	2.50	0.10	5	3	41623		21			0.2	65	-1	18	4.87	1108	3	-1	15		-5	38		50
2/2=100%	(2-1.28)/2=36%	109.00	111.00	2.00	1.00	0.10	5	3	41624		37			-0.2	50	-1	4	4.07	1358	5	-1	4		-5	39		25
2/2=100%	(2-1.21)/2=39.5%	111.00	113.00	2.00	1.00	0.30	5	3	41625		49			0.4	61	-1	8	4.22	1415	1	-1	3		-5	35		40
2/2=100%	(2-0.53)/2=73.5%	113.00	115.00	2.00	2.50	0.30	5	4	41626		29			0.6	85	-1	3	4.12	859	2	1	14		-5	22		40
2/2=100%	(2-0.65)/2=67.5%	115.00	117.00	2.00	2.50	0.10	5	4	41627		34			0.8	99	-1	5	4.04	923	1	-1	29		-5	26		30
1.95/2=97.5%	(2-0.27)/2=86.5%	117.00	119.00	2.00	2.50	0.10	5	5	41628		34			1.1	87	-1	9	4.01	1050	3	-1	10		-5	15		10

HOLE NUMBER DDH-8																														
RECOVERY	R.Q.D.	FROM	TO	WIDTH (M)	Py%	Vn%	A	F	SAMPLE NUMBER		ppb Au	GMT Au	GMT Ag	ppm Ag	ppm As	ppm Cd	ppm Cu	pct Fe	ppm Mn	ppm Mo	ppm Ni	ppm Pb	pct Pb	ppm Sb	ppm Zn	pct Zn	ppb Hg
2/2=100%	(2-0.93)/2=53.5%	119.00	121.00	2.00	2.50	2.50	6	7	41629		98			3.5	136	-1	33	4.15	442	2	2	41		5	118		60
1.79/1.81=98.90%	(1.79-1.65)/1.81=7.73%	121.00	122.81	1.81	2.50	1.00	5	2	41630		104			3.2	112	2	171	3.4	127	2	14	97		7	296		60
1.19/1.24=95.97%	(1.19-0.79)/1.24=32.26%	122.81	124.05	1.24	2.50	2.50	5	2	41631		193	0.27		4.8	155	7	97	3.2	200	2	19	281		11	1045		160
1.92/1.95=98.46%	(1.92-0.87)/1.95=53.85%	124.05	126.00	1.95	1.00	20.00	5	4	41632		219	0.31		3.5	180	-1	54	4.28	1405	3	13	51		-5	85		60
0.56/0.74=75.68%	(0.56-0.27)/0.74=39.19%	126.00	126.74	0.74	5.00	70.00	9	5	41633		1021	1.3		4.5	513	-1	103	6.04	4836	2	8	146		10	75		50
2.29/2.26=101.33%	(2.29-1.83)/2.26=20.35%	126.74	129.00	2.26	5.00	0.10	6	3	41634		80			2.1	100	-1	320	7.62	2376	3	16	2		-5	73		35
2/2=100%	(2-1.59)/2=20.5%	129.00	131.00	2.00	5.00	0.10	6	2	41635		79			3.6	78	-1	651	8.21	2611	2	17	9		-5	90		25
1.94/2=97%	(1.94-1.35)/2=29.5%	131.00	133.00	2.00	5.00	0.10	6	2	41636		61			3.3	78	1	597	8.73	2762	3	17	117		-5	160		40
1.83/2=91.5%	(1.83-0.9)/2=46.5%	133.00	135.00	2.00	5.00	1.00	6	3	41637		19			0.7	53	-1	205	8.2	2721	3	17	11		-5	76		30
2/2=100%	(2-1.62)/2=19%	135.00	137.00	2.00	5.00	0.10	5	2	41638		113			2	104	-1	183	7.6	1814	2	12	26		-5	72		50
2.04/2=102%	(2.04-1.99)/2=2.5%	137.00	139.00	2.00	2.50	0.10	5	1	41639		122			3	106	-1	73	6.24	1824	3	12	15		-5	35		20
2/2=100%	(2-1.51)/2=24.5%	139.00	141.00	2.00	2.50	Tr	5	2	41640		45			1.5	62	-1	81	4.73	1652	3	10	4		-5	38		30
2/2=100%	(2-1.88)/2=6%	141.00	143.00	2.00	2.50	Tr	5	3	41641		27			0.9	67	-1	49	4.93	1582	2	11	6		-5	45		30
2/2=100%	(2-1.55)/2=22.5%	143.00	145.00	2.00	2.50	0.10	5	2	41642		116			2.2	128	-1	231	6.76	1797	2	14	3		-5	57		40
2.26/2.25=100.44%	(2.26-1.56)/2.22=31.11%	145.00	147.25	2.25	2.50	1.00	4	2	41643		30			0.9	57	-1	62	5.99	1970	1	11	36		-5	155		40
2.1/2.1=100%	(2.1-1.28)/2.1=39.05%	147.25	149.26	2.01	0.30	0.30	2	3	41644		11			0.5	13	1	88	5.89	1593	2	11	16		-5	187		20
2.02/2.03=99.51%	(2.02-1.2)/2.03=40.39%	149.26	151.29	2.03	0.30	1.00	2	3	41645		12			0.8	12	1	136	6.02	1933	2	11	27		-5	195		30
1.1/1.71=64.33%	(1.2-0.42)/1.71=39.76%	151.29	153.00	1.71	2.50	0.30	5	5	41646		35			1	51	-1	212	6.3	2115	2	11	8		-5	86		35
2/2=100%	(2-1.68)/2=16%	153.00	155.00	2.00	5.00	1.00	6	2	41647		32			1.2	198	-1	158	7.92	1802	2	13	9		-5	54		20
1.77/2=88.5%	(1.77-1.16)/2=30.5%	155.00	157.00	2.00	5.00	1.00	6	3	41648		56			1.2	85	-1	97	7.16	1802	5	9	16		-5	55		35
1.9/2=95%	(1.9-1.28)/2=31%	157.00	159.00	2.00	5.00	0.10	6	4	41649		50			1.8	102	-1	138	7.48	1203	3	12	19		-5	32		30
1.8/2=90%	(1.8-0.9)/2=45%	159.00	161.00	2.00	2.50	Tr	5	3	41650		236	0.31		2.5	84	-1	410	5.07	1556	3	10	66		-5	101		50
2.08/2=104%	(2.08-1.37)/2=35.5%	161.00	163.00	2.00	1.00	0.00	4	3	41651		32			0.4	17	-1	98	2.9	1352	2	7	-2		-5	37		30
2.39/2.57=93%	(2.39-0.62)/2=88.5%	163.00	165.57	2.57	5.00	0.30	5	5	41652		50			1.9	67	4	77	7.14	1476	4	9	182		-5	535		25
2.35/2.37=99.16%	(2.35-1.02)/2.37=56.12%	165.57	167.94	2.37	2.50	0.10	3	3	41653		43			1.7	22	-1	212	6.14	1868	2	9	12		-5	103		55
1.09/1.06=102.83%	(1.09-0.72)/1.06=34.91%	167.94	169.00	1.06	2.50	1.00	4	3	41654		73			1.2	67	3	120	6.27	1556	2	9	48		-5	425		30
1.62/2=81%	(1.62-0)/2=81%	169.00	171.00	2.00	2.50	0.30	8	10	41655		61			2	97	3	175	5.19	1607	2	8	67		-5	550		120
1.95/2=97.5%	(1.95-0.77)/2=59%	171.00	173.00	2.00	2.50	0.30	5	3	41656		51			1.4	82	-1	67	5.12	1463	2	9	49		-5	144		40
2.83/3=94.33%	(2.83-1.52)/3=43.67%	173.00	176.00	3.00	2.50	1.00	5	4	41657		59			0.8	65	-1	39	4.38	921	2	6	28		-5	26		30
3/3=100%	(3-2.23)/3=25.67%	176.00	179.00	3.00	1.00	0.30	4	2	41658		26			0.7	49	-1	51	4.24	981	2	7	83		-5	45		10
2.98/3=99.33%	(2.98-2.62)/3=12%	179.00	182.00	3.00	1.00	0.30	4	2	41659		39			0.8	57	-1	81	4.63	1143	3	8	19		-5	29		20
2.06/2=103%	(2.06-2.06)/2=0%	182.00	184.00	2.00	1.00	1.00	4	1	41660		24			0.7	27	-1	118	3.86	1442	2	7	13		-5	95		15
1.85/1.85=100%	(1.85-1.84)/1.85=0.5%	184.00	185.85	1.85	2.50	0.03	5	1	41661		44			0.8	42	-1	87	5.14	1518	1	7	8		-5	46		10
0.52/0.52=100%	(0.52-0.49)/0.52=5.77%	185.85	186.37	0.52	2.50	10.00	6	1	41662		832	1.41		3.1	91	-1	71	4.92	1586	1	7	258		-5	68		15
1.89/1.87=101.07%	(1.89-1.64)/1.87=13.37%	186.37	188.24	1.87	2.50	0.30	5	2	41663		32			1.1	39	-1	54	5.2	1352	2	9	10		-5	36		25
1.74/1.76=98.86%	(1.74-1.52)/1.76=12.5%	188.24	190.00	1.76	2.50	0.30	5	2	41664		62			2	54	-1	238	4.65	947	2	9	40		-5	49		30
1.31/1.32=99.24%	(1.31-0.75)/1.32=42.42%	190.00	191.32	1.32	5.00	2.50	5	3	41665		180	0.21		2.7	85	-1	108	5.23	713	3	8	53		-5	92		40
0.62/0.61=101.64%	(0.62-0.31)/0.61=50.82%	191.32	191.93	0.61	2.50	10.00	7	3	41666	SP, GN	1037	1.1		3.8	104	-1	1490	5.82	993	3	6	189		-5	82		60
1.91/1.91=100%	(1.91-0.87)/1.91=54.45%	191.93	193.84	1.91	2.50	2.50	7	5	41667		153	0.27		1.4	86	-1	70	4.97	931	4	6	46		-5	90		135
2.2/2.3=95.65%	(2.2-0.61)/2.3=69.13%	193.84	196.14	2.30	2.50	1.00	4	7	41668		101			1.7	65	2	98	5.94	1551	3	7	210		-5	384		90
1.76/1.86=94.62%	(1.76-0.12)/1.86=88.17%	196.14	198.00	1.86	2.50	Tr	5	8	41669		27			0.7	86	2	54	4.34	1824	3	7	99		-5	317		40
2.94/3=98%	(2.94-1.42)/3=50.67%	198.00	201.00	3.00	1.00	0.10	4	4	41670		31			1.3	83	4	67	6.05	1667	2	8	153		-5	668		70
1.86/2=93%	(1.86-1.4)/2=23%	201.00	203.00	2.00	1.00	Tr	4	3	41671		39			1.5	105	1	115	6.75	1530	7	8	99		-5	263		30
2.95/3=98.33%	(2.95-0.75)/3=73.33%	203.00	206.00	3.00	0.30	0.10	4	4	41672		33			1.4	41	-1	118	5.62	1753	1	6	67		-5	201		30
2.91/3=97%	(2.91-1.06)/3=61.67%	206.00	209.00	3.00	0.30	1.00	4	4	41673		15			0.7	17	1	62	4.87	1929	1	6	89		-5	228		30
1.9/1.97=96.45%	(1.9-0.56)/1.97=68.02%	209.00	210.97	1.97	1.00	5.00	4	7	41674		21			2	21	3	101	5.59	2720	-1	7	169		-5	453		90
3.03/3.03=100%	(3.03-2.13)/3.03=29.7%	210.97	214.00	3.03	0.30	0.30	4	2	41675		4			0.6	8	1	74	5.19	1725	1	6	124		-5	275		80
2.98/3=99.33%	(2.98-1.61)/3=45.67%	214.00	217.00	3.00	0.30	Tr	4	2	41676		11			0.4	-5	1	56	5	2220	2	6	62		-5	216		35
2.93/3=97.67%	(2.93-2.42)/3=17%	217.00	220.00	3.00	1.00	2.50	4	2	41677		47			1.2	25	5	70	5.18	2108	-1	5	187		-5	788		60
3/3=100%	(3-2.73)/3=9%	220.00	223.00	3.00	0.10	0.10	4	2	41678		6			0.5	-5	2	50	4.57	1819	-1	4	85		-5	326		40
2.97/3=99%	(2.97-1.75)/3=40.67%	223.00	226.00	3.00	0.30	0.30	4	3	41679		9			0.4	10	1	56	5.34	1935	1	6	79		-5	195		45
2.65/2.65=100%	(2.65-1.92)/2.65=27.55%	226.00	228.65	2.65	2.50	0.30	4	2	41680		43			0.9	75	2	40	4.11	1328	2	4	125		-5	338		55
0.83/0.83=100%	(0.83-0.67)/0.83=19.28%	228.65	229.48	0.83	1.00	50.00	6	3	41681		167	0.21		1.4	90	2	47	3.18	1174	2	3	200		-5	293		65

HOLE NUMBER DDH-8									SAMPLE																	
RECOVERY	R.Q.D.	FROM	TO	WIDTH (M)	Py%	Vn%	A	F	NUMBER	ppb Au	GMT Au	GMT Ag	ppm Ag	ppm As	ppm Cd	ppm Cu	pct Fe	ppm Mn	ppm Mo	ppm Ni	ppm Pb	pct Pb	ppm Sb	ppm Zn	pct Zn	ppb Hg
2.24/2.28=98.25%	(2.24-1.73)/2.28=22.37%	229.48	231.76	2.28	0.30	1.00	4	2	41682	74			0.9	16	-1	43	4.58	1021	1	4	-2		-5	47		80
1.96/2.01=97.51%	(1.96-1.54)/2.01=20.9%	231.76	233.77	2.01	0.30	1.00	4	2	41683	83			1.6	14	-1	49	4.15	1204	4	3	2		-5	46		80

HOLE NUMBER	DDH-9																												
RECOVERY	R.Q.D.	FROM	TO	WIDTH (m)	PY%	VN%	A	F	SAMPLE NUMBER		ppb Au	GMT Au	ppm Ag	ppm As	ppm Cd	ppm Cu	pct Fe	ppm Mn	ppm Mo	ppm Ni	ppm Pb	pct Pb	ppm Sb	ppm Zn	ppb Hg
1.65/1.82=90.66%	(1.65-0.88)/1.82=42.31%	5.18	7.00	1.82	2.50	0.00	4	3	41684		69		1.5	72	-1	57	3.24	600	1	21	227		-5	85	65
2/2=100%	(2-1.48)/2=26%	7.00	9.00	2.00	2.50	0.00	4	2	41685		34		0.6	88	-1	39	4.21	721	2	26	62		-5	45	70
1.92/2=96%	(1.92-1.62)/2=15%	9.00	11.00	2.00	2.50	0.10	4	2	41686		195	0.31	4.3	65	3	179	4.21	692	1	23	362		21	390	140
1.93/2=96.5%	(1.93-1.46)/2=23.5%	11.00	13.00	2.00	2.50	0.00	4	2	41687		28		0.7	20	-1	259	3.35	1048	1	21	16		-5	74	65
1.99/2=99.5%	(1.99-0.75)/2=62%	13.00	15.00	2.00	2.50	0.10	4	4	41688	GN, SP	120		2.1	49	4	53	3.98	700	1	23	447		-5	488	130
2/2=100%	(2-0.5)/2=75%	15.00	17.00	2.00	2.50	0.10	4	4	41689		62		0.5	63	-1	101	3.63	1315	1	20	15		-5	62	55
2/2=100%	(2-1.23)/2=38.5%	15.00	19.00	4.00	2.50	0.00	4	3	41690		142		0.8	60	-1	68	3.31	818	2	14	33		-5	44	45
1.99/2=99.5%	(1.99-1.75)/2=12%	19.00	21.00	2.00	2.50	0.10	4	2	41691		125		0.5	64	-1	320	4.14	652	2	19	11		-5	20	45
1.97/2=98.5%	(1.97-1.44)/2=26.5%	21.00	23.00	2.00	2.50	0.10	4	2	41692		95		0.9	41	2	76	3.15	739	2	13	140		-5	215	65
1.46/1.47=99.32%	(1.46-1.08)/1.47=25.85%	23.00	24.47	1.47	2.50	0.30	4	3	41693	SP	287	0.48	4.8	139	7	293	5.87	994	3	12	894		-5	822	170
2.28/2.28=100%	(2.28-1.36)/2.28=40.35%	24.47	26.75	2.28	1.00	Tr	3	2	41694		18		0.2	34	-1	172	4.33	1007	2	9	32		-5	80	40
1.92/2.01=95.52%	(1.92-1.37)/2.01=27.36%	26.75	28.76	2.01	2.50	Tr	3	2	41695		6		-0.2	36	-1	38	5.07	1059	2	12	45		-5	71	35
1.3/1.24=104.84%	(1.3-1)/1.24=24.19%	28.76	30.00	1.24	5.00	0.30	5	2	41696		45		0.4	80	-1	113	5.16	1402	2	8	33		-5	58	30
1.26/1.39=90.65%	(1.26-0.59)/1.39=48.2%	30.00	31.39	1.39	5.00	2.50	5	2	41697		114		1.2	92	-1	99	4.84	1121	2	11	33		-5	47	40
1.65/1.61=102.48%	(1.65-0.55)/1.61=68.32%	31.39	33.00	1.61	5.00	0.00	5	3	41698		53		0.4	108	-1	29	4.45	1445	1	7	37		-5	85	30
2/2=100%	(2-1.12)/2=44%	33.00	35.00	2.00	2.50	1.00	5	3	41699	SP	74		1.3	56	-1	113	4.73	1545	1	6	159		-5	261	60
1.99/2=99.5%	(1.99-1.21)/2=39.5%	35.00	37.00	2.00	2.50	0.10	5	3	41700	GN, SP	159	0.24	0.9	103	-1	39	5.67	1585	2	7	271		-5	170	50
1.79/2=89.5%	(1.79-1.21)/2=29%	37.00	39.00	2.00	2.50	0.10	4	2	41701		91		0.7	121	6	32	7.13	1534	2	11	77		-5	787	90
2/2=100%	(2-1.61)/2=19.5%	39.00	41.00	2.00	2.50	0.30	4	2	41702		46		0.3	90	-1	83	6.42	1675	3	15	111		-5	82	30
2/2=100%	(2-1.46)/2=27%	41.00	43.00	2.00	5.00	0.30	4	2	41703		59		0.3	85	-1	373	6.2	1545	2	11	96		-5	116	50
1.96/2=98%	(1.96-1.54)/2=21%	43.00	45.00	2.00	5.00	0.30	4	3	41704	SP, GN	98		1.1	72	11	122	5.15	1331	2	8	939		-5	1388	130
1.67/2=83.5%	(1.67-0.9)/2=38.5%	45.00	47.00	2.00	5.00	0.10	4	3	41705		142		2	52	2	270	5.63	1276	2	11	249		-5	394	70
2/2=100%	(2-0.5)/2=75%	47.00	49.00	2.00	2.50	0.30	4	3	41706	SP, CP	265	0.48	4.3	77	18	431	5.15	1027	1	10	1171		-5	2145	190
1.87/2=93.5%	(1.87-0.58)/2=64.5%	49.00	51.00	2.00	2.50	0.30	4	4	41707		37		0.2	56	-1	49	5.33	1283	2	11	241		-5	149	70
1.96/2=98%	(1.96-1.34)/2=31%	51.00	53.00	2.00	2.50	0.30	4	3	41708	SP	26		0.3	38	2	39	5.1	1519	2	9	133		-5	288	80
2/2=100%	(2-1.43)/2=28.9%	53.00	55.00	2.00	2.50	Tr	4	3	41709		41		0.4	43	-1	83	5.53	1717	1	11	43		-5	158	60
1.88/2=94%	(1.88-1.47)/2=20.5%	55.00	57.00	2.00	2.50	0.10	4	2	41710		81		0.9	18	1	120	5.3	1241	4	23	117		-5	259	65
2/2=100%	(2-1.77)/2=11.5%	57.00	59.00	2.00	2.50	0.10	4	2	41711		42		0.4	43	-1	58	5.94	1681	2	26	97		-5	210	60
2/2=100%	(2-1.68)/2=16%	59.00	61.00	2.00	2.50	0.30	4	2	41712		28		0.4	30	-1	202	5.32	1515	2	26	19		-5	101	60
1.92/2=96%	(1.92-1.04)/2=44%	61.00	63.00	2.00	2.50	0.10	4	3	41713	SP	50		1	-5	23	405	6.05	1921	2	31	29		-5	2256	95
1.97/2=98.5%	(1.97-1.31)/2=34%	63.00	65.00	2.00	2.50	1.00	4	4	41714	SP, GN	182	0.24	4.2	119	15	189	5.88	1162	-1	17	915		-5	1731	310
2/2=100%	(2-1.85)/2=7.5%	65.00	67.00	2.00	2.50	0.10	4	2	41715		13		0.2	14	-1	135	6.3	1225	2	9	5		-5	70	60
1.9/2=95%	(1.9-1.22)/2=34%	67.00	69.00	2.00	2.50	0.10	4	3	41716	SP, CP	72		1.7	60	8	82	5.37	1370	1	9	139		-5	1045	140
2/2=100%	(2-1.47)/2=26.5%	69.00	71.00	2.00	2.50	1.00	4	2	41717	SP, GN	115		4.4	86	24	175	5.07	1470	2	7	1057		-5	2610	310
2/2=100%	(2-1)/2=50%	71.00	73.00	2.00	2.50	0.10	4	3	41718	SP, GN	130		2.3	138	11	243	5.42	1313	2	7	1314		-5	1190	150
1.96/2=98%	(1.96-0.87)/2=54.5%	73.00	75.00	2.00	2.50	Tr	4	3	41719	SP, GN	70		1.8	95	13	116	6.05	1223	2	7	1221		-5	1458	120
1.96/2=98%	(1.96-0.37)/2=79.5%	75.00	77.00	2.00	2.50	0.10	4	4	41720		127		2.7	114	19	137	5.34	1381	2	5	2848		-5	2161	170
1.81/2=90.5%	(1.81-0.48)/2=66.5%	77.00	79.00	2.00	2.50	0.10	4	5	41721	SP	355	0.65	14.8	93	19	240	6.43	1682	2	8	1546		-5	2179	145
1.93/2=96.5%	(1.93-1.18)/2=37.5%	79.00	81.00	2.00	1.00	0.10	4	3	41722		30		1.1	-5	4	115	4.65	1642	1	8	299		-5	551	80
2/2=100%	(2-1.09)/2=45.5%	81.00	83.00	2.00	2.50	0.10	4	3	41723	GN	66		1.9	50	4	130	4.78	1205	2	7	799		-5	527	90
1.81/2=90.5%	(1.81-0.75)/2=53%	83.00	85.00	2.00	2.50	Tr	4	3	41724		82		0.6	48	-1	69	5.22	1328	2	7	64		-5	145	65
1.72/2=86%	(1.72-0.6)/2=56%	85.00	87.00	2.00	2.50	Tr	4	3	41725		81		1.9	-5	3	455	5.69	1486	2	8	267		-5	503	90
1.95/2=97.5%	(1.95-1.37)/2=29%	87.00	89.00	2.00	2.50	Tr	4	3	41726		58		1.8	35	6	73	5.28	1222	1	8	415		-5	685	80
2/2=100%	(2-1.27)/2=36.5%	89.00	91.00	2.00	2.50	0.10	4	2	41727		710	0.62	42.3	28	4	84	5.66	1268	3	9	84		-5	562	120
1.75/2=87.5%	(1.75-1.4)/2=17.5%	91.00	93.00	2.00	2.50	0.10	4	2	41728		25		0.4	7	-1	24	5.41	1426	1	6	35		-5	124	60
2/2=100%	(2-0.92)/2=54%	93.00	95.00	2.00	2.50	0.30	4	4	41729		56		1	13	-1	70	5.1	865	2	7	18		-5	47	60
1.85/2=92.5%	(1.85-1.19)/2=33%	95.00	97.00	2.00	2.50	0.00	4	2	41730		4		-0.2	-5	-1	71	5.4	726	2	8	-2		-5	48	50
1.9/2=95%	(1.9-1.57)/2=16.5%	97.00	99.00	2.00	1.00	Tr	4	2	41731		10		-0.2	-5	-1	72	4.34	690	2	6	4		-5	43	40
2.3/2.3=100%	(2.3-1.82)/2.3=20.87%	99.00	101.30	2.30	2.50	Tr	4	2	41732		185	0.24	6	-5	-1	51	4.83	705	1	7	-2		-5	52	90
1.97/3=65.67%	(1.97-0.42)/3=51.67%	101.30	103.30	2.00	2.50	0.10	5	8	41733		55		2.7	13	-1	63	4.86	809	-1	9	9		-5	52	40
1.7/1.7=100%	(1.7-1.22)/1.7=28.24%	103.30	106.00	2.70	2.50	0.10	4	2	41734		23		0.4	75	-1	105	4.6	1023	1	7	51		-5	84	40
0.87/0.87=100%	(0.87-0.64)/0.87=26.44%	106.00	106.87	0.87	2.50	0.10	4	3	41735		41		1.1	80	3	158	5.04	1006	2	7	298		-5	410	70
0.28/0.28=100%	(0.28-0)/0.28=100%	106.87	107.15	0.28	2.50	5.00	5	4	41736	SP, GN	294	0.48	13.1	95	154	655	5.65	796	2	6	10000	1.49	39	16547	1850

RECOVERY	R.Q.D.	FROM	TO	WIDTH (m)	PY%	VN%	A	F	NUMBER		ppb Au	GMT Au	ppm Ag	ppm As	ppm Cd	ppm Cu	pct Fe	ppm Mn	ppm Mo	ppm Ni	ppm Pb	pct Pb	ppm Sb	ppm Zn	ppb Hg
0.84/0.85=98.82%	(0.84-0.76)/0.85=9.41%	107.15	108.00	0.85	2.50	2.50	5	2	41737		8		-0.2	18	-1	15	4.5	844	1	7	51		-5	93	50
2.19/2.20=99.55%	(2.19-1.87)/2.2=91.36%	108.00	110.20	2.20	2.50	0.30	4	2	41738		21		0.4	52	-1	63	5.21	793	2	9	37		-5	94	55
0.23/0.23=100%	(0.23-0.11)/0.23=52.17%	110.20	110.43	0.23	2.50	5.00	4	3	41739	SP, GN	226	0.31	21.1	93	177	2294	5.58	661	-1	9	10000	1.22	39	18841	1050
1.52/1.57=96.82%	(1.52-1.05)/1.57=29.94%	110.43	112.00	1.57	1.00	0.30	4	3	41740		30		0.5	77	1	86	5.22	820	2	10	123		-5	225	60
1.94/2=97%	(1.94-1.74)/2=10%	112.00	114.00	2.00	2.50	0.10	4	2	41741		52		0.6	92	-1	186	4.52	860	1	7	36		-5	114	35
1.7/1.7=100%	(1.7-0.76)/1.7=55.29%	114.00	115.70	1.70	1.00	0.10	4	3	41742		63		1.2	68	-1	31	3.64	672	2	6	65		-5	192	50
1.74-1.79=97.21%	(1.74-0.29)/1.79=81.01%	115.70	117.49	1.79	2.50	0.30	7	10	41743		207	0.27	2.6	71	-1	95	4.04	679	3	6	49		5	41	180
1.51/1.51=100%	(1.51-0.58)/1.51=61.59%	117.49	119.00	1.51	1.00	0.30	4	3	41744		263	0.34	7.4	40	2	13	4.5	731	2	7	81		-5	284	50
1.95/2=97.5%	(1.95-1.28)/2=33.5%	119.00	121.00	2.00	2.50	0.10	4	3	41745		32		-0.2	40	-1	12	4.82	665	2	8	7		-5	51	40
1.93/2=96.5%	(1.93-1.33)/2=30%	121.00	123.00	2.00	2.50	Tr	4	3	41746		22		-0.2	43	-1	87	4.72	778	2	8	2		-5	55	30
2.01/2=100.5%	(2.01-1.3)/2=35.5%	123.00	125.00	2.00	1.00	0.30	4	3	41747		6		-0.2	33	-1	15	3.86	743	2	6	-2		-5	69	40
1.83-2.1=87.14%	(1.83-0.35)/2=70.47%	125.00	127.10	2.10	2.50	0.10	4	5	41748		18		-0.2	68	-1	46	4.42	971	3	5	44		-5	96	45
1.77/1.9=93.16%	(1.77-0.15)/1.9=85.26%	127.10	129.00	1.90	2.50	0.10	7	9	41749		145		5.5	47	-1	39	4.82	676	1	7	48		-5	113	60
2/2=100%	(2-1.06)/2=48%	129.00	131.00	2.00	2.50	Tr	5	3	41750		8		-0.2	37	-1	21	4.23	534	1	6	7		-5	34	55
1.94/2=97%	(1.94-1.44)/2=25%	131.00	133.00	2.00	1.00	Tr	5	2	41751		2		-0.2	21	-1	8	4.81	412	1	6	6		-5	36	40
2/2=100%	(2-1.66)/2=17%	133.00	135.00	2.00	2.50	0.10	5	2	41752		4		-0.2	17	-1	13	4.84	382	1	4	11		-5	24	25
1/1=100%	(1-0.75)/1=25%	135.00	136.00	1.00	5.00	0.00	5	2	41753		5		-0.2	20	-1	15	5.93	430	1	7	26		-5	30	45
2.04/2=102%	(2.04-1.16)/2=44%	136.00	138.00	2.00	2.50	0.10	4	3	41754	SP	89		0.9	52	-1	44	4.05	654	1	4	35		-5	68	45
2.05/2=102.5%	(2.05-1.77)/2=11.5%	138.00	140.00	2.00	2.50	Tr	4	2	41755		43		0.2	54	-1	8	5.21	797	2	3	19		-5	59	50
1.95/2=97.5%	(1.95-1.63)/2=16%	140.00	142.00	2.00	1.00	0.10	4	2	41756		47		0.2	46	-1	92	4.23	997	1	4	37		-5	89	40
2/2=100%	(2-1.83)/2=8.5%	142.00	144.00	2.00	2.50	0.10	4	2	41757		59		0.2	58	-1	45	4.7	1239	2	4	73		-5	124	80
2/2=100%	(2-1.66)/2=17%	144.00	146.00	2.00	1.00	0.00	4	2	41758		26		0.3	38	-1	24	4.06	1137	-1	3	77		-5	120	70
2.03/2=101.5%	(2.03-1.84)/2=9.5%	146.00	148.00	2.00	2.50	Tr	4	2	41759		20		0.3	37	-1	25	4.49	1249	2	4	18		-5	120	75
2.02/2=101%	(2.02-1.94)/2=4%	148.00	150.00	2.00	2.50	Tr	4	2	41760		92		0.2	43	-1	64	4.19	1022	1	4	14		-5	87	50
2/2=100%	(2-1.96)/2=2%	150.00	152.00	2.00	2.50	0.10	4	2	41761		10		-0.2	41	-1	67	4.3	1082	2	5	3		-5	90	50
2/2=100%	(2-1.66)/2=17%	152.00	154.00	2.00	2.50	0.10	4	2	41762		19		-0.2	46	-1	64	4.74	940	2	6	3		-5	64	50
1.94/2=97%	(1.94-1.48)/2=23%	154.00	156.00	2.00	2.50	0.30	5	2	41763		7		-0.2	34	-1	84	5.17	616	2	4	15		-5	43	40
1.58/1.58=100%	(1.58-1.34)/1.58=15.19%	156.00	157.58	1.58	2.50	0.30	5	2	41764		19		-0.2	32	-1	39	4.15	600	1	4	17		-5	30	45
1.86/1.95=95.38%	(1.86-0)/1.86=95.38%	157.58	159.53	1.95	2.50	0.30	7	9	41765	SP, GN	688	0.86	14.8	53	29	154	4.99	593	2	5	3335		9	2882	290
0.72/0.75=96%	(0.72-0)/0.75=96%	159.53	160.28	0.75	2.50	Tr	5	8	41766		46		0.4	56	1	66	4.98	1004	-1	5	164		-5	264	75
1.72/1.72=100%	(1.72-1.33)/1.72=22.67%	160.28	162.00	1.72	2.50	0.10	5	2	41767		18		0.2	54	-1	90	4.79	606	2	4	50		-5	100	100
1.82/2=91%	(1.82-1.5)/2=16%	162.00	164.00	2.00	2.50	0.10	4	2	41768		40		0.3	73	-1	73	4.5	770	2	5	30		-5	116	60
3.06/3=102%	(3.06-2.75)/3=10.33%	164.00	167.00	3.00	1.00	0.10	4	2	41769		37		0.3	44	-1	8	4.34	606	2	7	19		-5	50	50
2.93/3=97.67%	(2.93-2.05)/3=29.33%	167.00	170.00	3.00	2.50	Tr	4	2	41770		64		0.4	78	-1	7	4.45	923	1	5	-2		-5	69	55
3.05/3=101.67%	(3.05-2.66)/3=13%	170.00	173.00	3.00	1.00	Tr	4	2	41771		37		0.2	55	-1	36	4.38	845	2	6	-2		-5	53	50
3/3=100%	(3-2.33)/3=22.33%	173.00	176.00	3.00	1.00	Tr	4	2	41772		35		-0.2	38	-1	13	3.35	711	-1	5	-2		-5	50	30
2.95/3=98.33%	(2.95-2.27)/3=22.67%	176.00	179.00	3.00	2.50	2.50	4	2	41773		46		-0.2	28	-1	12	3.16	796	1	3	-2		-5	55	40
1.99/2.12=93.87%	(1.99-1.69)/2.12=14.15%	179.00	181.12	2.12	1.00	Tr	4	2	41774		49		0.3	30	-1	29	3.33	908	1	6	18		-5	75	40
1.21/1.21=100%	(1.21-0.66)/1.21=45.45%	181.12	182.33	1.21	2.50	1.00	6	6	41775		100		1.3	56	8	67	4.55	715	2	5	777		-5	1133	150
2.75/2.67=103%	(2.75-1.92)/2.67=31.09%	182.33	185.00	2.67	1.00	Tr	4	2	41776		28		0.2	37	-1	5	3.83	736	1	8	-2		-5	48	50
2.96/3=98.67%	(2.96-2.46)/3=16.67%	185.00	188.00	3.00	1.00	0.10	4	2	41777		20		0.3	34	-1	6	3.47	594	1	10	15		-5	90	60
3/3=100%	(3-1.42)/3=52.67%	188.00	191.00	3.00	2.50	1.00	4	3	41778		65		0.5	52	-1	13	3.55	699	-1	7	71		-5	145	50
2.94/3=98%	(2.94-2.1)/3=28%	191.00	194.00	3.00	2.50	Tr	4	2	41779		17		-0.2	37	-1	10	3.45	733	2	4	-2		-5	56	40
3/3=100%	(3-1.61)/3=46.33%	194.00	197.00	3.00	1.00	Tr	4	3	41780		30		-0.2	52	-1	32	3.44	854	2	3	3		-5	55	50
3.08/3=102.67%	(3.08-1.58)/3=50%	197.00	200.00	3.00	2.50	0.10	4	3	41781		145		2.2	63	4	72	3.36	667	2	3	279		-5	532	180
2.97/3=99%	(2.97-2.72)/3=8.33%	200.00	203.00	3.00	1.00	Tr	4	2	41782		215	0.24	1.4	47	-1	27	4.47	881	-1	8	5		-5	75	60
2.74/3=91.33%	(2.74-1.68)/3=35.33%	203.00	206.00	3.00	1.00	Tr	4	2	41783		102		0.3	42	-1	38	3.75	865	-1	7	5		-5	91	50
3/3=100%	(3-2.3)/3=23.33%	206.00	209.00	3.00	2.50	Tr	4	2	41784		24		-0.2	49	-1	87	4.35	901	1	8	6		-5	101	20
2.98/3=99.33%	(2.98-2)/3=32.67%	209.00	212.00	3.00	2.50	0.10	4	2	41785		56		0.3	78	-1	87	4.08	693	2	6	12		-5	73	30
3/3=100%	(3-1.8)/3=40%	212.00	215.00	3.00	1.00	1.00	4	3	41786		96		0.3	44	-1	24	3.7	697	3	6	35		-5	121	30
3.03/3=101%	(3.03-2.24)/3=26.33%	215.00	218.00	3.00	0.30	Tr	4	3	41787		28		-0.2	31	-1	6	3.35	819	-1	7	-2		-5	103	15
2.9/3=96.67%	(2.9-1.55)/3=45%	218.00	221.00	3.00	Tr	0.10	4	2	41788		15		-0.2	11	-1	3	2.73	645	1	4	3		-5	85	25
2.86/3=95.33%	(2.86-1.99)/3=29%	221.00	224.00	3.00	0.30	Tr	4	3	41789		20		0.2	23	-1	5	3.07	692	1	5	-2		-5	90	20
2.93/3=97.67%	(2.93-2.03)/3=30%	224.00	227.00	3.00	1.00	Tr	4	3	41790		34		0.3	30	-1	9	4.2	808	1	5	-2		-5	97	30

RECOVERY	R.Q.D.	FROM	TO	WIDTH (m)	PY%	VN%	A	F	NUMBER		ppb Au	GMT Au	ppm Ag	ppm As	ppm Cd	ppm Cu	pct Fe	ppm Mn	ppm Mo	ppm Ni	ppm Pb	pct Pb	ppm Sb	ppm Zn	ppb Hg
2.62/2.59=1.01%	(2.62-2.18)/2.59=16.99%	227.00	229.59	2.59	1.00	Tr	4	2	41791		66		1	47	-1	82	4.64	809	1	6	7		-5	88	60
1.39/1.41=98.58%	(1.39-0.1)/1.41=91.49%	229.59	231.00	1.41	2.50	0.10	7	9	41792		74		1	-5	-1	18	3.93	374	2	9	52		-5	135	45
2.14/2.14=100%	(2.14-0.37)/2.14=82.71%	231.00	233.14	2.14	1.00	0.10	5	5	41793		17		-0.2	-5	-1	4	4.32	706	2	9	-2		-5	56	50
1.86/1.86=100%	(1.86-0.73)/1.86=60.75%	233.14	235.00	1.86	1.00	0.10	4	4	41794		42		0.2	-5	-1	11	4.41	872	2	9	-2		-5	56	40
2.06/2.02=101.98%	(2.06-0.89)/2.02=57.92	235.00	237.02	2.02	2.50	0.30	4	3	41795		39		0.2	-5	-1	36	5	848	2	7	-2		-5	60	45
2.2/2.18=100.92%	(2.2-1.28)/2.18=42.20%	237.02	239.20	2.18	2.50	1.00	4	4	41796		42		0.2	-5	-1	17	4.84	678	-1	6	-2		-5	53	40
1.73/1.8=96.11%	(1.73-1.23)/1.8=27.78%	239.20	241.00	1.80	2.50	0.30	4	2	41797		33		0.2	-5	-1	23	4.9	779	1	6	-2		-5	60	25
2/2=100%	(2-1.04)/2=48%	241.00	243.00	2.00	2.50	1.00	4	3	41798		28		0.2	-5	-1	9	4.86	816	1	8	9		-5	57	35
1.99/2=99.5%	(1.99-0.84)/2=57.5%	243.00	245.00	2.00	1.00	2.50	4	4	41799		29		0.3	-5	-1	6	4.18	928	3	5	-2		-5	94	40
1.38/1.37=100.73%	(1.38-1.1)/1.37=20.44%	245.00	246.37	1.37	2.50	1.00	4	2	41800		73		0.9	11	-1	63	4.49	859	2	6	98		-5	191	40
1.4/1.39=100.72%	(1.4-0.94)/1.39=33.09%	246.37	247.76	1.39	5.00	0.10	5	3	41801	SP	193	0.21	1	101	12	14	6.03	457	4	8	518		-5	1476	180
1.22/1.25=97.6%	(1.22-0.54)/1.25=54.4%	247.76	249.01	1.25	5.00	5.00	7	5	41802	SP, GN	159	0.89	4	47	24	18	3.98	796	2	7	2708		-5	3120	300
1.69/1.69=100%	(1.69-1.18)/1.69=30.18%	249.01	250.70	1.69	2.50	2.50	6	3	41803	SP, GN	680	1.17	4.3	116	46	45	6.96	585	2	8	3982		15	5856	370
1.36/1.36=100%	(1.36-0.82)/1.36=39.71%	250.70	252.06	1.36	2.50	2.50	6	3	41804		873	0.21	1.1	84	2	95	4.95	834	2	8	119		-5	229	90
0.93/0.94=98.94%	(0.93-0.31)/0.94=65.96%	252.06	253.00	0.94	5.00	1.00	6	3	41805		189	0.21	1.1	76	-1	66	4.67	681	-1	8	41		-5	138	80
1/1=100%	(1-0.44)/1=56%	253.00	254.00	1.00	5.00	1.00	6	3	41806	SP	164	0.24	1.2	73	4	64	5.72	327	1	8	205		-5	650	120
1.17/1.11=105.4%	(1.17-0.27)/1.11=81.08%	254.00	255.11	1.11	2.50	1.00	6	4	41807		185	0.27	1.1	42	1	75	4.02	283	-1	7	44		-5	259	70
0.89/0.89=100%	(0.89-0.33)/0.89=62.92%	255.11	256.00	0.89	5.00	2.50	6	3	41808		237	0.17	0.8	35	-1	25	3.87	1425	-1	6	18		-5	94	60
1/1=100%	(1-0.41)/1=59%	256.00	257.00	1.00	5.00	2.50	6	3	41809		178	0.21	1.6	46	-1	28	4.63	769	2	6	28		-5	77	55
1/1=100%	(1-0.26)/1=74%	257.00	258.00	1.00	5.00	10.00	7	4	41810		111		0.6	35	-1	12	4.17	1193	1	6	6		-5	29	50
1/1=100%	(1-0.46)/1=54%	258.00	259.00	1.00	5.00	10.00	8	4	41811		116		1.1	28	-1	25	3.68	2311	2	5	45		7	143	70
1/1=100%	(1-0)/1=100%	259.00	260.00	1.00	5.00	5.00	7	7	41812	SP	175	0.24	0.7	41	16	25	6.02	786	2	7	121		6	2065	220
1.04/1=104%	(1.04-0.36)/1=68%	260.00	261.00	1.00	10.00	2.50	7	7	41813	SP, GN	278	0.34	1.3	32	15	9	5.57	717	2	8	1146		7	1948	220
1/1=100%	(1-0.37)/1=63%	261.00	262.00	1.00	5.00	5.00	7	4	41814	SP, GN	234	0.24	0.8	51	9	7	4.7	1751	2	6	409		8	1229	160
1/1=100%	(1-0.63)/1=37%	262.00	263.00	1.00	5.00	20.00	7	3	41815	SP	205	0.27	1	65	6	5	4.9	1798	3	7	573		-5	832	150
0.96/1=96%	(0.96-0.65)/1=31%	263.00	264.00	1.00	5.00	5.00	6	3	41816	SP, GN	335	0.51	2.3	35	18	10	5.11	1550	2	6	1712		7	2324	320
1/1=100%	(1-0.34)/1=66%	264.00	265.00	1.00	5.00	2.50	7	4	41817		254	0.38	0.5	31	-1	2	4.91	231	2	9	52		-5	38	50
1/1=100%	(1-0.55)/1=45%	265.00	266.00	1.00	2.50	5.00	6	3	41818		154	0.21	0.5	27	-1	5	4.76	1955	1	8	130		5	154	45
0.94/1=94%	(0.94-0.22)/1=72%	266.00	267.00	1.00	2.50	5.00	6	3	41819	SP	174	0.24	1.3	35	3	10	4.67	2325	2	7	222		5	388	80
0.99/1=99%	(0.99-0.49)/1=50%	267.00	268.00	1.00	5.00	10.00	7	3	41820	SP	251	0.27	0.9	48	10	23	7.03	1356	2	15	685		10	1214	150
1.14/1.12=101.79%	(1.14-0.45)/1.12=61.61%	268.00	269.12	1.12	5.00	2.50	6	4	41821		117		0.7	13	-1	109	7.2	906	2	21	105		-5	114	70
1.25/1.24=100.81%	(1.25-0.62)/1.24=50.81%	269.12	270.36	1.24	5.00	2.50	6	3	41822		134		0.5	27	1	31	6.58	1046	1	20	61		-5	173	60

Hole No: 89-DDH-10

RECOVERY	R.Q.D.	FROM	TO	WIDTH (M)	PY%	VN%	A	F	SAMPLE NUMBER		ppb Au	GMT Au	GMT Ag	ppm Ag	ppm As	ppm Cd	ppm Cu	pct Fe	ppm Mn	ppm Mo	ppm Ni	ppm Pb	pct Pb	ppm Sb	ppm Zn	pct Zn	ppb Hg
1.40/1.40=100%	(1.40-0)/1.4=100%	6.83	8.23	1.40	2.50	0.00	6	7	41823		78			0.6	77	1	145	7.55	881	3	15	81		-5	225		70
2.37/3.05=77.70%	(2.37-0.33)/3.05=67.87%	8.23	11.28	3.05	2.50	0.10	5	7	41824		24			0.5	57	2	87	6.8	921	2	15	79		-5	377		25
2.3/3.04=75.66%	(2.3-1.21)/3.04=35.86%	11.28	14.32	3.04	2.50	Tr	4	4	41825		200	0.17		1.4	59	10	48	5.49	1123	2	14	691		-5	1051		85
2.46/3.05=80.66%	(2.46-0.64)/3.05=59.67%	14.32	17.37	3.05	2.50	Tr	4	6	41826		909	0.89		5.3	106	20	184	6.33	1132	2	12	1752		7	2243		180
2.57/3.05=84.26%	(2.57-0.73)/3.05=60.33%	17.37	20.42	3.05	2.50	Tr	4	4	41827		433	0.41		2.1	104	6	59	6.17	1395	2	15	304		-5	672		75
2.59/3.05=84.92%	(2.59-0.3)/3.05=75.08%	20.42	23.47	3.05	2.50	Tr	5	9	41828		326	0.34		1.9	71	8	217	6.6	2224	2	15	769		-5	900		90
2.96/3.05=97.05%	(2.96-0.98)/3.05=64.92%	23.47	26.52	3.05	2.50	Tr	5	3	41829		224	0.21		1	77	-1	58	7.14	1184	3	13	208		-5	250		70
2.96/3.04=97.37%	(2.96-0.91)/3.04=67.43%	26.52	29.56	3.04	1.00	Tr	5	5	41830		74			0.7	89	6	145	6.84	1732	2	15	505		-5	575		60
1.44/1.44=100%	(1.44-0.21)/1.44=85.42%	29.56	31.00	1.44	2.50	Tr	5	5	41831		119			1.1	63	9	247	7.85	1970	2	15	673		-5	888		60
1.77/2=88.5%	(1.77-0.39)/2=69%	31.00	33.00	2.00	2.50	0.00	5	5	41832		61			0.5	82	6	65	6.34	1328	2	15	354		-5	554		45
1.91/2=95.5%	(1.91-0.31)/2=80%	33.00	35.00	2.00	2.50	0.00	5	5	41833		87			0.7	68	4	161	6.75	1146	3	14	396		-5	487		35
1.96/2=98%	(1.96-43)/2=76.5%	35.00	37.00	2.00	2.50	0.00	5	4	41834		199	0.17		0.9	107	4	148	8	1395	2	17	188		-5	398		30
1.75/2=87.5%	(1.75-0.9)/2=42.5%	37.00	39.00	2.00	2.50	0.10	5	3	41835		124			0.8	87	3	55	8.52	1361	9	17	173		-5	388		25
1.56/1.54=101.3%	(1.56-0.69)/1.54=56.49%	39.00	40.54	1.54	2.50	Tr	5	3	41836		945	0.86		3	137	-1	161	8.92	1371	3	17	131		-5	195		15
0.7/1.22=58.20%	(0.71-0.16)/1.22=45.08%	40.54	41.76	1.22	2.50	0.00	5	5	41837		148			1.9	124	3	102	8.62	1335	3	15	81		-5	222		20
2.2/2.24=98.21%	(2.2-0.3)/2.24=84.82%	41.76	44.00	2.24	5.00	Tr	6	3	41838		446	0.17		1	65	4	84	7.63	1481	2	18	327		-5	312		20
2/2=100%	(2-1.05)/2=47.5%	44.00	46.00	2.00	2.50	Tr	6	3	41839		111			1.2	41	7	102	6.94	1133	2	13	383		-5	763		45
2/2=100%	(2-0.28)/2=86%	46.00	48.00	2.00	2.50	Tr	6	6	41840		95			1.8	61	15	367	7.93	1203	2	12	757		-5	1471		90
1.94/2=97%	(1.94-0.48)/2=73%	48.00	50.00	2.00	5.00	0.30	6	4	41841		20			0.8	56	4	103	7.31	962	3	14	212		-5	441		40
1.96/2=98%	(1.96/0.16)/2=90%	50.00	52.00	2.00	5.00	0.30	6	5	41842		23			0.8	34	2	98	5.36	720	3	14	340		-5	285		50
1.83/1.95=93.85%	(1.83-0.29)/1.95=78.97%	52.00	53.95	1.95	5.00	Tr	6	4	41843		25			0.6	44	-1	52	5.69	644	2	13	76		-5	135		25
1.89/3.04=62.17%	(1.89-0)/3.04=62.17%	53.95	56.99	3.04	5.00	Tr	6	5	41844		67			1.3	52	-1	35	7.22	711	2	12	57		-5	141		15
2.17/3.05=71.15%	(2.17-0.61)/3.05=51.12%	56.99	60.04	3.05	5.00	0.00	6	5	41845		49			1.2	35	2	72	5.36	933	2	12	29		-5	152		25
1.99/1.96=101.53%	(1.99-1.16)/1.96=42.35%	60.04	62.00	1.96	5.00	0.00	6	3	41846		55			1	40	-1	204	5.92	765	2	16	18		-5	67		15
2/2=100%	(2.-1.6)/2=20%	62.00	64.00	2.00	2.00	0.30	6	2	41847		13			0.3	42	-1	73	6.2	887	1	13	11		-5	53		10
1.99/2=99.5%	(1.99-1.46)/2=26.5%	64.00	66.00	2.00	5.00	0.10	6	2	41848		21			0.4	42	-1	104	6.18	931	2	13	24		-5	68		35
1.09/2=54.5%	(1.09-0.28)/2=40.5%	66.00	68.00	2.00	5.00	0.30	7	6	41849		257	0.27		4.7	51	28	152	9.11	387	4	13	971		15	3093		330
2/2=100%	(2-1.26)2=37%	68.00	70.00	2.00	5.00	0.00	6	3	41850		212	0.24		2.7	42	5	69	5.98	977	2	13	432		-5	663		85
2/2=100%	(2-1.4)/2=30%	70.00	72.00	2.00	5.00	0.10	6	3	41851		152	0.24		2.4	41	6	44	6.16	1330	1	13	461		6	772		85
1.95/2=97.5%	(1.95-1.26)/2=34.5%	72.00	74.00	2.00	5.00	0.30	6	4	41852		98			1.3	36	-1	47	5.64	1055	2	11	182		6	176		20
1.63/2=61.5%	(1.63-0.43)/2=60%	74.00	76.00	2.00	5.00	1.00	6	4	41853		94			1.5	58	2	76	5.7	1089	2	12	172		-5	337		45
1.94/2=97%	(1.94-1.31)/2=31.5%	76.00	78.00	2.00	5.00	0.30	6	2	41854		366	0.38		3.7	48	7	166	6.74	825	1	12	15		-5	919		110
1.92/2=96%	(1.92-1.22)/2=35%	78.00	80.00	2.00	5.00	0.10	6	2	41855	SP	424	0.45		14.2	43	13	331	5.57	1318	2	11	41		5	1656		160
1.99/2=99.5%	(1.99-1.58)/2=20.5%	80.00	82.00	2.00	5.00	1.00	6	3	41856		4417	3.15		30.5	56	13	254	5.87	1433	2	11	446		5	1699		390
1.95/2=97.5%	(1.95-0.73)/2=61%	82.00	84.00	2.00	5.00	0.30	6	5	41857		450	0.45		2.3	98	4	122	5.33	1232	2	12	275		-5	558		60
1.68/2=84%	(1.68-0.58)/2=55%	84.00	86.00	2.00	5.00	0.30	6	5	41858		159	0.14		1	42	-1	50	5.94	1247	1	11	40		-5	81		35
2/2=100%	(2-1.05)/2=42.5%	86.00	88.00	2.00	5.00	0.30	6	3	41859		250	0.21		1.2	60	2	51	5.97	1363	2	7	183		-5	262		30
1.67/2=83.5%	(1.67-1.05)/2=31%	88.00	90.00	2.00	5.00	0.30	6	3	41860		266	0.27		1.3	42	2	36	6.19	1286	2	5	85		-5	278		30
2/2=100%	(2-1.43)/2=28.5%	90.00	92.00	2.00	5.00	0.10	6	2	41861		276	0.34		1.3	40	2	36	7.15	1330	2	6	55		-5	322		25
1.92/2=96%	(1.92-1.16)/2=38%	92.00	94.00	2.00	5.00	Tr	6	3	41862		377	0.38		2.4	54	18	72	6.58	902	2	9	55		8	2268		170
1.85/2=92.5%	(1.85-1.05)/2=40%	94.00	96.00	2.00	2.50	0.30	6	3	41863	SP	217	0.21		1.7	35	5	45	4.99	856	2	9	47		-5	641		85
2/2=100%	(2-1.6)/2=20%	96.00	98.00	2.00	2.50	0.30	6	2	41864		322	0.31		2.5	87	5	148	5.13	1152	2	9	29		-5	780		130
0.92/0.92=100%	(0.92-0.88)/2=2%	98.00	98.92	0.92	2.50	0.00	6	2	41865		296	0.31		1.9	67	7	88	4.8	818	1	10	51		-5	948		135
1/1.08=92.59%	(1-0.36)/1.08=59.26%	98.92	100.00	1.08	2.50	2.50	7	5	41866		367	0.38		4.9	90	9	152	5.07	518	2	19	54		-5	1152		125
1.21/2.12=57.08%	(1.21-0.46)/2.12=35.38%	100.00	102.12	2.12	2.50	2.50	7	5	41867		643	0.62		2.7	142	13	56	6.28	98	2	9	126		-5	1639		120
1.89/1.92=98.44%	(1.89-0.51)/1.92=71.88%	102.12	104.04	1.92	5.00	1.00	6	3	41868		444	0.41		2.9	232	12	114	6.09	995	4	7	80		-5	1513		160
1.18/1.72=68.6%	(1.18-0.6)/1.72=33.72%	104.04	105.76	1.72	2.50	Tr	5	3	41869		238	0.24		2.2	130	25	84	5.41	1817	2	7	214		8	3396		280
2.47/3.05=80.98%	(2.47-1.2)/3.05=41.64%	105.76	108.81	3.05	2.50	0.10	5	4	41870		260	0.24		2	126	7	94	4.58	1744	1	5	594		-5	1086		105
1.75/3.05=57.38%	(1.75-0.65)/3.05=36.07%	108.81	111.86	3.05	2.50	0.30	4	6	41871	SP	174	0.17		0.9	139	7	23	6.38	2078	2	6	74		6	1103		100
1.4/1.41=99.29%	(1.4-0.31)/1.41=84.4%	111.86	113.27	1.41	1.00	0.30	5	5	41872		96			0.5	158	6	95	6.24	1944	2	5	34		-5	980		65
2.38/2.4=99.17%	(2.38-1.65)/2.4=30.42%	113.27	115.67	2.40	1.00	0.10	4	3	41873		93			0.5	96	4	119	5.13	2128	2	6	138		-5	724		40
2.92/3=97.33%	(2.92-1.36)/3=52%	115.67	118.67	3.00	2.50	0.30	4	3	41874		90			0.6	114	8	189	6.82	2496	4	11	56		-5	1216		80
0.92/1=92%	(0.92-0.12)/1=80%	118.67	119.67	1.00	2.50	5.00	7	5	41875	SP	78			0.3	90	1	8	3.78	2198	2	8	17		-5	318		30

RECOVERY	R.Q.D.	FROM	TO	WIDTH (M)	PY%	VN%	A	F	NUMBER		ppb Au	GMT Au	GMT Ag	ppm Ag	ppm As	ppm Cd	ppm Cu	pct Fe	ppm Mn	ppm Mo	ppm Ni	ppm Pb	pct Pb	ppm Sb	ppm Zn	pct Zn	ppb Hg
1.02/1.33=76.69%	(1.02-0)/1.33=76.69%	119.67	121.00	1.33	2.50	2.50	7	6	41876		132			0.5	111	-1	5	4.64	1941	1	11	81		-5	114		10
0.9/0.9=100%	(0.9-0.13)/0.9=85.56%	121.00	121.90	0.90	2.50	0.30	5	4	41877		321	0.21		0.7	134	-1	7	5.48	1445	2	13	18		-5	88		15
2/2.1=95.24%	(2-1.45)/2.1=26.19%	121.90	124.00	2.10	5.00	0.10	5	3	41878		185	0.1		0.5	147	-1	15	6.13	2043	2	11	12		-5	220		55
1.87/2=93.5%	(1.87-1.16)/2=35.5%	124.00	126.00	2.00	2.50	Tr	5	2	41879		109			0.5	148	-1	18	6.73	2104	2	10	29		-5	201		70
1.92/2=96%	(1.92-0.78)/2=57%	126.00	128.00	2.00	5.00	Tr	5	3	41880		99			0.4	125	-1	66	6.04	2507	2	9	20		-5	347		130
2.06/2=103%	(2.06-1.17)/2=44.5%	128.00	130.00	2.00	2.50	0.10	5	4	41881		60			0.5	107	1	78	5.92	2869	2	7	165		-5	367		175
1.89/2=94.5%	(1.89-1.56)/2=15.5%	130.00	132.00	2.00	2.50	0.30	5	2	41882		96			0.8	108	5	83	5.49	2095	2	8	104		-5	823		80
2/2=100%	(2-1.26)/2=37%	132.00	134.00	2.00	5.00	0.30	5	2	41883		111			0.9	102	7	105	5.62	2130	2	7	147		8	1119		55
1.96/2=98%	(1.96-1.43)/2=26.5%	134.00	136.00	2.00	2.50	0.30	4	2	41884	SP, GN	106			1.1	87	16	60	4.72	1762	2	6	520		7	2158		145
1.96/2=98%	(1.96-1.12)/2=42%	136.00	138.00	2.00	2.50	0.30	5	3	41885		69			0.4	97	4	12	5.27	1715	2	5	34		5	682		60
1.43/1.46=97.95%	(1.43-0.7)/1.46=50%	138.00	139.46	1.46	5.00	1.00	5	3	41886		61			0.4	89	9	12	6.79	1691	15	8	83		-5	1316		95
0.78/0.78=89.66%	(0.78-0.23)/0.78=63.22%	139.46	140.33	0.87	2.50	1.00	4	6	41887	SP, GN	79			2.6	73	141	64	8.04	2205	6	22	878		19	18406		520
0.18/0.98=18.37%	(0.18-0)/0.98=18.37%	140.33	141.31	0.98	2.50	5.00	9	10	41888	SP, GN	35			1.3	58	215	32	4.27	1977	-1	7	1254		49	20000	2.55	600
0.63/0.64=98.44%	(0.63-0.31)/0.64=50%	141.31	141.94	0.63	2.50	2.50	6	3	41889		54			2.3	79	26	15	5.56	2021	-1	7	1729		-5	3328		250
0.58/1.47=39.46%	(0.58-0)/1.47=39.46%	141.94	143.41	1.47	2.50	2.50	9	10	41890	SP	166	0.17		4.7	90	99	175	6.66	1646	1	9	3869		26	11188		650
1.57/1.59=98.74%	(1.57-1.47)/1.59=6.29%	143.41	145.00	1.59	5.00	0.00	4	2	41891		135			2.9	132	26	145	5.85	1637	2	8	1666		7	3483		220
1.88/2=94%	(1.88-1.3)/2=29%	145.00	147.00	2.00	5.00	0.10	4	3	41892		126			1.9	111	12	112	6.12	1865	2	7	1185		-5	1846		130
2/2=100%	(2-0.96)/2=52%	147.00	149.00	2.00	5.00	0.30	4	3	41893		161	0.17		2.7	110	25	341	6.55	1943	1	8	1489		6	3393		195
1.93/2=96.5%	(1.93-1.24)/2=24.5%	149.00	151.00	2.00	5.00	0.30	4	4	41894	SP, GN	161	0.14		3.4	102	51	240	6.7	1922	2	8	2067		14	6312		280
2/2=100%	(2-0.83)/2=58.5%	151.00	153.00	2.00	2.50	0.30	5	3	41895		115			1.6	97	13	134	5.65	1539	2	13	765		-5	1721		220
0.88/0.95=92.63%	(0.88-0.21)/0.95=70.53%	153.00	153.95	0.95	5.00	0.10	5	4	41896		165	0.1		1.5	83	13	119	5.97	1293	3	11	203		-5	1763		90
0.58/0.58=100%	(0.58-0)/0.58=100%	153.95	154.53	0.58	5.00	5.00	8	10	41897	SP, GN	708	0.72		15.4	212	190	197	7.04	1079	3	11	4694		47	20000	2.31	1150
1.09/1.37=79.56%	(1.09-0.26)/1.37=60.58%	154.53	155.90	1.37	5.00	0.30	6	4	41898		818	1.27		14.4	102	42	71	4.92	966	3	11	2658		12	4907		340
0.17/0.17=100%	(0.17-0)/0.17=100%	155.90	156.07	0.17	2.50	30.00	9	6	41899	SP, GN	3713	4.22	124.5	50	240	1115	1626	7.51	2915	-1	33	10000	5.5	303	20000	13.7	4600
0.9/0.9=100%	(0.9-0.2)/0.9=77.78%	156.07	156.97	0.90	2.50	0.30	6	6	41900	SP	234	0.24		2.5	85	23	94	6.05	977	2	16	754		11	2813		135

Hole No: 89-DDH-11

RECOVERY	R.Q.D.	FROM	TO	WIDTH (m)	PY%	VN%	A	F	SAMPLE NUMBER		ppb Au	GMT Au	GMT/FA Ag	GMT/AA Ag	ppm Ag	ppm As	ppm Cd	ppm Cu	pct Fe	ppm Mn	ppm Mo	ppm Ni	ppm Pb	ppm Sb	ppm Zn	pct Zn	ppb Hg
1.18/1.18=100%	(1.18-0.24)/1.18=79.66%	8.23	9.41	1.18	2.50	0.10	5	7	41901		34				0.5	86	-1	134	5.88	935	2	13	68	-5	164		5
1.42/1.59=89.31%	(1.42-0)/1.50=89.31%	9.41	11.00	1.59	2.50	1.00	8	8	41902	SP	18				0.6	86	1	96	6.5	945	2	14	76	-5	278		15
1.32/2.1=57.14%	(1.32-0.33)/2.1=47.14%	11.00	13.10	2.10	2.50	0.10	7	4	41903		28				0.5	93	-1	43	6.86	853	2	15	66	-5	216		15
1.88/1.9=98.95%	(1.88-0.31)/1.9=82.63%	13.10	15.00	1.90	2.50	0.10	5	3	41904	SP	112				1.3	84	7	151	5.46	1207	2	12	558	5	828		30
1.85/2=92.5%	(1.85-0.39)/2=73%	15.00	17.00	2.00	2.50	Tr	5	6	41905		226	0.38			2.3	60	14	130	5.75	947	2	14	601	-5	1416		80
1.99/2=99.5%	(1.99-1.07)/2=46%	17.00	19.00	2.00	2.50	Tr	4	3	41906		263	0.45			2.3	113	5	161	6.88	1336	2	13	291	-5	590		75
1.91/2=95.5%	(1.91-0.57)/2=67%	19.00	21.00	2.00	2.50	Tr	4	4	41907		287	0.48			2.4	110	7	164	6.82	1427	3	14	414	-5	710		90
1.45/2=72.5%	(1.45-0)/2=72.5%	21.00	23.00	2.00	2.50	Tr	4	6	41908		356	0.51			2.8	68	5	182	6.88	1874	2	13	233	-5	649		50
1.61/2=80.5%	(1.61-0.35)/2=63%	23.00	25.00	2.00	2.50	Tr	4	6	41909		81				1.2	94	10	255	5.88	1231	1	13	976	-5	1146		120
1.95/2=97.5%	(1.95-0.7)/2=62.5	25.00	27.00	2.00	2.50	Tr	5	3	41910		152	0.24			1	128	3	35	6.34	1388	3	14	191	-5	313		35
1.93/2=96.5%	(1.93-0.53)/2=70%	27.00	29.00	2.00	2.50	0.00	5	3	41911		129				1.3	138	5	107	6.93	1298	3	14	670	-5	545		60
1.92/2=96%	(1.92-0.95)/2=48.5%	29.00	31.00	2.00	2.50	Tr	5	3	41912		337	0.55			2.3	168	4	119	6.87	1284	3	14	181	-5	377		20
2.06/2=103%	(2.06-1.54)/2=26%	31.00	33.00	2.00	2.50	Tr	5	2	41913		165	0.27			1.3	94	3	228	6.7	1196	3	14	231	-5	410		30
1.83/2=91.5%	(1.83-1.11)/2=36%	33.00	35.00	2.00	5.00	0.10	5	2	41914		45				0.7	122	4	111	6.67	1062	2	14	287	-5	583		25
2/2=100%	(2-1.52)/2=24%	35.00	37.00	2.00	5.00	Tr	5	2	41915		68				0.7	93	4	164	7.31	1171	2	17	258	-5	578		30
1.93/2=96.5%	(1.93-0.84)/2=54.5%	37.00	39.00	2.00	5.00	Tr	5	3	41916		125				0.9	125	2	102	7.49	1028	2	14	81	-5	174		10
1.85/2=92.5%	(1.85-0.74)/2=55%	39.00	41.00	2.00	2.50	Tr	5	3	41917		85				0.6	70	5	92	7.52	1289	2	13	87	-5	279		10
2/2=100%	(2-0.13)/2=93.5%	41.00	43.00	2.00	5.00	0.10	6	6	41918		452	0.68			3.5	79	19	285	7.95	769	2	13	1355	-5	1884		80
2.08/2=104%	(2.08-0.4)/2=84%	43.00	45.00	2.00	5.00	0.00	5	3	41919		68				0.6	57	3	63	6.57	973	2	11	43	-5	234		-5
1.9/2=95%	(1.9-0.32)/2=79%	45.00	47.00	2.00	5.00	0.00	6	4	41920		74				1.1	67	4	138	6.68	744	2	12	134	-5	429		15
1.98/2=99%	(1.98-0.66)/2=66%	47.00	49.00	2.00	5.00	0.00	6	3	41921		67				1.1	55	4	101	6.25	980	2	13	137	-5	441		10
1.93/2=96.5%	(1.93-0.61)/2=66%	49.00	51.00	2.00	5.00	0.10	6	3	41922		44				0.6	50	-1	102	5.65	915	4	13	66	-5	145		15
1.95/2=97.5%	(1.95-0.5)/2=72.5%	51.00	53.00	2.00	5.00	Tr	6	3	41923		13				0.4	40	-1	168	6.28	749	1	11	65	-5	150		5
1.97/2=98.5%	(1.97-0.37)/2=80%	53.00	55.00	2.00	5.00	0.00	6	4	41924		10				0.3	41	1	49	5.35	614	2	9	55	-5	107		5
1.85/2=92.5%	(1.85-0.2)/2=82.5%	55.00	57.00	2.00	5.00	0.10	6	4	41925		28				0.5	56	-1	32	6.14	765	2	16	44	-5	129		10
2/2=100%	(2-0.53)/2=73.5%	57.00	59.00	2.00	5.00	0.00	5	3	41926		14				0.6	46	4	82	5.29	950	2	12	117	-5	300		10
2.87/2.87=100%	(2.87-0.43)/2=1.22%	59.00	61.87	2.87	5.00	0.10	6	4	41927		20				0.4	46	1	36	6.05	670	2	13	20	-5	126		10
0.48/1.22=39.34%	(0.48-0)/1.22=39.34%	61.87	63.09	1.22	5.00	0.10	6	4	41928		54				1.2	60	-1	48	5.7	668	1	14	279	-5	137		5
1.75/1.91=91.62%	(1.75-0.84)/1.91=47.64%	63.09	65.00	1.91	5.00	Tr	6	3	41929		50				0.9	51	-1	95	6.06	970	2	12	58	-5	159		5
2/2=100%	(2-1.05)/2=42.5%	65.00	67.00	2.00	5.00	Tr	4	3	41930		25				0.6	49	2	209	5.86	985	2	11	148	-5	346		25
2/2=100%	(2-1)/2=50%	67.00	69.00	2.00	2.50	0.10	4	3	41931		12				0.8	56	12	91	5.53	1059	1	12	631	-5	1316		60
2/2=100%	(2-1.27)/2=36.5%	69.00	71.00	2.00	5.00	0.30	5	2	41932	GN	22				0.9	31	5	43	4.64	1106	1	11	250	-5	525		30
1.28/1.3=98.46%	(1.28-0.75)/1.3=40.77%	71.00	72.30	1.30	5.00	0.00	6	2	41933		32				0.8	33	2	38	5.17	902	2	9	211	-5	262		55
1.76/2.98=59.06%	(1.76-0.34)/2.98=47.65%	72.30	75.28	2.98	10.00	0.10	7	8	41934	SP	190	0.34			5.2	51	30	83	6.57	314	2	12	1537	9	3467		240
1.35/1.42=95.07%	(1.35-0.15)/1.42=84.51%	75.28	76.70	1.42	5.00	0.30	7	8	41935	SP	172	0.27			3.3	35	62	170	5.54	357	3	14	321	14	7235		490
1.29/1.3=99.23%	(1.29-0.59)/1.3=53.85%	76.70	78.00	1.30	2.50	Tr	6	3	41936		187	0.31			2.9	33	26	89	4.29	926	1	9	20	-5	3078		270
1.98/2=99%	(1.98-1.52)/2=23%	78.00	80.00	2.00	2.50	0.10	5	2	41937		73				1.1	34	10	81	4.02	993	2	8	77	-5	1150		80
1.94/2=97%	(1.94-1.43)/2=25.5%	80.00	82.00	2.00	5.00	0.00	5	2	41938		146				2.1	40	17	67	5.37	1194	1	10	181	5	2015		130
1.94/2=97%	(1.94-1.09)/2=42.5%	82.00	84.00	2.00	5.00	0.10	5	3	41939	SP, GN	2486	3.91			31	45	61	265	4.81	1125	1	11	104	15	7489		510
1.66/1.66=100%	(1.66-1)/1.66=39.76%	84.00	85.66	1.66	5.00	0.10	6	2	41940	SP	541	0.93			8	45	10	263	7.17	740	6	11	19	-5	1283		95
1.54/1.81=85.08%	(1.54-0.25)/1.81=71.27%	85.66	87.47	1.81	2.50	5.00	7	5	41941	SP	4922	4.9		37.7	50	45	65	259	4.31	1402	-1	9	209	16	7897		850
1.63/1.95=83.59%	(1.63-0.36)/1.95=65.13%	87.47	89.42	1.95	5.00	5.00	8	9	41942		9311	12.6		60.3	50	37	4	56	4.53	1416	2	10	4	-5	575		185
1.56/1.58=98.75%	(1.56-1.21)/1.58=22.15%	89.42	91.00	1.58	5.00	0.10	5	2	41943		444	0.65			3	71	25	180	6.73	1489	2	10	12	-5	3106		170
2/2=100%	(2-1.37)/2=31.5%	91.00	93.00	2.00	5.00	0.10	5	3	41944		274	0.45			1.4	44	17	134	5.67	1224	1	11	3	-5	2115		80
1.99/2=99.5%	(1.99-1.24)/2=32.5%	93.00	95.00	2.00	5.00	0.30	5	3	41945		204	0.45			1.3	51	9	69	5.27	1342	2	11	11	-5	1258		50
1.94/2=97%	(1.94-1.57)/2=18.5%	95.00	97.00	2.00	5.00	0.30	5	2	41946		348	0.55			2.7	49	50	249	5.62	1267	2	14	44	12	5943		325
1.94/2=97%	(1.94-1.42)/2=26%	97.00	99.00	2.00	5.00	0.30	5	2	41947		178	0.27			1.5	37	1	32	5.63	1150	2	17	15	-5	240		10
1.99/2=99.5%	(1.99-1.52)/2=23.5%	99.00	101.00	2.00	5.00	1.00	5	2	41948		151	0.24			1.6	37	2	16	5.3	1038	2	12	14	-5	314		20
1.97/2=98.5%	(1.97-0.95)/2=51%	101.00	103.00	2.00	5.00	0.30	5	3	41949	SP	154	0.24			2.2	63	64	126	6.3	1118	2	11	135	19	7368		260
1.48/1.48=100%	(1.48-1.22)/1.48=17.57%	103.00	104.48	1.48	5.00	Tr	6	2	41950		130				1.2	42	7	22	5.26	1259	3	10	58	7	1032		70
0.34/0.34=100%	(0.34-0)/0.34=100%	104.48	104.82	0.34	2.50	10.00	6	5	41951	SP	4281	6.58			42.3	73	658	774	6.04	2314	-1	24	354	159	20000	9.4	3700
1.33/1.45=91.72%	(1.33-0.73)/1.45=41.38%	104.82	106.27	1.45	5.00	2.50	6	4	41952	SP	190	0.31			2	55	21	37	5.3	1715	1	12	53	11	2480		120
2.02/2.05=98.54%	(2.02-1.47)/2.05=26.83%	106.27	108.32	2.05	5.00	0.10	6	4	41953		804	1.2			8.5	52	2	17	6.3	1035	3	13	69	6	341		40

RECOVERY	R.Q.D.	FROM	TO	WIDTH (a)	PY%	VN%	A	F	NUMBER	ppb Au	GMT Au	GMT/FA Ag	GMT/AA Ag	ppm Ag	ppm As	ppm Cd	ppm Cu	pct Fe	ppm Mn	ppm Mo	ppm Ni	ppm Pb	ppm Sb	ppm Zn	pct Zn	ppb Hg
0.34/0.34=100%	(0.34-0)/0.34=100%	108.32	108.66	0.34	10.00	10.00	8	7	41954 SP,	CP10000	78.5	2058.9		50	295	734	9004	10	1914	9	12	2212	197	20000	9.95	5000
1.33/1.76=75.57%	(1.33-0.49)/1.76=47.73%	108.66	110.42	1.76	2.50	5.00	7	6	41955 SP	7944	11.4		198.9	50	84	28	367	4.62	1486	2	11	152	11	3632		390
1.97/1.98=99.49%	(1.97-0.64)/1.98=67.17%	110.42	112.40	1.98	1.00	0.30	4	4	41956	238	0.38			1.4	65	2	216	1.92	1584	-1	7	18	7	264		210
1.29/1.67=77.25%	(1.29-0)/1.67=77.25%	112.40	114.07	1.67	2.50	Tr	8	10	41957 SP	277	0.58			4.4	111	16	85	4.54	588	3	10	386	10	2150		170
1.28/1.55=82.58%	(1.28-0.2)/1.55=69.68%	114.07	115.62	1.55	2.50	1.00	7	8	41958	238	0.41			1.3	172	10	150	6.48	1574	2	13	54	9	1357		80
2.26/2.33=97%	(2.26-1.19)/2.33=45.92%	115.62	117.95	2.33	2.50	1.00	5	3	41959	143				0.9	127	18	112	5.57	1883	2	11	43	13	2461		150
0.95/0.95=100%	(0.95-0.43)/0.95=54.74%	117.95	118.87	0.92	2.50	1.00	5	4	41960 SP	221	0.41			1.6	119	105	138	4.74	1764	1	12	230	34	12362		530
1.12/1.13=99.16%	(1.12-0.39)/1.13=64.6%	118.87	120.00	1.13	2.50	0.30	4	3	41961	326	0.51			3	221	12	305	5.32	1673	1	14	803	9	1764		110
1.65/1.62=101.85%	(1.65-0.61)/1.62=64.2%	120.00	121.62	1.62	2.50	0.10	4	3	41962	238	0.34			2.3	202	12	311	5.15	1702	1	18	590	11	1748		110

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Geochemical Lab Report

REPORT: V89-05374.0

DATE PRINTED: 31-AUG-89
PROJECT: 89BC019 PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM
R2 89HANK5124			980	>50.0	338	<1	71	3.60	31	1	3	80
R2 89HANK5125			224	>50.0	52	<1	15	0.46	16	<1	2	399
R2 89HANK5126			89	37.2	62	4	62	1.95	161	<1	3	520
R2 89HANK5127			2417	14.8	838	<1	29	1.61	1239	<1	4	129
R2 89HANK5128			2422	21.5	>2000	<1	31	1.33	550	<1	5	81
R2 89HANK5129			4851	45.0	>2000	<1	82	1.65	817	1	4	158
R2 89HANK5130			685	5.0	158	14	90	1.33	77	1	3	1254
R2 89HANK5131			22	0.7	67	<1	4	2.76	271	1	2	14
R2 89HANK5132			24	0.4	51	<1	10	4.33	1580	1	2	<2
R2 89HANK5133			7	0.3	19	1	11	4.50	1684	2	1	<2
R2 89HANK5134			1414	>50.0	123	95	3323	3.24	9155	2	1	8166
R2 89HANK5150			223	7.3	23	17	42	0.89	65	<1	3	262
R2 89HANK5151			588	2.7	120	16	35	3.51	328	1	5	172
R2 89HANK5152			635	10.4	55	143	184	1.79	137	<1	4	503
R2 89HANK5153			2154	29.3	216	31	1021	4.80	287	2	5	>10000
R2 89HANK5154			2000	13.5	70	237	11647	4.91	2354	<1	5	5523
R2 89HANK5155			795	>50.0	57	790	1359	3.49	1856	<1	3	>10000
R2 89HANK5156			463	36.4	54	9	6249	2.72	510	49	2	>10000
D2 41201		193										
D2 41202		204										
D2 41203		273										
D2 41204		67										
D2 41205		143										
D2 41206		37										
D2 41207		96										
D2 41208		169										
D2 41209		55										
D2 41210		89										
D2 41211		106										
D2 41212		579										
D2 41213		308										
D2 41214		282										
D2 41215		1509										
D2 41216		173										
D2 41217		908										
D2 41218		340										
D2 41219		127										
D2 41220		286										
D2 41221		799										
D2 41222		38										

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Geochemical Lab Report

REPORT: V89-05374.0

DATE PRINTED: 31-AUG-89
PROJECT: 89BC019 PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Sb PPM	Zn PPM	Hg PPB
R2 89HANK5124		204	32	2600
R2 89HANK5125		37	22	750
R2 89HANK5126		31	662	370
R2 89HANK5127		16	59	120
R2 89HANK5128		54	147	150
R2 89HANK5129		123	54	650
R2 89HANK5130		8	2065	220
R2 89HANK5131		<5	44	115
R2 89HANK5132		<5	96	60
R2 89HANK5133		<5	98	70
R2 89HANK5134		140	9299	2800
R2 89HANK5150		18	2322	115
R2 89HANK5151		8	2190	190
R2 89HANK5152		60	18198	1350
R2 89HANK5153		22	3583	300
R2 89HANK5154		<5	>20000	700
R2 89HANK5155		163	>20000	2050
R2 89HANK5156		7	913	190
D2 41201				
D2 41202				
D2 41203				
D2 41204				
D2 41205				
D2 41206				
D2 41207				
D2 41208				
D2 41209				
D2 41210				
D2 41211				
D2 41212				
D2 41213				
D2 41214				
D2 41215				
D2 41216				
D2 41217				
D2 41218				
D2 41219				
D2 41220				
D2 41221				
D2 41222				

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Geochemical Lab Report

REPORT: V89-05374.0

DATE PRINTED: 31-AUG-89
PROJECT: 89BC019 PAGE 2A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM
D2 41223		80										
D2 41224		61										
D2 41225		1456										
D2 41226		375										
D2 41227		261										
D2 41228		43										
D2 41229		136										
D2 41230		95										
D2 41231		181										
D2 41232		617										
D2 41233		40										
D2 41234		13										
D2 41235		<5										
D2 41236		12										
D2 41237		<5										
D2 41238		<5										
D2 41239		<5										
D2 41240		<5										
D2 41241		<5										
D2 41242		<5										
D2 41243		179										
D2 41244		<5										
D2 101001		23										
D2 101002		29										
D2 101003		110										
D2 101004		39										
D2 101005		200										
D2 101006		32										
D2 101007		35										
D2 101008		35										
D2 101009		36										
D2 101010		170										
D2 101011		248										
D2 101012		1018										
D2 101013		117										
D2 101014		260										
D2 101015		159										
D2 101016		32										
D2 101017		140										
D2 101018		19										

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REPORT: V89-05374.0

DATE PRINTED: 31-AUG-89
PROJECT: 89BC019 PAGE 2B

SAMPLE NUMBER	ELEMENT UNITS	Sb PPM	Zn PPM	Hg PPB
D2 41223				
D2 41224				
D2 41225				
D2 41226				
D2 41227				
D2 41228				
D2 41229				
D2 41230				
D2 41231				
D2 41232				
D2 41233				
D2 41234				
D2 41235				
D2 41236				
D2 41237				
D2 41238				
D2 41239				
D2 41240				
D2 41241				
D2 41242				
D2 41243				
D2 41244				
D2 101001				
D2 101002				
D2 101003				
D2 101004				
D2 101005				
D2 101006				
D2 101007				
D2 101008				
D2 101009				
D2 101010				
D2 101011				
D2 101012				
D2 101013				
D2 101014				
D2 101015				
D2 101016				
D2 101017				
D2 101018				

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Geochemical Lab Report

REPORT: V89-05374.0

DATE PRINTED: 31-AUG-89
PROJECT: 89BC019 PAGE 3A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM
D2 101019		90										
D2 101020		130										
D2 101021		189										
D2 101022		52										
D2 101023		214										
D2 101024		262										
D2 101025		103										
D2 101026		315										
D2 101027		525										
D2 101028		66										
D2 101029		4990										
D2 101030		202										
D2 101031		2871										
D2 101032		53										
D2 101033		86										
D2 101034		120										
D2 101035		138										
D2 101036		145										
D2 101037		884										
D2 101038		255										
D2 101039		43										
D2 101040		139										
D2 101041		154										
D2 101042		>10000										
D2 101043		124										
D2 101044		183										
D2 101045		281										
D2 101046		180										
D2 101047		2822										
D2 101048		311										
D2 101049		1474										
D2 101050		388										
D2 101051		94										
D2 101052		65										
D2 101053		272										

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Geochemical Lab Report

REPORT: V89-05374.0

DATE PRINTED: 31-AUG-89
PROJECT: 89BC019 PAGE 3B

SAMPLE NUMBER	ELEMENT UNITS	Sb PPM	Zn PPM	Hg PPB
D2 101019				
D2 101020				
D2 101021				
D2 101022				
D2 101023				
D2 101024				
D2 101025				
D2 101026				
D2 101027				
D2 101028				
D2 101029				
D2 101030				
D2 101031				
D2 101032				
D2 101033				
D2 101034				
D2 101035				
D2 101036				
D2 101037				
D2 101038				
D2 101039				
D2 101040				
D2 101041				
D2 101042				
D2 101043				
D2 101044				
D2 101045				
D2 101046				
D2 101047				
D2 101048				
D2 101049				
D2 101050				
D2 101051				
D2 101052				
D2 101053				

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Geochemical Lab Report

REPORT: V89-06026.0

DATE PRINTED: 7-SEP-89

PROJECT: 89BC019 PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
D2 41245		67	1.1	45	<1	308	4.89	784	2	17	78	11
D2 41246		52	2.8	69	2	149	5.91	325	4	21	197	14
D2 41247		40	1.7	34	1	126	2.30	60	3	22	127	14
D2 41248		93	2.1	34	4	89	3.30	166	2	24	273	14
D2 41249		93	2.9	112	4	196	5.12	397	2	33	384	15
D2 41250		61	1.5	136	6	171	5.83	789	2	24	483	19
D2 41251		30	1.0	85	<1	90	3.62	1097	<1	23	127	15
D2 41252		22	1.2	92	6	57	5.00	1073	2	29	599	16
D2 41253		73	2.3	100	3	139	5.59	687	2	24	387	14
D2 41254		231	2.6	90	3	85	5.07	314	3	18	274	15
D2 41255		109	1.6	97	<1	37	6.01	420	3	7	38	13
D2 41256		204	1.5	115	<1	49	6.39	250	4	13	57	11
D2 41257		697	3.9	93	9	402	7.16	608	2	7	472	17
D2 41258		359	1.4	86	<1	23	7.23	623	3	12	47	14
D2 41259		51	0.5	79	<1	117	7.39	682	2	17	32	13
D2 41260		90	1.2	134	<1	112	7.31	866	3	24	115	14
D2 41261		167	1.9	120	1	64	7.71	812	2	29	167	16
D2 41262		127	1.5	111	5	243	6.68	707	2	32	156	18
D2 41263		214	3.6	69	3	170	4.80	1085	2	25	325	18
D2 41264		50	0.9	73	<1	173	6.27	723	2	12	35	14
D2 41265		28	0.4	49	<1	159	4.66	946	<1	9	30	14
D2 41266		437	1.5	105	1	23	7.18	395	4	11	100	16
D2 41267		512	3.2	129	3	59	6.05	343	5	14	265	16
D2 41268		189	0.8	89	<1	25	6.17	693	3	13	299	17
D2 41269		455	1.5	121	<1	64	5.13	637	3	11	50	16
D2 41270		874	2.3	181	<1	107	6.50	449	3	15	71	18
D2 41271		146	1.1	74	<1	61	6.18	688	2	9	30	16
D2 41272		124	0.9	113	<1	45	5.29	596	2	9	28	18
D2 41273		334	3.5	145	<1	114	6.19	688	2	10	61	15
D2 41274		449	4.7	82	12	191	5.72	949	2	17	592	18
D2 41275		37	1.9	61	<1	175	6.03	1126	2	31	52	13
D2 41276		21	0.7	61	<1	11	5.94	596	2	20	40	13
D2 41277		27	0.5	36	<1	6	4.53	278	2	11	37	13
D2 41278		80	0.5	55	<1	15	6.06	367	2	14	52	12
D2 41279		334	0.6	57	<1	18	7.31	487	2	10	420	12
D2 41280		48	0.5	48	<1	22	6.70	480	3	10	44	15
D2 41281		19	0.4	24	<1	12	6.46	710	2	10	15	<5
D2 41282		59	0.7	33	<1	43	4.67	651	2	11	17	<5
D2 41283		236	3.3	40	3	62	5.50	603	3	10	263	<5
D2 41284		2172	2.9	37	6	87	3.50	592	2	8	3287	7

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Geochemical Lab Report

DATE PRINTED: 7-SEP-89

REPORT: V89-06026.0 | PROJECT: 89BC019 | PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
D2 41245		147	70
D2 41246		271	65
D2 41247		149	55
D2 41248		518	105
D2 41249		446	110
D2 41250		767	210
D2 41251		120	65
D2 41252		900	170
D2 41253		389	90
D2 41254		316	85
D2 41255		29	55
D2 41256		53	35
D2 41257		1148	120
D2 41258		52	35
D2 41259		45	30
D2 41260		163	40
D2 41261		178	70
D2 41262		601	105
D2 41263		379	130
D2 41264		52	50
D2 41265		61	50
D2 41266		162	45
D2 41267		422	65
D2 41268		61	20
D2 41269		72	35
D2 41270		58	35
D2 41271		41	25
D2 41272		36	25
D2 41273		76	30
D2 41274		1609	225
D2 41275		70	70
D2 41276		28	20
D2 41277		7	25
D2 41278		18	15
D2 41279		15	15
D2 41280		23	20
D2 41281		25	25
D2 41282		44	40
D2 41283		417	65
D2 41284		775	110

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 7-SEP-89

REPORT: V89-06026.0 | PROJECT: 89BC019 | PAGE 2A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
D2 41285		433	2.6	47	5	40	5.41	842	2	9	241	<5
D2 41286		54	2.1	68	1	90	6.42	1166	2	10	155	<5
D2 41287		296	11.6	139	94	339	8.12	1122	2	12	1200	23
D2 41288		324	2.5	80	2	33	6.32	928	2	11	164	<5
D2 41289		355	9.5	90	51	207	4.45	677	3	12	2807	14
D2 41290		301	13.5	47	9	188	5.76	894	2	9	483	5
D2 41291		1377	32.6	91	11	167	6.00	777	2	9	261	8
D2 41292		1514	21.8	94	37	375	3.45	1270	2	6	1126	15
D2 41293		1541	46.1	134	7	435	5.10	861	4	10	982	9
D2 41294		81	0.4	79	<1	161	5.39	1766	2	9	24	<5
D2 41295		437	7.3	79	9	178	5.73	1390	3	9	506	9
D2 41296		80	1.9	64	<1	30	6.48	1192	2	11	66	<5
D2 41297		1500	48.5	91	15	272	6.95	1792	2	7	710	11
D2 41298		1245	29.8	115	10	263	8.36	263	3	11	315	7
D2 41299		1046	17.0	105	49	266	3.29	304	4	7	1105	19
D2 41300		3306	>50.0	104	26	278	6.56	633	5	8	1388	13
D2 41301		148	1.8	64	<1	106	5.46	198	4	11	62	<5
D2 41302		236	4.2	84	2	113	3.47	399	4	7	126	<5
D2 41303		401	4.1	46	2	98	2.80	333	6	10	166	<5
D2 41304		508	14.7	89	6	281	7.35	845	3	13	422	6
D2 41305		562	11.2	120	5	306	5.74	522	3	12	298	5
D2 41306		391	1.7	232	<1	133	5.54	797	3	28	23	6
D2 41307		40	2.0	70	<1	142	2.43	456	3	15	16	8
D2 41308		178	2.1	64	<1	146	4.80	657	3	18	15	<5
D2 41309		1633	9.6	642	8	111	6.22	293	14	27	431	19
D2 41310		32	0.6	63	<1	152	5.79	791	1	29	14	11
D2 41311		8	0.2	39	<1	92	6.62	1542	2	29	4	8
D2 41312		5	0.2	40	<1	94	6.38	1358	2	37	9	7
D2 41313		7	0.3	38	<1	103	7.16	1418	2	36	6	9
D2 41314		10	0.7	77	<1	147	8.22	1510	2	39	12	12
D2 41315		53										
D2 41316		59										
D2 41317		41										
D2 41318		12										
D2 41319		65										
D2 41320		428										
D2 41321		2521										
D2 41322		107										
D2 41323		172										
D2 41324		436										

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Geochemical Lab Report

DATE PRINTED: 7-SEP-89

REPORT: V89-06026.0

PROJECT: 898C019 PAGE 2B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
D2 41285		630	120
D2 41286		230	65
D2 41287		11270	950
D2 41288		258	55
D2 41289		6159	650
D2 41290		1119	180
D2 41291		1332	245
D2 41292		4449	550
D2 41293		872	440
D2 41294		133	45
D2 41295		1161	205
D2 41296		102	40
D2 41297		1724	300
D2 41298		1296	160
D2 41299		6106	600
D2 41300		3213	400
D2 41301		107	95
D2 41302		312	75
D2 41303		271	110
D2 41304		776	505
D2 41305		626	310
D2 41306		99	110
D2 41307		59	90
D2 41308		56	60
D2 41309		927	310
D2 41310		72	170
D2 41311		74	290
D2 41312		76	140
D2 41313		80	80
D2 41314		111	495
D2 41315			
D2 41316			
D2 41317			
D2 41318			
D2 41319			
D2 41320			
D2 41321			
D2 41322			
D2 41323			
D2 41324			

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Geochemical Lab Report

DATE PRINTED: 7-SEP-89

REPORT: V89-06026.0 | PROJECT: 89BC019 | PAGE 3A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
D2 41325		80										
D2 41326		62										
D2 41327		26										
D2 41328		89										
D2 41329		221										
D2 41330		174										
D2 41331		1870										
D2 41332		161										
D2 41333		172										
D2 41334		180										
D2 41335		96										
D2 41336		120										
D2 41337		51										
D2 41338		55										
D2 41339		>10000										
D2 41340		142										
D2 41341		245										
D2 41342		153										
D2 41343		102										
D2 41344		337										
D2 41345		1163										
D2 41346		5393										
D2 41347		990										
D2 41348		>10000										
D2 41349		1550										
D2 41350		127										
D2 41351		106										
D2 41352		1233										
D2 41353		122										
D2 41354		38										
D2 41355		103										
D2 41356		3448										
D2 41357		173										
D2 41358		79										
D2 41359		159										
D2 41360		73										
D2 41361		46										
D2 41362		37										
D2 41363		33										
D2 41364		469										

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Geochemical Lab Report

DATE PRINTED: 7-SEP-89

REPORT: V89-06026.0

PROJECT: 89BC019 PAGE 3B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
D2 41325			
D2 41326			
D2 41327			
D2 41328			
D2 41329			
D2 41330			
D2 41331			
D2 41332			
D2 41333			
D2 41334			
D2 41335			
D2 41336			
D2 41337			
D2 41338			
D2 41339			
D2 41340			
D2 41341			
D2 41342			
D2 41343			
D2 41344			
D2 41345			
D2 41346			
D2 41347			
D2 41348			
D2 41349			
D2 41350			
D2 41351			
D2 41352			
D2 41353			
D2 41354			
D2 41355			
D2 41356			
D2 41357			
D2 41358			
D2 41359			
D2 41360			
D2 41361			
D2 41362			
D2 41363			
D2 41364			

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Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 7-SEP-89

REPORT: V89-06026.0

PROJECT: 89BC019 PAGE 4A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
D2 41365		75										
D2 41366		84										
D2 41367		30										
D2 41368		16										
D2 41369		78										
D2 41370		22										
D2 41371		14										
D2 41372		17										
D2 41373		30										
D2 41374		265										
D2 41375		534										

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: V89-06026.0

DATE PRINTED: 7-SEP-89

PROJECT: 89BC019 PAGE 4B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
D2 41365			
D2 41366			
D2 41367			
D2 41368			
D2 41369			
D2 41370			
D2 41371			
D2 41372			
D2 41373			
D2 41374			
D2 41375			

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DATE PRINTED: 12-SEP-89

REPORT: V89-06026.6 | PROJECT: 89BC019 | PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT	SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT
D2 41254		0.31		D2 41329		0.27	
D2 41256		0.24		D2 41330		0.17	
D2 41257		0.96		D2 41331		2.02	
D2 41258		0.45		D2 41332		0.24	
D2 41261		0.10		D2 41333		0.17	
D2 41263		0.24		D2 41334		0.17	
D2 41266		0.55		D2 41339		64.46#	
D2 41267		0.62		D2 41341		0.31	
D2 41268		0.24		D2 41342		0.14	
D2 41269		0.51		D2 41344		0.48	
D2 41270		1.03		D2 41345		1.23	
D2 41273		0.38		D2 41346		6.48	
D2 41274		0.41		D2 41347		1.10	
D2 41279		0.21		D2 41348		19.61	
D2 41283		0.31		D2 41349		1.85	
D2 41284		3.12#		D2 41352		1.30	
D2 41285		0.62		D2 41356		3.53	
D2 41287		0.34		D2 41357		0.21	
D2 41288		0.21		D2 41359		0.14	
D2 41289		0.48		D2 41364		0.48	
D2 41290		0.38		D2 41374		0.27	
D2 41291		2.16		D2 41375		0.48	
D2 41292		1.68					
D2 41293		1.89					
D2 41295		0.51					
D2 41297		1.65					
D2 41298		1.41					
D2 41299		1.13					
D2 41300		3.50	42.9				
D2 41302		0.27					
D2 41303		0.48					
D2 41304		0.58					
D2 41305		0.65					
D2 41306		0.38					
D2 41308		0.17					
D2 41309		1.58					
D2 41320		0.55					
D2 41321		2.78					
D2 41323		0.17					
D2 41324		0.51					

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Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 16-SEP-89

REPORT: V89-06051.0 | PROJECT: 89BC019 | PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
D2 41376		12	0.4	58	<1	121	5.47	1060	3	17	<2	<5
D2 41377		20	0.7	84	<1	132	6.30	956	3	20	41	<5
D2 41378		70	1.7	81	2	123	5.33	945	3	18	176	<5
D2 41379		95	2.7	87	3	263	5.95	583	3	22	225	<5
D2 41380		1398	25.9	77	14	83	5.28	777	3	20	2001	10
D2 41381		36	0.5	29	<1	10	5.40	1060	1	11	19	<5
D2 41382		31	0.5	33	<1	36	5.55	1025	2	7	70	<5
D2 41383		47	0.5	41	<1	98	5.36	986	2	10	36	<5
D2 41384		33	1.1	34	<1	68	5.28	783	2	9	7	<5
D2 41385		79	1.5	55	<1	121	4.49	1381	1	9	42	<5
D2 41386		65	1.0	57	<1	124	5.07	1343	2	10	55	<5
D2 41387		152	2.6	81	4	146	5.75	1187	1	10	264	<5
D2 41388		837	20.5	123	109	866	4.68	808	1	10	8642	23
D2 41389		252	2.2	41	3	51	3.58	1060	1	7	776	<5
D2 41390		359	3.9	89	11	106	4.47	934	2	5	864	<5
D2 41391		5657	>50.0	63	88	323	4.36	2759	1	8	3174	15
D2 41392		304	2.0	68	<1	16	5.92	855	2	12	40	<5
D2 41393		193	1.5	86	<1	17	6.35	928	2	16	34	<5
D2 41394		58	0.8	34	<1	40	5.66	1093	3	28	19	<5
D2 41395		2627	42.5	87	152	1526	4.33	3174	2	8	>10000	89
D2 41396		2496	6.3	96	3	114	3.48	4955	1	5	343	<5
D2 41397		1548	24.1	102	161	668	4.28	5915	<1	8	9101	35
D2 41398		507	19.6	119	7	92	6.88	1835	3	34	4052	<5
D2 41399		107	1.7	68	<1	22	7.09	1525	2	33	107	<5
D2 41400		401	1.3	50	<1	74	6.33	1073	3	31	75	<5
D2 41401		388	7.2	89	40	258	5.87	1467	2	28	2446	5
D2 41402		91	0.7	99	<1	144	6.49	1674	1	30	12	<5
D2 41403		39	1.3	74	<1	227	7.20	1381	4	35	<2	<5
D2 41404		78	0.6	40	<1	123	7.01	1088	3	27	<2	<5
D2 41405		147	0.3	47	<1	12	4.91	842	3	20	<2	<5
D2 41406		29	<0.2	15	<1	10	6.01	925	2	14	<2	<5
D2 41407		58	0.2	44	<1	58	8.77	841	2	13	<2	<5
D2 41408		41	0.3	15	<1	29	6.32	960	2	9	25	<5
D2 41409		53	2.0	19	2	32	6.61	757	2	11	144	<5
D2 41410		1115	>50.0	101	265	4119	6.92	748	6	5	>10000	66
D2 41411		49	1.6	20	1	20	7.33	688	3	10	75	<5
D2 41412		434	1.6	34	<1	24	7.71	678	5	9	47	<5
D2 41413		135	1.3	26	<1	11	6.18	728	3	10	73	<5
D2 41414		43	1.1	18	3	19	7.48	782	4	10	145	<5
D2 41415		36	0.5	13	2	21	7.61	777	3	9	143	<5

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Geochemical Lab Report

DATE PRINTED: 16-SEP-89

REPORT: V89-06051.0

PROJECT: 89BC019 PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
D2 41376		33	45
D2 41377		104	50
D2 41378		315	90
D2 41379		413	95
D2 41380		1573	200
D2 41381		63	40
D2 41382		168	50
D2 41383		100	55
D2 41384		80	40
D2 41385		187	75
D2 41386		175	55
D2 41387		555	110
D2 41388		12811	1900
D2 41389		429	70
D2 41390		1438	310
D2 41391		10019	2150
D2 41392		318	115
D2 41393		138	35
D2 41394		95	30
D2 41395		17858	1950
D2 41396		484	190
D2 41397		18664	2450
D2 41398		904	210
D2 41399		146	60
D2 41400		121	30
D2 41401		4761	270
D2 41402		82	40
D2 41403		66	105
D2 41404		37	35
D2 41405		45	25
D2 41406		38	20
D2 41407		51	30
D2 41408		68	35
D2 41409		218	30
D2 41410		>20000	750
D2 41411		165	20
D2 41412		133	25
D2 41413		49	30
D2 41414		344	40
D2 41415		233	45

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Geochemical Lab Report

DATE PRINTED: 16-SEP-89

REPORT: V89-06051.0 | PROJECT: 89BC019 | PAGE 2A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
D2 41416		34	0.5	20	<1	24	6.47	714	3	10	18	<5
D2 41417		130	0.7	40	<1	55	6.69	773	3	10	<2	<5
D2 41418		1304	1.3	33	2	15	4.62	477	3	9	82	<5
D2 41419		230	1.2	45	<1	22	6.10	774	4	11	10	<5
D2 41420		63	0.9	18	4	43	6.72	876	3	8	122	<5
D2 41421		41	0.9	29	<1	39	7.64	1021	4	10	143	<5
D2 41422		115	2.8	16	35	101	6.62	910	3	8	2000	<5
D2 41423		624	11.0	109	344	633	6.21	1514	5	8	>10000	95
D2 41424		138	2.2	60	9	83	6.69	1279	3	9	636	<5
D2 41425		103	2.1	72	1	32	6.66	1252	4	9	87	<5
D2 41426		52	1.9	17	2	25	6.45	784	4	9	142	<5
D2 41427		87	1.7	22	<1	20	6.40	645	3	9	21	<5
D2 41428		358	1.3	23	2	57	6.31	690	4	9	45	<5
D2 41429		64	1.3	31	<1	41	6.38	1413	3	8	<2	<5
D2 41430		282	2.0	17	3	336	5.82	1048	3	10	58	<5
D2 41431		162	3.7	58	2	52	7.79	1478	5	9	220	<5
D2 41432		447	8.0	100	20	151	5.75	965	3	12	767	<5
D2 41433		313	12.9	110	3	380	5.81	1011	3	9	270	<5
D2 41434		688	16.5	61	59	245	6.42	708	5	11	1018	17
D2 41435		2636	>50.0	107	418	4495	8.29	2256	5	14	1216	261
D2 41436		36	2.5	21	6	61	6.79	1656	3	10	52	<5
D2 41437		2875	27.9	53	40	92	8.75	1266	3	9	496	5
D2 41438		>10000	>50.0	144	195	1657	7.35	1651	7	7	2722	77
D2 41439		186	5.1	99	3	126	6.30	1042	3	8	271	<5
D2 41440		47	1.7	39	<1	94	6.07	1105	3	7	<2	<5
D2 41441		20	0.6	41	<1	48	7.39	924	3	9	6	<5
D2 41442		101	2.3	31	1	71	7.01	888	3	10	145	<5
D2 41443		33	0.8	44	<1	161	7.94	1085	3	10	8	<5
D2 41444		38	2.4	26	9	143	6.78	943	3	10	509	<5
D2 41445		77	6.9	25	34	104	7.66	1069	3	8	3864	<5
D2 41446		33	1.7	11	5	110	7.49	1123	4	8	425	<5
D2 41447		20	0.8	13	<1	150	8.66	1037	4	9	114	<5
D2 41448		27	0.6	30	<1	117	8.17	1019	4	7	75	<5
D2 41449		53	1.8	47	9	163	6.35	818	3	8	731	<5
D2 41450		214	4.8	77	12	301	6.80	723	4	10	678	<5
D2 41451		5831	>50.0	79	4	759	4.29	298	5	5	227	<5
D2 41452		450	5.0	26	5	63	1.89	310	4	7	116	<5
D2 41453		132	6.3	13	2	460	4.45	347	9	31	119	<5
D2 41454		122	2.5	64	<1	32	7.08	776	3	9	44	<5
D2 41455		268	1.8	58	<1	108	4.71	1131	3	7	21	<5

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Geochemical Lab Report

REPORT: V89-06051.0

DATE PRINTED: 16-SEP-89

PROJECT: 89BC019 PAGE 2B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
D2 41416		58	25
D2 41417		39	20
D2 41418		274	40
D2 41419		39	40
D2 41420		452	55
D2 41421		118	60
D2 41422		3982	425
D2 41423		>20000	2350
D2 41424		1085	160
D2 41425		163	55
D2 41426		265	50
D2 41427		51	30
D2 41428		251	30
D2 41429		61	30
D2 41430		394	150
D2 41431		285	90
D2 41432		2362	310
D2 41433		402	145
D2 41434		7402	1000
D2 41435		>20000	4300
D2 41436		815	100
D2 41437		5078	490
D2 41438		>20000	>5000
D2 41439		3900	240
D2 41440		83	130
D2 41441		70	50
D2 41442		213	475
D2 41443		95	700
D2 41444		1053	1300
D2 41445		3947	3200
D2 41446		634	580
D2 41447		114	470
D2 41448		109	545
D2 41449		1213	1100
D2 41450		1478	1900
D2 41451		4400	1300
D2 41452		732	150
D2 41453		206	155
D2 41454		107	180
D2 41455		93	155

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Geochemical Lab Report

REPORT: V89-06051.0

DATE PRINTED: 16-SEP-89

PROJECT: 898C019 PAGE 3A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
D2 41456		138	1.4	84	<1	37	5.54	888	3	9	25	<5
D2 41457		123	3.5	87	3	83	6.67	963	4	12	107	<5
D2 41458		114	2.3	17	2	27	7.28	1123	3	10	23	<5
D2 41459		1016	19.8	32	156	139	5.74	2213	2	<1	1611	30
D2 41460		145	2.5	29	5	30	6.38	926	2	7	21	<5
D2 41461		424	6.2	54	6	42	7.40	1189	3	10	35	<5
D2 41462		72	1.7	30	<1	33	7.26	896	3	10	30	<5
D2 41463		39	0.8	17	<1	25	6.27	930	3	8	<2	<5
D2 41464		187	2.5	58	<1	114	5.98	756	3	10	171	<5
D2 41465		353	1.8	50	1	70	3.26	533	3	6	107	<5
D2 41466		25	0.3	21	<1	101	7.28	819	3	9	5	<5
D2 41467		65	1.1	39	<1	62	6.41	1029	3	9	4	<5
D2 41468		71	1.5	67	3	118	7.26	727	4	10	159	<5
D2 41469		117	3.5	64	<1	184	6.94	728	5	11	23	<5
D2 41470		255	5.4	229	3	66	8.00	934	4	12	2910	<5
D2 41471		210	1.5	242	1	83	7.49	554	6	9	53	<5
D2 41472		518	2.2	357	2	63	8.93	466	10	11	68	7
D2 41473		547	1.4	68	<1	69	3.04	456	3	8	18	<5
D2 41474		127	2.6	39	<1	88	5.07	533	3	10	3	<5
D2 41475		37										
D2 41476		108										
D2 41477		40										
D2 41478		110										
D2 41479		100										
D2 41480		37										
D2 41481		174										
D2 41482		23										
D2 41483		29										
D2 41484		40										
D2 41485		49										
D2 41486		93										
D2 41487		196										
D2 41488		159										
D2 41489		303										
D2 41490		147										
D2 41491		69										
D2 41492		101										
D2 41493		30										
D2 41494		127										
D2 41495		19										

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: V89-06051.0

DATE PRINTED: 16-SEP-89

PROJECT: 89BC019 PAGE 3B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
D2 41456		116	225
D2 41457		424	290
D2 41458		289	65
D2 41459		17150	1550
D2 41460		693	175
D2 41461		687	150
D2 41462		167	80
D2 41463		53	70
D2 41464		91	50
D2 41465		183	30
D2 41466		47	160
D2 41467		50	90
D2 41468		507	275
D2 41469		91	240
D2 41470		423	165
D2 41471		98	100
D2 41472		129	210
D2 41473		68	75
D2 41474		141	185
D2 41475			
D2 41476			
D2 41477			
D2 41478			
D2 41479			
D2 41480			
D2 41481			
D2 41482			
D2 41483			
D2 41484			
D2 41485			
D2 41486			
D2 41487			
D2 41488			
D2 41489			
D2 41490			
D2 41491			
D2 41492			
D2 41493			
D2 41494			
D2 41495			

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 16-SEP-89

REPORT: V89-06051.0

PROJECT: 89BC019 PAGE 4A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
D2 41496		11										
D2 41497		26										
D2 41498		42										
D2 41499		1342										
D2 41500		431										
D2 41501		56										
D2 41502		28										
D2 41503		30										
D2 41504		31										
D2 41505		47										
D2 41506		29										
D2 41507		47										
D2 41508		103										
D2 41509		27										
D2 41510		53										
D2 41511		135										
D2 41512		104										
D2 41513		67										
D2 41514		65										
D2 41515		94										
D2 41516		19										
D2 41517		27										
D2 41518		16										
D2 41519		79										
D2 41520		7										
D2 41521		46										
D2 41522		2										
D2 41523		111										
D2 41524		272										
D2 41525		172										
D2 41526		48										
D2 41527		44										
D2 41528		95										
D2 41529		95										
D2 41530		159										
D2 41531		98										
D2 41532		265										
D2 41533		93										
D2 41534		80										
D2 41535		155										

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: V89-06051.0

DATE PRINTED: 16-SEP-89

PROJECT: 89BC019 PAGE 4B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
D2 41496			
D2 41497			
D2 41498			
D2 41499			
D2 41500			
D2 41501			
D2 41502			
D2 41503			
D2 41504			
D2 41505			
D2 41506			
D2 41507			
D2 41508			
D2 41509			
D2 41510			
D2 41511			
D2 41512			
D2 41513			
D2 41514			
D2 41515			
D2 41516			
D2 41517			
D2 41518			
D2 41519			
D2 41520			
D2 41521			
D2 41522			
D2 41523			
D2 41524			
D2 41525			
D2 41526			
D2 41527			
D2 41528			
D2 41529			
D2 41530			
D2 41531			
D2 41532			
D2 41533			
D2 41534			
D2 41535			

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Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 16-SEP-89

REPORT: V89-00051.0

PROJECT: 89BC019 PAGE 5A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
D2 41536		81										
D2 41537		311										
D2 41538		2516										
D2 41539		759										
D2 41540		72										
D2 41541		113										
D2 41542		182										
D2 41543		100										
D2 41544		148										
D2 41545		97										
D2 41546		1035										
D2 41547		>10000										

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Geochemical Lab Report

DATE PRINTED: 16-SEP-89

REPORT: V89-00051.0

PROJECT: 898C019 PAGE 5B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
D2 41536			
D2 41537			
D2 41538			
D2 41539			
D2 41540			
D2 41541			
D2 41542			
D2 41543			
D2 41544			
D2 41545			
D2 41546			
D2 41547			

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Certificate of Analysis

REPORT: V89-06051.6

DATE PRINTED: 22-SEP-89
PROJECT: 89BC019 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT	Pb PCT	Zn PCT	SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT	Pb PCT	Zn PCT
D2 41380		1.92				D2 41473		0.69			
D2 41387		0.17				D2 41481		0.24			
41388		0.82				D2 41487		0.24			
D2 41389		0.41				D2 41488		0.21			
D2 41390		0.41				D2 41489		0.34			
41391		5.11#	114.9			D2 41499		1.27			
D2 41392		0.45				D2 41500		0.62			
41393		0.21				D2 41524		0.31			
41395		2.43		1.31		D2 41525		0.21			
D2 41396		2.88				D2 41530		0.17			
41397		1.68				D2 41532		0.17			
D2 41398		0.58				D2 41535		0.21			
D2 41400		0.41				D2 41537		0.34			
41401		0.38				D2 41538		3.46			
41410		1.06	52.5	1.54	2.92	D2 41539		0.96			
41412		0.58				D2 41542		0.24			
41418		1.71				D2 41546		1.17			
D2 41419		0.27				D2 41547		12.75			
41423		0.75		1.55	3.80						
41428		0.45									
D2 41430		0.31									
41431		0.17									
41432		0.51									
D2 41433		0.34									
41434		0.72									
D2 41435		2.98	161.5		4.84						
41437		3.57									
41438		17.59	456.7		2.31						
D2 41439		0.31									
D2 41450		0.21									
41451		5.86	93.9								
D2 41452		0.55									
41455		0.34									
41459		1.13									
D2 41461		0.48									
41464		0.24									
D2 41465		0.31									
D2 41470		0.31									
41471		0.24									
D2 41472		0.58									

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Geochemical Lab Report

REPORT: V89-06097.0

DATE PRINTED: 24-SEP-89

PROJECT: 89BC019 PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
R2 89HANK-5135		42	<0.2	36	<1	1	0.84	20	2	<1	26	7
R2 89HANK-5136		19	<0.2	<5	<1	16	5.83	4313	6	<1	12	10
R2 89HANK-5137		121	0.6	<5	<1	9	1.33	43	2	4	23	17
R2 89HANK-5138		13	<0.2	298	2	6	>10.00	32	27	<1	<2	<5
R2 89HANK-5139		399	0.5	15	<1	21	5.70	24	213	<1	41	17
R2 89HANK-5157		193	1.2	121	<1	3	2.23	9593	2	<1	10	28
R2 89HANK-5158		60	1.0	7	<1	11	6.74	1208	2	7	91	9
R2 89HANK-5159		894	14.2	17	14	224	4.79	2340	1	10	1865	20
R2 89HANK-5160		102	2.2	18	13	95	3.31	1536	1	14	627	10
R2 89HANK-5161		1628	>50.0	31	25	337	4.44	1811	2	14	2131	15
R2 89HANK-5162		137	3.2	23	10	68	2.50	972	1	19	226	10
R2 89HANK-5163		791	11.1	31	<1	2100	5.89	1001	1	6	164	8
R2 89HANK-5164		79	1.1	<5	<1	54	3.93	848	1	10	28	<5
R2 89HANK-5165		68	0.3	27	<1	13	4.96	920	1	6	2	<5
R2 89HANK-5166		125	1.1	71	<1	25	7.44	710	2	8	9	6
R2 89HANK-5167		25	0.2	<5	<1	96	6.84	854	2	10	<2	<5
R2 89HANK-5168		16	<0.2	<5	<1	321	5.29	1275	1	7	<2	5
R2 89HANK-5169		40	0.3	7	<1	47	6.44	1223	1	29	4	5
R2 89HANK-5170		40	0.6	79	<1	79	7.60	1151	2	51	8	<5
D2 41548		1272										
D2 41549		65										
D2 41550		132										
D2 41551		42										
D2 41552		41										
D2 41553		48										
D2 41554		201										
D2 41555		48										
D2 41556		74										
D2 41557		33										
D2 41558		773										
D2 41559		290										
D2 41560		87										
D2 41561		133										
D2 41562		27										
D2 41563		289										
D2 41564		40										
D2 41565		58										
D2 41566		174										
D2 41567		623										
D2 41568		124										

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Geochemical Lab Report

REPORT: V89-06097.0

DATE PRINTED: 24-SEP-89

PROJECT: 89BC019 PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
R2 89HANK-5135		7	180
R2 89HANK-5136		210	90
R2 89HANK-5137		16	1600
R2 89HANK-5138		<1	70
R2 89HANK-5139		56	190
R2 89HANK-5157		5	590
R2 89HANK-5158		126	50
R2 89HANK-5159		1668	290
R2 89HANK-5160		1573	310
R2 89HANK-5161		2895	540
R2 89HANK-5162		1224	250
R2 89HANK-5163		83	70
R2 89HANK-5164		108	80
R2 89HANK-5165		69	100
R2 89HANK-5166		79	60
R2 89HANK-5167		68	55
R2 89HANK-5168		55	50
R2 89HANK-5169		51	40
R2 89HANK-5170		69	30
D2 41548			
D2 41549			
D2 41550			
D2 41551			
D2 41552			
D2 41553			
D2 41554			
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D2 41568			

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: V89-06097.0

DATE PRINTED: 24-SEP-89

PROJECT: 89BC019 PAGE 2A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
D2 41569		19										
D2 41570		17										
D2 41571		114										
D2 41572		113										
D2 41573		68										
D2 41574		36										
D2 41575		121										
D2 41576		33	1.8	9	<1	198	5.04	64	4	18	60	11
D2 41577		61	1.6	57	2	57	7.80	113	4	22	220	9
D2 41578		83	1.8	26	<1	137	6.54	433	2	26	68	17
D2 41579		67	1.2	36	<1	242	6.13	223	2	23	24	10
D2 41580		39	0.8	36	<1	61	4.56	691	2	21	36	7
D2 41581		51	1.4	61	<1	126	5.20	894	2	17	43	10
D2 41582		151	2.2	121	<1	146	7.90	1450	2	50	42	10
D2 41583		118	4.6	63	12	165	6.87	1328	2	56	133	8
D2 41584		41	1.0	49	<1	35	4.78	1376	2	19	76	7
D2 41585		62	0.8	120	<1	30	5.76	882	2	15	62	9
D2 41586		50	1.4	155	1	26	5.38	1242	2	26	119	<5
D2 41587		201	5.3	183	10	333	5.72	830	2	40	756	8
D2 41588		1111	49.9	184	394	2297	5.93	887	<1	36	>10000	153
D2 41589		147	3.5	147	3	131	5.05	342	2	37	154	6
D2 41590		170	4.1	109	2	125	3.77	985	2	22	277	7
D2 41591		114	1.7	106	3	47	4.16	4901	1	1	131	6
D2 41592		63	1.5	126	1	45	4.39	788	2	2	77	<5
D2 41593		89	5.6	91	5	267	4.39	609	3	51	307	<5
D2 41594		301	3.2	139	4	96	4.76	342	3	12	338	<5
D2 41595		76	4.6	110	4	413	6.16	537	2	56	243	<5
D2 41596		90	2.8	108	<1	66	6.36	82	4	49	41	<5
D2 41597		258	5.2	80	3	303	6.07	93	4	46	41	<5
D2 41598		172	5.1	172	1	240	6.11	326	3	36	107	5
D2 41599		150	2.9	111	2	91	4.70	190	3	22	118	<5
D2 41600		794	22.1	93	41	520	3.05	307	4	9	2314	20
D2 41601		38	9.9	137	5	773	4.77	718	4	10	304	320
D2 41602		8	0.9	63	<1	10	4.15	852	3	2	48	<5
D2 41603		7	0.4	37	2	15	3.46	838	2	2	50	6
D2 41604		20	0.8	51	<1	11	4.26	828	2	3	23	<5
D2 41605		25	0.9	41	2	8	2.71	757	2	2	77	<5
D2 41606		24	1.1	53	<1	12	3.68	906	2	1	21	5
D2 41607		36	1.5	58	<1	5	3.73	628	2	2	85	<5
D2 41608		396	19.2	72	5	89	4.12	658	3	2	1487	43

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: V89-06097.0

DATE PRINTED: 24-SEP-89

PROJECT: 89BC019 PAGE 2B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
D2 41569			
D2 41570			
D2 41571			
D2 41572			
D2 41573			
D2 41574			
D2 41575			
D2 41576		46	40
D2 41577		151	60
D2 41578		65	50
D2 41579		33	45
D2 41580		23	45
D2 41581		26	40
D2 41582		75	110
D2 41583		1242	130
D2 41584		64	40
D2 41585		79	55
D2 41586		149	50
D2 41587		1004	2400
D2 41588		>200000	170
D2 41589		353	125
D2 41590		210	85
D2 41591		349	90
D2 41592		149	50
D2 41593		631	125
D2 41594		580	100
D2 41595		466	100
D2 41596		73	15
D2 41597		319	35
D2 41598		146	45
D2 41599		254	60
D2 41600		5236	600
D2 41601		599	250
D2 41602		38	15
D2 41603		195	70
D2 41604		77	40
D2 41605		174	30
D2 41606		24	40
D2 41607		98	40
D2 41608		571	230

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: V89-06097.0

DATE PRINTED: 24-SEP-89

PROJECT: 89BC019 PAGE 3A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
D2 41609		1419	>50.0	199	148	1302	5.17	825	3	10	>10000	54

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Geochemical Lab Report

REPORT: V89-06097.0

DATE PRINTED: 24-SEP-89

PROJECT: 89DC019 PAGE 3B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
D2 41609		16998	1900

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Geochemical Lab Report

REPORT: V89-06155.0

DATE PRINTED: 5-OCT-89
PROJECT: 89BC019 PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
R2 89HANK 5140		15	<0.2	<5	<1	9	1.14	24	4	1	18	<5
R2 89HANK 5141		12	<0.2	11	<1	9	1.51	17	6	2	17	<5
R2 89HANK 5142		12	<0.2	5	<1	11	1.30	9	4	1	4	<5
R2 89HANK 5143		7	<0.2	<5	<1	5	0.69	26	6	5	5	<5
R2 89HANK 5144		<1	<0.2	<5	<1	10	5.89	2116	2	<1	<2	<5
R2 89HANK 5145		<1	<0.2	<5	<1	14	4.76	213	3	<1	<2	<5
R2 89HANK 5146		72	<0.2	98	<1	6	1.49	39	4	2	148	18
R2 89HANK 5147		4	<0.2	<5	<1	2	0.30	3	<1	<1	4	<5
D2 41610		>10000	>50.0	118	329	1460	4.29	1253	<1	8	9297	100
D2 41611		132	2.7	51	3	58	4.88	620	2	10	212	<5
D2 41612		107	1.1	83	<1	72	7.74	1340	3	9	13	<5
D2 41613		126	0.8	66	<1	136	6.47	837	2	11	18	5
D2 41614		60	0.4	29	<1	162	6.53	1225	3	13	45	<5
D2 41615		594	29.8	104	95	884	6.83	1306	3	15	9432	67
D2 41616		173	9.5	93	15	160	5.56	891	4	11	695	13
D2 41617		10	0.4	52	<1	6	4.85	628	3	<1	15	<5
D2 41618		14	0.5	36	<1	16	3.55	698	2	<1	9	<5
D2 41619		19	0.4	38	<1	4	4.07	551	2	<1	10	<5
D2 41620		13	0.6	53	<1	9	4.53	815	2	<1	21	<5
D2 41621		30	1.2	71	<1	8	4.02	903	3	<1	5	<5
D2 41622		12	0.3	69	<1	2	4.42	1386	4	1	18	<5
D2 41623		21	0.2	65	<1	18	4.87	1108	3	<1	15	<5
D2 41624		37	<0.2	50	<1	4	4.07	1358	5	<1	4	<5
D2 41625		49	0.4	61	<1	8	4.22	1415	1	<1	3	<5
D2 41626		29	0.6	85	<1	3	4.12	859	2	1	14	<5
D2 41627		34	0.8	99	<1	5	4.04	923	1	<1	29	<5
D2 41628		34	1.1	87	<1	9	4.01	1050	3	<1	10	<5
D2 41629		98	3.5	136	<1	33	4.15	442	2	2	41	5
D2 41630		104	3.2	112	2	171	3.40	127	2	14	97	7
D2 41631		193	4.8	155	7	97	3.20	200	2	19	281	11
D2 41632		219	3.5	180	<1	54	4.28	1405	3	13	51	<5
D2 41633		1021	4.5	513	<1	103	6.04	4836	2	8	146	10
D2 41634		80	2.1	100	<1	320	7.62	2376	3	16	2	<5
D2 41635		79	3.6	78	<1	651	8.21	2611	2	17	9	<5
D2 41636		61	3.3	78	1	597	8.73	2762	3	17	117	<5
D2 41637		19	0.7	53	<1	205	8.20	2721	3	17	11	<5
D2 41638		113	2.0	104	<1	183	7.60	1814	2	12	26	<5
D2 41639		122	3.0	106	<1	73	6.24	1824	3	12	15	<5
D2 41640		45	1.5	62	<1	81	4.73	1652	3	10	4	<5
D2 41641		27	0.9	67	<1	49	4.93	1582	2	11	6	<5

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Geochemical Lab Report

REPORT: V89-06155.0

DATE PRINTED: 5-OCT-89
PROJECT: 89BC019 PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
R2 89HANK 5140		5	3700
R2 89HANK 5141		3	3700
R2 89HANK 5142		14	1500
R2 89HANK 5143		1	220
R2 89HANK 5144		89	100
R2 89HANK 5145		26	1500
R2 89HANK 5146		3	>5000
R2 89HANK 5147		5	2400
D2 41610		>20000	2400
D2 41611		292	280
D2 41612		88	190
D2 41613		32	110
D2 41614		56	60
D2 41615		10966	1400
D2 41616		1812	270
D2 41617		18	40
D2 41618		6	40
D2 41619		5	60
D2 41620		7	30
D2 41621		16	35
D2 41622		30	20
D2 41623		38	50
D2 41624		39	25
D2 41625		35	40
D2 41626		22	40
D2 41627		26	30
D2 41628		15	10
D2 41629		118	60
D2 41630		296	60
D2 41631		1045	160
D2 41632		85	60
D2 41633		75	50
D2 41634		73	35
D2 41635		90	25
D2 41636		160	40
D2 41637		76	30
D2 41638		72	50
D2 41639		35	20
D2 41640		38	30
D2 41641		45	30

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Geochemical Lab Report

REPORT: V89-06155.0

DATE PRINTED: 5-OCT-89
PROJECT: 89BC019 PAGE 2A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
D2 41642		116	2.2	128	<1	231	6.76	1797	2	14	3	<5
D2 41643		30	0.9	57	<1	62	5.99	1970	1	11	36	<5
D2 41644		11	0.5	13	1	88	5.89	1593	2	11	16	<5
D2 41645		12	0.8	12	1	136	6.02	1933	2	11	27	<5
D2 41646		35	1.0	51	<1	212	6.30	2115	2	11	8	<5
D2 41647		32	1.2	198	<1	158	7.92	1802	2	13	9	<5
D2 41648		56	1.2	85	<1	97	7.16	1802	5	9	16	<5
D2 41649		50	1.8	102	<1	138	7.48	1203	3	12	19	<5
D2 41650		236	2.5	84	<1	410	5.07	1556	3	10	66	<5
D2 41651		32	0.4	17	<1	98	2.90	1352	2	7	<2	<5
D2 41652		50	1.9	67	4	77	7.14	1476	4	9	182	<5
D2 41653		43	1.7	22	<1	212	6.14	1868	2	9	12	<5
D2 41654		73	1.2	67	3	120	6.27	1556	2	9	48	<5
D2 41655		61	2.0	97	3	175	5.19	1607	2	8	67	<5
D2 41656		51	1.4	82	<1	67	5.12	1463	2	9	49	<5
D2 41657		59	0.8	65	<1	39	4.38	921	2	6	28	<5
D2 41658		26	0.7	49	<1	51	4.24	981	2	7	83	<5
D2 41659		39	0.8	57	<1	81	4.63	1143	3	8	19	<5
D2 41660		24	0.7	27	<1	118	3.86	1442	2	7	13	<5
D2 41661		44	0.8	42	<1	87	5.14	1518	1	7	8	<5
D2 41662		832	3.1	91	<1	71	4.92	1586	1	7	258	<5
D2 41663		32	1.1	39	<1	54	5.20	1352	2	9	10	<5
D2 41664		62	2.0	54	<1	238	4.65	947	2	9	40	<5
D2 41665		180	2.7	85	<1	108	5.23	713	3	8	53	<5
D2 41666		1037	3.8	104	<1	1490	5.82	993	3	6	189	<5
D2 41667		153	1.4	86	<1	70	4.97	931	4	6	46	<5
D2 41668		101	1.7	65	2	98	5.94	1551	3	7	210	<5
D2 41669		27	0.7	86	2	54	4.34	1824	3	7	99	<5
D2 41670		31	1.3	83	4	67	6.05	1667	2	8	153	<5
D2 41671		39	1.5	105	1	115	6.75	1530	7	8	99	<5
D2 41672		33	1.4	41	<1	118	5.62	1753	1	6	67	<5
D2 41673		15	0.7	17	1	62	4.87	1929	1	6	89	<5
D2 41674		21	2.0	21	3	101	5.59	2720	<1	7	169	<5
D2 41675		4	0.6	8	1	74	5.19	1725	1	6	124	<5
D2 41676		11	0.4	<5	1	56	5.00	2220	2	6	62	<5
D2 41677		47	1.2	25	5	70	5.18	2108	<1	5	187	<5
D2 41678		6	0.5	<5	2	50	4.57	1819	<1	4	85	<5
D2 41679		9	0.4	10	1	56	5.34	1935	1	6	79	<5
D2 41680		43	0.9	75	2	40	4.11	1328	2	4	125	<5
D2 41681		167	1.4	90	2	47	3.18	1174	2	3	200	<5

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Geochemical Lab Report

REPORT: V89-06155.0

DATE PRINTED: 5-OCT-89
PROJECT: 89BC019 PAGE 2B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
D2 41642		57	40
D2 41643		155	40
D2 41644		187	20
D2 41645		195	30
D2 41646		86	35
D2 41647		54	20
D2 41648		55	35
D2 41649		32	30
D2 41650		101	50
D2 41651		37	30
D2 41652		535	25
D2 41653		103	55
D2 41654		425	30
D2 41655		550	120
D2 41656		144	40
D2 41657		26	30
D2 41658		45	10
D2 41659		29	20
D2 41660		95	15
D2 41661		46	10
D2 41662		68	15
D2 41663		36	25
D2 41664		49	30
D2 41665		92	40
D2 41666		82	60
D2 41667		90	135
D2 41668		384	90
D2 41669		317	40
D2 41670		668	70
D2 41671		263	30
D2 41672		201	30
D2 41673		228	30
D2 41674		453	90
D2 41675		275	80
D2 41676		216	35
D2 41677		788	60
D2 41678		326	40
D2 41679		195	45
D2 41680		338	55
D2 41681		293	65

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Geochemical Lab Report

REPORT: V89-06155.0

DATE PRINTED: 5-OCT-89
PROJECT: 89BC019 PAGE 3A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
D2 41682		74	0.9	16	<1	43	4.58	1021	1	4	<2	<5
D2 41683		83	1.6	14	<1	49	4.15	1204	4	3	2	<5
D2 41684		69	1.5	72	<1	57	3.24	600	1	21	227	<5
D2 41685		34	0.6	88	<1	39	4.21	721	2	26	62	<5
D2 41686		195	4.3	65	3	179	4.21	692	1	23	362	21
D2 41687		28	0.7	20	<1	259	3.35	1048	1	21	16	<5
D2 41688		120	2.1	49	4	53	3.98	700	1	23	447	<5
D2 41689		62	0.5	63	<1	101	3.63	1315	1	20	15	<5
D2 41690		142	0.8	60	<1	68	3.31	818	2	14	33	<5
D2 41691		125	0.5	64	<1	320	4.14	652	2	19	11	<5
D2 41692		95	0.9	41	2	76	3.15	739	2	13	140	<5
D2 41693		287	4.8	139	7	293	5.87	994	3	12	894	<5
D2 41694		18	0.2	34	<1	172	4.33	1007	2	9	32	<5
D2 41695		6	<0.2	36	<1	38	5.07	1059	2	12	45	<5
D2 41696		45	0.4	80	<1	113	5.16	1402	2	8	33	<5
D2 41697		114	1.2	92	<1	99	4.84	1121	2	11	33	<5
D2 41698		53	0.4	108	<1	29	4.45	1445	1	7	37	<5
D2 41699		74	1.3	56	<1	113	4.73	1545	1	6	159	<5
D2 41700		159	0.9	103	<1	39	5.67	1585	2	7	271	<5
D2 41701		91	0.7	121	6	32	7.13	1534	2	11	77	<5
D2 41702		46	0.3	90	<1	83	6.42	1675	3	15	111	<5
D2 41703		59	0.3	85	<1	373	6.20	1545	2	11	96	<5
D2 41704		98	1.1	72	11	122	5.15	1331	2	8	939	<5
D2 41705		142	2.0	52	2	270	5.63	1276	2	11	249	<5
D2 41706		265	4.3	77	18	431	5.15	1027	1	10	1171	<5
D2 41707		37	0.2	56	<1	49	5.33	1283	2	11	241	<5
D2 41708		26	0.3	38	2	39	5.10	1519	2	9	133	<5
D2 41709		41	0.4	43	<1	83	5.53	1717	1	11	43	<5
D2 41710		81	0.9	18	1	120	5.30	1241	4	23	117	<5
D2 41711		42	0.4	43	<1	58	5.94	1681	2	26	97	<5
D2 41712		28	0.4	30	<1	202	5.32	1515	2	26	19	<5
D2 41713		50	1.0	<5	23	405	6.05	1921	2	31	29	<5
D2 41714		182	4.2	119	15	189	5.88	1162	<1	17	915	<5
D2 41715		13	0.2	14	<1	135	6.30	1225	2	9	5	<5
D2 41716		72	1.7	60	8	82	5.37	1370	1	9	139	<5
D2 41717		115	4.4	86	24	175	5.07	1470	2	7	1057	<5
D2 41718		130	2.3	138	11	243	5.42	1313	2	7	1314	<5
D2 41719		70	1.8	95	13	116	6.05	1223	2	7	1221	<5
D2 41720		127	2.7	114	19	137	5.34	1381	2	5	2848	<5
D2 41721		355	14.8	93	19	240	6.43	1682	2	8	1546	<5

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: V89-06155.0

DATE PRINTED: 5-OCT-89
PROJECT: 89BC019 PAGE 3B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
D2 41682		47	80
D2 41683		46	80
D2 41684		85	65
D2 41685		45	70
D2 41686		390	140
D2 41687		74	65
D2 41688		488	130
D2 41689		62	55
D2 41690		44	45
D2 41691		20	45
D2 41692		215	65
D2 41693		822	170
D2 41694		80	40
D2 41695		71	35
D2 41696		58	30
D2 41697		47	40
D2 41698		85	30
D2 41699		261	60
D2 41700		170	50
D2 41701		787	90
D2 41702		82	30
D2 41703		116	50
D2 41704		1388	130
D2 41705		394	70
D2 41706		2145	190
D2 41707		149	70
D2 41708		288	80
D2 41709		158	60
D2 41710		259	65
D2 41711		210	60
D2 41712		101	60
D2 41713		2256	95
D2 41714		1731	310
D2 41715		70	60
D2 41716		1045	140
D2 41717		2610	310
D2 41718		1190	150
D2 41719		1458	120
D2 41720		2161	170
D2 41721		2179	145

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Geochemical Lab Report

REPORT: V89-06155.0

DATE PRINTED: 5-OCT-89
PROJECT: 89BC019 PAGE 4A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
D2 41722		30	1.1	<5	4	115	4.65	1642	1	8	299	<5
D2 41723		66	1.9	50	4	130	4.78	1205	2	7	799	<5
D2 41724		82	0.6	48	<1	69	5.22	1328	2	7	64	<5
D2 41725		81	1.9	<5	3	455	5.69	1486	2	8	267	<5
D2 41726		58	1.8	35	6	73	5.28	1222	1	8	415	<5
D2 41727		710	42.3	28	4	84	5.66	1268	3	9	84	<5
D2 41728		25	0.4	7	<1	24	5.41	1426	1	6	35	<5
D2 41729		56	1.0	13	<1	70	5.10	865	2	7	18	<5
D2 41730		4	<0.2	<5	<1	71	5.40	726	2	8	<2	<5
D2 41731		10	<0.2	<5	<1	72	4.34	690	2	6	4	<5
D2 41732		185	6.0	<5	<1	51	4.83	705	1	7	<2	<5
D2 41733		55	2.7	13	<1	63	4.86	809	<1	9	9	<5
D2 41734		23	0.4	75	<1	105	4.60	1023	1	7	51	<5
D2 41735		41	1.1	80	3	158	5.04	1006	2	7	298	<5
D2 41736		294	13.1	95	154	655	5.65	796	2	6	>10000	39
D2 41737		8	<0.2	18	<1	15	4.50	844	1	7	51	<5
D2 41738		21	0.4	52	<1	63	5.21	793	2	9	37	<5
D2 41739		226	21.1	93	177	2294	5.58	661	<1	9	>10000	39
D2 41740		30	0.5	77	1	86	5.22	820	2	10	123	<5
D2 41741		52	0.6	92	<1	186	4.52	860	1	7	36	<5
D2 41742		63	1.2	68	<1	31	3.64	672	2	6	65	<5
D2 41743		207	2.6	71	<1	95	4.04	679	3	6	49	5
D2 41744		263	7.4	40	2	13	4.50	731	2	7	81	<5
D2 41745		32	<0.2	40	<1	12	4.82	665	2	8	7	<5
D2 41746		22	<0.2	43	<1	87	4.72	778	2	8	2	<5
D2 41747		6	<0.2	33	<1	15	3.86	743	2	6	<2	<5
D2 41748		18	<0.2	68	<1	46	4.42	971	3	5	44	<5
D2 41749		145	5.5	47	<1	39	4.82	676	1	7	48	<5
D2 41750		8	<0.2	37	<1	21	4.23	534	1	6	7	<5
D2 41751		2	<0.2	21	<1	8	4.81	412	1	6	6	<5
D2 41752		4	<0.2	17	<1	13	4.84	382	1	4	11	<5
D2 41753		5	<0.2	20	<1	15	5.93	430	1	7	26	<5
D2 41754		89	0.9	52	<1	44	4.05	654	1	4	35	<5
D2 41755		43	0.2	54	<1	8	5.21	797	2	3	19	<5
D2 41756		47	0.2	46	<1	92	4.23	997	1	4	37	<5
D2 41757		59	0.2	58	<1	45	4.70	1239	2	4	73	<5
D2 41758		26	0.3	38	<1	24	4.06	1137	<1	3	77	<5
D2 41759		20	0.3	37	<1	25	4.49	1249	2	4	18	<5
D2 41760		92	0.2	43	<1	64	4.19	1022	1	4	14	<5
D2 41761		10	<0.2	41	<1	67	4.30	1082	2	5	3	<5

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Geochemical Lab Report

REPORT: V89-06155.0

DATE PRINTED: 5-OCT-89
PROJECT: 89BC019 PAGE 4B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
D2 41722		551	80
D2 41723		527	90
D2 41724		145	65
D2 41725		503	90
D2 41726		685	80
D2 41727		562	120
D2 41728		124	60
D2 41729		47	60
D2 41730		48	50
D2 41731		43	40
D2 41732		52	90
D2 41733		52	40
D2 41734		84	40
D2 41735		410	70
D2 41736		16547	1850
D2 41737		93	50
D2 41738		94	55
D2 41739		18841	1050
D2 41740		225	60
D2 41741		114	35
D2 41742		192	50
D2 41743		41	180
D2 41744		284	50
D2 41745		51	40
D2 41746		55	30
D2 41747		69	40
D2 41748		96	45
D2 41749		113	60
D2 41750		34	55
D2 41751		36	40
D2 41752		24	25
D2 41753		30	45
D2 41754		68	45
D2 41755		59	50
D2 41756		89	40
D2 41757		124	80
D2 41758		120	70
D2 41759		120	75
D2 41760		87	50
D2 41761		90	50

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Geochemical Lab Report

REPORT: V89-06155.0

DATE PRINTED: 5-OCT-89
PROJECT: 89BC019 PAGE 5A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
D2 41762		19	<0.2	46	<1	64	4.74	940	2	6	3	<5
D2 41763		7	<0.2	34	<1	84	5.17	616	2	4	15	<5
D2 41764		19	<0.2	32	<1	39	4.15	600	1	4	17	<5
D2 41765		688	14.8	53	29	154	4.99	593	2	5	3335	9
D2 41766		46	0.4	56	1	66	4.98	1004	<1	5	164	<5
D2 41767		18	0.2	54	<1	90	4.79	606	2	4	50	<5
D2 41768		40	0.3	73	<1	73	4.50	770	2	5	30	<5
D2 41769		37	0.3	44	<1	8	4.34	606	2	7	19	<5
D2 41770		64	0.4	78	<1	7	4.45	923	1	5	<2	<5
D2 41771		37	0.2	55	<1	36	4.38	845	2	6	<2	<5
D2 41772		35	<0.2	38	<1	13	3.35	711	<1	5	<2	<5
D2 41773		46	<0.2	28	<1	12	3.16	796	1	3	<2	<5
D2 41774		49	0.3	30	<1	29	3.33	908	1	6	18	<5
D2 41775		100	1.3	56	8	67	4.55	715	2	5	777	<5
D2 41776		28	0.2	37	<1	5	3.83	736	1	8	<2	<5
D2 41777		20	0.3	34	<1	6	3.47	594	1	10	15	<5
D2 41778		65	0.5	52	<1	13	3.55	699	<1	7	71	<5
D2 41779		17	<0.2	37	<1	10	3.45	733	2	4	<2	<5
D2 41780		30	<0.2	52	<1	32	3.44	854	2	3	3	<5
D2 41781		145	2.2	63	4	72	3.36	667	2	3	279	<5
D2 41782		215	1.4	47	<1	27	4.47	881	<1	8	5	<5
D2 41783		102	0.3	42	<1	38	3.75	865	<1	7	5	<5
D2 41784		24	<0.2	49	<1	87	4.35	901	1	8	6	<5
D2 41785		56	0.3	78	<1	87	4.08	693	2	6	12	<5
D2 41786		96	0.3	44	<1	24	3.70	697	3	6	35	<5
D2 41787		28	<0.2	31	<1	6	3.35	819	<1	7	<2	<5
D2 41788		15	<0.2	11	<1	3	2.73	645	1	4	3	<5
D2 41789		20	0.2	23	<1	5	3.07	692	1	5	<2	<5
D2 41790		34	0.3	30	<1	9	4.20	808	1	5	<2	<5
D2 41791		66	1.0	47	<1	82	4.64	809	1	6	7	<5
D2 41792		74	1.0	<5	<1	18	3.93	374	2	9	52	<5
D2 41793		17	<0.2	<5	<1	4	4.32	706	2	9	<2	<5
D2 41794		42	0.2	<5	<1	11	4.41	872	2	9	<2	<5
D2 41795		39	0.2	<5	<1	36	5.00	848	2	7	<2	<5
D2 41796		42	0.2	<5	<1	17	4.84	678	<1	6	<2	<5
D2 41797		33	0.2	<5	<1	23	4.90	779	1	6	<2	<5
D2 41798		28	0.2	<5	<1	9	4.86	816	1	8	9	<5
D2 41799		29	0.3	<5	<1	6	4.18	928	3	5	<2	<5
D2 41800		73	0.9	11	<1	63	4.49	859	2	6	98	<5
D2 41801		193	1.0	101	12	14	6.03	457	4	8	518	<5

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: V89-06155.0

DATE PRINTED: 5-OCT-89
PROJECT: 89BC019 PAGE 5B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
D2 41762		64	50
D2 41763		43	40
D2 41764		30	45
D2 41765		2882	290
D2 41766		264	75
D2 41767		100	100
D2 41768		116	60
D2 41769		50	50
D2 41770		69	55
D2 41771		53	50
D2 41772		50	30
D2 41773		55	40
D2 41774		75	40
D2 41775		1133	150
D2 41776		48	50
D2 41777		90	60
D2 41778		145	50
D2 41779		56	40
D2 41780		55	50
D2 41781		532	180
D2 41782		75	60
D2 41783		91	50
D2 41784		101	20
D2 41785		73	30
D2 41786		121	30
D2 41787		103	15
D2 41788		85	25
D2 41789		90	20
D2 41790		97	30
D2 41791		88	60
D2 41792		135	45
D2 41793		56	50
D2 41794		56	40
D2 41795		60	45
D2 41796		53	40
D2 41797		60	25
D2 41798		57	35
D2 41799		94	40
D2 41800		191	40
D2 41801		1476	180

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Geochemical Lab Report

REPORT: V89-06155.0

DATE PRINTED: 5-OCT-89
PROJECT: 89BC019 PAGE 6A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
D2 41802		159	4.0	47	24	18	3.98	796	2	7	2708	<5
D2 41803		680	4.3	116	46	45	6.96	585	2	8	3982	15
D2 41804		873	1.1	84	2	95	4.95	834	2	8	119	<5
D2 41805		189	1.1	76	<1	66	4.67	681	<1	8	41	<5
D2 41806		164	1.2	73	4	64	5.72	327	1	8	205	<5
D2 41807		185	1.1	42	1	75	4.02	283	<1	7	44	<5
D2 41808		237	0.8	35	<1	25	3.87	1425	<1	6	18	<5
D2 41809		178	1.6	46	<1	28	4.63	769	2	6	28	<5
D2 41810		111	0.6	35	<1	12	4.17	1193	1	6	6	<5
D2 41811		116	1.1	28	<1	25	3.68	2311	2	5	45	7
D2 41812		175	0.7	41	16	25	6.02	786	2	7	121	6
D2 41813		278	1.3	32	15	9	5.57	717	2	8	1146	7
D2 41814		234	0.8	51	9	7	4.70	1751	2	6	409	8
D2 41815		205	1.0	65	6	5	4.90	1798	3	7	573	<5
D2 41816		335	2.3	35	18	10	5.11	1550	2	6	1712	7
D2 41817		254	0.5	31	<1	2	4.91	231	2	9	52	<5
D2 41818		154	0.5	27	<1	5	4.76	1955	1	8	130	5
D2 41819		174	1.3	35	3	10	4.67	2325	2	7	222	5
D2 41820		251	0.9	48	10	23	7.03	1356	2	15	685	10
D2 41821		117	0.7	13	<1	109	7.20	906	2	21	105	<5
D2 41822		134	0.5	27	1	31	6.58	1046	1	20	61	<5

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Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: V89-06155.0

DATE PRINTED: 5-OCT-89
PROJECT: 89BC019 PAGE 6B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
D2 41802		3120	300
D2 41803		5856	370
D2 41804		229	90
D2 41805		138	80
D2 41806		650	120
D2 41807		259	70
D2 41808		94	60
D2 41809		77	55
D2 41810		29	50
D2 41811		143	70
D2 41812		2065	220
D2 41813		1948	220
D2 41814		1229	160
D2 41815		832	150
D2 41816		2324	320
D2 41817		38	50
D2 41818		154	45
D2 41819		388	80
D2 41820		1214	150
D2 41821		114	70
D2 41822		173	60

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Certificate of Analysis

REPORT: V89-06155.6

DATE PRINTED: 29-SEP-89
PROJECT: 89BC019 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT	Pb PCT	Zn PCT	SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT	Pb PCT	Zn PCT
D2 41610		28.35‡	689.5		3.65	D2 41817		0.38			
D2 41615		1.10	28.8			D2 41818		0.21			
D2 41616		0.24				D2 41819		0.24			
D2 41631		0.27				D2 41820		0.27			
D2 41632		0.31									
D2 41633		1.30									
D2 41650		0.31									
D2 41662		1.41‡									
D2 41665		0.21									
D2 41666		1.10									
D2 41667		0.27									
D2 41681		0.21									
D2 41686		0.31									
D2 41693		0.48									
D2 41700		0.24									
D2 41706		0.48									
D2 41714		0.24									
D2 41721		0.65									
D2 41727		0.62									
D2 41732		0.24									
D2 41736		0.48		1.49							
D2 41739		0.31		1.22							
D2 41743		0.27									
D2 41744		0.34									
D2 41765		0.86									
D2 41782		0.24									
D2 41801		0.21									
D2 41802		0.89									
D2 41803		1.17									
D2 41804		0.21									
D2 41805		0.21									
D2 41806		0.24									
D2 41807		0.27									
D2 41808		0.17									
D2 41809		0.21									
D2 41812		0.24									
D2 41813		0.34									
D2 41814		0.24									
D2 41815		0.27									
D2 41816		0.51									

Registered Assayer, Province of British Columbia

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Certificate of Analysis

DATE PRINTED: 13-OCT-89

REPORT: V89-06171.6

PROJECT: 89BC019 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT	Ag GMT	Pb PCT	Zn PCT
D2 41825		0.17				
D2 41826		0.89				
D2 41827		0.41				
D2 41828		0.34				
D2 41829		0.21				
D2 41834		0.17				
D2 41836		0.86				
D2 41838		0.17				
D2 41849		0.27				
D2 41850		0.24				
D2 41851		0.24				
D2 41854		0.38				
D2 41855		0.45				
D2 41856		3.15				
D2 41857		0.45				
D2 41858		0.14				
D2 41859		0.21				
D2 41860		0.27				
D2 41861		0.34				
D2 41862		0.38				
D2 41863		0.21				
D2 41864		0.31				
D2 41865		0.31				
D2 41866		0.38				
D2 41867		0.62				
D2 41868		0.41				
D2 41869		0.24				
D2 41870		0.24				
D2 41871		0.17				
D2 41877		0.21				
D2 41878		0.10				
D2 41888						2.55
D2 41890		0.17				
D2 41893		0.17				
D2 41894		0.14				
D2 41896		0.10				
D2 41897		0.72				2.31
D2 41898		1.27				
D2 41899		4.22	124.5		5.50	13.76
D2 41900		0.24				

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Certificate of Analysis

DATE PRINTED: 13-OCT-89

REPORT: V89-06171.6

PROJECT: 89BC019 PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT	Ag GMT	Pb PCT	Zn PCT
D2 41941				37.7		
D2 41942				60.3		
D2 41951						9.40
D2 41954		81.36	2058.9			9.95
D2 41955				198.9		

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DATE PRINTED: 20-OCT-89
PROJECT: 89BCM19 PAGE 1

REPORT: V89-06171.5

SAMPLE NUMBER	ELEMENT UNITS	Au GMT
D2 41905		0.38
D2 41906		0.45
D2 41907		0.48
D2 41908		0.51
D2 41910		0.24
D2 41912		0.55
D2 41913		0.27
D2 41918		0.68
D2 41934		0.34
D2 41935		0.27
D2 41936		0.31
D2 41939		3.91
D2 41940		0.93
D2 41941		4.90
D2 41942		12.62#
D2 41943		0.65
D2 41944		0.45
D2 41945		0.45
D2 41946		0.55
D2 41947		0.27
D2 41948		0.24
D2 41949		0.24
D2 41951		6.58
D2 41952		0.31
D2 41953		1.20
D2 41954		78.51
D2 41955		11.45
D2 41956		0.38
D2 41957		0.58
D2 41958		0.41
D2 41960		0.41
D2 41961		0.51
D2 41962		0.34

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DATE PRINTED: 28-SEP-89

REPORT: V89-06026.5

PROJECT: 89BC019 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	WT G	WT-150 G	WT+150 G	Au-150 GMT	Au+150 GMT	Au+150 MG	Au TOT GMT
D2 41284		29.17	292.2	1.75	1.95	120.0	0.210	2.66
D2 41291		29.17	324.7	12.95	1.68	5.3	0.068	1.82
D2 41292		29.17	297.3	3.89	1.47	3.3	0.013	1.50
D2 41293		29.17	334.6	7.44	1.65	5.6	0.042	1.73
D2 41297		29.17	311.9	8.90	1.54	2.1	0.019	1.56
D2 41298		29.17	289.7	2.90	1.37	2.1	0.006	1.38
D2 41299		29.17	307.0	3.61	0.99	2.2	0.008	1.01
D2 41300		29.17	98.3	1.46	2.40	7.5	0.011	2.48
D2 41339		29.17	334.8	8.68	46.59	1259.7	10.934	77.25
D2 41345		29.17	303.7	6.47	1.30	5.4	0.035	1.39
D2 41346		29.17	223.1	1.61	3.87	111.8	0.180	4.65
D2 41347		29.17	299.9	3.78	1.27	2.1	0.008	1.28
D2 41348		29.17	322.4	9.10	15.33	22.3	0.203	15.52
D2 41349		29.17	305.4	3.38	1.23	3.8	0.013	1.26

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DATE PRINTED: 28-SEP-89

REPORT: V89-06097.5

PROJECT: 89BC019 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	WT G	WT-150 G	WT+150 G	Au-150 GMT	Au+150 GMT	Au+150 MG	Au TOT GMT
D2 41548		29.17	282.1	1.14	1.27	7.9	0.009	1.30

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REPORT: V89-06051.5

DATE PRINTED: 2-OCT-89
PROJECT: 89BC019 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	WT G	WT-150 G	WT+150 G	Au-150 GMT	Au+150 GMT	Au+150 MG	Au TOT GMT
D2 41437		29.17	260.2	7.93	3.22	3.0	0.024	3.22
D2 41438		29.17	392.4	15.21	28.32	19.6	0.298	27.99
D2 41546		29.17	266.2	3.55	1.30	10.1	0.036	1.42
D2 41547		29.17	118.0	1.16	12.96	301.7	0.350	15.77

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Geochemical Lab Report

REPORT: V89-06171.0

DATE PRINTED: 6-OCT-89

PROJECT: 89BC019 PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
D2 41823		78	0.6	77	1	145	7.55	881	3	15	81	<5
D2 41824		24	0.5	57	2	87	6.80	921	2	15	79	<5
D2 41825		200	1.4	59	10	48	5.49	1123	2	14	691	<5
D2 41826		909	5.3	106	20	184	6.33	1132	2	12	1752	7
D2 41827		433	2.1	104	6	59	6.17	1395	2	15	304	<5
D2 41828		326	1.9	71	8	217	6.60	2224	2	15	769	<5
D2 41829		224	1.0	77	<1	58	7.14	1184	3	13	208	<5
D2 41830		74	0.7	89	6	145	6.84	1732	2	15	505	<5
D2 41831		119	1.1	63	9	247	7.85	1970	2	15	673	<5
D2 41832		61	0.5	82	6	65	6.34	1328	2	15	354	<5
D2 41833		87	0.7	68	4	161	6.75	1146	3	14	396	<5
D2 41834		199	0.9	107	4	148	8.00	1395	2	17	188	<5
D2 41835		124	0.8	87	3	55	8.52	1361	9	17	173	<5
D2 41836		945	3.0	137	<1	161	8.92	1371	3	17	131	<5
D2 41837		148	1.9	124	3	102	8.62	1335	3	15	81	<5
D2 41838		446	1.0	65	4	84	7.63	1481	2	18	327	<5
D2 41839		111	1.2	41	7	102	6.94	1133	2	13	383	<5
D2 41840		95	1.8	61	15	367	7.93	1203	2	12	757	<5
D2 41841		20	0.8	56	4	103	7.31	962	3	14	212	<5
D2 41842		23	0.8	34	2	98	5.36	720	3	14	340	<5
D2 41843		25	0.6	44	<1	52	5.69	644	2	13	76	<5
D2 41844		67	1.3	52	<1	35	7.22	711	2	12	57	<5
D2 41845		49	1.2	35	2	72	5.36	933	2	12	29	<5
D2 41846		55	1.0	40	<1	204	5.92	765	2	16	18	<5
D2 41847		13	0.3	42	<1	73	6.20	887	1	13	11	<5
D2 41848		21	0.4	42	<1	104	6.18	931	2	13	24	<5
D2 41849		257	4.7	51	28	152	9.11	387	4	13	971	15
D2 41850		212	2.7	42	5	69	5.98	977	2	13	432	<5
D2 41851		152	2.4	41	6	44	6.16	1330	1	13	461	6
D2 41852		98	1.3	36	<1	47	5.64	1055	2	11	182	6
D2 41853		94	1.5	58	2	76	5.70	1089	2	12	172	<5
D2 41854		366	3.7	48	7	166	6.74	825	1	12	15	<5
D2 41855		424	14.2	43	13	331	5.57	1318	2	11	41	5
D2 41856		4417	30.5	56	13	254	5.87	1433	2	11	446	5
D2 41857		450	2.3	98	4	122	5.33	1232	2	12	275	<5
D2 41858		159	1.0	42	<1	50	5.94	1247	1	11	40	<5
D2 41859		250	1.2	60	2	51	5.97	1363	2	7	183	<5
D2 41860		266	1.3	42	2	36	6.19	1286	2	5	85	<5
D2 41861		276	1.3	40	2	36	7.15	1330	2	6	55	<5
D2 41862		377	2.4	54	18	72	6.58	902	2	9	55	8

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Geochemical Lab Report

REPORT: V89-06171.0

DATE PRINTED: 6-OCT-89

PROJECT: 89BC019 PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
D2 41823		225	70
D2 41824		377	25
D2 41825		1051	85
D2 41826		2243	180
D2 41827		672	75
D2 41828		900	90
D2 41829		250	70
D2 41830		575	60
D2 41831		888	60
D2 41832		554	45
D2 41833		487	35
D2 41834		398	30
D2 41835		388	25
D2 41836		195	15
D2 41837		222	20
D2 41838		312	20
D2 41839		763	45
D2 41840		1471	90
D2 41841		441	40
D2 41842		285	50
D2 41843		135	25
D2 41844		141	15
D2 41845		152	25
D2 41846		67	15
D2 41847		53	10
D2 41848		68	35
D2 41849		3093	330
D2 41850		663	85
D2 41851		772	85
D2 41852		176	20
D2 41853		337	45
D2 41854		919	110
D2 41855		1656	160
D2 41856		1699	390
D2 41857		558	60
D2 41858		81	35
D2 41859		262	30
D2 41860		278	30
D2 41861		322	25
D2 41862		2268	170

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Geochemical Lab Report

REPORT: V89-06171.0

DATE PRINTED: 6-OCT-89

PROJECT: 89BC019 PAGE 2A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
D2 41863		217	1.7	35	5	45	4.99	856	2	9	47	<5
D2 41864		322	2.5	87	5	148	5.13	1152	2	9	29	<5
D2 41865		296	1.9	67	7	88	4.80	818	1	10	51	<5
D2 41866		367	4.9	90	9	152	5.07	518	2	19	54	<5
D2 41867		643	2.7	142	13	56	6.28	98	2	9	126	<5
D2 41868		444	2.9	232	12	114	6.09	995	4	7	80	<5
D2 41869		238	2.2	130	25	84	5.41	1817	2	7	214	8
D2 41870		260	2.0	126	7	94	4.58	1744	1	5	594	<5
D2 41871		174	0.9	139	7	23	6.38	2078	2	6	74	6
D2 41872		96	0.5	158	6	95	6.24	1944	2	5	34	<5
D2 41873		93	0.5	96	4	119	5.13	2128	2	6	138	<5
D2 41874		90	0.6	114	8	189	6.82	2496	4	11	56	<5
D2 41875		78	0.3	90	1	8	3.78	2198	2	8	17	<5
D2 41876		132	0.5	111	<1	5	4.64	1941	1	11	81	<5
D2 41877		321	0.7	134	<1	7	5.48	1445	2	13	18	<5
D2 41878		185	0.5	147	<1	15	6.13	2043	2	11	12	<5
D2 41879		109	0.5	148	<1	18	6.73	2104	2	10	29	<5
D2 41880		99	0.4	125	<1	66	6.04	2507	2	9	20	<5
D2 41881		60	0.5	107	1	78	5.92	2869	2	7	165	<5
D2 41882		96	0.8	108	5	83	5.49	2095	2	8	104	<5
D2 41883		111	0.9	102	7	105	5.62	2130	2	7	147	8
D2 41884		106	1.1	87	16	60	4.72	1762	2	6	520	7
D2 41885		69	0.4	97	4	12	5.27	1715	2	5	34	5
D2 41886		61	0.4	89	9	12	6.79	1691	15	8	83	<5
D2 41887		79	2.6	73	141	64	8.04	2205	6	22	878	19
D2 41888		35	1.3	58	215	32	4.27	1977	<1	7	1254	49
D2 41889		54	2.3	79	26	15	5.56	2021	<1	7	1729	<5
D2 41890		166	4.7	90	99	175	6.66	1646	1	9	3869	26
D2 41891		135	2.9	132	26	145	5.85	1637	2	8	1666	7
D2 41892		126	1.9	111	12	112	6.12	1865	2	7	1185	<5
D2 41893		161	2.7	110	25	341	6.55	1943	1	8	1489	6
D2 41894		161	3.4	102	51	240	6.70	1922	2	8	2067	14
D2 41895		115	1.6	97	13	134	5.65	1539	2	13	765	<5
D2 41896		165	1.5	83	13	119	5.97	1293	3	11	203	<5
D2 41897		708	15.4	212	190	197	7.04	1079	3	11	4694	47
D2 41898		818	14.4	102	42	71	4.92	966	3	11	2658	12
D2 41899		3713	>50.0	240	1115	1626	7.51	2915	<1	33	>10000	303
D2 41900		234	2.5	85	23	94	6.05	977	2	16	754	11
D2 41901			0.5	86	<1	134	5.88	935	2	13	68	<5
D2 41902			0.6	86	1	96	6.50	945	2	14	76	<5

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Geochemical Lab Report

REPORT: V89-06171.0

DATE PRINTED: 6-OCT-89

PROJECT: 89BC019 PAGE 28

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
D2 41863		641	85
D2 41864		780	130
D2 41865		948	135
D2 41866		1152	125
D2 41867		1639	120
D2 41868		1513	160
D2 41869		3396	280
D2 41870		1086	105
D2 41871		1103	100
D2 41872		980	65
D2 41873		724	40
D2 41874		1216	80
D2 41875		318	30
D2 41876		114	10
D2 41877		88	15
D2 41878		220	55
D2 41879		201	70
D2 41880		347	130
D2 41881		367	175
D2 41882		823	80
D2 41883		1119	55
D2 41884		2158	145
D2 41885		682	60
D2 41886		1316	95
D2 41887		18406	520
D2 41888		>20000	600
D2 41889		3328	250
D2 41890		11188	650
D2 41891		3483	220
D2 41892		1846	130
D2 41893		3393	195
D2 41894		6312	280
D2 41895		1721	220
D2 41896		1763	90
D2 41897		>20000	1150
D2 41898		4907	340
D2 41899		>20000	4600
D2 41900		2813	135
D2 41901		164	5
D2 41902		278	15

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Geochemical Lab Report

REPORT: V89-06171.0

DATE PRINTED: 6-OCT-89

PROJECT: 89BC019 PAGE 3A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Cd PPM	Cu PPM	Fe PCT	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM
D2 41903			0.5	93	<1	43	6.86	853	2	15	66	<5
D2 41904			1.3	84	7	151	5.46	1207	2	12	558	5
D2 41905			2.3	60	14	130	5.75	947	2	14	601	<5
D2 41906			2.3	113	5	161	6.88	1336	2	13	291	<5
D2 41907			2.4	110	7	164	6.82	1427	3	14	414	<5
D2 41908			2.8	68	5	182	6.88	1874	2	13	233	<5
D2 41909			1.2	94	10	255	5.88	1231	1	13	976	<5
D2 41910			1.0	128	3	35	6.34	1388	3	14	191	<5
D2 41911			1.3	138	5	107	6.93	1298	3	14	670	<5
D2 41912			2.3	168	4	119	6.87	1284	3	14	181	<5
D2 41913			1.3	94	3	228	6.70	1196	3	14	231	<5
D2 41914			0.7	122	4	111	6.67	1062	2	14	287	<5
D2 41915			0.7	93	4	164	7.31	1171	2	17	258	<5
D2 41916			0.9	125	2	102	7.49	1028	2	14	81	<5
D2 41917			0.6	70	5	92	7.52	1289	2	13	87	<5
D2 41918			3.5	79	19	285	7.95	769	2	13	1355	<5
D2 41919			0.6	57	3	63	6.57	973	2	11	43	<5
D2 41920			1.1	67	4	138	6.68	744	2	12	134	<5
D2 41921			1.1	55	4	101	6.25	980	2	13	137	<5
D2 41922			0.6	50	<1	102	5.65	915	4	13	66	<5
D2 41923			0.4	40	<1	168	6.28	749	1	11	65	<5
D2 41924			0.3	41	1	49	5.35	614	2	9	55	<5
D2 41925			0.5	56	<1	32	6.14	765	2	16	44	<5
D2 41926			0.6	46	4	82	5.29	950	2	12	117	<5
D2 41927			0.4	46	1	36	6.05	670	2	13	20	<5
D2 41928			1.2	60	<1	48	5.70	668	1	14	279	<5
D2 41929			0.9	51	<1	95	6.06	970	2	12	58	<5
D2 41930			0.6	49	2	209	5.86	985	2	11	148	<5
D2 41931			0.8	56	12	91	5.53	1059	1	12	631	<5
D2 41932			0.9	31	5	43	4.64	1106	1	11	250	<5
D2 41933			0.8	33	2	38	5.17	902	2	9	211	<5
D2 41934			5.2	51	30	83	6.57	314	2	12	1537	9
D2 41935			3.3	35	62	170	5.54	357	3	14	321	14
D2 41936			2.9	33	26	89	4.29	926	1	9	20	<5
D2 41937			1.1	34	10	81	4.02	993	2	8	77	<5
D2 41938			2.1	40	17	67	5.37	1194	1	10	181	5
D2 41939			31.0	45	61	265	4.81	1125	1	11	104	15
D2 41940			8.0	45	10	263	7.17	740	6	11	19	<5
D2 41941			>50.0	45	65	259	4.31	1402	<1	9	209	16
D2 41942			>50.0	37	4	56	4.53	1416	2	10	4	<5

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Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: V89-06171.0

DATE PRINTED: 6-OCT-89

PROJECT: 89BC019 PAGE 3B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
D2 41903		216	15
D2 41904		828	30
D2 41905		1416	80
D2 41906		590	75
D2 41907		710	90
D2 41908		649	50
D2 41909		1146	120
D2 41910		313	35
D2 41911		545	60
D2 41912		377	20
D2 41913		410	30
D2 41914		583	25
D2 41915		578	30
D2 41916		174	10
D2 41917		279	10
D2 41918		1884	80
D2 41919		234	<5
D2 41920		429	15
D2 41921		441	10
D2 41922		145	15
D2 41923		150	5
D2 41924		107	5
D2 41925		129	10
D2 41926		300	10
D2 41927		126	10
D2 41928		137	5
D2 41929		159	5
D2 41930		346	25
D2 41931		1316	60
D2 41932		525	30
D2 41933		262	55
D2 41934		3467	240
D2 41935		7235	490
D2 41936		3078	270
D2 41937		1150	80
D2 41938		2015	130
D2 41939		7489	510
D2 41940		1283	95
D2 41941		7897	850
D2 41942		575	185

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Geochemical Lab Report

REPORT: V89-06171.0

DATE PRINTED: 6-OCT-89

PROJECT: 89BC019 PAGE 4B

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Hg PPB
D2 41943		3106	170
D2 41944		2115	80
D2 41945		1258	50
D2 41946		5943	325
D2 41947		240	10
D2 41948		314	20
D2 41949		7368	260
D2 41950		1032	70
D2 41951		>20000	3700
D2 41952		2480	120
D2 41953		341	40
D2 41954		>20000	>5000
D2 41955		3632	390
D2 41956		264	210
D2 41957		2150	170
D2 41958		1357	80
D2 41959		2461	150
D2 41960		12962	530
D2 41961		1764	110
D2 41962		1748	110

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Certificate of Analysis

REPORT: V89-05374.5

DATE PRINTED: 5-OCT-89
PROJECT: 89BC019 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	WT G	WT-150 G	WT+150 G	Au-150 GMT	Au+150 GMT	Au+150 MG	Au TOT GMT
D2 101029		29.17	293.7	0.61	1.75	480.3	0.293	2.74
D2 101031		29.17	310.0	1.37	2.43	21.2	0.029	2.52
D2 101047		29.17	201.4	1.14	1.47	11.4	0.013	1.53

Registered Assayer, Province of British Columbia

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Geochemical Lab Report

REPORT: V89-06171.1

DATE PRINTED: 15-OCT-89

PROJECT: 89BC019 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Au PPB
D2 41901		34	D2 41941		4922
D2 41902		18	D2 41942		9311
D2 41903		28	D2 41943		444
D2 41904		112	D2 41944		274
D2 41905		226	D2 41945		204
D2 41906		263	D2 41946		348
D2 41907		287	D2 41947		178
D2 41908		356	D2 41948		151
D2 41909		81	D2 41949		154
D2 41910		152	D2 41950		130
D2 41911		129	D2 41951		4281
D2 41912		337	D2 41952		190
D2 41913		165	D2 41953		804
D2 41914		45	D2 41954		>10000
D2 41915		68	D2 41955		7944
D2 41916		125	D2 41956		238
D2 41917		85	D2 41957		277
D2 41918		452	D2 41958		238
D2 41919		68	D2 41959		143
D2 41920		74	D2 41960		221
D2 41921		67	D2 41961		326
D2 41922		44	D2 41962		238
D2 41923		13			
D2 41924		10			
D2 41925		28			
D2 41926		14			
D2 41927		20			
D2 41928		54			
D2 41929		50			
D2 41930		25			
D2 41931		12			
D2 41932		22			
D2 41933		32			
D2 41934		190			
D2 41935		172			
D2 41936		187			
D2 41937		73			
D2 41938		146			
D2 41939		2486			
D2 41940		541			

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REPORT: V89-06097.6

DATE PRINTED: 27-SEP-89

PROJECT: 89BC019 PAGE 1

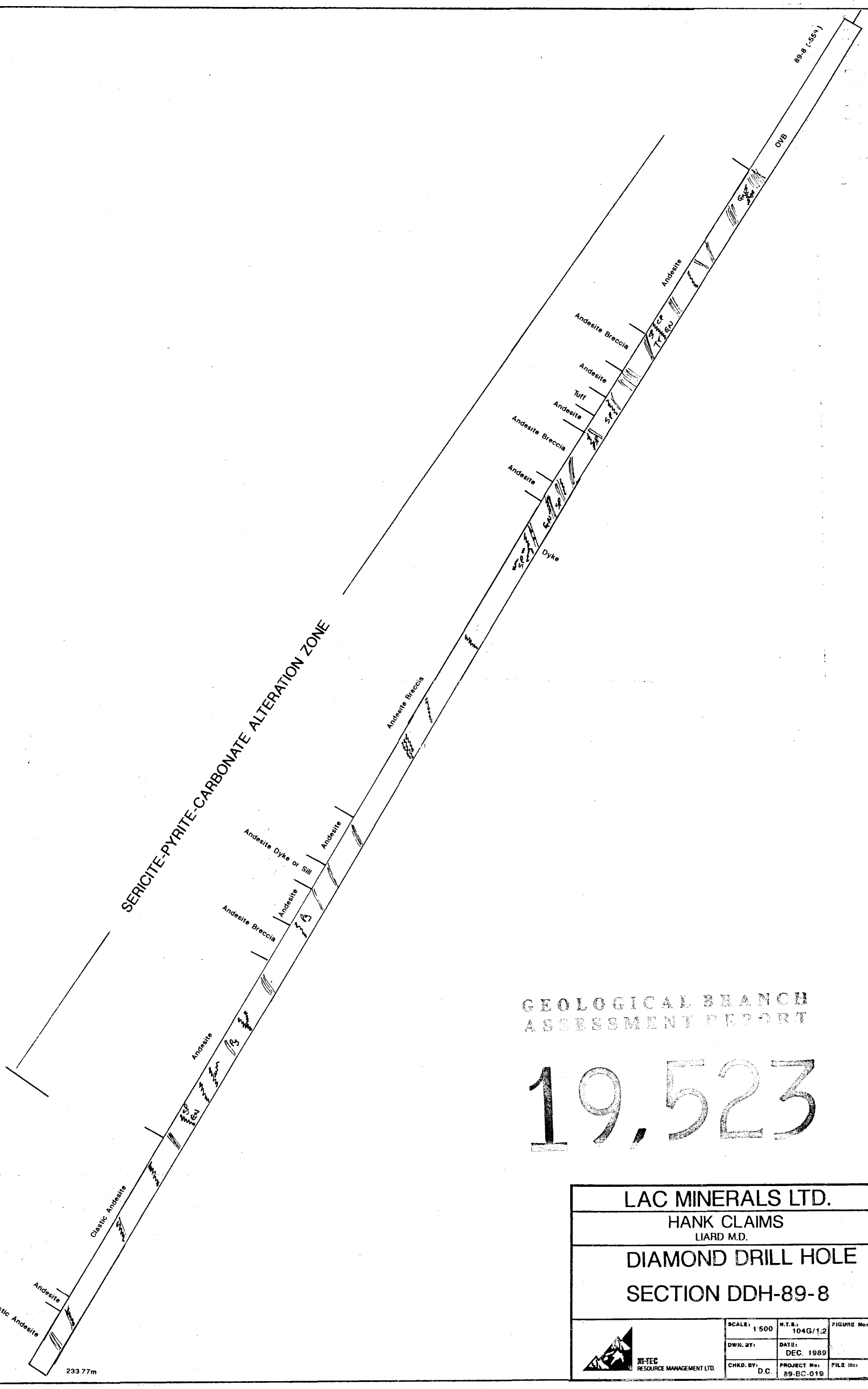
SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT	Pb PCT	Zn PCT
R2 89HANK-5139		0.41			
R2 89HANK-5157		0.27			
R2 89HANK-5159		1.20			
R2 89HANK-5161		2.06	1.40		
R2 89HANK-5163		0.93			
D2 41548		1.37			
D2 41554		0.27			
D2 41558		0.99			
D2 41559		0.27			
D2 41563		0.38			
D2 41566		0.24			
D2 41567		0.79			
D2 41582		0.21			
D2 41587		0.21			
D2 41588		1.47		1.39	3.51
D2 41590		0.21			
D2 41594		0.45			
D2 41597		0.31			
D2 41598		0.17			
D2 41599		0.21			
D2 41600		0.99			
D2 41608		0.65			
D2 41609		2.02	2.07	1.18	

Registered Assayer, Province of British Columbia

APPENDIX IVc

GEOLOGICAL CROSS-SECTIONS FOR

DIAMOND DRILL HOLES



LAC MINERALS LTD.

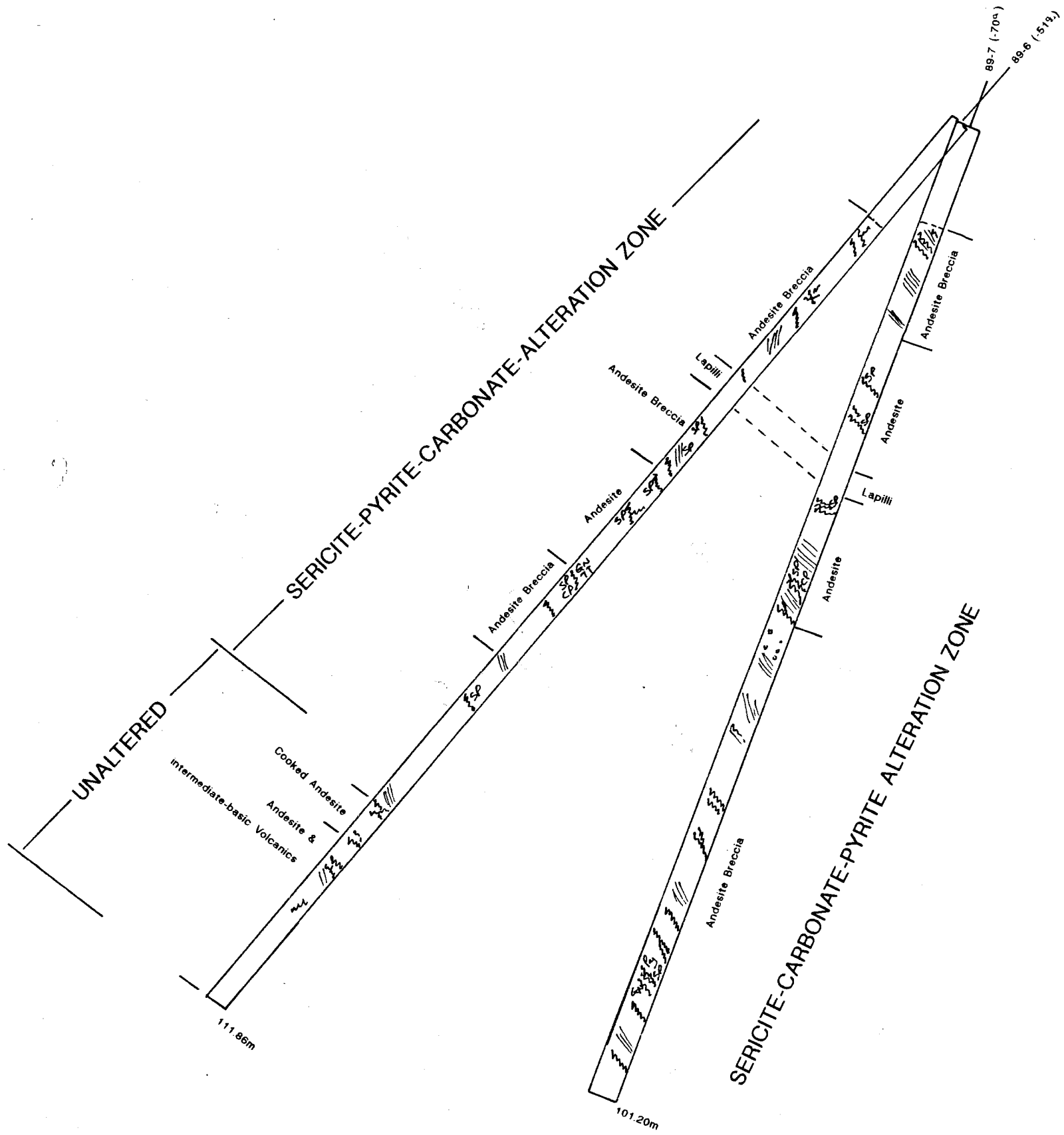
HANK CLAIMS

LIARD M.D.

DIAMOND DRILL HOLE

SECTION DDH-89-8

MINTEC RESOURCE MANAGEMENT LTD.	SCALE: 1:500	N.T.S.: 104G/1;2	FIGURE No:
	DWN. BY:	DATE: DEC. 1989	
	CHKD. BY: D.C.	PROJECT No: 89-BC-019	FILE No:



LAC MINERALS LTD.

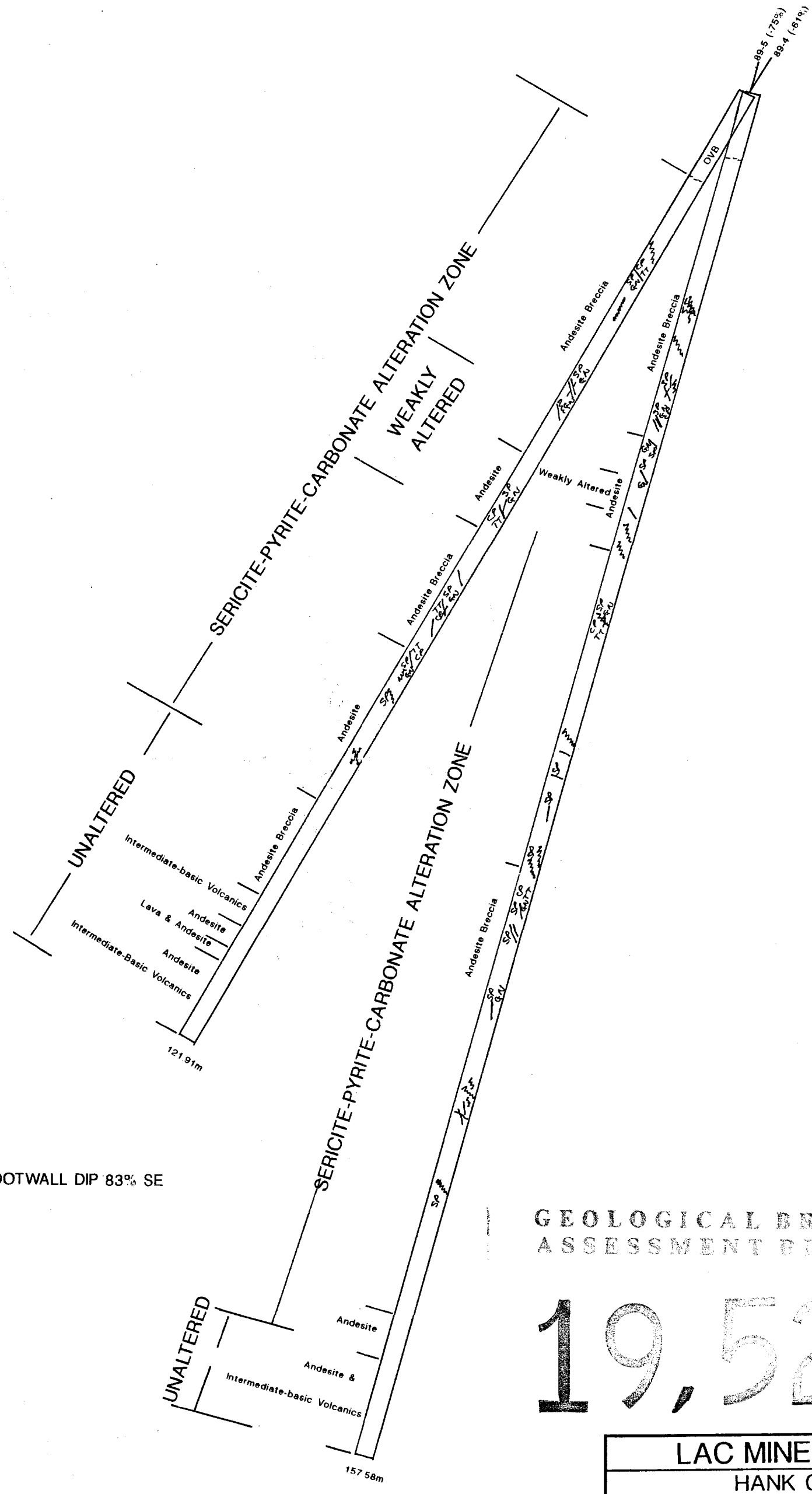
HANK CLAIMS

LIARD M.D.

DIAMOND DRILL HOLE

SECTION DDH-89-6,7

MI-TEC RESOURCE MANAGEMENT LTD.	SCALE: 1:500	N.T.S.: 104G/1,2	FIGURE No:
	DWN. BY:	DATE: DEC. 1989	
	CHKD. BY: D.C.	PROJECT No: 89-BC-019	FILE No:



ALTERATION ZONE FOOTWALL DIP 83% SE

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,523

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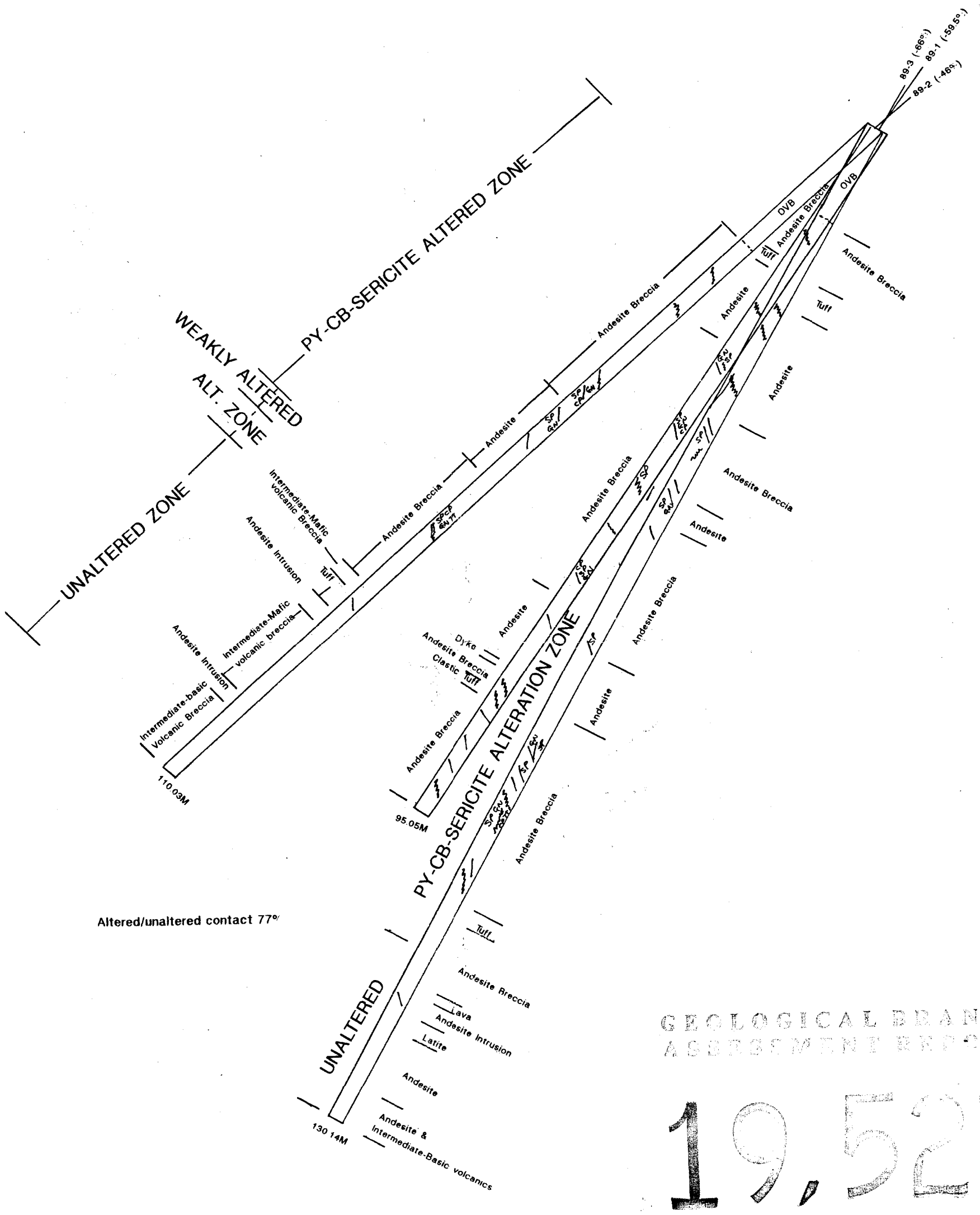
HANK CLAIMS
LIARD M.D.

DIAMOND DRILL HOLE
SECTION DDH-89- 4,5

M-TEC RESOURCE MANAGEMENT LTD.	SCALE: 1:500	N.T.S.: 104G/1.2	FIGURE No:
	DWN. BY:	DATE: DEC. 1989	
	CHKD. BY: D.C.	PROJECT No: 89-BC-019	FILE No:



LAC MINERALS LTD.

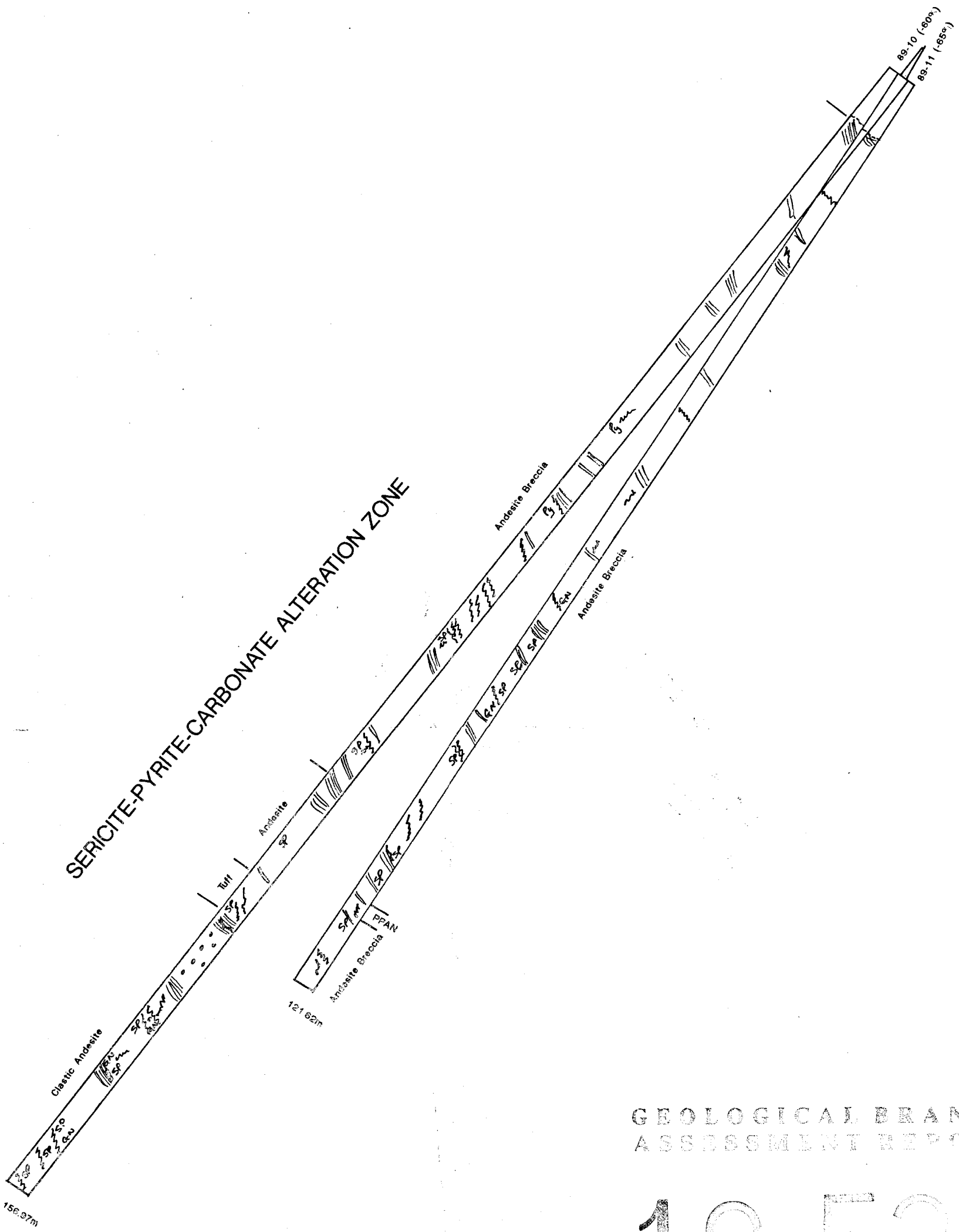
HANK CLAIMS

LIARD M.D.

DIAMOND DRILL HOLE

SECTION DDH-89-1,2,3

MI-TEC RESOURCE MANAGEMENT LTD.	SCALE: 1:500	N.T.S.: 104G/1,2	FIGURE No:
	DWN. BY:	DATE: DEC. 1989	
	CHKD. BY: D.C.	PROJECT No: 89-BC-019	FILE No:



LAC MINERALS LTD.

HANK CLAIMS

LIARD M.D.

DIAMOND DRILL HOLE

SECTION DDH-89-10,11

MI-TEC RESOURCE MANAGEMENT LTD.	SCALE: 1:500	N.T.S.: 104G/1.2	FIGURE No:
	DWN. BY:	DATE: DEC. 1989	
	CHKD. BY: D.C.	PROJECT No: 89-BC-019	FILE No:

APPENDIX V

STATISTICAL DATA FOR DIAMOND DRILL HOLES

CORRELATION COEFFICIENTS

	Au	Ag	As	Pb	Cu	Zn	Sb
Au	1.000	0.003	-0.144	0.029	0.111	0.0002	-0.036
Ag		1.000	-0.322	0.275	0.187	0.450	0.017
As			1.000	0.127	-0.209	-0.008	0.358
Pb				1.000	0.317	0.371	-0.028
Cu					1.000	0.111	-0.057
Zn						1.000	0.291
Sb							1.000

Rating:					
		0.000	to	(+/-) 0.300	Weak
	(+/-)	0.301	to	(+/-) 0.550	Slight
	(+/-)	0.551	to	(+/-) 0.800	Moderate
	(+/-)	0.801	to	(+/-) 1.000	Strong

SQUARES OF CORRELATION COEFFICIENTS
(To express the interaction in percentile)

	Au	Ag	As	Pb	Cu	Zn	Sb
Au	100.0	0.00	2.00	0.08	1.20	0.00	0.10
Ag		100.0	10.30	7.50	3.40	20.20	0.02
As			100.0	1.60	4.30	0.00	12.80
Pb				100.0	10.00	13.70	0.07
Cu					100.0	1.20	0.30
Zn						100.0	8.40
Sb							100.0

Rating:			
	0.0%	to 9.0%	Weak
	9.1%	to 30.2%	Slight
	30.3%	to 64.0%	Moderate
	64.0%	to 100.0%	Strong

file: DDH03

COMMAND: CORR

*** CORRELATION MATRIX ***

VARIABLES:

1	___AU	1.00000								
2	___AG	0.78953	1.00000							
3	___AS	0.33374	0.14339	1.00000						
5	___CU	0.43517	0.60955	0.11270	1.00000					
9	___PB	0.59060	0.38332	0.04325	0.36044	1.00000				
10	___SB	0.09062	0.03778	0.30021	0.19210	0.15651	1.00000			
11	___ZN	0.33047	0.39053	0.11630	0.51518	0.59480	0.27507	1.00000		
12	___HG	0.39984	0.52037	0.20124	0.65333	0.55856	0.21846	0.85241	1.00000	
		1 ___AU	2 ___AG	3 ___AS	5 ___CU	9 ___PB	10 ___SB	11 ___ZN	12 ___HG	

DATA SET HAS 70 VALID CASES

file: DDH5

COMMAND: CORR MISSING VALUE TREATMENT: PAIRWISE

(NUMBER OF VALID CASES APPEARS UNDER COEFFICIENT)

*** CORRELATION MATRIX ***

VARIABLES:								
1 ___AU	1.00000							
4 ___AG	0.80684	1.00000						
	99							
5 ___AS	0.24298	0.27142	1.00000					
	99	99						
7 ___CU	0.41253	0.73009	0.22331	1.00000				
	99	99	99					
12 ___PB	0.28501	0.59066	0.28103	0.51826	1.00000			
	99	99	99	99				
15 ___ZN	0.54771	0.76904	0.24111	0.72647	0.80744	1.00000		
	99	99	99	99	99			
17 ___HG	0.67426	0.70874	0.21562	0.60232	0.54674	0.79736	1.00000	
	99	99	99	99	99	99		
	1 ___AU	4 ___AG	5 ___AS	7 ___CU	12 ___PB	15 ___ZN	17 ___HG	

file: DDH8

COMMAND: CORR MISSING VALUE TREATMENT: PAIRWISE

(NUMBER OF VALID CASES APPEARS UNDER COEFFICIENT)

*** CORRELATION MATRIX ***

VARIABLES:	1 ___AU	4 ___AG	5 ___AS	7 ___CU	12 ___PB	15 ___ZN	17 ___HG
1 ___AU	1.00000						
4 ___AG	0.65649 108	1.00000					
5 ___AS	0.19436 108	0.31615 108	1.00000				
7 ___CU	0.52377 108	0.82129 108	0.27440 108	1.00000			
12 ___PB	0.60405 108	0.95775 108	0.24798 108	0.78748 108	1.00000		
15 ___ZN	0.68876 108	0.96614 108	0.24435 108	0.81411 108	0.97404 108	1.00000	
17 ___HG	0.64203 108	0.69587 108	0.24986 108	0.50025 108	0.70225 108	0.68426 108	1.00000

file: DDH9

COMMAND: CORR MISSING VALUE TREATMENT: PAIRWISE

(NUMBER OF VALID CASES APPEARS UNDER COEFFICIENT)

*** CORRELATION MATRIX ***

VARIABLES:							
1 ___AU	1.00000						
3 ___AG	0.61028	1.00000					
	139						
4 ___AS	0.30069	0.15349	1.00000				
	139	139					
6 ___CU	0.14071	0.43681	0.23547	1.00000			
	139	139	139				
11 ___PB	0.37140	0.49179	0.33201	0.73281	1.00000		
	139	139	139	139			
14 ___ZN	0.32045	0.48723	0.28440	0.79607	0.97323	1.00000	
	139	139	139	139	139		
15 ___HG	0.33696	0.44993	0.29271	0.61175	0.92655	0.93090	1.00000
	139	139	139	139	139	139	
	1 ___AU	3 ___AG	4 ___AS	6 ___CU	11 ___PB	14 ___ZN	15 ___HG

file: DDH10

COMMAND: CORR MISSING VALUE TREATMENT: PAIRWISE

(NUMBER OF VALID CASES APPEARS UNDER COEFFICIENT)

*** CORRELATION MATRIX ***

VARIABLES:							
1 ___AU	1.00000						
4 ___AG	0.89695	1.00000					
	78						
5 ___AS	0.28289	0.35093	1.00000				
	78	78					
7 ___CU	0.64014	0.82096	0.36808	1.00000			
	78	78	78				
12 ___PB	0.53475	0.77768	0.46532	0.80325	1.00000		
	78	78	78	78			
15 ___ZN	0.31172	0.52525	0.34900	0.46546	0.74579	1.00000	
	78	78	78	78	78		
17 ___HG	0.63837	0.85032	0.46994	0.89479	0.91416	0.69623	1.00000
	78	78	78	78	78	78	
	1 ___AU	4 ___AG	5 ___AS	7 ___CU	12 ___PB	15 ___ZN	17 ___HG

file: DH11

COMMAND: CORR MISSING VALUE TREATMENT: PAIRWISE

(NUMBER OF VALID CASES APPEARS UNDER COEFFICIENT)

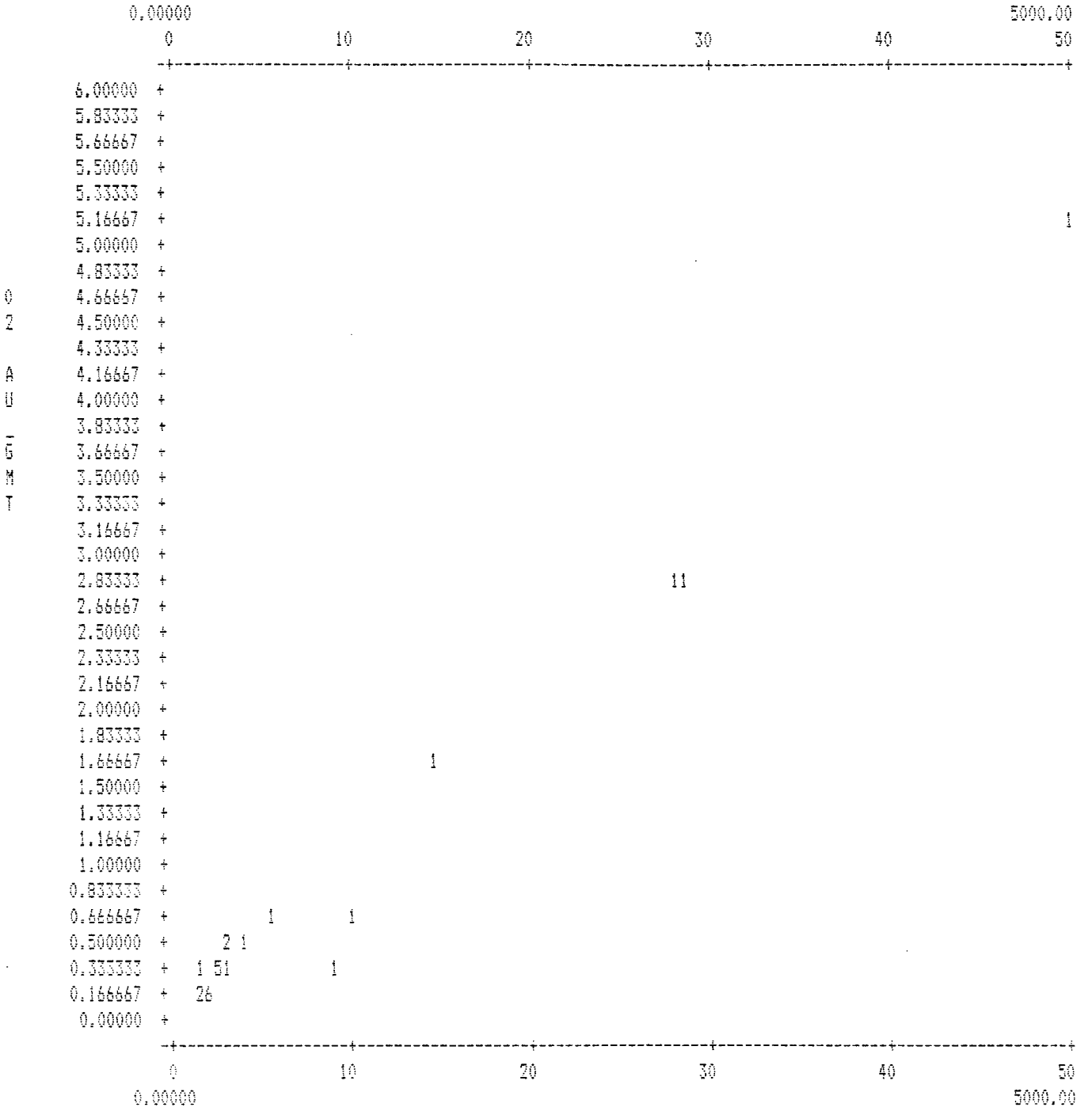
*** CORRELATION MATRIX ***

VARIABLES:								
1	AU_PPB	1.00000						
5	___AG	0.96078	1.00000					
		61						
6	___AS	0.28131	0.14199	1.00000				
		61	62					
8	___CU	0.62370	0.47123	0.57185	1.00000			
		61	62	62				
13	___PB	0.33113	0.24422	0.53732	0.65050	1.00000		
		61	62	62	62			
15	___ZN	0.53418	0.61430	0.29859	0.61680	0.41441	1.00000	
		61	62	62	62	62		
17	___HG	0.65809	0.65060	0.41851	0.83087	0.53072	0.88276	1.00000
		61	62	62	62	62	62	
		1 AU_PPB	5 ___AG	6 ___AS	8 ___CU	13 ___PB	15 ___ZN	17 ___HG

```
file: HISTDDH



COMMAND: HIST     MISSING VALUE TREATMENT: VARWISE

VARIABLE:   1 AU        AUTO/29

AT LEAST       2.00000             10         20         30         40         50         60         70         80         90
BUT NOT OVER:  FREQ     %    +----------+----------+----------+----------+----------+----------+----------+----------+----------+
     323.000   668   83.6   IXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
     644.000    62    7.8   IXXXXXXXXX
     965.000    20    2.5   IXXX
     1286.00    13    1.6   IXX
     1607.00    13    1.6   IXX
     1928.00     2    0.3   I
     2249.00     1    0.1   I
     2570.00     4    0.5   IX
     2891.00     5    0.6   IX
     3212.00     0   00.0   I
     3533.00     2    0.3   I
     3854.00     1    0.1   I
     4175.00     0   00.0   I
     4496.00     2    0.3   I
     4817.00     0   00.0   I
     5138.00     1    0.1   I
     5459.00     1    0.1   I
     5780.00     1    0.1   I
     6101.00     1    0.1   I
     6422.00     0   00.0   I
     6743.00     0   00.0   I
     7064.00     0   00.0   I
     7385.00     0   00.0   I
     7706.00     0   00.0   I
     8027.00     1    0.1   I
     8348.00     0   00.0   I
     8669.00     0   00.0   I
     8990.00     0   00.0   I
     9311.00     1    0.1   I
                             +----------+----------+----------+----------+----------+----------+----------+----------+----------+
       TOTAL   799  100.0              10         20         30         40         50         60         70         80         90
```

File: DDH01

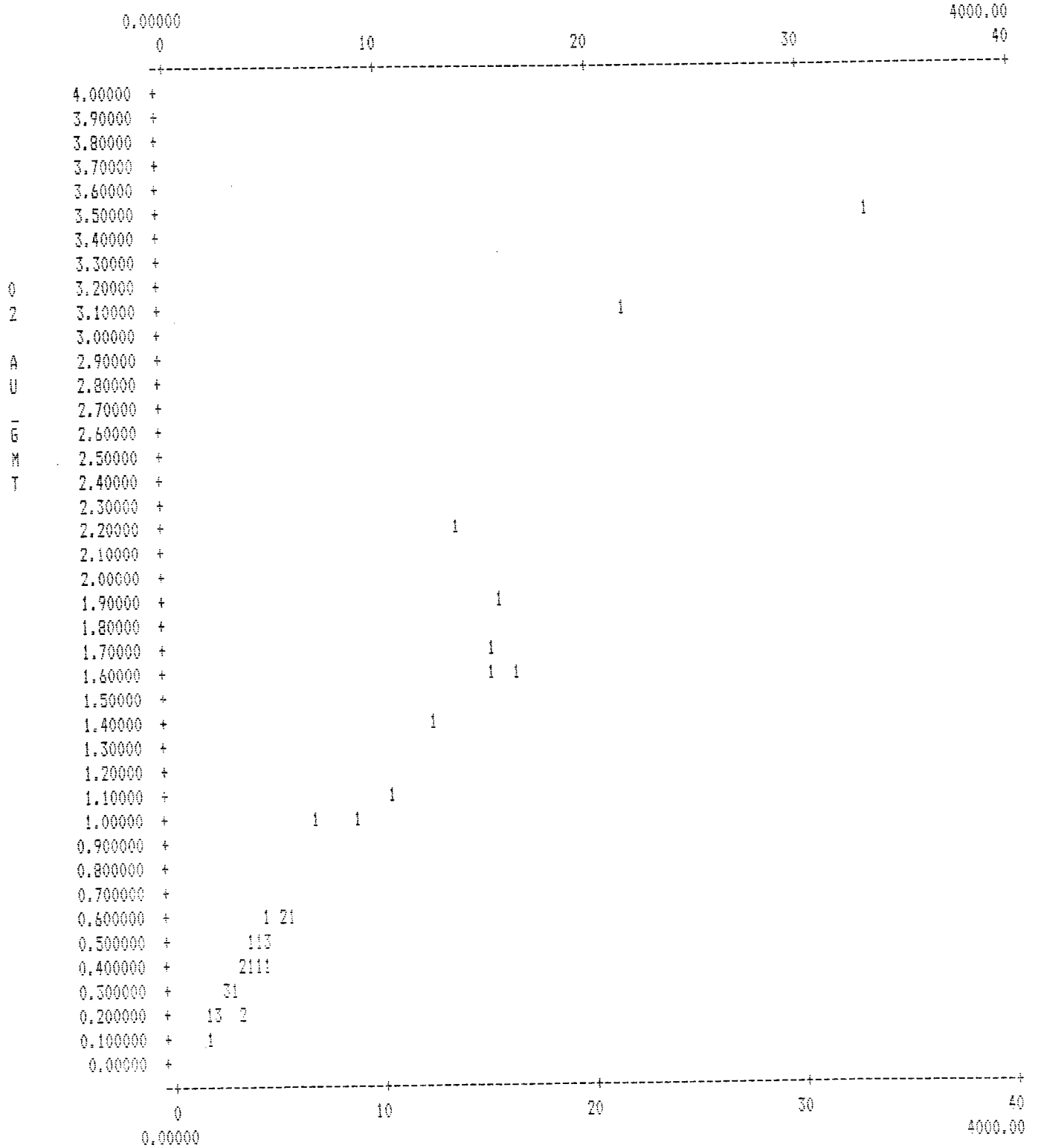
COMMAND: PLOT MISSING VALUE TREATMENT: LISTWISE



TOTAL POINTS PLOTTED:25 1 AU_PPB

file: DDH03

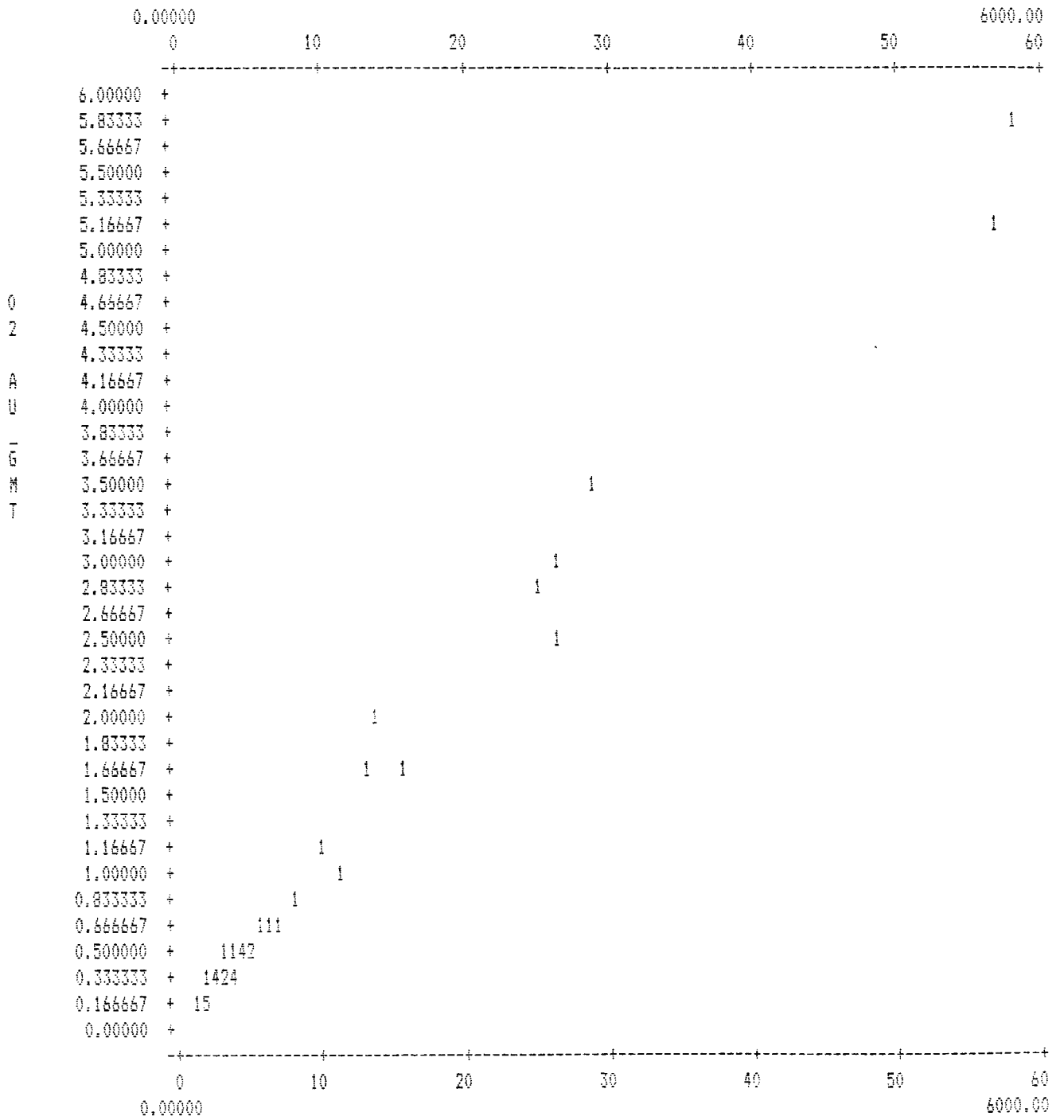
COMMAND: PLOT MISSING VALUE TREATMENT: LISTWISE



TOTAL POINTS PLOTTED:36 1 AU_PPB

File: DDH05

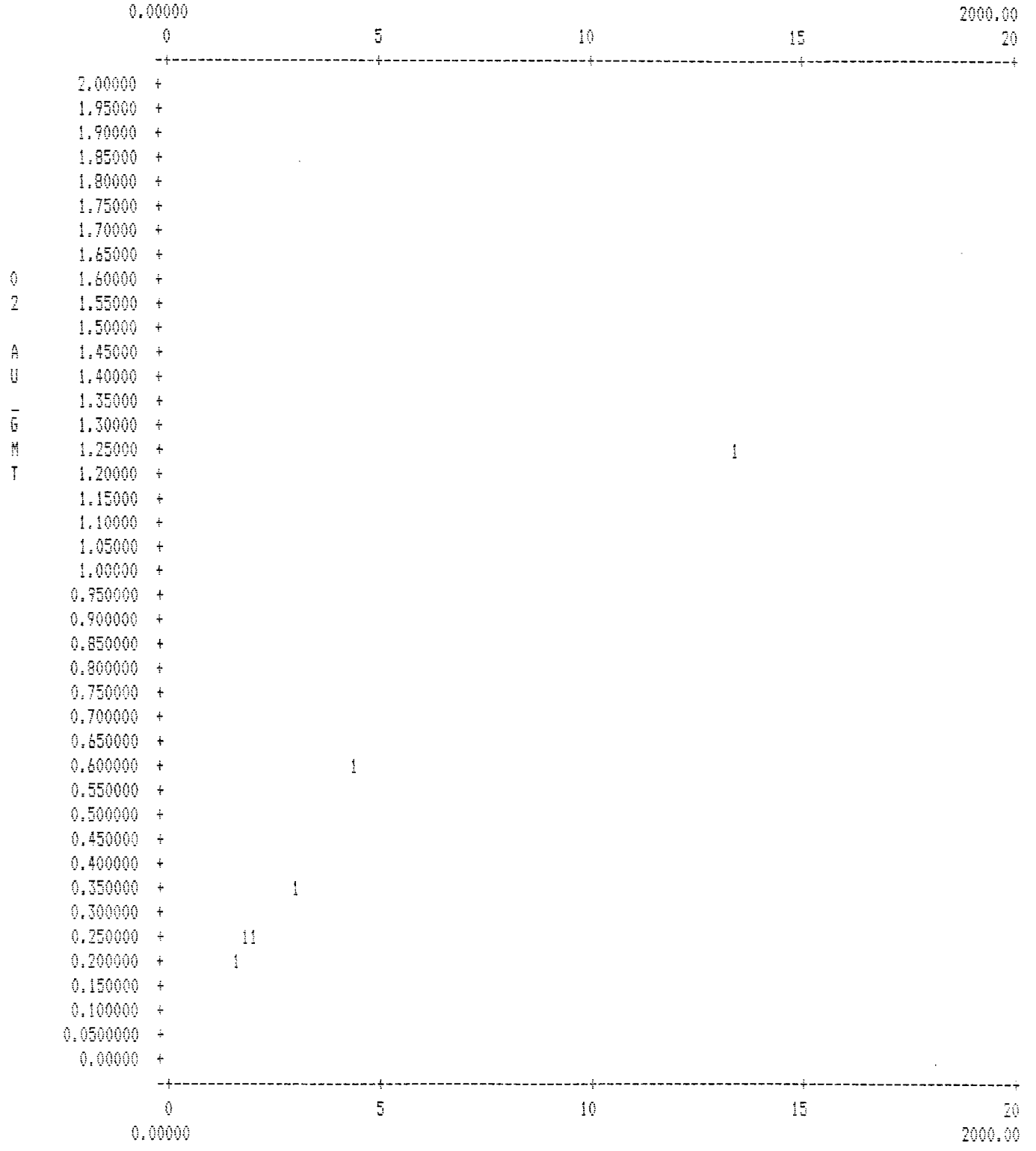
COMMAND: PLOT MISSING VALUE TREATMENT: LISTWISE



TOTAL POINTS PLOTTED:40 1 AU_PPB

File: DDH06

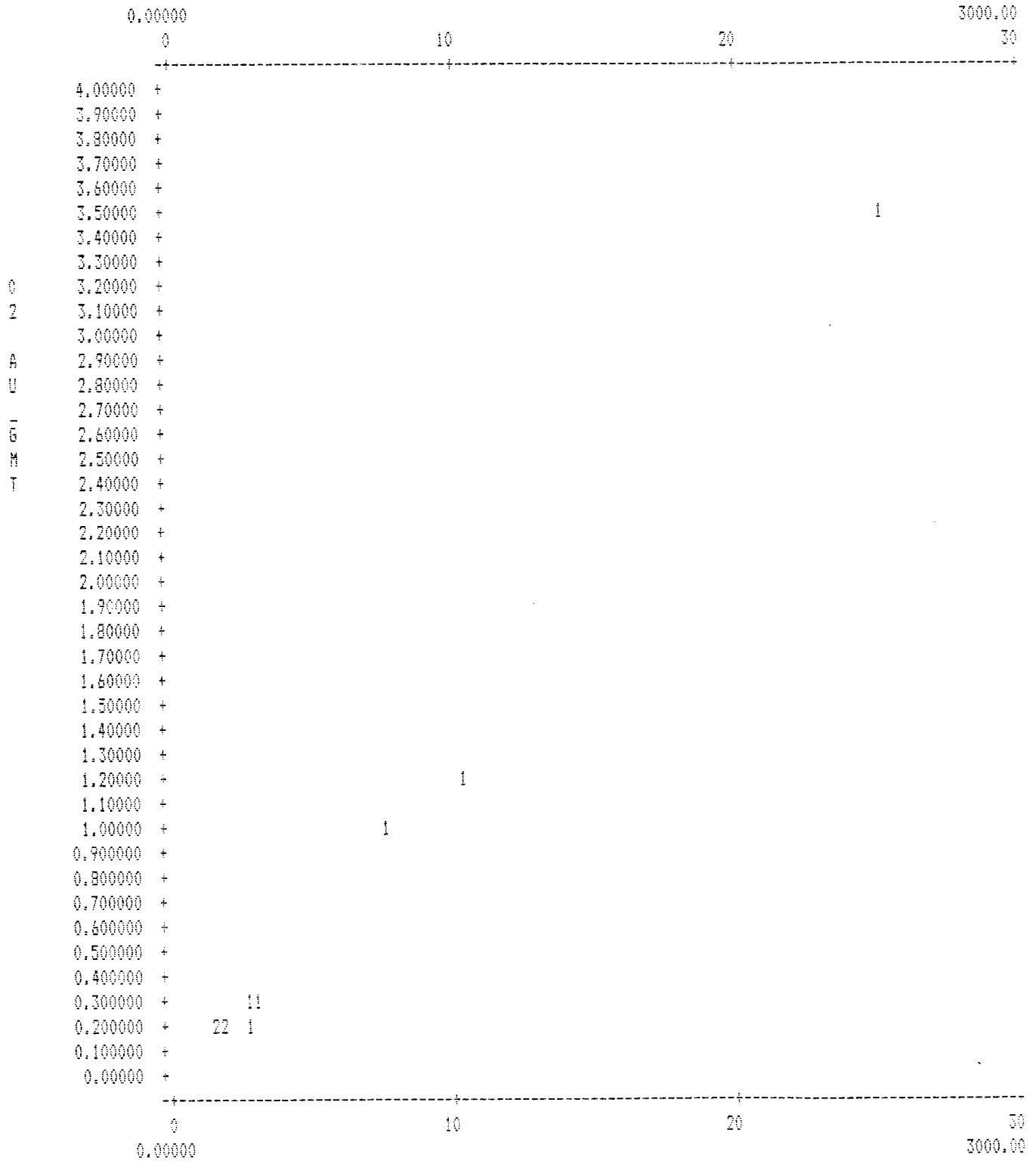
COMMAND: PLOT MISSING VALUE TREATMENT: LISTWISE



TOTAL POINTS PLOTTED:6 1 AU_PPB

file: DDH07

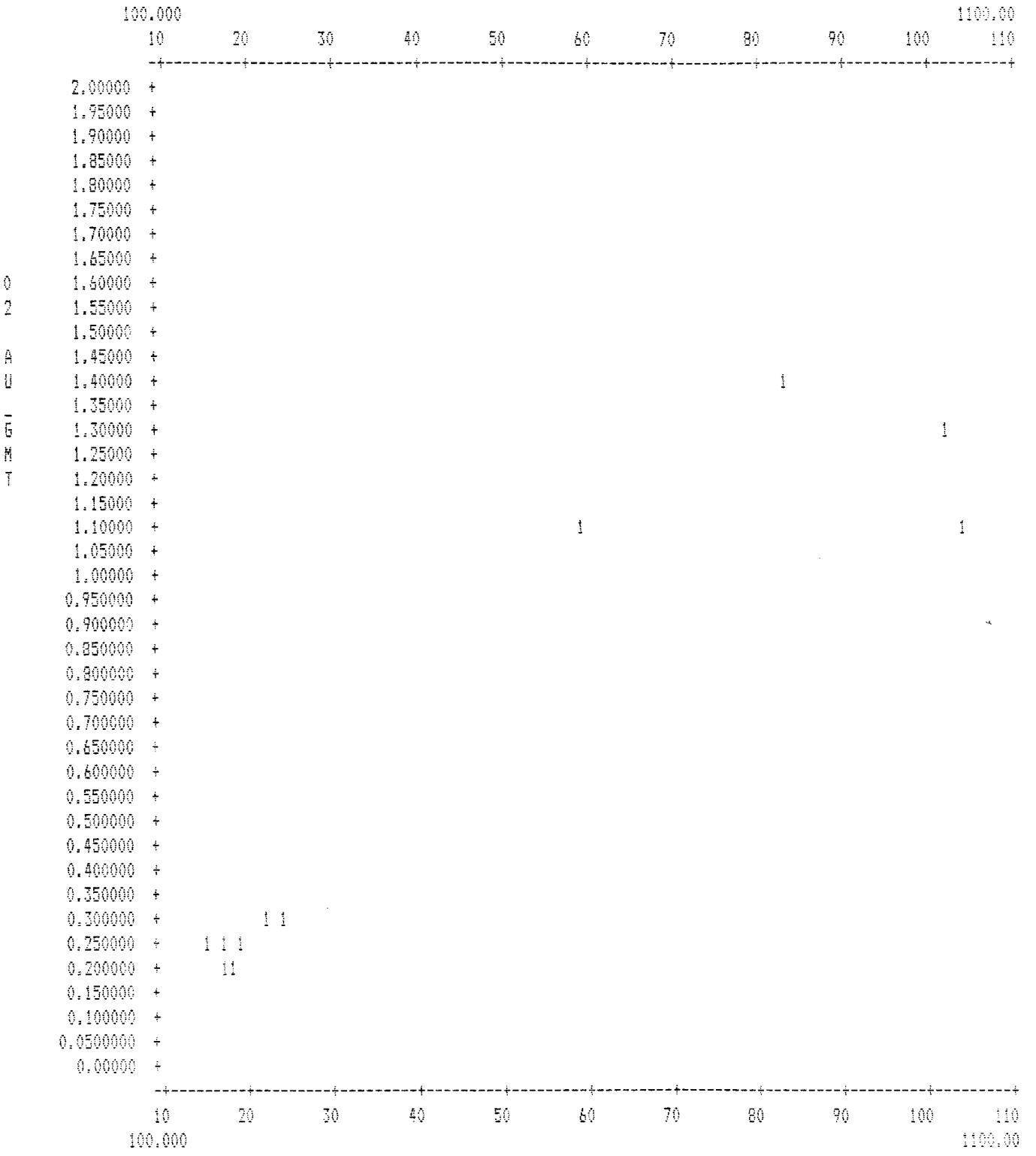
COMMAND: PLOT MISSING VALUE TREATMENT: LISTWISE



TOTAL POINTS PLOTTED:10 1 AU_PPB

file: DDH08

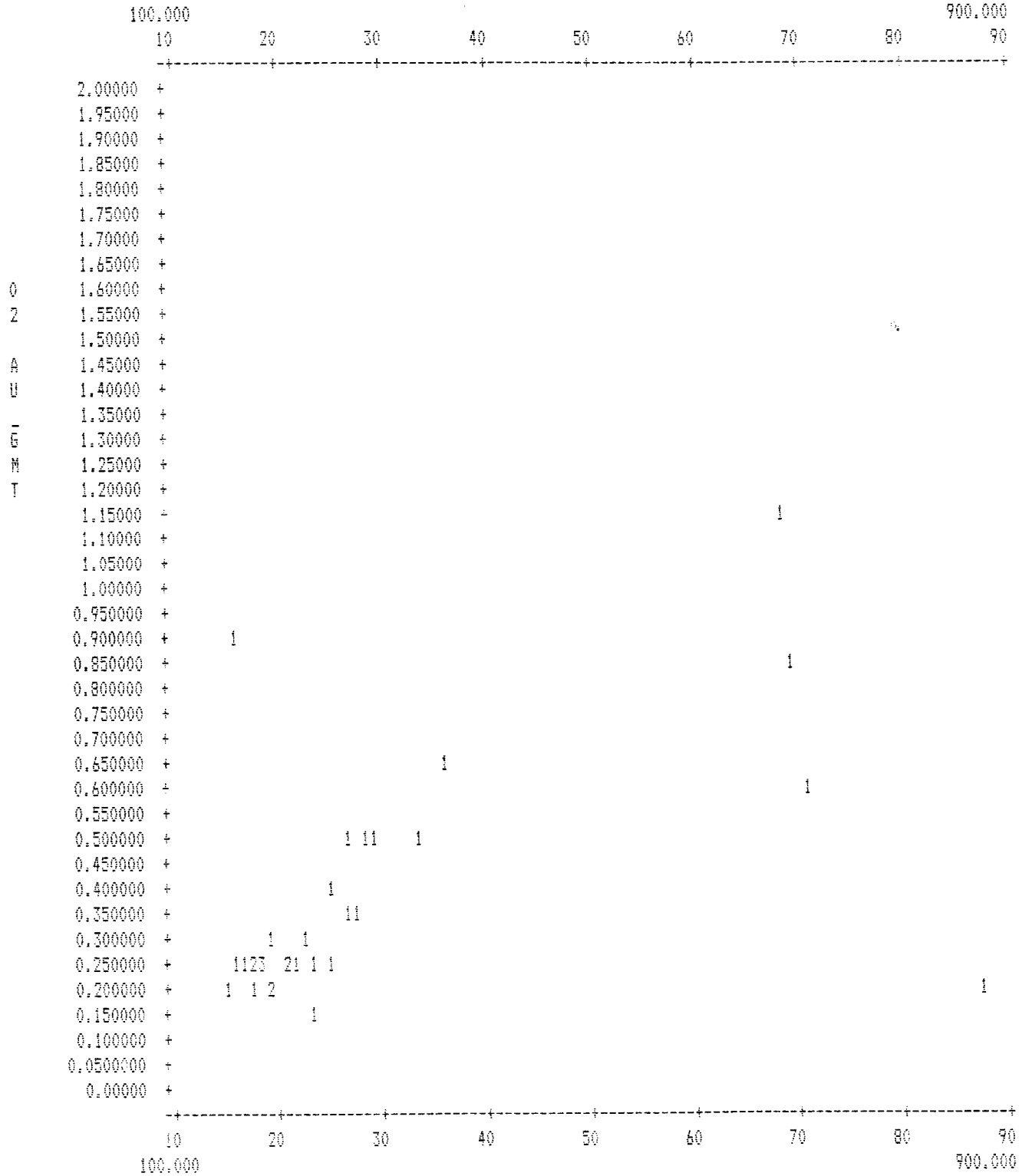
COMMAND: PLOT MISSING VALUE TREATMENT: LISTWISE



TOTAL POINTS PLOTTED:11 1 AU_PPB

file: DDH09

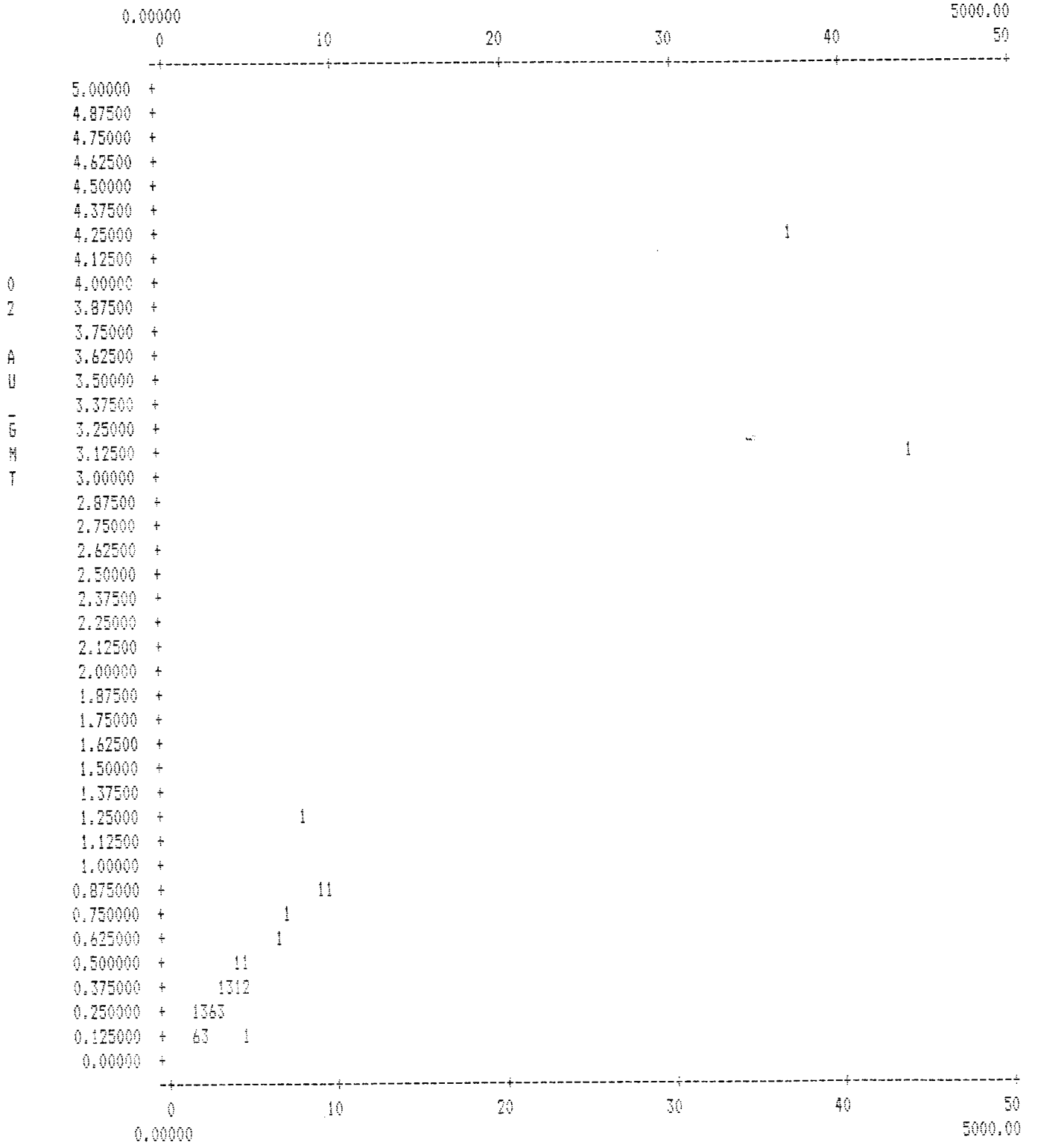
COMMAND: PLOT MISSING VALUE TREATMENT: LISTWISE



TOTAL POINTS PLOTTED:32 1 AU_PPB

file: DDH10

COMMAND: PLOT MISSING VALUE TREATMENT: LISTWISE



TOTAL POINTS PLOTTED:39 1 AU_PPB

APPENDIX VI

SURVEY POINT DESCRIPTIONS AND SURVEY DATA

HANK CLAIMS SURVEY DATA: HI-TEC project No. 89-BC-019

Point	Northing	Easting	Elevation	Description
2	10670.136	10162.749	1116.820	89-1
	10670.236	10162.349	1116.820	89-2
	10670.036	10163.149	1116.820	89-3
3	10645.542	10132.445	1110.010	89-4
	10645.342	10132.645	1110.010	89-5
4	10573.316	10073.404	1103.950	89-6
	10573.116	10073.604	1103.950	89-7
5	10545.493	10039.778	1097.350	88-22
6	10454.401	10037.800	1114.040	89-8.
9	10624.119	10424.709	1214.140	88-6
17	11017.406	10434.765	1124.170	89-9.
18	11084.152	10424.19	1107.080	On Ck 7 galena vein trench
24	10230.807	10999.167	1470.310	85-2
26	10269.439	10994.260	1473.840	85-21
27	10345.764	11089.112	1492.710	85-23
28	10252.738	11128.948	1514.350	85-29
30	10433.545	11309.328	1542.100	85-33
34	11347.327	10645.748	1121.510	88-14
35	11449.180	10697.300	1105.270	89-10
	11448.980	10697.500	1105.270	89-11
36	11378.214	10892.921	1142.680	88-21
39	11118.137	10422.858	1093.750	88-10,12
69	9715.732	10424.200	1399.120	88-9
180	10653.705	10240.051	1163.300	88-19
200	11303.470	10000.000	912.310	Hank 1,2,3 LCP
	10460.593	10124.678	1157.350	88-2
	10898.606	10451.465	1159.170	88-8
	10668.142	10143.845	1110.010	87-3
	10667.842	10144.445	1113.010	87-4

Additional points relate to topographic features and are shown on Figure 4 of the current report.

List Points

Point	Northing	Easting	Elevation	Description
Scale :	1.000000	Z Shift :	.000000	
N Shift :	.000000	E Shift :	.000000	
1	10805.573	10271.612	1119.330	Pt
2	10671.536	10159.049	1116.820	Pt
3	10638.442	10125.345	1110.010	Pt
4	10571.116	10075.604	1103.950	PT
5	10545.493	10039.778	1097.350	Pt
6	10463.301	10042.300	1114.040	Pt
7	10766.986	10420.048	1176.490	PT
8	12803.470	10000.000	.000	Pt
9	10624.119	10424.709	1214.140	PT
10	10599.917	9858.388	1033.010	Pt
11	10539.533	10444.413	1229.440	Pt
12	10285.833	10339.305	1243.020	Pt
13	10194.906	10421.176	1285.140	Pt
14	10812.689	10470.504	1188.810	Pt
15	10133.884	10347.338	1285.700	Pt
16	10805.947	10412.453	1168.790	Pt
17	11017.406	10434.765	1124.170	Pt
18	11084.152	10424.190	1107.080	PT
19	11165.540	10444.018	1095.440	pt
20	11271.173	10546.369	1099.980	PT
21	10083.740	10403.878	1321.220	PT
22	10043.899	10436.249	1349.150	Pt
23	10230.656	10877.575	1463.800	Pt
24	10320.807	10999.167	1470.310	Pt
25	12803.470	13000.000	.000	Pt
26	10269.439	10994.260	1473.840	Pt
27	10345.764	11089.112	1492.710	Pt
28	10252.738	11128.948	1514.350	pt
29	10243.073	11171.950	1530.230	Pt
30	10433.545	11309.328	1542.100	Pt
31	10121.057	11042.475	1497.120	Pt
32	10205.408	11110.967	1516.610	Pt
33	11303.470	13000.000	.000	Pt
34	11347.327	10645.748	1121.510	Pt
35	11449.180	10697.300	1105.270	Pt
36	11482.648	10877.947	1142.680	Pt
37	11303.470	8000.000	.000	Pt
38	11247.943	10559.007	1105.550	Pt
39	11169.123	10441.710	1093.750	Pt
40	11132.139	10778.525	1200.600	Pt
41	11414.283	10629.829	1094.410	Pt
42	11341.210	10718.688	1147.500	Pt
43	11313.491	10735.223	1154.050	Pt
44	10760.809	10431.679	1184.950	Pt
45	8803.470	8000.000	.000	
46	8803.470	10000.000	.000	
47	8803.470	12000.000	.000	
48	11303.470	12000.000	.000	
52	10671.012	9351.447	930.800	rebar, camp1
53	10737.425	9458.905	935.350	
54	10782.318	9435.089	927.000	
55	11324.493	10032.320	914.300	
56	10457.526	11368.860	1549.950	
57	10482.220	11391.444	1550.510	
58	10535.271	11442.474	1569.070	
59	10611.710	11518.761	1579.270	
60	10293.631	11219.540	1533.310	

59	10611.710	11518.761	1579.270
60	10293.631	11219.540	1533.310
61	10226.488	11145.297	1525.540

Point	Northing	Easting	Elevation	Description
62	9897.028	11174.357	1516.600	
63	9894.043	11077.445	1497.270	
64	10060.944	11032.939	1488.630	
65	9957.979	11011.153	1471.060	
66	9768.552	10977.023	1442.560	
67	9574.159	10658.934	1451.670	
68	9552.627	10575.545	1423.890	
69	9776.596	10607.878	1399.120	
100	12605.053	9929.889	1400.000	12" spike
101	13064.369	9990.820	.000	Peak
150	9663.619	10677.130	.000	Peak
180	10686.424	10314.758	1163.300	Pt
198	10198.023	10719.427	1477.270	Wood hub #51
199	10198.252	10712.000	1476.520	12" spike
200	11303.470	10000.000	912.310	L.C.P.

APPENDIX VIIa

STATEMENT OF COSTS HI-TEC RESOURCE MANAGEMENT LTD.

STATEMENT OF COSTS

PROJECT 89BC019
HANK PROPERTY
Period of Field Work: July 10 - Sept.13, 1989

Salaries		
D.Collins, Snr.Geologist, 55.0 days @$300/day	$ 16,500.00	
Y.Ming So, Geologist, 61.0 days @$200/day	12,200.00	
J.Dahrouge, Tech. Phase 1, 37.0 days @$150/day	5,550.00	
J.Cooper, Cook Phase 1, 38.0 days @$150/day	5,700.00	
J.Dahrouge, Assistant Geologist Phase 2, 23.0 days @$200/day	4,600.00	
C.Rogers, Technician, 34.0 days @$150/day	5,100.00	
J.Himmelright, Technician, 34.0 days @$150/day	5,100.00	
P.Daigle, Technician, 61.0 days @$150/day	9,150.00	
J.Cooper, Cook Phase 2, 23.0 days @$170/day	3,910.00	$ 67,810.00
Project Expenses		
Project Preparation		5,483.20
Mobilization/demobilization		
Air Fares, salaries, domicile, truck rental, freight	13,179.82	
Helicopter Support 20.9 hours @$628/hour	13,125.20	26,305.02
Domicile		
Camp Rental		
279 man days @$16.72/man day(Ph.1)	4,664.88	
249 man days @$20.00/man day(Ph.2)	4,980.00	
Food		
For Hi-Tec crew 367 man days @$25.00/man day	9,175.00	
For Drillers 116 man days @$25.00/man day	2,900.00	
For LAC personnel 45 man days @$25.00/man day	1,125.00	22,844.88
Geochemistry		
Freight charges	943.84	
Hotel charges incurred delivering samples to Smithers	381.27	1,325.11
Drilling		
Helicopter and Fuel 38.6 hours @$628/hour	24,240.80	
Core shack and splitter 32 days @$30/day	960.00	25,200.80
Cat Access Route Selection and Examination		
Helicopter and fuel 10.3 Hours @$628/hour	6,468.40	
D.Collins Salary		
Field 2.00 man days @$300/man day	600.00	
Office 2.14 man days @$300/man day	642.00	
Miscellaneous expenses	79.42	7,789.82
Helicopter and fuel 48.5 Hours @$628/hour + 41.14 oil chge		30,499.14

Truck rental and repair 2.5 months @$2,007.66/month		5,019.15
ATV rental and repair 2.0 months @$1,590/month plus repairs		3,450.79
Radio and Radio Telephone rental		2,500.00
Walkie Talkie Rentals 5 Walkie talkies 2.5 months @$106/mnth		1,325.00
Field Supplies(Includes Lumber, hardware, fuel etc)	8,130.60	
Field equipment rental and maintenance	1,228.28	9,358.88
Computer Rental 66 days @$20/day		1,320.00
Expediting		3,063.93
Accounting, Communications, Freight		4,785.67
Data interpretation and Report writing		8,250.00
Additional costs incurred for replotting and redrafting new base, geology etc. maps required to correct significant errors, as shown by survey, in original LAC maps		8,835.29
Photocopying and reproduction		803.48
15% Project Management Fee		21,811.76
TOTAL COST		$ 257,781.92

APPENDIX VIIb

STATEMENT OF TOTAL PROJECT COSTS

STATEMENT OF COSTS

HANK PROPERTY, LAC MINERALS LTD.
PROJECT 89BC019

SALARIES

D.Collins	Snr. Geologist	55 days @	$300.00 /day	$16,500.00	
Y. Ming So	Geologist	61 days @	$200.00 /day	$12,200.00	
J.Dahrouge	Tech. Phase I	37 days @	$150.00 /day	$5,550.00	
J.Cooper	Cook Phase I	38 days @	$150.00 /day	$5,700.00	
J.Dahrouge	Ass. Geologist Ph. II	23 days @	$200.00 /day	$4,600.00	
C. Rogers	Tech. Phase I	34 days @	$150.00 /day	$5,100.00	
J.Himmelright	Tech. Phase I	34 days @	$150.00 /day	$5,100.00	
P.Daigle	Tech. Phase I, II	61 days @	$150.00 /day	$9,150.00	
J.Cooper	Cook Phase II	23 days @	$170.00 /day	$3,910.00	$67,810.00

PROJECT EXPENSES

Project Preparation	$5,483.20

MOBILIZATION/DEMOBILIZATION

Air fares, salaries, domicile, truck rental, freight	13179.82	
Helicopter support 20.9 hours @ $628/hour	13125.2	$26,305.02

DOMICILE

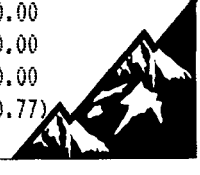
279 man days	@	$16.72 /man day	Camp Rental Phase I	$4,664.88	
249 man days	@	$20.00 /man day	Camp Rental Phase II	$4,980.00	
367 man days	@	$25.00 /man day	Food for Hi-Tec Crew	$9,175.00	
116 man days	@	$25.00 /man day	Food for Drillers	$2,900.00	
45 man days	@	$25.00 /man day	Food for LAC personnel	$1,125.00	$22,844.88

GEOCHEMISTRY AND LABORATORY SERVICE (mainly invoiced directly to LAC)

Special Order	25 sample	$12.75 /Au, Ag FA	$318.75	
Special Order	101 sample	$8.25 /Au	$833.25	
Special Order	216 sample	$9.75 /Au	$2,106.00	
Special Order	43 sample	$7.00 /Pb, Zn	$301.00	
Special Order	3 sample	$9.75 /Ag	$29.25	
Rocks	168 sample	$3.75 /sample preparation	$630.00	
	168 sample	$19.50 /Lac Package	$3,276.00	
Core	478 sample	$3.75 /sample preparation	$1,792.50	
	478 sample	$19.50 /Full Lac Package	$9,321.00	
Core	337 sample	$3.75 /sample preparation	$1,263.75	
	337 sample	$11.25 /Geochem Au	$3,791.25	
Shipping Charges paid by Bondar-Clegg			$67.00	
Fax service			$15.00	
Freight Charges paid by Hi-Tec			$943.84	
Freight Charges paid by LAC			$292.00	
Hotel charges incurred delivering samples to Smithers			$381.27	$25,361.86

DRILLING

Mob/Demob Drill					$9,738.76
Diamond Drilling	1610.6 Meters	@	$75.80 /meter		$122,081.96
Core Boxes and lids	178 Boxes	@	$12.08 /set		$2,149.35
Helicopter drill in/out	38.6 hours	@	$628.00 /hour		$24,240.80
Core shack and splitter	32 days	@	$30.00 /day		$960.00
Cat D-6 time	75 hours	@	$80.00 /hour		$6,000.00
Pajari tests + rental	8 tests	@	$65.00 /test +	$600.00 /month rent	$1,120.00
Credit for LAC fuel used by Conner's Drilling		$2,320.77			($2,320.77)



CAT ACCESS ROUTE SELECTION AND EXAMINATION

Locate Route Helicopter	2.7 hours @	$669.25 /hour Paid by Lac			$1,806.98
Transport + manpower for location & costs of LAC supervision visits:					$2,458.40
2 Airfares @	$582.00 /each	Paid by Lac			$1,164.00
2 Airfares @	$200.00 /each	Northern Mountain to Dease Lk (Paid by Lac)			$400.00
Hotel in Dease Lk (Paid by Lac)					$63.72
Miscellaneous Expenses					$79.42
Expenses Robert Brown of LAC (paid by LAC)					$201.24
D.Collins Salary (Field)	2 days @	$300.00 /day			$600.00
D.Collins Salary (Office)	2.14 days @	$300.00 /day			$642.00
Mob/demob D6 cat + cost settlement charges LAC/Pickell (paid by LAC)					$11,490.27
Cat	184.5 hours @	$80.00 /hour (Paid by Lac)			$14,760.00
Fuel for cat	50 Barrels @	$100.00 /barrel (Paid by Lac)			$5,000.00
Helicopter Operator from cat when walking In	10.3 hours @	$628.00 /hour			$6,468.40
Helicopter in Fuel	7.1 hours @	$628.00 /hour (Invoiced directly to LAC)			$4,458.80
Helicopter and Fuel	48.5 hours @	$628.00 /hour + $41.14 oil			$30,499.14
Truck Rental & damage repair	2.50 months @	$2,007.66 /month			$5,019.15
ATV Rental & repair	2 Months @	$1,590.00 /month + repairs			$3,450.79
Radio and Radio Telephone Rental					$2,500.00
Walkie talkie Rental	2.5 months @	$530.00 /month			$1,325.00
FIELD SUPPLIES (includes Lumber, Hardware, fuel etc)				$8,130.60	
Field equipment rental and maintenance				$1,228.28	$9,358.88
Computer Rental	66 days @	$20.00 /day			$1,320.00
Expediting					$3,063.93
Accounting, Communications, Freight charges during field work					$4,785.67
Survey in Points on Property (Paid by LAC)					$2,140.00
204 Helicopter to move skid (Paid by LAC)					$3,000.00
LAC expenses from R. Brown for Meals/gas/sundry	Aug. 15,18,19				$285.70
Data interpretation and Report writing					$8,250.00
Additional costs incurred for replotting and redrafting new base, geology etc maps required to correct significant errors, as shown by survey, in original LAC maps					$8,835.29
Photocopying and reproduction					$803.48
Project Management	15.00%				$21,811.76
		TOTAL COST:			$467,817.08

INSERT

LARGE

FORMAT

1 MAP

6 LF

19523 B

Principal Control Point For Detailed Survey

2605.093N 9929.996 E

Bearings are scaled astronomic bearings from mapping supplied by Lac Minerals.

Distances shown are in metres and decimals thereof

28°32' magnetic north

12803.470 N 8 10000.000 E

25 12803.470N 13000.000 E

11303.470 N 37 8000.000 E

48 11303.470N 12000.000 E

33 11303.470 N 10000.000 E

45 8803.470 N 8000.000 E

47 8803.470 N 12000.000 E

L.C.P. HANK 1,2,3

200.76 11302.470 N 10000.000 E Elevation: 912.310m

L.C.P. HANK 4

CAMPSITE (Pot Bar)

CAMPSITE

CAMP 3 PEAK

CAMP 5

Hank

GRAVELS

RIVER

MORAINE DEPOSITS

LANDSLIDE AREA

BALD BLUFF

FELSITE BOULDER FIELD

UPPER SERICITE-CB-PYRITE± ALTERED ZONE

SERICITE CB - PYRITE ALTERED ZONE

PROPERTY BOUNDARY

Line 5700N
Line 5600N
Line 5400N
Line 5200N
Line 5000N
Line 4800N
Line 4600N
Line 4400N
Line 4200N
Line 4000N
Line 3800N
Line 3600N
Line 3400N
Line 3200N
Line 3000N
Line 2800N
Line 2700N
Line 2600N
Line 2500N
Line 2400N
Line 2300N
Line 2200N
Line 2100N
Line 2000N
Line 1800N
Line 1600N
Line 1400N
Line 1200N
Line 1000N
Line 800N
Line 600N
Line 400N
Line 200N
Line 0N

LEGEND

- Contours (20m interval)
- Creek
- Sand
- Swamp
- Survey point
- Scarp
- Legal corner post
- Claim group boundary
- Baseline
- Stream sediment sample
- Soil sample (likely contaminated by stream sediments)
- Soil sample
- Soil profile pit
- Rock sample (grab, float, trenching)
- Cat trail
- Drill hole
- Composite
- Outcrop boundary
- Sericite carbonate pyrite altered zone boundary
- Geologic contact (inferred)
- Attitude of (fault, vein, joint set, bedding)
- CB Qz Ba — Vein gangue (carbonate, quartz, barite)
- CP,GN,SP TT,MA — Mineral showing (chalcopyrite, galena, sphalerite, tetrahedrite, malachite)

bxx	Breccia	xline	Crystalline
aggl	Agglomerate	sst	Sandstone
ppan	Porphyritic andesite	gwky	Greywacke
pyrc	Pyroclastic		

0 50 100 200 300 400 500 metres

SCALE 1:5000

GEOLOGICAL BRANCH ASSESSMENT REPORT

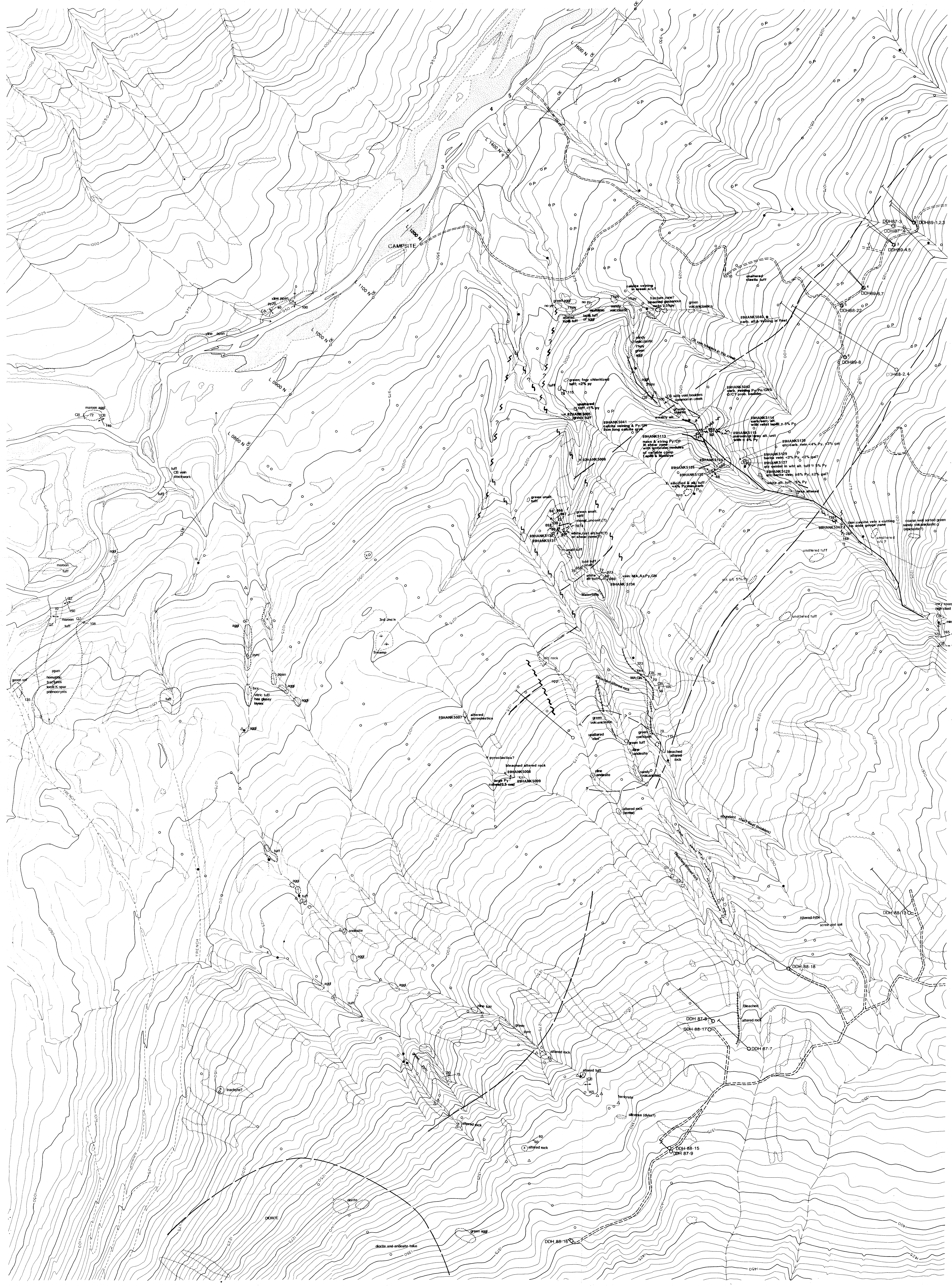
19,523

411 233
6341 074

HANK PROPERTY
LAC MINERALS LTD.
GEOLOGY

HI-TEC RESOURCE MANAGEMENT LTD.

SCALE: 1 : 5000	N.T.S.: 104G/1.2		FIGURE No.: 4
DWN. BY: H.V.	DATE: Nov./1980		
CHKD. BY: D. Collins	PROJECT No.: 868CD19		FILE No.:


9000 E
9500 E
10000 E
10803 N
10303 N
9803 N
9303 N
CAMPSITE
L 1600 N
L 1400 N
L 1200 N
L 1100 N
L 1000 N
L 0900 N
L 0800 N
xline ppan
maroon aggl
tuff
CB vein stockwork
maroon tuff
green sst
ppan
hematitic fractures
local K-spar phenocrysts
vitric tuff has glassy layers
3rd Jnc'n
Swamp
TRENCH
89HANK5007
altered pyroclastics
pyroclastics?
bleached altered rock
89HANK5008
large Py cubes (0.5 cm)
89HANK5009
andesite
trachyte?
DIORITE
diorite
diorite and andesite talus
green aggl
calcite veining in creek o/c?
fracture zone? bleached gossanous rocks 2.5%py
green volcaniclastics
unaltered clastic tuff
89HANK5040
carb. alt.& veining in float
CB vein boulders in this creek
green; fngr chloritized tuff; <2% py
unaltered tuff <1% py
82HANK5005
green tuff
89HANK5041
calcite veining & Py/GN 2cm long calcite crys.
89HANK5042
carb. veining Py/Po/GN? O/C? prob. boulder
CB with vein boulders common in creek
weakly alt.
89HANK5113
mass & string Py/CP in shear zone with lenticular nodules of variable comp Lapilli & Massive
89HANK5114
carb/serr. alt. with relict lapilli ± 5% Py
89HANK5115
maroon/gr/grey alt. unit with ± 4% Py
89HANK5130
qtz/carb. vein <4% Py, <3% gal
89HANK5129
barite vein: <2% Py, <2% gal?
89HANK5127
qtz veinlet in wht alt. tuff ≃ 5% Py
89HANK5128
qtz/barite vein; ±6% Py; ±2% gal?
89HANK5124
89HANK5126
89HANK5125
V. silicified & alt. tuff <4% Py/min.carb
white alt. tuff <5% Py
less altered
82HANK5006
green unalt. tuff
89HANK5132
89HANK5131
white,rust alt.tuff(?) or shear zone(?)
vein: MA,Az,Py,GN
89HANK 5134
Waterfalls
thin calcite vein x-cutting 1m wide gouge zone
89HANK5043
coarse well sorted green sandy volcaniclastic (epiclastic?)
unaltered tuff
alt. o/c 5% Py
very coarse maroon aggl with high clast percentage, non pyrite
minor CB veins
approx. lithologic (& alteration?) contact
Bleached altered rock
green volcaniclastic
unaltered "clot"
green tuff
xline andesite
sandy volcaniclastic
bleached altered rock
altered rock (scree)
abundant chert float (boulders)
Altered-type scree and soil
DDH87-3
DDH87-4
DDH89-1,2,3
DDH89-4,5
DDH89-6,7
DDH88-22
DDH89-8
DDH88-2, 4
DDH 88-13
DDH 88-18
Bleached altered rock
DDH 87-8
DDH 88-17
DDH 87-7
altered tuff
ferricrete
siliceous (dyke?)
altered rock
DDH 88-15
DDH 87-9
DDH 88-16

LEGEND

SAMPLING

- ● Stream sediment sample
- △ Soil sample (likely contaminated by stream sediments)
- P Soil profile pit
- x ● ⊢┼┼┤ Rock sample (grab, float, trenching)
- ○ Grid station
- ⊢──○ DDH 88-1 Diamond drill hole (year-hole no.)

TOPOGRAPHIC

- ===== Cat trail
- Waterlogged ground
- Wooded area

CB, QZ, CA	Vein gangue (carbonate, quartz, calcite
CP, GN, SP, TT MA	Mineral showing (chalcopyrite, galena, sphalerite, tatrahedrite, malachite)
CB 44 25	Bedding or contact attitude — All attitudes show strike and dip values
40 27	Vein attitude (with main components) — All attitudes show strike and dip values
75 60	Joint set attitude — All attitudes show strike and dip values
	Fault
	Outcrop
	Lithologic major contact (interfomatioal) — These contacts and boundaries should be regarded as approx. or inferred
	Lithologic minor contact (interformational) also surficial boundaries such as talus, ferricrete — These contacts and boundaries should be regarded as approx. or inferred
	Altered zone boundary

bxx	Breccia
aggl	Agglomerate
ppan	Porphyritic andesite
pyrc	Pyroclastic
xline	Crystalline
gwky	Greywacke
sst	Sandstone

0 50 100 metres

9000E 9500 E 10000 E

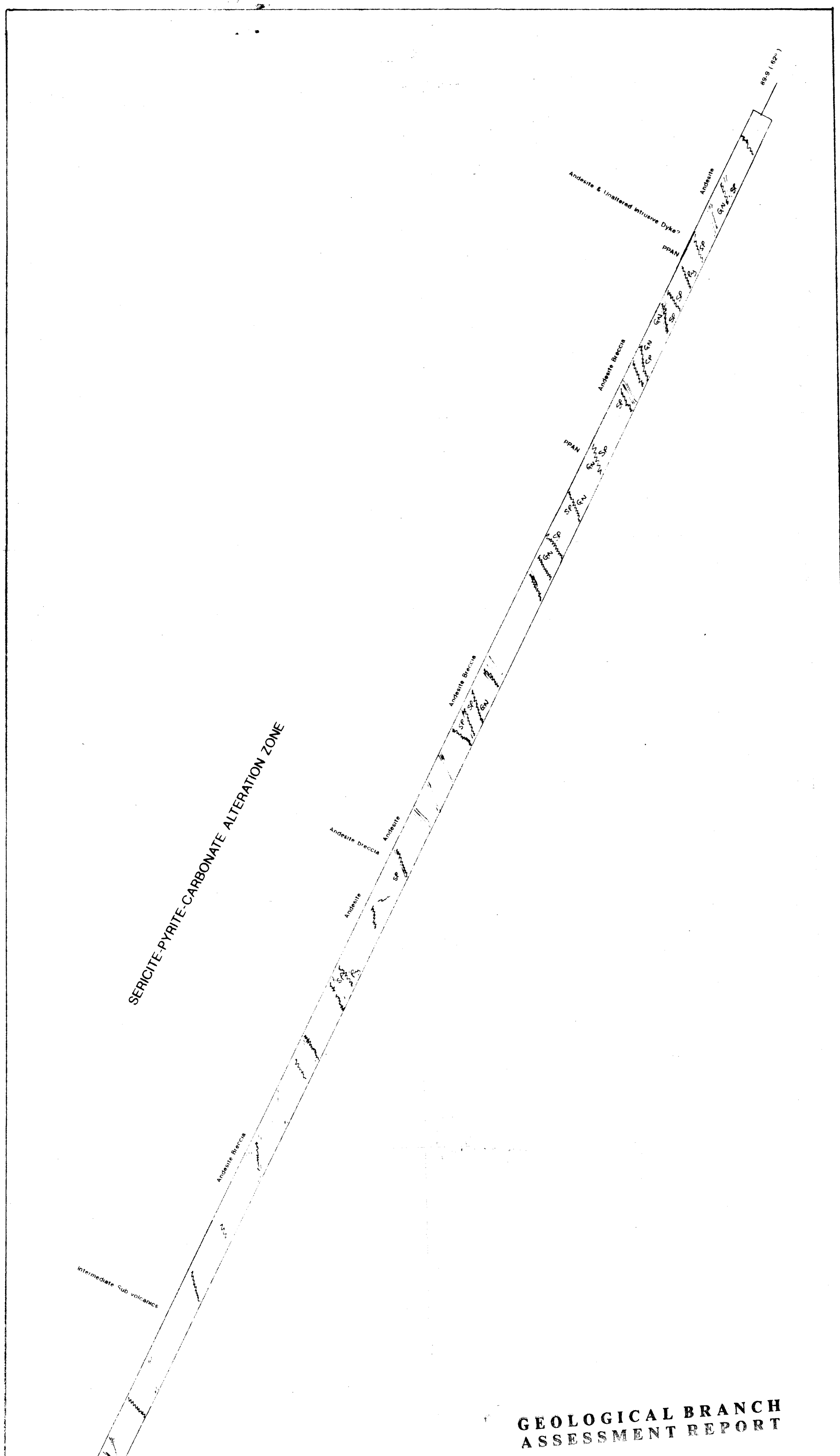
HANK PROPERTY

LAC MINERALS LTD.

GEOLOGY

HI-TEC RESOURCE MANAGEMENT LTD.

SCALE: 1 : 2000	N.T.S.: 104G/1,2	FIGURE No: 4a
DWN. BY: H.V.	DATE: Nov./1989	
CHKD. BY: D. Collins	PROJECT No: 89BC019	FILE No:



GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,523

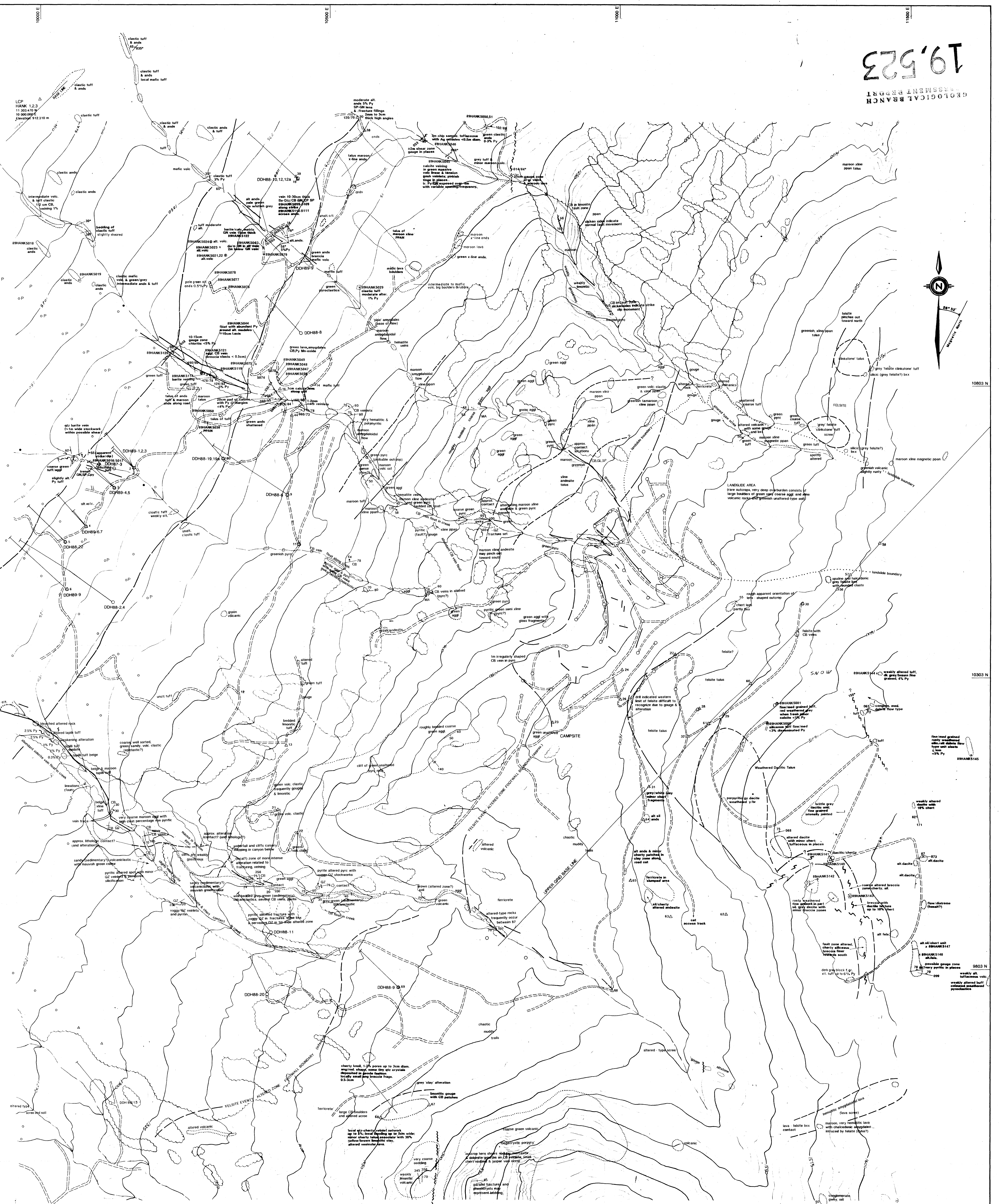
LAC MINERALS LTD.

HANK CLAIMS
LIARD M.D.

DIAMOND DRILL HOLE

SECTION DDH-89-9

SCALE: 1:500	N.T.S. 104G/1.2	
	DATE: DEC. 1989	


10000 E
10500 E
11000 E
11500 E
10803 N
10303 N
9803 N
LCP
HANK 1,2,3
11 303.470 N
10 000.000 E
Elevation 912.310 m
BASE LINE
clastic tuff & ands
clastic tuff & ands local mafic tuff
clastic tuff
clastic ands & tuff
mafic volc
clastic tuff 3% Py
clastic ands
intermediate volc. & tuff clastic 1-2 cm CB, veining 1%
bedding of clastic tuff slightly sheared
89HANK5018
clastic ands
89HANK5019
clastic mafic volc. & green/grey intermediate ands & tuff
DDH88-10,12,12a
alt ands. pale green to whitish grey
vein 10-30cm thick Ba-Qtz/CB GN,CP SP
89HANK5099-5109 along strike
89HANK5110-5111 across ands.
moderate alt. ands 5% Py SP-GN lens & /fracture fillings 2mm to 3cm thick high angles
89HANK5050,51
3m chip sample. tuffaceous with Ag modules <0.5m diam.
89HANK5046
±2m shear zone gauge in places
89HANK5045
calcite veining in green massive volc linear & tension gash veinlets; pinkish tinge in places. tr. Py/GN exposed over 6m with variable spacing/frequency.
green clastic ands 0-3% Py
grey tuff & minor maroon volc.
25cm gauge zone in gr volc. & maroon lava
talus maroon x-line ands
tuff moderate alt.
barite/calc. matrix GN vein 15cm thick 89HANK5122
89HANK5024 alt. volc.
89HANK5023 alt.volc
89HANK5021,22 alt.volc
89HANK5083 dis'm GN in alt volc 2m below GN vein
89HANK5079
DDH89-9
green ands breccia mafic volc
talus of maroon xline PPAN
mafic tuff
mafic lava boulders
green pyroclastics
89HANK5029 clastic tuff moderate alter. 1% Py
intermediate to mafic volc. big boulders & rubble
89HANK5078
89HANK5077
89HANK5076
pale green alt ands 0.5% Py
89HANK5044 float with abundant Py around alt. modules ~10cm l.axis
10-15cm gauge zone chloritic <5% Py
DDH88-8
'pipe' amygdales (base of flow)
maroon amygdaloidal flow
hematite veins
89HANK5121 aggl. CB vein (breccia clasts < 0.5cm)
89HANK5120
89HANK5075
89HANK5119
89HANK5118 barite veining
green lava, amygdales CB, Py Mn-oxide
89HANK5049
89HANK5048
89HANK5047
89HANK5039
1cm calcite lens along unit
1-2mm carb veinlets
20cm pad of calcite with Py @ margins <4% Py
talus of ands tuff & maroon ands along road
maroon talus
89HANK5050
talus of tuff
green ands shattered
89HANK5038 PPAN
qtz barite vein (~1m wide stockwork within possible shear)
55 (apparent strike/dip)
89HANK5016/5017
DDH87-3
silicified tuff
trench GN,SP,Cpy
coarse green tuff/aggl
slightly alt. Py tuff
DDH89-1,2,3
DDH88-19,19a
DDH89-4,5
DDH88-6
alt.volc.
clastic tuff weakly alt.
DDH89-6,7
DDH88-22
DDH89-9
DDH88-2,4
unalt. clastic tuff
CB in limonite fault zone
ppan
slicken sides indicate normal fault movement
maroon
weakly limonitic
gossanous
canyon
CB in fault zone slickensides indicate strike slip movement
maroon pyrc
maroon xline ppan talus
greenish, xline ppan talus
felsite pinches out toward north
Magnetic North
28° 32'
'clinkstone' talus
grey 'felsite clinkstone' tuff
silicic (grey felsite?) bxx
FELSITE
'grey' felsite 'clinkstone' tuff scree
maroon xline magnetic ppan
greenish volcanic slightly rusty
landslide boundary
LANDSLIDE AREA (rare outcrops, very deep overburden consists of large boulders of green very coarse aggl. and xline volcanic rocks and greenish unaltered-type soil)
green aggl
green volc. clastic & xline ppan
maroon xline ppan
greenish tamaroon xline ppan
altered rock
ferricrete
gouge
altered volcanics
unaltered coarse tuff
altered type scree
altered volcanic with some gouge and bxx
maroon xline magnetic ppan
roughly bedded coarse green aggl
approx. contact locations
xline andesite talus
alternating maroon xline andesite & green pyrc
maroon xline andesite may pinch out toward south
abundant CB vein float
1m irregularly shaped CB vein in pyrc
green aggl with glass fragments
pyritic green semi xline (pyrc?)
opaline and halcedonic grey felsite bxx with rounded clasts
rough apparent orientation of lens - shaped outcrop
chert lens partly bxx
felsite with CB veins
felsite?
felsite talus
drill indicated western limit of felsite difficult to recognize due to gouge & alteration
SNOW
89HANK5144 weakly altered tuff, dk grey/brown fine grained, 4% Py
conglom. med. debris flow type
89HANK5081 fine/med grained tuff, red weathered grey when fresh minor calcite <1% Py
89HANK5080 siliceous tuff fine/med <3% disseminated Py
fine/med grained rusty weathered silic./alt debris flow type unit clasts ≤ 1cm <5% Py
89HANK5145
Weathered Dacitic Talus
porpyritic gy dacite weathered y/br
brittle grey dacitic unit; fine grained intensly jointed
weakly altered dacite with 10% chert
altered dacite with minor chert; tuffaceous in places
89HANK5141 dacitic/cherty
89HANK5140
89HANK5142
coarse altered breccia zone cherty, sil.
89HANK5143
rusty weathered fine grained in part sil. grey dacite with minor breccia zones
breccia with ductile texture up to 10% chert
flow/diatreme (basalt?)
alt.dacite
alt fels
fault zone altered, cherty siliceous breccia finer towards south
alt.sil/chert unit x 89HANK5147
89HANK5146 alt.fels.
possible gouge zone very pyritic in places
dark grey block f.gr. sil. tuff up to 6% Py
weakly alt. tuffaceous volc.
weakly altered buff coloured weathered pyroclastics
CAMPSITE
green unaltered aggl
'FELSITE EVENT' ALTERED ZONE FOOTWALL BOUNDARY (approx.)
UPPER GRID BASE LINE
grey/white clay minor chert fragments
alt sil ands
alt ands & minor cherty patches in clay zone along road cut
ferricrete in 'slumped' area
sil/cherty altered andesite
cat access track
altered volcanic
chaotic muddy trails
altered-type rocks frequently occur between 87
less alt.
bleached altered rock
altered lapilli tuff
weakening alteration
lapilli tuff epidote
lapilli tuff beige
abundant siderite vein float in creek
beige & maroon lapilli tuff
lineations (fault)
beige xline tuff
vein trace
very coarse maroon aggl with high clast percentage non pyritic
approx. lithologic contact? (and alteration?)
sandy (sedimentary?) volcaniclastic with mauvish green colour
pyritic altered spot with minor QZ veinlets & pervasive silicification
vuggy QZ veinlets and pyrite
carbonate & chert contact in creek
coarse, well sorted, green sandy, volc. clastic (epiclastic?)
unalt tuff
altered tuff
green tuff
bedded limonitic tuff
cliff of green unaltered pyrc rock
green volc. clastic frequently gouged & limonitic
approx. alteration contact? (and lithologic?)
waterfall and cliffs cursory mapping in canyon below
(local?) zone of more intense alteration related to fracturing, veining
pyrite altered pyrc with vuggy QZ stockworks
well bedded gray green (sedimentary) volcaniclastics, several CB veins, pyrite
grey-green (sedimentary) volcaniclastic
CB float in creek
pyritic silicified fracture with vuggy QZ in fractures some bxx & pervasive QZ in 1m wide altered zone
DDH88-11
brown (altered zone?) soil
DDH88-20
DDH88-9
DDH 88-13
altered type scree and soil
'FELSITE EVENT' ALTERED ZONE FOOTWALL BOUNDARY (inferred)
cherty knoll, 1-2% pores up to 3cm diam. ang/rnd. shape, some tiny qtz crystals deposited in geode fashion locally small ang breccia frags. 0.5-3cm
grey 'clay' alteration
limonitic gouge with CB patches
large CB boulders and altered scree
local qtz-cherty veinlet network up to 5%; local banding up to 2cm wide; minor cherty talus associate with 30% yellow/brown limonitic clay, altered vesicular lava.
very coarse bedding
weakly limonitic volcanic
outcrop here shows nodular marcasite & dolomite growths on CB veinlets, small chert nodules & jasper vein occur.
coarse green volcanic
megacrystic porpyry
parallel fractures and phenocrysts may represent bedding
altered - type scree
gouge
siltstone
volcanic
hematitic amygdaloidal lava (lava scree)
lava - felsite bxx contact
maroon, very hematitic lava with chalcedonic amygdales intruced by felsite (dyke?)
conglomerate, gwky, sst

LEGEND

SAMPLING

- Stream sediment sample
- Soil sample (likely contaminated by stream sediments)
- P Soil profile pit
- Rock sample (grab, float, trenching)
- Grid station
- Diamond drill hole (year-hole no.) DDH 88-1

TOPOGRAPHIC

- Cat trail
- Waterlogged ground
- Wooded area

CB, QZ, CA	Vein gangue (carbonate, quartz, calcite)
CP, GN, SP, TT MA	Mineral showing (chalcopyrite, galena, sphalerite, tatrahedrite, malachite)
CB 44 25	Bedding or contact attitude
40 27	Vein attitude (with main components)
75 60	Joint set attitude
	Fault
	Outcrop
	Lithologic major contact (interfomational)
	Lithologic minor contact (interformational) also suficial boundaries such as talus, ferricrete
	Altered zone boundary

All attitudes show strike and dip values

These contacts and boundaries should be regarded as approx. or inferred

bxx	Breccia
aggl	Agglomerate
ppan	Porphyritic andesite
pyrc	Pyroclastic
xline	Crystalline
gwky	Greywacke
sst	Sandstone

0 50 100 metres

10000 E 10500 E 11000 E

HANK PROPERTY

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GEOLOGY

HI-TEC RESOURCE MANAGEMENT LTD.	SCALE: 1 : 2000	N.T.S.: 104G/1,2	FIGURE No: 4b
	DWN. BY: H.V.	DATE: Nov./1989	
	CHKD. BY: D. Collins	PROJECT No: 89BC019	FILE No:

LEGEND

- Stream sediment sample
- Soil sample (likely contaminated by stream sediment)
- " "
- P " profile pit
- Rock sample (grab, float trenching)
- 88-21 Diamond drill hole (collar location & N°.)
- Cat trail
- Water logged ground

CB, QZ, CA	Vein gangue (carbonate, quartz, calcite)
CP, GN, SP, TT MA	Mineral showing (chalcopyrite, galena, sphalerite, tatrahedrite, malachite)
CB 44 25	Bedding or contact attitude
27 40	Vein attitude (with main components)
60 75	Joint set attitude
	All attitudes show strike and dip values
	Fault
	Outcrop
	Lithologic major contact (interfomational)
	Lithologic minor contact (interformational) also surficial boundaries such as talus, ferricrete
	These contacts and boundaries should be regarded as approx. or inferred
	Altered zone boundary

bxx	Breccia
aggl	Agglomerate
ppan	Porphyritic andesite
pyrc	Pyroclastic
xline	Crystalline
gwky	Greywacke
sst	Sandstone

10500 E 11000 E 11500 E 12000 E

12803 N 12303 N 11803 N 11303 N

L 4600N L 4400N L 4200N L 4000N L 3700N L 3600N L 3400N L 3200N L 3000N L 2800N L 2600N L 2400N L 2200N L 2000N

14 Creek 13 Creek 12 Creek 11 Creek 10 Creek CREEK 9 Creek 8 Creek 7 Creek 6 Creek

H A N K BASE LINE REF. LINE

2 Campsite

LCP HANK 1,2,3 11 365,470 N 10 000,800 E Elevation: 912.3 m

UPPER SERICITE - CB - PYRITE ALTERED ZONE

LOWER SERICITE - CB - PYRITE ALTERED ZONE

DDH88-10, 11 DDH88-21 DDH88-10,12a DDH88-14

89HANK5004 89HANK5011 89HANK5010 89HANK5033 89HANK5031-32 89HANK5123 89HANK5157 89HANK5155-51 89HANK5045

89HANK5151 89HANK5152 89HANK5154 89HANK5153 89HANK5156 89HANK5028 89HANK5027 89HANK5068-63

GEOLOGICAL BRANCH ASSESSMENT REPORT

19,523

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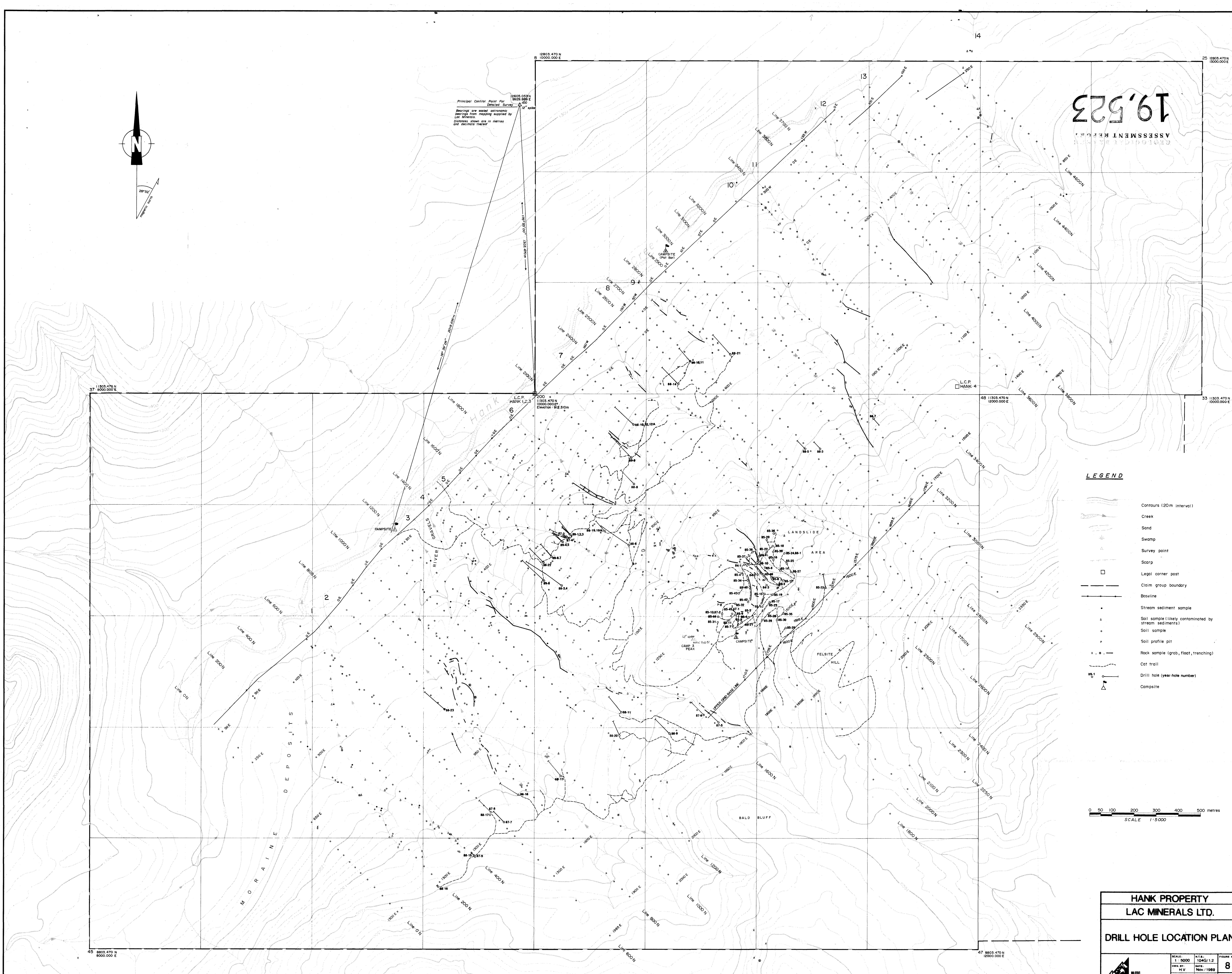
GEOLOGY

HI-TEC RESOURCE MANAGEMENT LTD.	SCALE: 1: 2000	N.T.S.: 104G/1.2	FIGURE No.: 4c
	DWN. BY: H.V.	DATE: Nov./1989	
	CHKD. BY: D. Collins	PROJECT No.: 89BC019	FILE No.:

CHONG


LEGEND
Contours (20m interval)
Creek
Sand
Swamp
Survey point
Scarp
Legal corner post
Claim group boundary
Baseline
Stream sediment sample
Soil sample (likely contaminated by stream sediments)
Soil sample
Soil profile pit
Rock sample (grab, float, trenching)
Cat trail
Drill hole (year-hole number)
Campsite
0 50 100 200 300 400 500 metres
SCALE 1:5000
LANDSLIDE AREA
FELSITE HILL
BALD BLUFF
CAMP 3 PEAK
MORAINE DEPOSITS
GRAVELS
RIVER
L.C.P. HANK 1,2,3
L.C.P. HANK 4
11303.470 N 10000.000 E Elevation 912.31m
Principal Control Point For Detailed Survey
Bearings are scaled astronomic bearings from mapping supplied by Lac Minerals.
Distances shown are in metres and decimals thereof
HANK PROPERTY
LAC MINERALS LTD.
DRILL HOLE LOCATION PLAN
SCALE: 1 : 5000
N.T.S.: 104G/1.2
FIGURE No: 8
DWN. BY: H.V
DATE: Nov./1989
CHKD. BY: D Collins
PROJECT No: 89BC019
FILE No:
HI-TEC RESOURCE MANAGEMENT LTD.