ARIS SUMMARY SHEET

District Geologist, Victoria

Off Confidential: 89.05.26

ASSESSMENT REPORT 17508 MINING DIVISION: New Westminster

PROPERTY: Fire Creek
LOCATION: LAT 49 47 16 LONG 122 14 45
UTM 10 5515089 554287
NTS 092G16E
CLAIM(S): Hades
OPERATOR(S): Englefield Res.
AUTHOR(S): Bennett, D.R.;Christie, J.S.
REPORT YEAR: 1988, 148 Pages
COMMODITIES
SEARCHED FOR: Gold,Silver,Copper,Lead,Zinc
GEOLOGICAL
SUMMARY: Exploration to date has been focused on a steeply dipping mineralized zone some 1000 by 350 metres in size developed in Cretaceous-Jurassic Fire Lake Group tuffs and sediments. High gold, silver and base metal values have been obtained from samples from several areas within the sulphide zone and one of these areas was tested by the current drilling.
WORK
DONE: Drilling
DIAD 850.0 m 9 hole(s);NDB
Map(s) - 1; Scale(s) - 1:1000
RELATED
REPORTS: 09783,12217,14663
MINFILE: 092GNE

FIRE CREEK PROSPECT

HADES, BRIMSTONE, AND FIRE 1-6 CLAIMS

RECORD NOS.: 1093(10), 1094(10),3172-7(5)

NEW WESTMINSTER MINING DIVISION

MAPSHEET 92G/16E

LATITUDE 49 47' N LONGITUDE 122 14' W

REPORT ON THE 1987 FIRE CREEK DRILL PROGRAM

For: Englefield Resources Ltd.
1011-736 Granville Street
Vancouver, B.C. V6Z 1G3

By: James S. Christie, Ph.D.
David R. Bennett, B.Sc.

February 10, 1988

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INTRODUCTION

In 1980, during the course of a regional exploration program very rusty weathering pyritic boulders were noted in Fire Creek at the logging road bridge. The float boulders were strongly altered and bleached tuffs characterized by pervasive clay-sericite-silica alteration and up to 10-20% pyrite, and of sufficient interest to focus immediate exploration efforts on the area upstream of the bridge in search of the source area. Less than a mile upstream rusty bluffs of similar material were discovered and quickly explored and sampled. They were found to strongly resemble pyritic stringer zone rocks as associated with the footwall rocks of massive sulfide prospects in the area. The Hades and Brimstone claims were staked immediately thereafter, covering the visible area of sulfide mineralization and extensions, and additional samples were collected along claim lines during staking. Results for samples taken before and during staking in 1980 gave strongly anomalous gold values up to 470 ppb with copper, lead, silver and arsenic also anomalous.

A pan sample taken at the bridge contained 5430 ppb gold and 271 ppm copper indicating a significant gold source within the drainage.

In 1981 additional creek reconnaissance traverses were run, mainly on the south side of the creek to test more fully the hypothesis that the gossanous area in the creek was the source of the auriferous float and gold in pan concentrates found in the previous year.

In 1981, a program was completed on the Fire Creek prospect, and a mineralized zone approximately 1000 metres long, 350 metres wide and 70 metres deep straddling the steep canyon of Fire Creek was roughly mapped. This zone is anomalous in gold, arsenic, silver, barium and lead, and depleted in zinc. Rock samples taken along the 1000 metre strike length ranged from 1 ppb to 1950 ppb gold, and averaged 307 ppb. The mineralization and style of alteration was shown to closely resemble that of a siliceous hydrothermal hot spring model rather than the footwall of a massive sulfide system.

In 1984 the property was optioned to Tenquille Resources Limited and Airborne VLF-EM and magnetometer surveys, and Airphoto Tectonic surveys were completed. A diamond drill hole was attempted from the road on the south side of Fire Creek but the equipment utilized was unable to penetrate the gravel-till overburden. The property was returned to Hycroft in 1985.

In 1985 and 1986, more detailed mapping and sampling was completed. The results outlined a strong gold anomaly in soil, measuring 1000x100 metres using the 100 ppb Au contour. The highest gold values in rock are from the central part of the northwestern lobe of this anomaly. It is this area of anomalous gold that provided the target for the 1987 drill program.

LOCATION, ACCESS, TOPOGRAPHY, ETC. (See Figures 1 and 2)

The claims straddle the lower portion of Fire Creek which flows southeastward to join Lillooet River, 7 km upstream

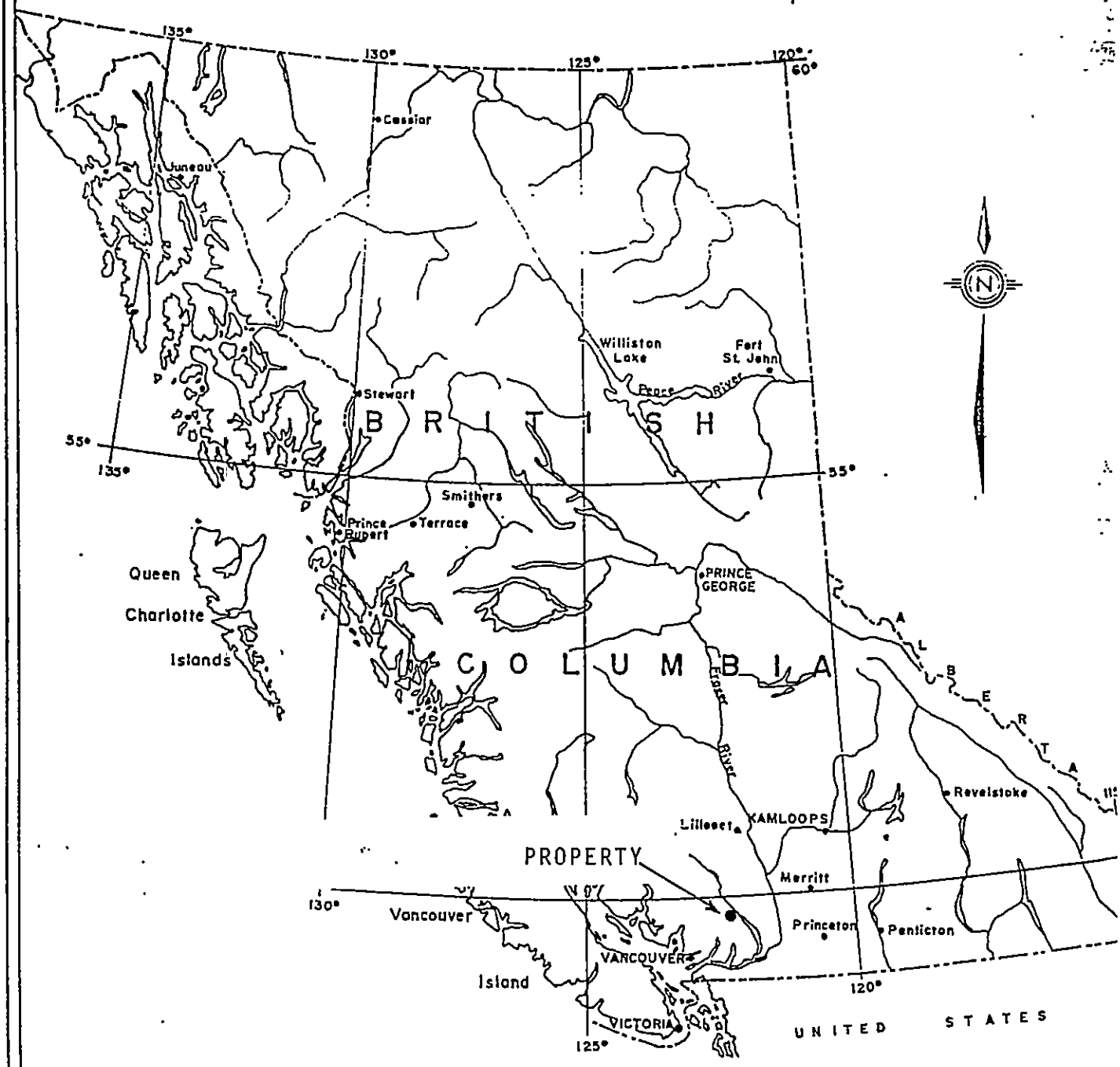


Figure 1

FIRE CREEK

PROPERTY LOCATION MA

SCALE

Km. 100 50 0 100 200 300 400 Km

Miles 100 50 0 100 200 Mile

by: Brad.

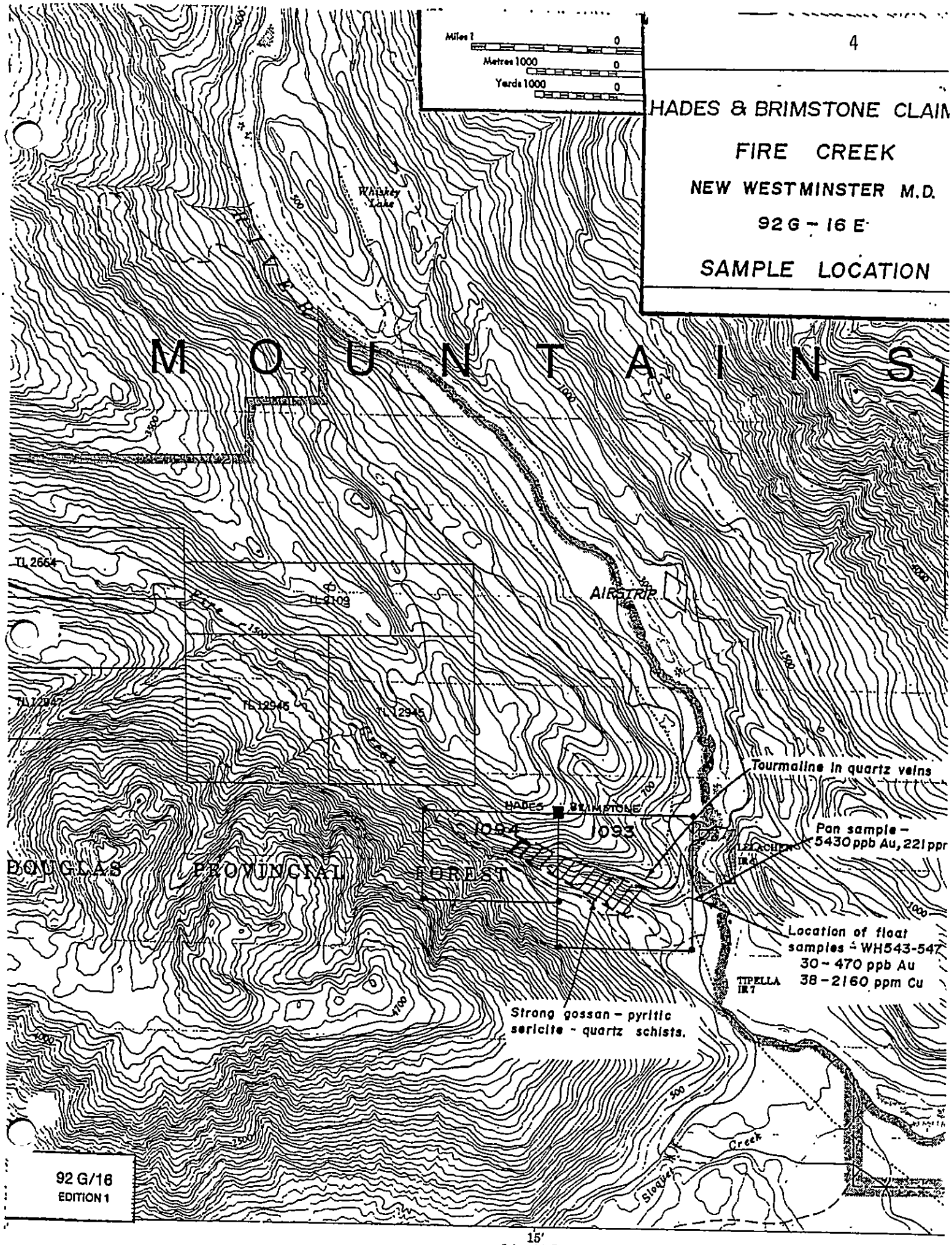
HADES & BRIMSTONE CLAIM

FIRE CREEK

NEW WESTMINSTER M.D.

92 G - 16 E

SAMPLE LOCATION



(northwest) from the north end of Harrison Lake. The property is 85 km northeast of Vancouver (straight-line distance), or approximately 200 km by road via Pemberton and Lillooet River road. Access is also possible northward from Harrison Mills, but a 5 km section of the road near 5-Mile Bay is extremely rough and necessitates 4-wheel drive vehicle.

From near the Fire Creek bridge, a logging access road extends up the north side of Fire Creek and permits access to part of the property. On the south side, old logging roads and railroad grades give access by easy walking to the central part of the claims. These roads and grades could easily be rehabilitated to give good 4-wheel drive access to the most important areas.

The property extends from Lillooet River at 150 feet (46m) elevation to 1000 feet (306m) elevation. The most important exposures occur along an extremely steep canyon approximately 200 feet (61m) deep.

Apart from the alder-covered railroad-grade, bush varies from thin on the north side of the creek to thick in previously logged areas on the south.

Low elevation of the property encourages work all year round. A good airstrip exists at Tipella logging camp, seven km south. Helicopters are available at Vancouver, Agassiz, or Pemberton.

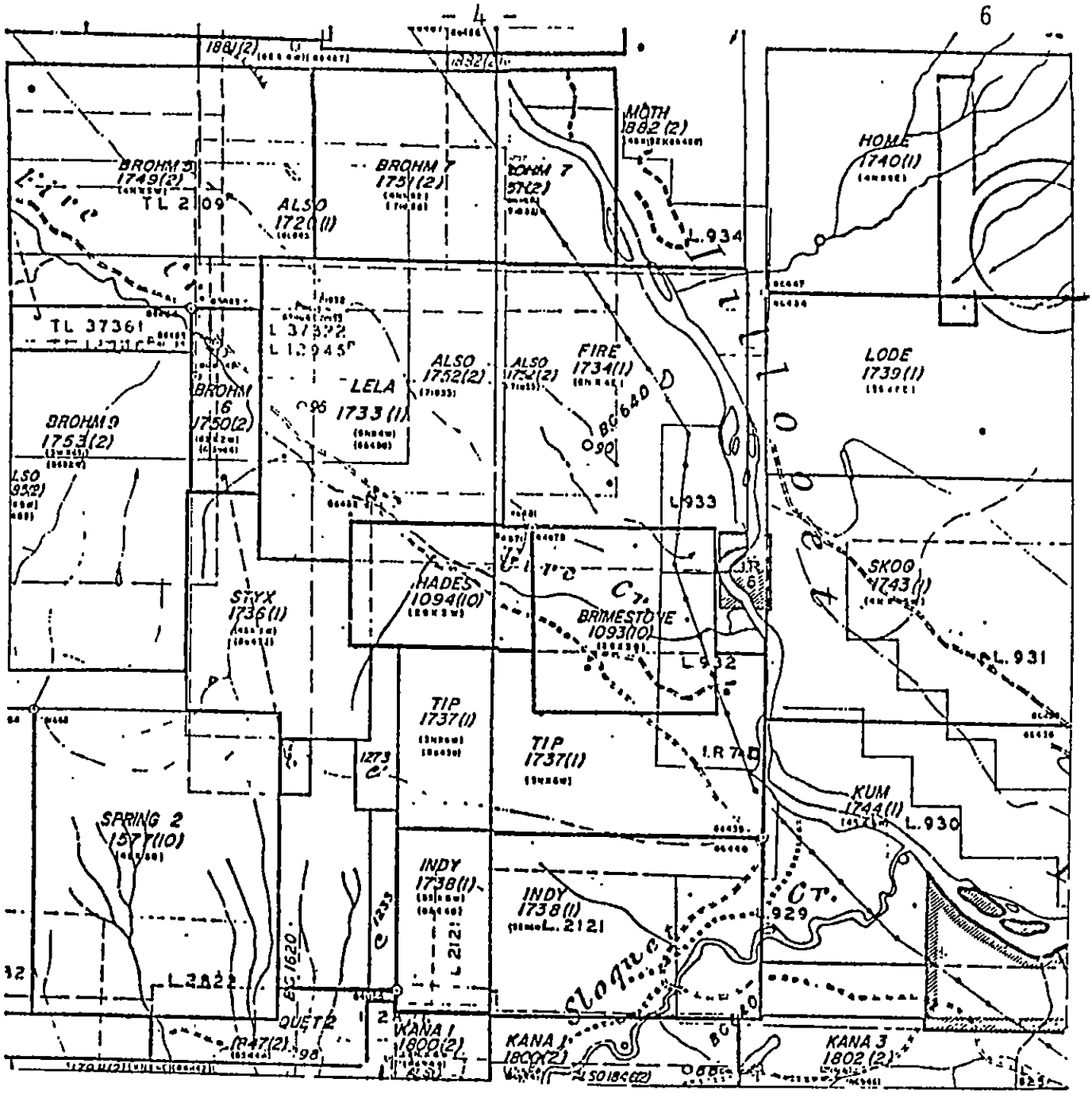


Figure 2a

Claim Location Map: Brimstone, Hades, and Lela Claims, New Westminster Mining Division, British Columbia

MINERAL CLAIMS (See Figures 2-2a Claim Maps)

The Fire Creek property is owned by Hycroft Resources and Development Corporation and is comprised of the Hades, Brimstone and Fire 1-6 claims as follows:

CLAIM	TAG #	RECORD #	UNITS	RECORD DATE	EXPIRY DATE
HADES	64871	1075 (10)	6	Oct 24/80	Oct 24/88
BRIMSTONE	64872	1076 (10)	9	Oct 24/80	Oct 24/88
FIRE 1-6	95001-6	3172-7 (5)	103	May 27/87	May 27/88

REGIONAL GEOLOGY (See Figure 3)

Fire Creek flows easterly and southeasterly through a mass of volcanic and sedimentary rocks named the Fire Lake Group (Roddick, 1965) and estimated to be at least 15,000 feet thick. Roddick describes three units, an upper part consisting chiefly of a thick greenstone formation made up of medium grained plagioclase fragments in a very fine-grained tuffaceous matrix, chlorite schist, and minor conglomerate, quartzite, and greywacke. The middle part is composed chiefly of dark slate and argillite with minor greywacke. The lower (oldest) part is chiefly fine grained thinly bedded granulite, with minor andesite, limestone and conglomerate. The "Fire Lake pendant" is described in some detail by Roddick as follows:

Descriptions of Individual Bodies of Fire Lake Group Rocks

Fire Lake Pendant

Lithology

The most complete section exposed in the Fire Lake area consists of three main units. Although tops of the beds were not definitely established, poor graded bedding observed in the conglomerate and greywacke beds suggests that the beds are right side up. The section is as follows:

1) Clastic feldspathic greenstones, chlorite schist, minor conglomerate approx. 7000'
2) Dark slates, shales, argillite, greywacke approx. 6000'
3) Granulites, andesite, conglomerate, limestone (fossiliferous), quartzite at least 2000'.

The oldest rocks in the group are in contact with the plutonic rocks along the south and southwest margins of the pendant. These consist chiefly of dark to medium grey, fine-grained granulites which are commonly banded (½ to 4 inch in width) and in places schistose. The granulites vary considerably in composition depending upon the proportions of plagioclase (oligoclase to sodic andesine), quartz, hornblende, and biotite. The plagioclase and quartz form granular matrices in which the mafic minerals are partly segregated into layers and commonly in parallel alignment. Quartz and biotite are abundant in the more schistose varieties. The banding is locally accentuated by feldspathic stringers, mostly of a metasomatic origin, related to the nearby plutonic rocks.

South of Terrarosa Glacier near the westernmost extension of the pendant in this vicinity the contact with the plutonic rock is sharp and crosscutting. The granulites there are markedly schistose and have a northerly trend with a 65°W dip, whereas the contact with the plutonic rock (a medium-grained, quartz-rich, granodiorite with very fine grained mafic minerals) trends east and is vertical. In most places, however, the contact is more complex. It may consist of a zone ranging in width from a few feet to more than a mile in which the schistose granulite and plutonic rock are intermingled. The granulite bodies range in size from small inclusions less than an inch in diameter to large blocks more than 50 feet across. In detail the contacts between the granodiorite and the granulitic rock are commonly sharp, but more so for the large blocks than the smaller ones. In the same locality laminated mixtures (lit-par-lit) of the two rock types are also found. In one instance a large lens of the granodiorite was noted within a block of schist which itself was enclosed in the granodiorite.

Within the granulite sequence, near the top, is a bed of conglomerate exposed in the lower part of North Sloquet Creek. The pebbles in the conglomerate range up to three inches in length and are composed mainly of quartz-rich plutonic rock, probably granodiorite. Most of them are well rounded. Also present but not abundant are subangular fragments of black hornfelsic-textured rock. The matrix of the conglomerate is recrystallized into a dark, greyish green, fine-grained granulite. Neither the thickness of the granulites nor of the conglomerate within them is known.

Above the granulites is a limestone bed which contains the only fossils (earliest Cretaceous) found in the Fire Lake Group. The bed is about 50 feet thick and consists of dark grey limestone which is slightly argillaceous and partly recrystallized to marble. It forms a conspicuous outcrop on the nose between North Sloquet and Sloquet Creeks.

Stratigraphically above the limestone is a considerable thickness of dark grey-green andesite, some of which is porphyritic. Hornblende, which was the original mafic mineral, has been partly altered to chlorite and epidote. The plagioclase, mostly a sodic andesine, forms a trachytic texture partly obscured by sericite and clay minerals. Intercalated with the andesite are a few beds of lithic greywacke consisting chiefly of small fragments of fine-grained, hornfelsic-textured rock and argillite in an argillaceous matrix which has been only slightly recrystallized.

Although the greywacke is virtually unmetamorphosed it is highly pyritized. In hand specimens the rock looks much like a quartzite. The andesite and greywacke are exposed in North Sloquet Creek, but the exposures are separated by broad covered areas. In view of this and the probability of complex structure, only the roughest estimate of thicknesses can be made. It is believed, however, that the lower member of the group is at least 2,000 feet thick.

The middle unit of the Fire Lake Group is exposed on the nose between Fire and Sloquet Creeks, and also on Fire Mountain. This sequence consists chiefly of dark grey, sandy shale. Microscopic examination reveals a matrix of a very fine grained mixture of sericite and clay minerals, in which are scattered small clastic grains of quartz, plagioclase, and potassium feldspar. Partial recrystallization of the matrix is shown by small patches of granulitic quartz and incipient brown biotite. The clastic grains, though small, are larger than any constituent of the matrix, and are evenly distributed throughout the rock. They vary in abundance from 10 to 30 per cent of the rock. When abundant and conspicuous these clastic grains give the rock a porphyritic appearance. The grains are well sorted, averaging about 0.05 mm in diameter, and are subangular. Quartz grains are usually the most abundant. The small glaciated outcrops at lower elevations rarely show any bedding, although in places the rock is schistose. Intercalated with the sandy shale are a few beds of dark fine-grained argillite and greywacke. On Fire Mountain the rock is more distinctly bedded and slaty. Both on Fire Mountain and on the nose between Fire and Sloquet Creeks, the middle sequence of the Fire Lake Group has a northwest trend, crossing the course of Fire Creek at a small angle. On the nose, however, the rocks dip steeply to the northeast, as do the overlying clastic greenstones, and on Fire Mountain the dark slates and shales dip moderately (about 45°) to the southwest. A high angle fault is thus suggested, separating the middle and upper sequences on the southwest slope of Fire Mountain.

The upper sequence of the Fire Lake Group underlies Fire Lake. Clastic greenstone, the main constituent, outcrops up to an elevation of about 5,200 feet on the southwest slope of Fire Mountain and up to the top of the ridge southwest of the lake. In many places the greenstone becomes schistose, and is more accurately termed a chlorite schist. The green colour of these rocks is derived chiefly from chlorite and, to a lesser extent, from epidote. In thin sections, a complex texture characteristic of rocks that have undergone low-grade hydrothermal alteration is revealed. Medium-grained clastic plagioclase crystals commonly form about one third of the greenstone and are embedded in a very fine grained, complex matrix of plagioclase, quartz, and chlorite. Both the large plagioclase crystals and those in the matrix have been altered to albite. The broad twin lamellae preserved in the larger crystals indicate that pseudomorphic metasomatism has converted to albite a much more calcic plagioclase. Epidote is highly variable in abundance but is commonly a major constituent of the greenstones. Rarely the greenstone contains a few small garnets. Bedding is rarely distinct in the greenstones but where present beds trend northwest and dip steeply northeast.

Within the greenstones at about 4,000 feet elevation on the ridge south of Fire Lake is a thin bed of light brown, schistose conglomerate, containing elongated pebbles of light grey, fine-grained quartzite. Few of the pebbles exceed one inch in length. The matrix is fine-grained clastic material similar to the greenstones into which it grades. The deformation of the pebbles indicates that strong shearing forces have affected parts of the greenstone sequence.

Higher on the ridge south of Fire Lake, but stratigraphically beneath the greenstone, are beds of impure feldspathic quartzite and greywacke. The feldspathic quartzite is coarser than most of the greenstones and superficially resembles some fine-grained diorites. The greywacke contains small, dark, very fine grained rock fragments which appear to be shale or argillite derived probably from the middle sequence of the Fire Lake Group. On top of the ridge south of Fire Lake the dioritic-looking feldspathic quartzite is cut by stringers of medium-grained, quartz-rich granodiorite.

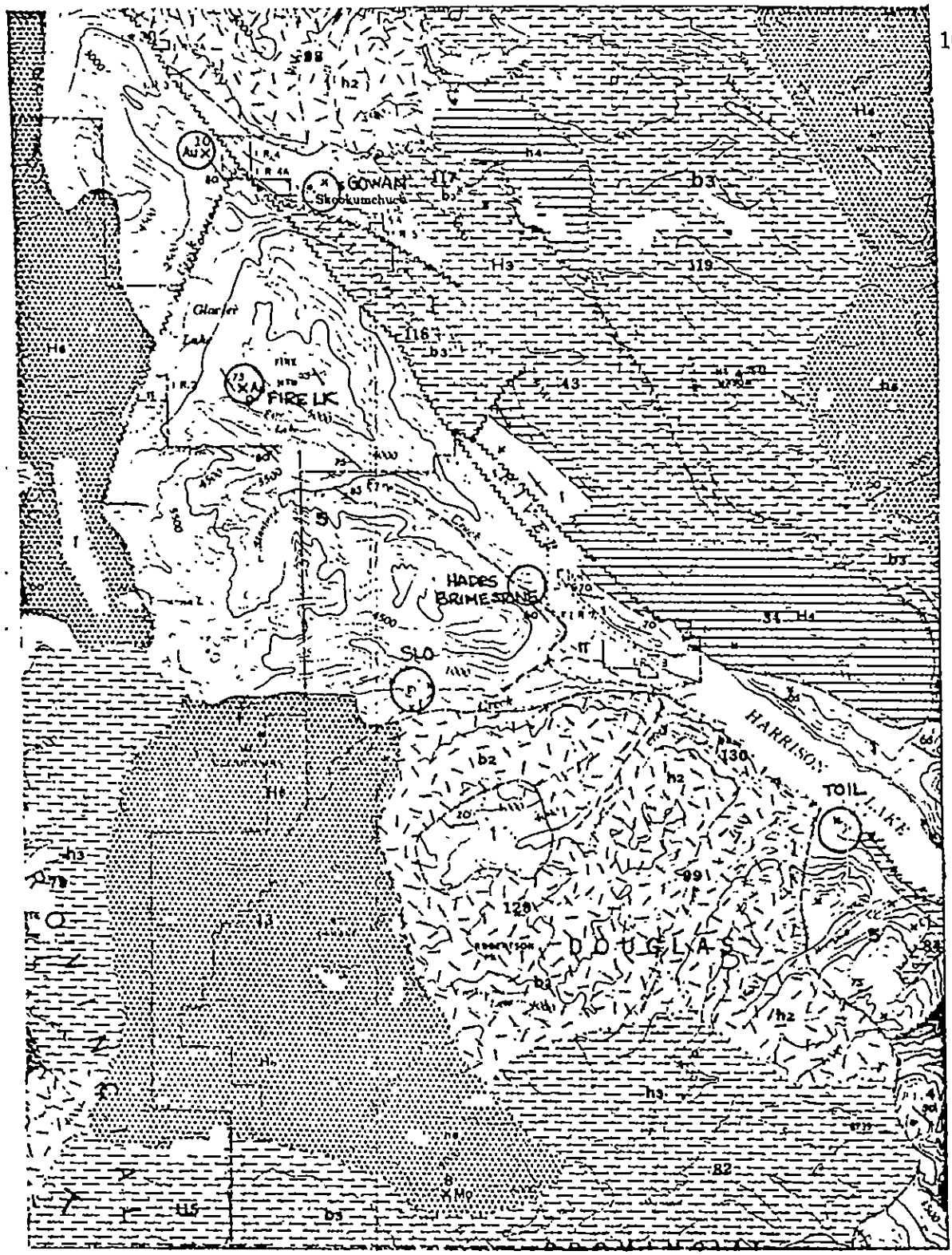


FIGURE 3 - Regional Geology
Mineral Properties Shown as Circles

Legend - Figure 3.

CENOZOIC

QUATERNARY

Alluvial, marine and glacial deposits

GARIBALDI GROUP: basalt andesite, dacite, and rhyodacite flows; minor pyroclastic rocks. (May include some Tertiary)

TERTIARY

EOCENE

MIDDLE EOCENE AND LATER

Basalt flows or sills; dykes and minor pyroclastic rocks

Sandstone, shale, and conglomerate; minor tuff and coal

MESOZOIC

CRETACEOUS

UPPER CRETACEOUS

7 — *HELM FORMATION: argillite, quartzite, sandstone, conglomerate, limestone and arkose; paragneiss*

JURASSIC AND CRETACEOUS

UPPER JURASSIC AND LOWER CRETACEOUS

6 — *GAMBIER GROUP: tuff, breccia, agglomerate, andesite, argillite, greywacke, quartzite, and conglomerate; minor schist, granulite, limestone, lime-silicate rock, skarn*

5 — *FIRE LAKE GROUP: greenstone, slate, chlorite schist, greywacke, granulite, andesite, conglomerate, quartzite; minor limestone*

JURASSIC

MIDDLE JURASSIC

HARRISON LAKE FORMATION: porphyritic meta-andesite and meta-dacite; minor breccia and arkose

LOWER AND MIDDLE (?) JURASSIC

CULTUS FORMATION: slaty argillite; minor shale, siltstone, greywacke, shaly limestone, and silicified argillite

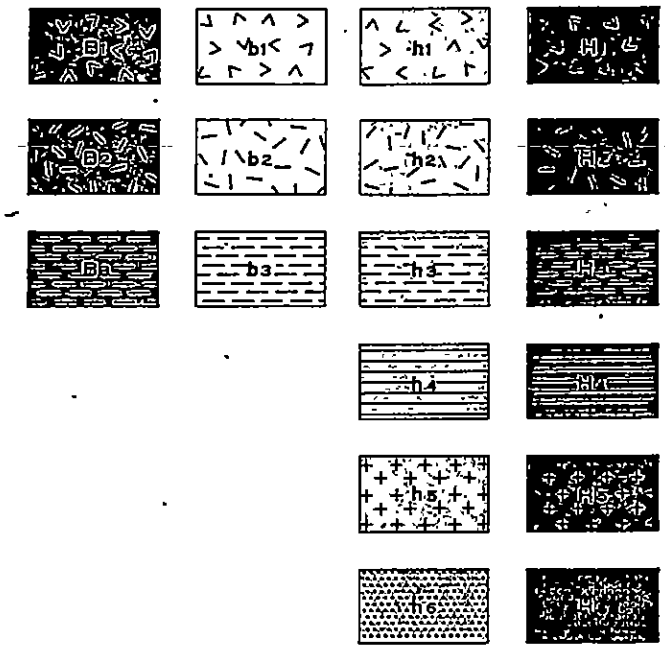
PRE-JURASSIC

2 — *BOWEN ISLAND GROUP: mainly greenstone; minor chert and greywacke*

1 — *TWIN ISLAND GROUP: hornblende-granulite, amphibolite, gneiss, schist, conglomerate, quartzite, meta-arkose, lime-silicate rock; migmatite*

COAST PLUTONIC ROCKS

Varieties B3, b1, h1, and h5 are present in the map-area, but cannot be shown on the scale used



1. *Granite*
2. *Granodiorite*
3. *Quartz diorite*
4. *Diorite*
5. *Gabbro*
6. *Migmatite*

B. *biotite is the only mafic mineral present in appreciable amounts*

b. *biotite is more abundant than hornblende*

h. *hornblende is more abundant than biotite*

H. *hornblende is the only mafic mineral present in appreciable amounts*

The vertical line at left indicates the estimated period of formation and evolution of the plutonic rocks

Projections to the left indicate probable major periods of movement of the plutonic rocks

On the basis of fossils from one bed of the thick assemblage, Roddick regards the Fire Lake Group as being Jurassic to early Cretaceous age. On the basis of lithology, he suggests that the Gambier Group occurring in the Britannia Beach area, may be correlative.

Many of the pendants of Gambier Group, Fire Creek Group or Harrison Lake volcanics near and within the project area have associated mineral deposits. For example, the Britannia copper-zinc-barite-gold-silver deposits (massive sulfide and stringer ore); the Seneca "Kuroko" type deposit, the Lynn Creek zinc occurrences and the Indian River "stringer" sulfide zones.

Within the Fire Creek pendant itself, strongly pyritic zones are being investigated at Sloquet Creek and quartz veins with arsenopyrite and gold at the old Fire Lake gold camp. Gold is reported to occur in volcanic breccia with base metal sulfides at the Mayflower-Dandy showing 13 miles north of Fire Creek in the same belt of rocks. Gold silver mineralization was also reported at Gowan Creek (Cairnes, 1927).

PROPERTY GEOLOGY

Rocks mapped in the 1985-1986 survey are believed to represent the broad part of the upper greenstone formation as described by Roddick. Exposures occur along the steep valley walls of Fire Creek and northwards on more gentle slopes. To the south, bedrock is buried beneath a thick section of glacial till cover as shown on Figure 4 (pocket). The limit of extensive till

cover as shown on Figure 4 probably follows the location of the access road to the southeast. Rock types and contacts have been obscured by metamorphism, hydrothermal alteration and by complex faulting. The following stratigraphic description is therefore somewhat interpretive.

The oldest rocks on the property are shales with minor andesitic tuffs probably of the uppermost lower unit of Roddick. They are unaltered or weakly bleached with minor pyrite and therefore were used as a limit of mapping to the southwest.

Overlying this unit and largely in fault contact is a fairly uniform section of scapolite schist. This rock is pale to medium grey wavy banded schist with 1-15% fine disseminated pyrite, abundant sericite, and knots of quartz-carbonate-scapolite(?) with minor talc. Identification of scapolite is tentative. It is a hard bright yellow silicate with a weak parting. This unit occurs almost entirely south of Fire Creek with a flat to gently south dipping attitude. Some local zones of silicification occur particularly towards the top of the unit.

Above the scapolite schist and in apparent fault contact is a distinctive looking feldspar crystal tuff. Although it is called a tuff its origin is somewhat uncertain. Typical specimens contain 50 to 80% elongate feldspar crystals up to 10 mm long lying in planar 'beds' with a matrix of quartz-feldspar-sulfide, occasionally only pyrite.

In some of the better exposures such as at R572 and near R603 distinct 'beds' of feldspar crystal tuffs can be traced

across the outcrop. Here each bed measures one to 10 cm thick and is made up of feldspar lathes of a uniform size bordered on each side by other textured beds of this same unit. Occasional beds of siliceous chert with abundant fine-grained feldspars occur in the section as do beds of fine-grained feldspar rich tuff with randomly oriented feldspars. Some sericite-chlorite schist like that described below also occurs within the unit.

Sericite-chlorite schist occurs "interbedded" within the feldspar crystal tuff and to a larger extent above this unit. It is characterized by intensely sheared, very planar schist with abundant sericite and chlorite and one to 5% disseminated pyrite. Much if not all of this unit could represent hydrothermally altered sections of feldspar crystal tuff or andesitic tuff, as it occurs within these two units and along strike of a feldspar crystal tuff section apparently grading into andesitic tuff from C555 to C523, and from R516 to R460.

The uppermost rock unit mapped is green andesitic tuff. Only the basal part of this unit was mapped as the section appears to be unaltered and very thick to the northeast.

ALTERATION AND MINERALIZATION

The most striking alteration effect is the formation of jasperoid, formed by intense replacement by silica to such an extent that the original rock texture has been obliterated. Sulfide content is generally less than 1%. Two jasperoid bodies have been mapped. Both are generally lenticular in shape lying

parallel to schistosity and have strike lengths exceeding 200 metres. The jasperoid between R634 and R642 contains some silicified feldspar crystal tuff.

Intense silicification with accompanying heavy pyrite mineralization occurs in feldspar crystal tuffs from C751 north of Fire Creek to R521 south of Fire Creek. This section has the highest gold values collected from the property and provided the drill target for the 1987 drill program. Black chalcedonic silica occurs as massive pods and lenses up to two metres wide at C589 and as smaller lenses and wispy "fragments" along strike at least as far as R528 to the southeast and C568 to the northwest. A four metre wide section of jasperoid occurs within this zone of silicification.

Another section of silicified feldspar crystal tuff that is also anomalous for gold occurs as a 35 metre wide zone between R506 and R547 and extends in a northwesterly direction 90 metres to the ridge line and then possibly another 270 metres across the area marked "Inaccessible Rusty Bluffs" on Figure 4 to a 40 metre wide silicified feldspar crystal tuff zone between R582 and R588 that is also anomalous for gold. This section contains minor black chalcedony wisps and "fragments" at R542 and R552 and a four metre wide quartz vein at R560. Pyrite content is generally two to five percent.

Bleached andesitic tuff with 1 - 5% pyrite has been flooded with silica in outcrops between C521 and C531 and at R599. Bleaching of tuffs with 1 - 5% pyrite is common throughout the

mapped area.

The scapolite-quartz-carbonate clots found in the scapolite schist is probably a hydrothermal alteration feature as is much of the development of the sericite in both of the schists. Feldspars in the feldspar crystal tuff unit are commonly clay altered where they have not been silicified. Pyrite is common throughout all exposures of scapolite schist, feldspar crystal tuffs and sericite schists and much of the upper andesitic tuff.

STRUCTURE

Numerous steep faults have been interpreted as shown on Figure 4 to be subparallel to Fire Creek. These faults probably played a major role in the introduction of hydrothermal fluids associated with gold mineralizing events although a direct relationship cannot be proven.

Low angle faults occur in the eastern portion of the map area where they display pyrite-sericite alteration. Other low angle faults probably exist in the nearly flat lying scapolite schist. It is not known if any significant movement has occurred on these faults.

Tight small scale kink folds were observed in schists at R532 where fold axes were near vertical and at R614 where fold axes were flat, striking northwesterly.

DIAMOND DRILL PROGRAM - 1987

In November and December of 1987 a diamond drill exploration program was completed on the Hades and Brimstone claims. The decision to drill the property was based on the previous mapping and sampling programs which outlined a large NW-SE trending gold geochemistry anomaly with economic grade gold values (0.293 oz/T) on surface outcrops.

The proposed program was to drill several holes to test gold grades in the alteration system at varying depths and over a strike length of approximately 200 metres. Drilcor Industries Ltd., Delta, B.C., was contracted to do the drilling.

Nine diamond drill holes for a total of 850 metres were completed off the north side of Fire Creek (see map in pocket). Three of the holes that were directed towards the area with the highest surface gold geochemistry values were stopped short of the target due to technical difficulties (DH-2, DH-5, and DH-8). Drill hole number six was also abandoned in the early stages due to technical problems.

'NDB' size drill rods with a 2.2" core diameter were used for maximum recovery in the rock which was expected to be very soft due to the high chlorite-sericite content. Overall recovery was greater than 90% with only a few small sections in the near surface weathered zone having less than 50% recovery.

DRILL LOG RESULTS (See Appendix for detailed drill logs)

Eight holes intersected a zone of strong quartz-sericite alteration in a host of sericite-chlorite schist. Where bleaching and alteration is weakest, the original rock type is seen to be a series of green chloritic andesite intrusives and feldspar crystal tuffs interbedded with thinly bedded mudstones and siltstones. Sulfide content in the green andesitic layers is less than 3% disseminated and bedded pyrite, pyrrhotite, with minor chalcopyrite. In the clastic rocks the sulfide content is higher (10-15%) and consists of thin layers of primary pyrite, pyrrhotite, with minor chalcopyrite.

The altered zone consists of strong sericite alteration and chalcedonic silicification with 20 to 40% disseminated and fracture sulfides. Sulfides also occur in massive veins up to 20 cm wide. Pyrite and pyrrhotite are the main sulfides with minor amounts of hematite, chalcopyrite, sphalerite, and arsenopyrite, and traces of bornite, acanthite, pyrargyrite, and native copper. Massive quartz veins up to 50 cm wide are common throughout the alteration zone. The quartz veins typically contain less than 5% disseminated and fracture sulfides. The center of the alteration envelope is marked by a densely faulted and fractured hydrothermal breccia with intense argillic-potassic clay alteration and grey, chalcedonic silicification. Sulfide content in the breccia is 20-40% and consists almost entirely of disseminated and fracture pyrite. The alteration envelope is asymmetrical around the breccia zone. Alteration intensity increases

gradually over 10m in the structural hanging wall of the zone but ends abruptly at a fault on the footwall side (downhole).

GEOCHEMISTRY RESULTS (See Appendix)

The drill core was split using an air driven core splitter and half of the core was put into large (12x15") plastic sample bags which were numbered to indicate the sample interval. Samples were taken every 1.5 metres which produced a sample weighing approximately 10 pounds. The remaining half of the core was saved in wooden core boxes and stored on site near drill hole #7. The samples were sent to Acme Analytical Laboratories Ltd. in Vancouver and were analyzed for Au, Ag, Cu, Pb, Zn, Mo, Ba, Mn, As, Ni, and Co. The fire assay method was used for gold giving an ounce per tonne value. The other elements were analyzed using the ICP method with the results in parts per million.

In holes DH-1, DH-3, DH-4, DH-7, and DH-9 a strong gold anomaly (Zone A on log-geochem profiles in Appendix) approximately 20 metres wide occurs in the footwall side of the alteration zone. This anomaly increases in strength towards the southeast with peak values of 0.173 oz/T (DH-1), 0.032 oz/T (DH-3), 0.033 oz/T (DH-4), 0.056 oz/T (DH-7), and 0.024 oz/T (DH-9). Two smaller gold anomalies (Zone B and C) are traceable through all the holes by comparing the gold concentration profiles (Appendix) and the geochemical characteristics. Gold grades are up to 0.113 oz/T in Zone B and 0.028 oz/T in Zone C. The

anomalous gold zones occur in the areas with the highest sulfide content (typically 40+%).

The strongest gold anomalies are also anomalous for silver (up to 4 oz/T), copper (up to 1.2%), lead (up to 0.5%), zinc (up to 2.0%), and arsenic (up to 0.25%). The molybdenum (Mo) concentration is generally low (0-5 ppm), however values as high as 30 ppm occur with the higher gold values. Barium and manganese concentrations vary from 0-20 ppm in the stronger altered zones to much higher values in the unaltered host rock (Ba: 20-100 ppm; Mn: 1000-6000 ppm). The highest manganese concentrations occur in the unaltered footwall rock. Variation in the nickel and cobalt concentration is slight and appears to be unrelated to the alteration. Anomalous nickel values (15-40 ppm) occur in several areas associated with dark grey-green unaltered mafic intrusives.

SUMMARY AND CONCLUSIONS

The drilling program completed in 1987 on the Fire Creek property outlined a large sulfide bearing quartz-sericite-chlorite alteration zone. The size of the zone based on drill intersections is approximately 20 metres in true thickness in DH-9 (northwesternmost hole) to 40 metres in DH-3 (southeasternmost hole). Strike length outlined by the drill holes is approximately 200 metres with the depth of the alteration zone being greater than 120 metres. The alteration was weaker in the holes to the northwest indicating that the zone may be starting to pinch out in this direction. To the southeast the alteration was very intense and probably continues for several hundred metres.

The 1987 program outlined several continuous gold bearing zones (Zones A, B, and C) with grades up to 0.173 oz/T and anomalous concentrations of Cu, Pb, Zn, and Ag. Further drilling is required to find the limits of the gold bearing zones as they are still open at both ends. Due to an apparent increase in gold grade towards the southeast (based on surface gold geochemistry and drill results) it is recommended that the second stage of drilling concentrate on this area. A helicopter will be required for drill moves to ensure reaching the desired targets, as road construction is impractical on the steep, rocky slopes.

The presence of significant amounts of primary sulfides and the high Cu, Pb, Zn, and Ba content in the holes drilled suggest a high potential for massive sulfide deposits in the claim area.

Recommendations are for more detailed structural mapping and sampling to check out this potential. Also a geophysical heli-borne EM survey should accompany mapping to check for conductors in the area. The estimated costs of the recommended exploration are as follows:

Helicopter assisted drilling - approximately 2000' :	100,000
Geological mapping and sampling :	25,000
Geophysical helicopter - EM survey :	25,000
Total:	150,000

Respectfully submitted,

James S. Christie, Ph.D.

David R. Bennett

David R. Bennett, B.Sc.

CERTIFICATE OF QUALIFICATIONS

I, James S. Christie of Vancouver, British Columbia do hereby certify that,

1. I am a Professional Geologist residing at 3921 W. 31st Ave., Vancouver, B.C. V6S 1Y4.

2. I am a graduate of the University of British Columbia B.Sc. Honours Geology - 1965, Ph.D. Geology - 1973.

3. I have practiced my profession as a mining exploration geologist, continuously since 1965.

4. I am a Fellow of the Geological Association of Canada.

5. I am a Member of the Geological Society of America.

6. This report is based on my personal knowledge of the district, and mapping of the geology at the property.

James S. Christie, Ph.D.

CERTIFICATE OF QUALIFICATION

I, David R. Bennett of Vancouver, British Columbia do hereby certify that,

1. I am a Professional Geologist residing at Suite 303, 8655 Oak Street, Vancouver, B.C. V6P 4B2.

2. I am a graduate of the University of British Columbia B.Sc. Geology - 1983.

3. I have practiced my profession as a mining exploration geologist since 1983.

4. This report is based on my personal knowledge of the district, and mapping of the geology at the Property.

David R. Bennett

David R. Bennett, B.Sc.

DETAILED COST STATEMENT

FIRE CREEK DIAMOND DRILLING
Nov. 7, 1987 to Feb. 14, 1988

Direct Drilling Costs	
Drilcore Invoices Nos. 8734-1 to 4	$ 82,549,57
Analytical Costs	
Acme Labs Invoices {6}	8,443.50
Time and Disbursements	
Gimlex Enterprises Invoice {copy follows}	59,983.92
TOTAL COST	$150,976.99

Gimlex Enterprises Ltd.

3921 West 31st Avenue
Vancouver B.C. V6S 1Y4
Telephone 604-228-8054

Feb 15,1988.

Englefield Resources Ltd.,
1101 - 736 Granville St.,
Vancouver, B.C.
V6Z 1G3

Dear Sirs,

The following is our bill for carrying out the diamond drilling program on the Fire Creek Property, logging and sampling of the core and preparation of the drill report.

Time Charges	
James S. Christie Ph.D. Geologist Nov. 6-30, Dec. 1-14,21,28-31, Jan. 2,4-7,14-17,19-23, 26,27, Feb. 6-8,10. 64 days @ $350	$ 22,400.00
David Bennett B.Sc. Geologist Nov. 30, Dec. 1-13, ½16,17,18,21-23,½27, Jan. 5-7,9, 10,12--15,19-22,25-27, Feb. 3,¼,7-11,½12,14. 47 days @ $250	11,750.00
D.U. Christie-expediting,camp, cooking. Nov. 10-23, Dec. 14-16. 17 days @ $100	1,700.00
Supplies and Equipment Rentals	
Bunkhouse-Showerhouse-Cookhouse fully equiped 6 weeks @ $750	4,500.00
Camp and Equipment incl. tarps,chainsaws,waterlines, tools,electrical lines,freezer 6 weeks @ $275	1,650.00
SBX 11 Radiotelephone 6 weeks @ $ 75	450.00
Honda 3 Kva Generator 6 weeks @ $ 70	420.00
Propane heaters (3) with tanks 6 weeks @ $ 15	270.00
JKS air driven core splitter 2 months @ $ 250	500.00
Chev Suburban 3/4 ton 4X4 6 weeks @ $ 400	2,400.00
GMC Pickup 3/4 ton 6 weeks @ $ 350	2,100.00
GMC Jimmy ½ ton 1 week @ $ 350	350.00
Kilometres all trucks - Sub 2100, pu-5772, Jim 1820 total 9692 @ 13¢	1,260.00
Shop area and yard area for logging core, splitting and storage Dec-feb. 3 months @ $ 300	900.00
Disbursements J.S. Christie (see backup attatched)	
Meals and groceries	445.91
Vehicle operating, gas	1,216.38
Camp supplies, hardware , misc.	649.22
Core splitting, assay, sampling	675.77
Replacement of items damaged, lost or broken	418.78

Con"t page 2--

Englefield Resources Ltd. Con't Page 2----------

Disbursements Gimlex Enterprises (see backup attatched)		
Repairs to JKS Core Splitter		$ 116.12
D. Bennett Expenses		297.68
Costco Wholesale	11/15/87	1,363.30
	12/01/87	212.47
	12/08/87	912.47
B.C. Tel.	Dec. 1/87	96.36
	Jan. 1/88	169.80
	Feb. 1/88	42.44
Bondar Clegg and Co.		533.75
Budget Brake and Muf. repair damage GMC PU.		566.23
Kerris. AUTO Trans. " " " "		294.04
Core Splitting casual help		614.00
Items From Gimlex Stock		
2 sets JKS core splitter jaws		140.00
600 6 mil 12x18 sample bags with ties		168.00
12 low temp flagging		23.40
6 hip chain string		21.00
6 marker pens		9.00
1 ducksback waterproof notebook and refil		15.00
4 pentel mechanical pencils		19.80
Drill Report		
10 DuoTang heavy report covers		15.00
10 sets blueprints maps-sections		35.00
1 set xerox reductions - logs		18.00
10 copies report		105.00
Typing and wordprocessing		140.00
	TOTAL	$ 59,983.92

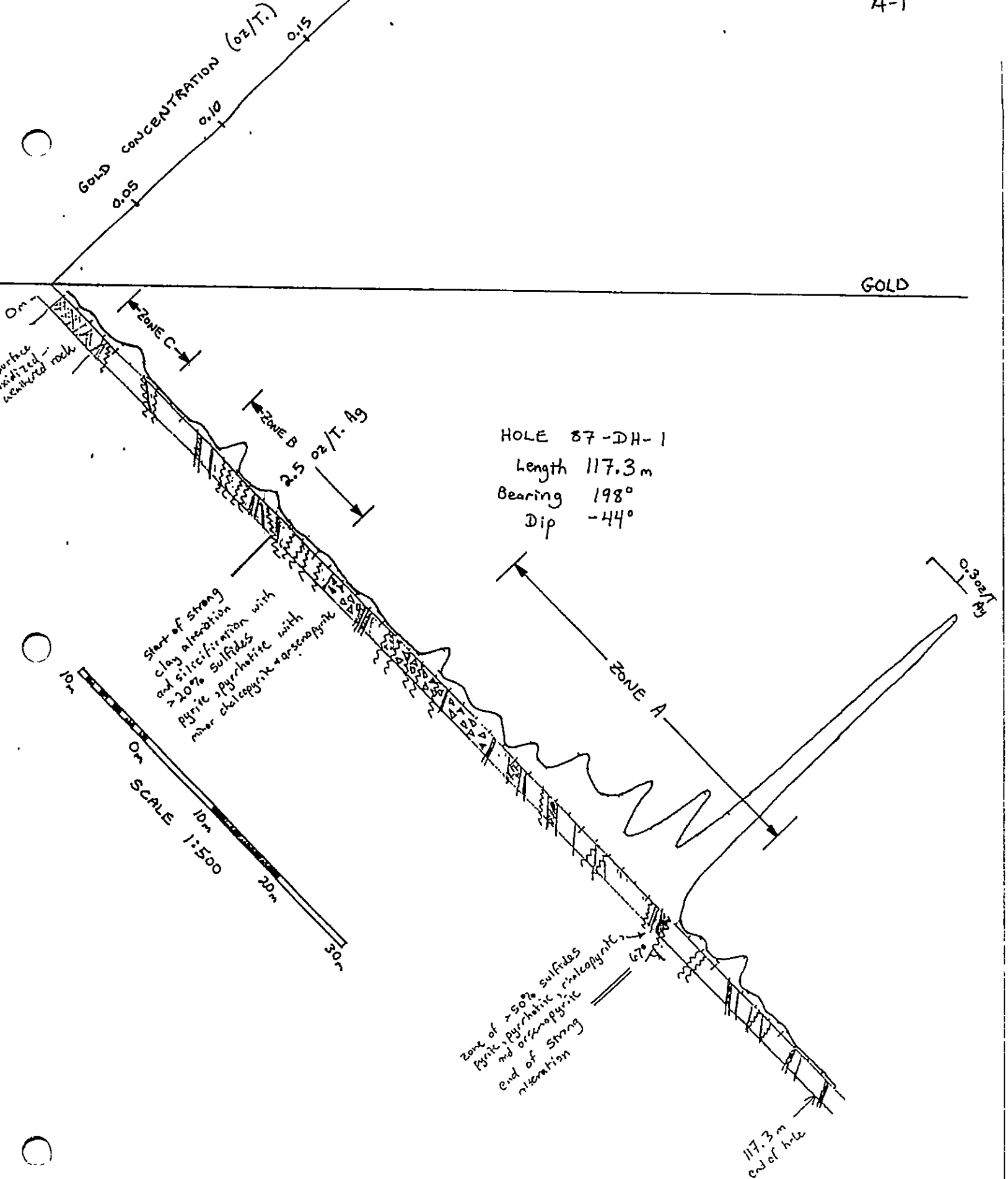
Please remit $ 59,983,92

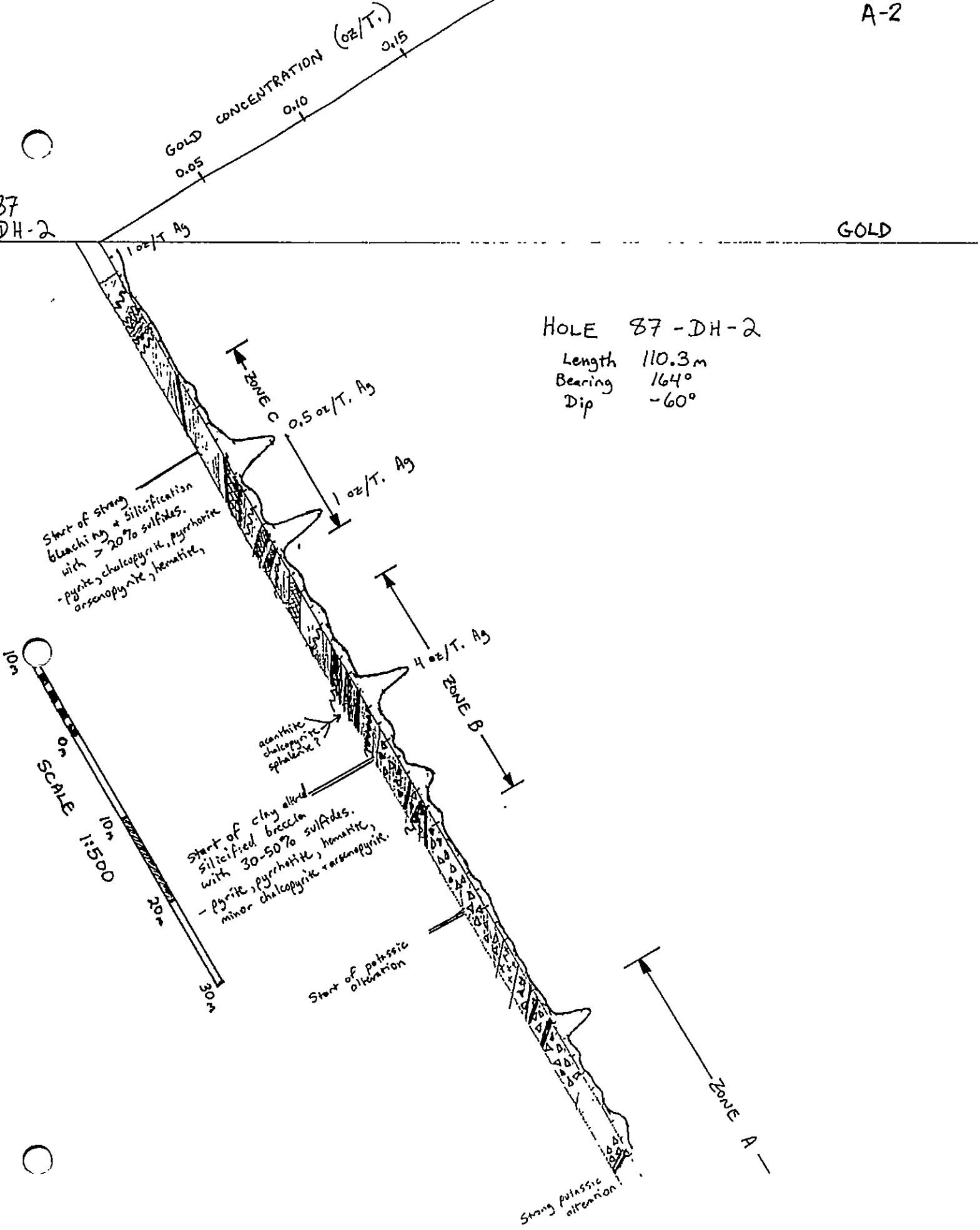
Yours truly,

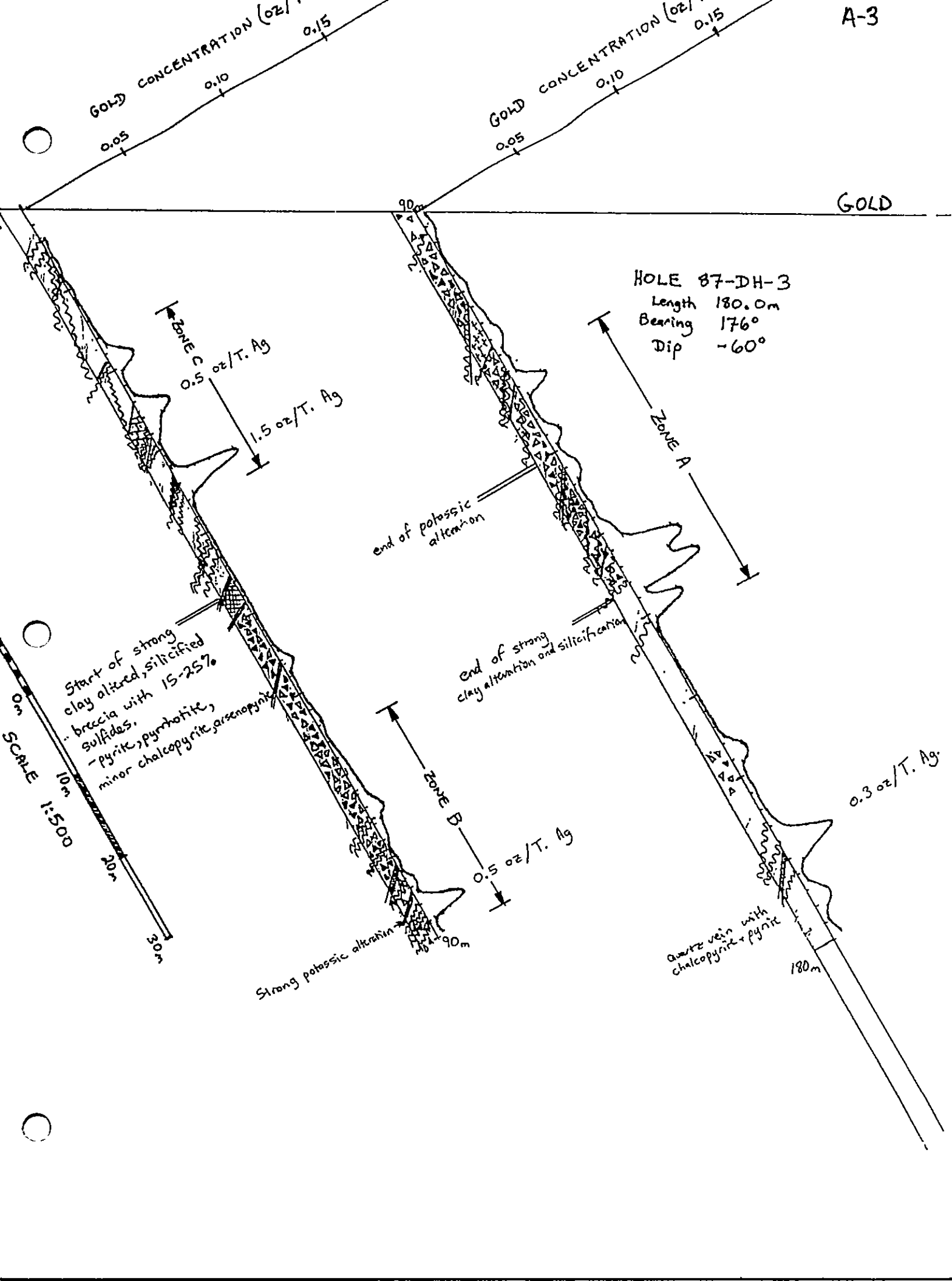
James S. Christie
President.

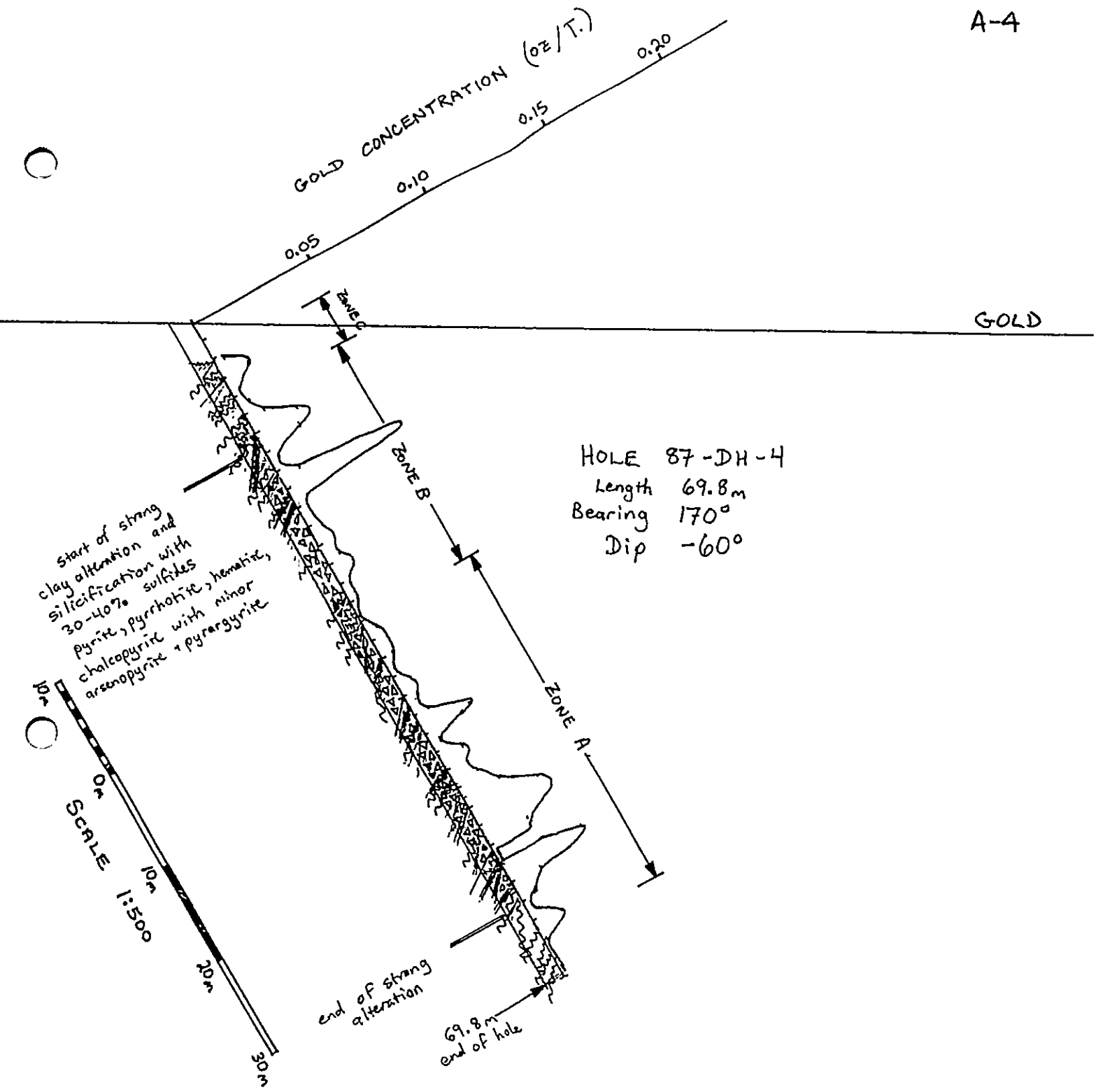
APPENDIX

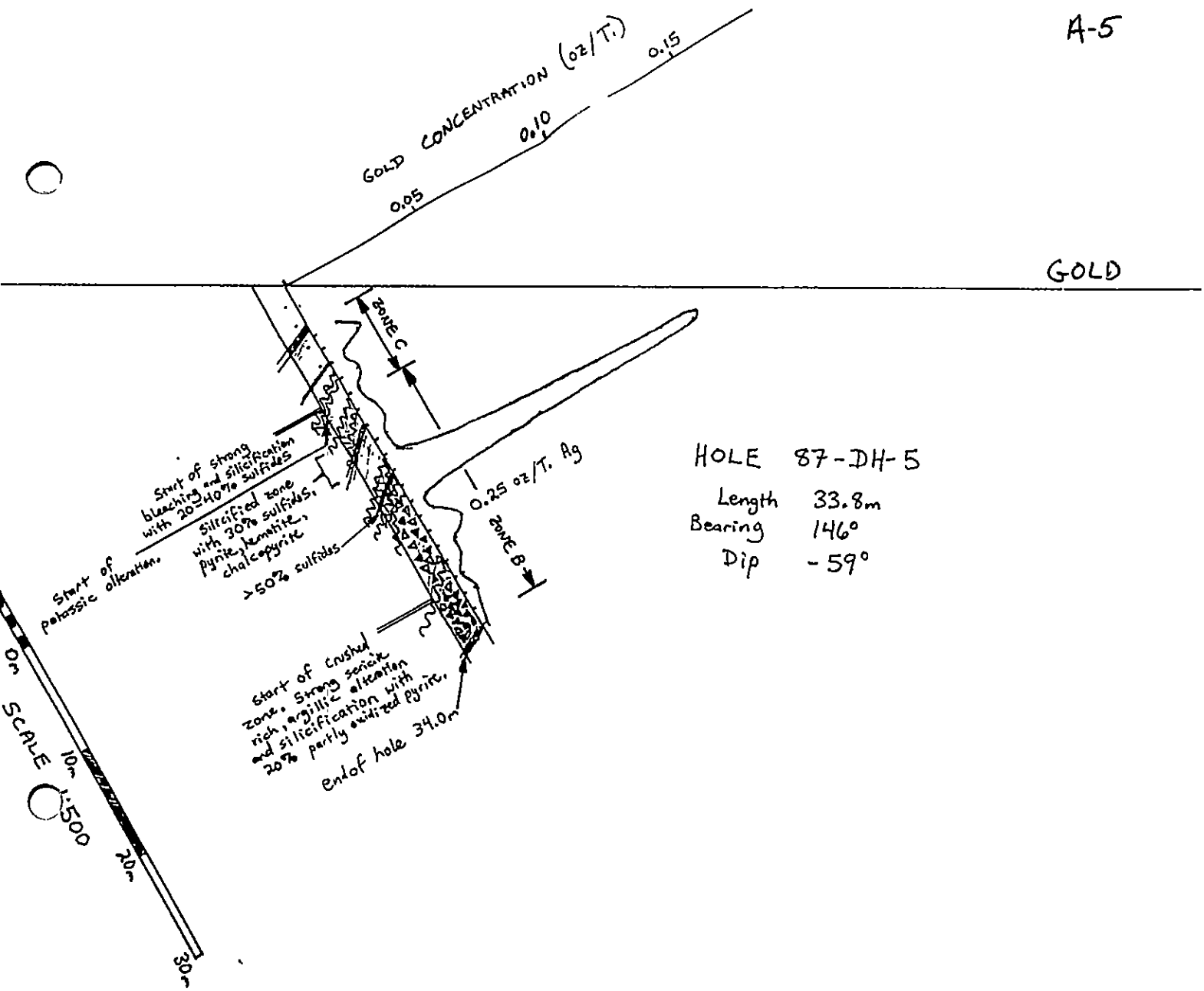
DRILL LOG AND GEOCHEMICAL RESULTS


GOLD CONCENTRATION (oz/T.)
0.15
0.10
0.05
GOLD
0m
surface oxidized weathered rock
ZONE C
ZONE B
2.5 oz/T. Ag
HOLE 87-DH-1
Length 117.3m
Bearing 198°
Dip -44°
Start of strong clay alteration and silicification with >20% sulfides Pyrite > pyrrhotite with minor chalcopyrite + arsenopyrite
ZONE A
0.3oz/T Ag
10m
0m
SCALE 1:500
10m
20m
30m
Zone of >50% sulfides Pyrite, pyrrhotite, chalcopyrite and arsenopyrite
67°
End of strong alteration
117.3m end of hole


GOLD CONCENTRATION (OZ/T.)
0.05
0.10
0.15
87
DH-2
1 oz/T Ag
GOLD
HOLE 87-DH-2
Length 110.3m
Bearing 164°
Dip -60°
ZONE C
0.5 oz/T. Ag
1 oz/T. Ag
Start of strong bleaching & silicification with >20% sulfides. - pyrite, chalcopyrite, pyrrhotite arsenopyrite, hematite,
4 oz/T. Ag
ZONE B
acanthite chalcopyrite sphalerite?
Start of clay altered silicified breccia with 30-50% sulfides. - pyrite, pyrrhotite, hematite, minor chalcopyrite + arsenopyrite.
Start of potassic alteration
ZONE A
Strong potassic alteration
SCALE 1:500
10m
0m
20m
30m

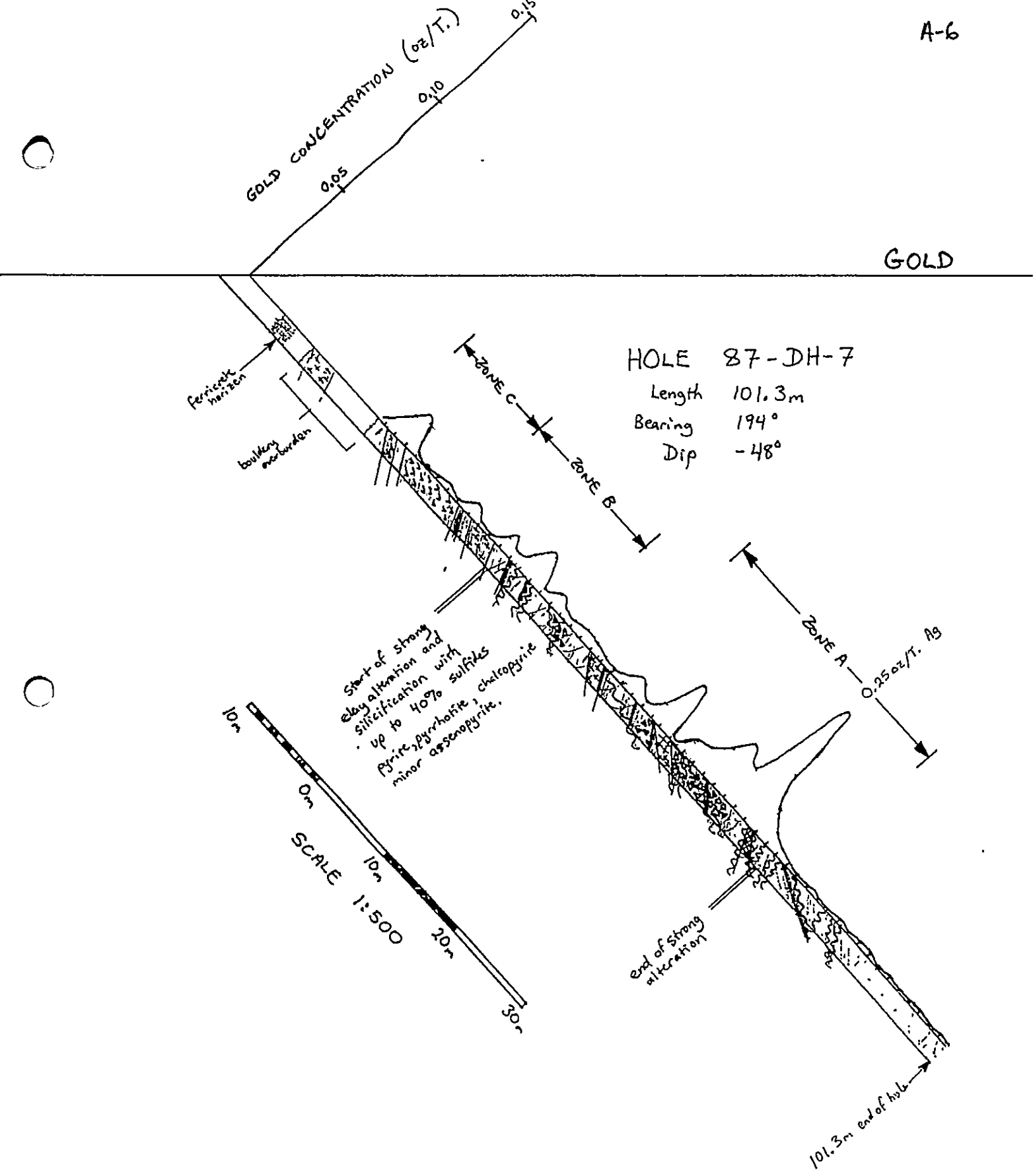

GOLD CONCENTRATION (oz/T.)
0.05
0.10
0.15
GOLD CONCENTRATION (oz/T.)
0.05
0.10
0.15
GOLD
HOLE 87-DH-3
Length 180.0m
Bearing 176°
Dip -60°
ZONE C
0.5 oz/T. Ag
1.5 oz/T. Ag
ZONE A
end of potassic alteration
Start of strong clay altered, silicified breccia with 15-25% sulfides, -pyrite, pyrrhotite, minor chalcopyrite, arsenopyrite
end of strong clay alteration and silicification
ZONE B
0.5 oz/T. Ag
0.3 oz/T. Ag.
Strong potassic alteration
quartz vein with chalcopyrite + pyrite
90m
180m
0m
10m
20m
30m
SCALE 1:500

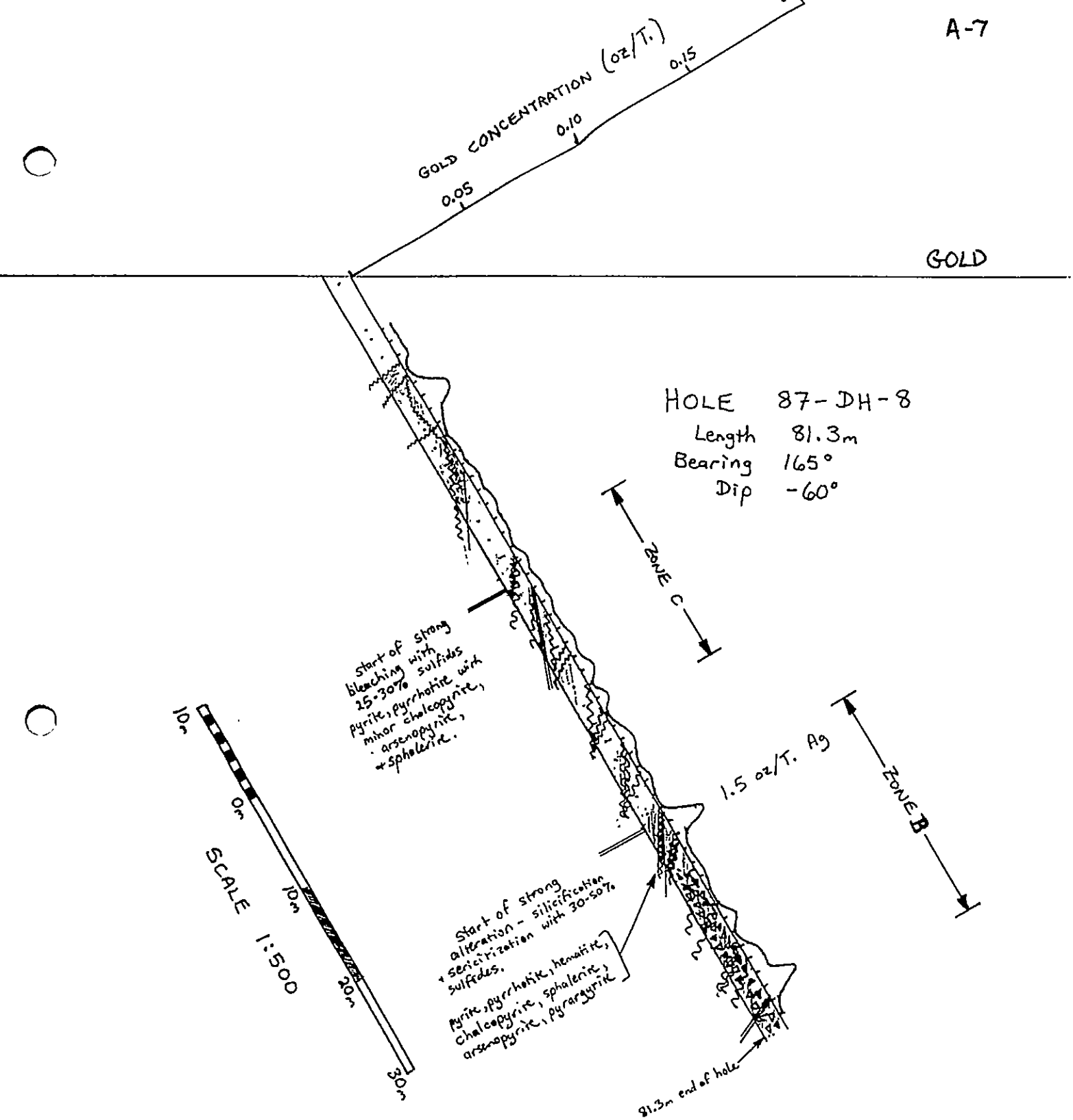

GOLD CONCENTRATION (oz/T.)
0.05
0.10
0.15
0.20
GOLD
ZONE C
ZONE B
ZONE A
HOLE 87-DH-4
Length 69.8m
Bearing 170°
Dip -60°
start of strong clay alteration and silicification with 30-40% sulfides pyrite, pyrrhotite, hematite, chalcopyrite with minor arsenopyrite + pyrargyrite
end of strong alteration
69.8m end of hole
SCALE 1:500
10m
20m
30m

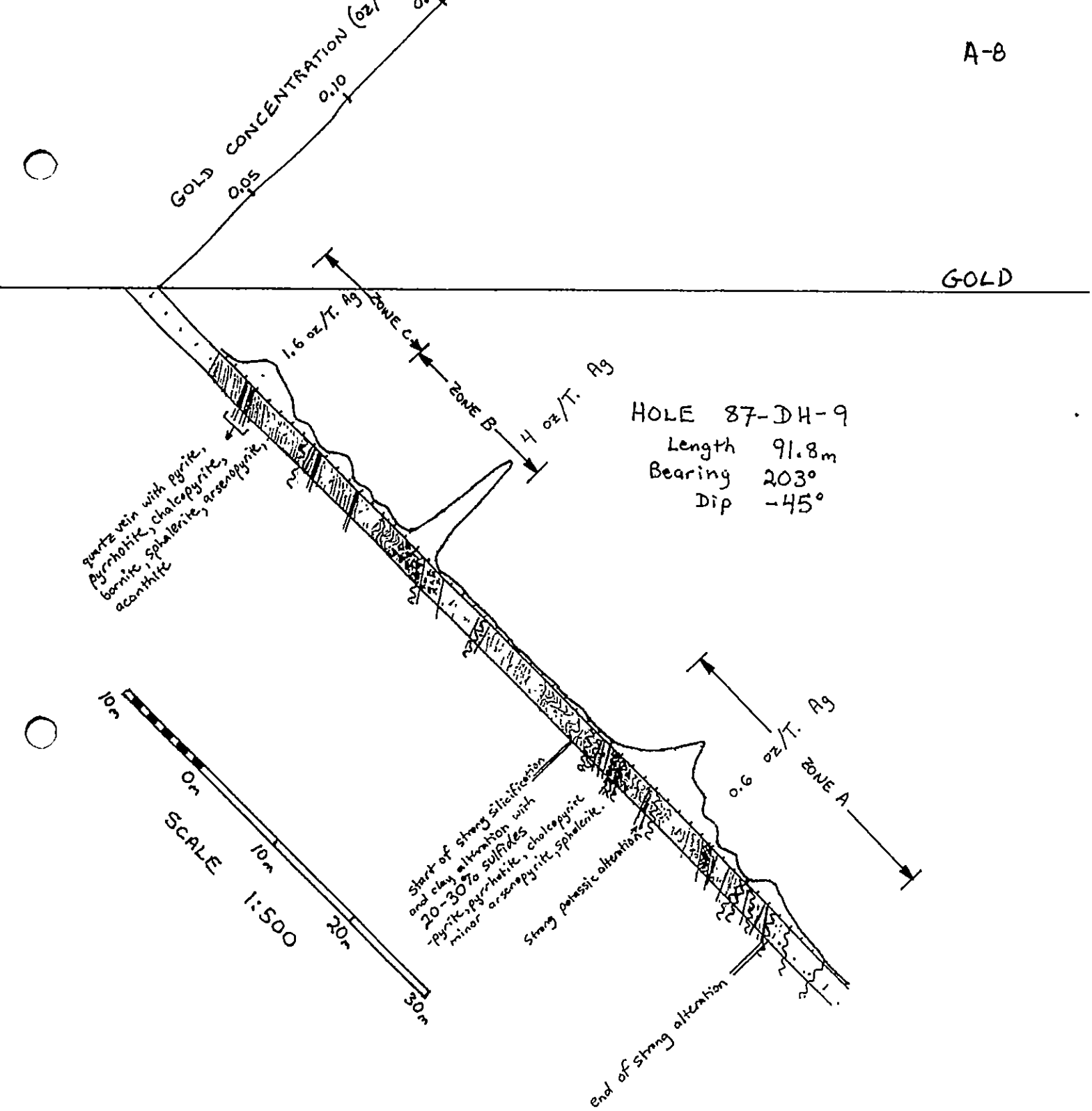


HOLE 87-DH-5

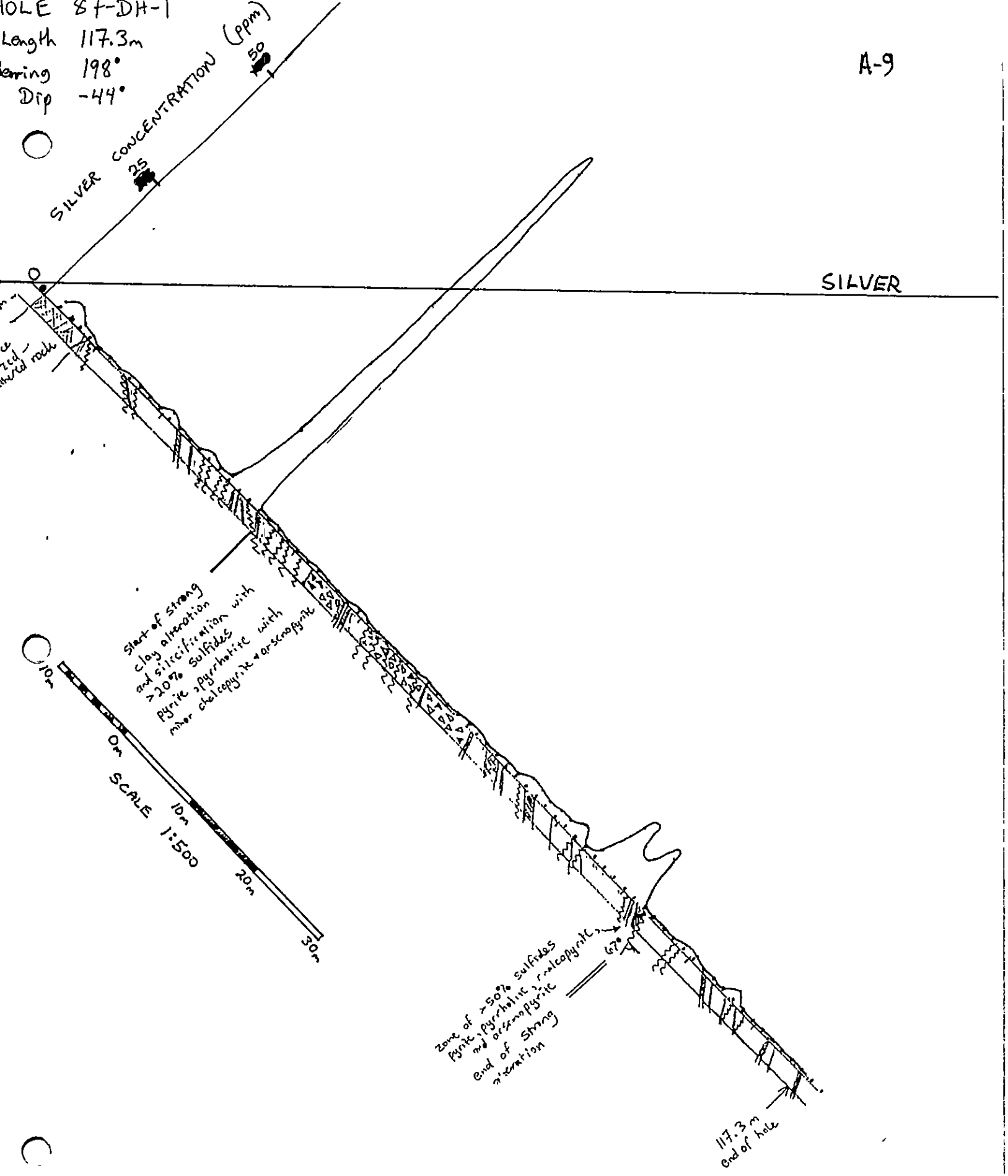
Length	33.8m
Bearing	146°
Dip	-59°


GOLD CONCENTRATION (oz/T.)
0.05
0.10
0.15
GOLD
HOLE 87-DH-7
Length 101.3m
Bearing 194°
Dip -48°
ZONE C
ZONE B
ZONE A
0.25 oz/T. Ag
ferricrete horizon
bouldery overburden
start of strong clay alteration and silicification with up to 40% sulfides pyrite, pyrrhotite, chalcopyrite minor arsenopyrite.
end of strong alteration
101.3m end of hole
0m
10m
20m
30m
SCALE 1:500


GOLD CONCENTRATION (oz/T.)
0.05
0.10
0.15
GOLD
HOLE 87-DH-8
Length 81.3m
Bearing 165°
Dip -60°
ZONE C
ZONE B
1.5 oz/T. Ag
Start of strong bleaching with 25-30% sulfides pyrite, pyrrhotite with minor chalcopyrite, arsenopyrite, ± sphalerite.
Start of strong alteration - silicification ± sericitization with 30-50% sulfides.
pyrite, pyrrhotite, hematite, chalcopyrite, sphalerite, arsenopyrite, pyrargyrite
81.3m end of hole
SCALE 1:500
0m
10m
20m
30m


GOLD CONCENTRATION (oz/
0.10
0.05
GOLD
1.6 oz/T. Ag
ZONE C
ZONE B
4 oz/T. Ag
HOLE 87-DH-9
Length 91.8m
Bearing 203°
Dip -45°
quartz vein with pyrite, pyrrhotite, chalcopyrite, bornite, sphalerite, arsenopyrite, acanthite
0.6 oz/T. Ag
ZONE A
Start of strong silicification and clay alteration with 20-30% sulfides -pyrite, pyrrhotite, chalcopyrite minor arsenopyrite, sphalerite.
Strong potassic alteration
End of strong alteration
SCALE 1:500
0m
10m
20m
30m

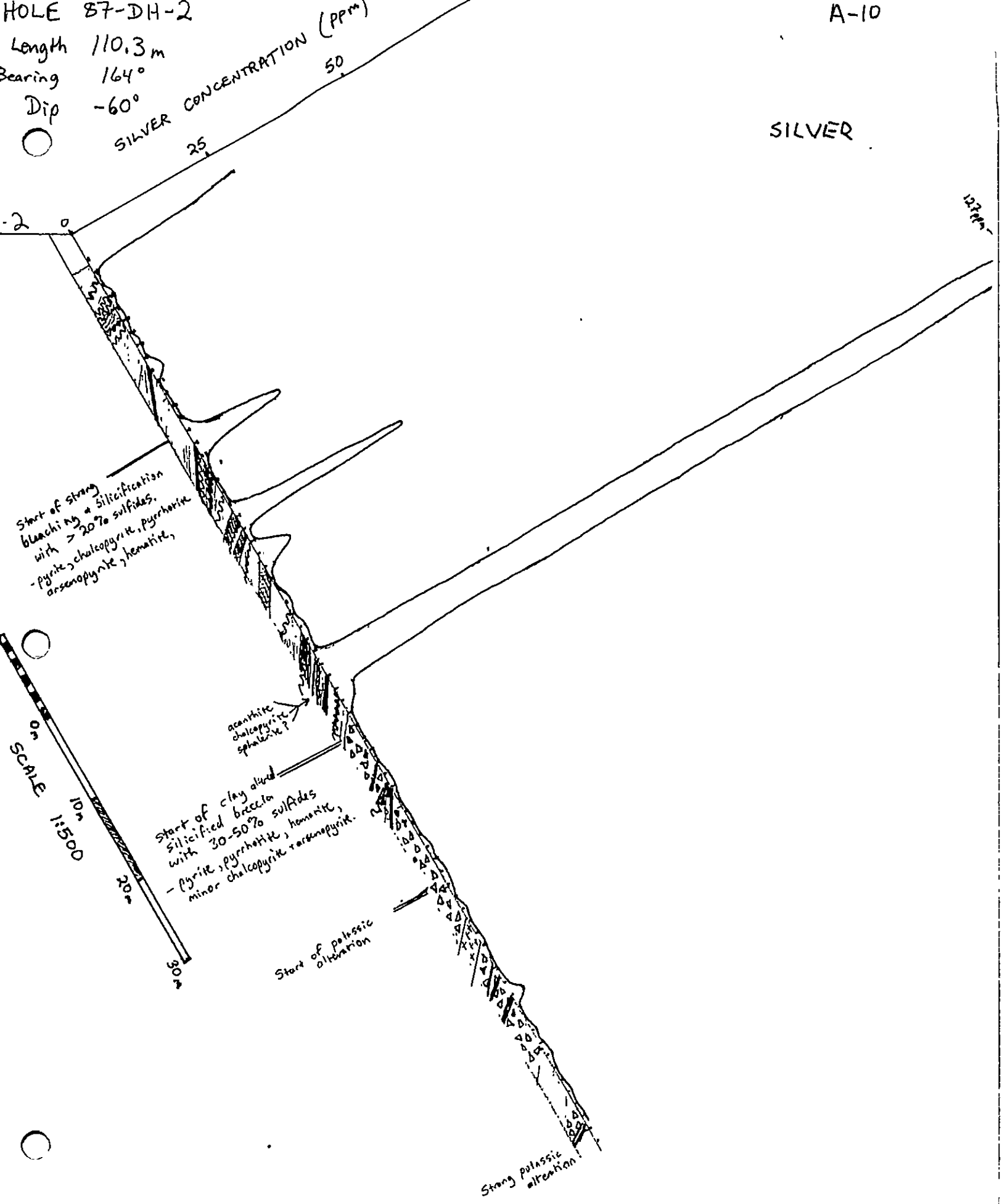
HOLE 87-DH-1
Length 117.3m
Bearing 198°
Dip -44°



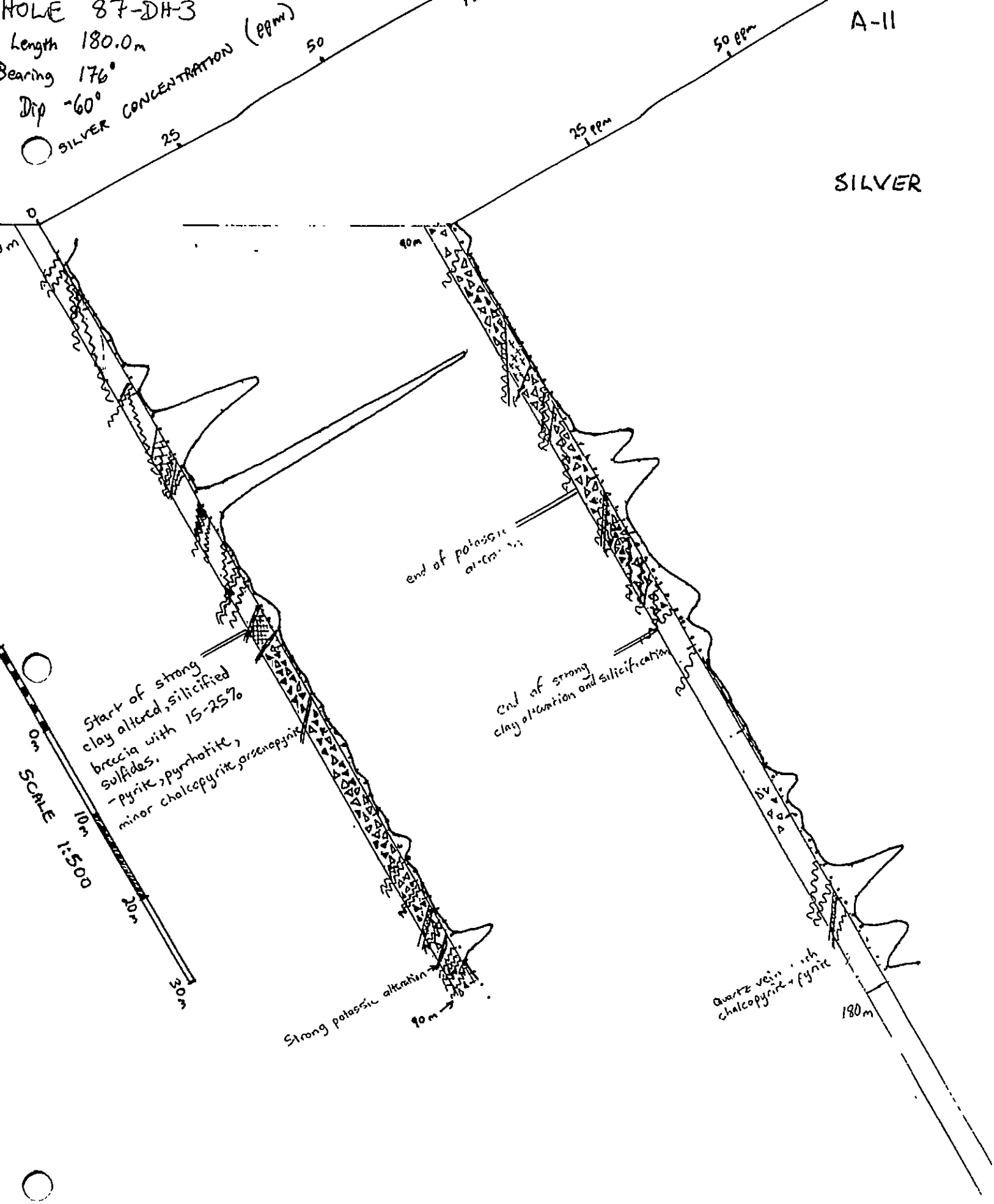
HOLE 87-DH-2
Length 110.3 m
Bearing 164°
Dip -60°

SILVER CONCENTRATION (ppm)

SILVER



HOLE 87-DH-3
Length 180.0m
Bearing 176°
Dip -60°
SILVER CONCENTRATION (ppm)
SILVER
A-11



HOLE 87-DH-4

Length 69.8m

Bearing 170°

Dip -60°

A-12

SILVER CONCENTRATION (ppm)

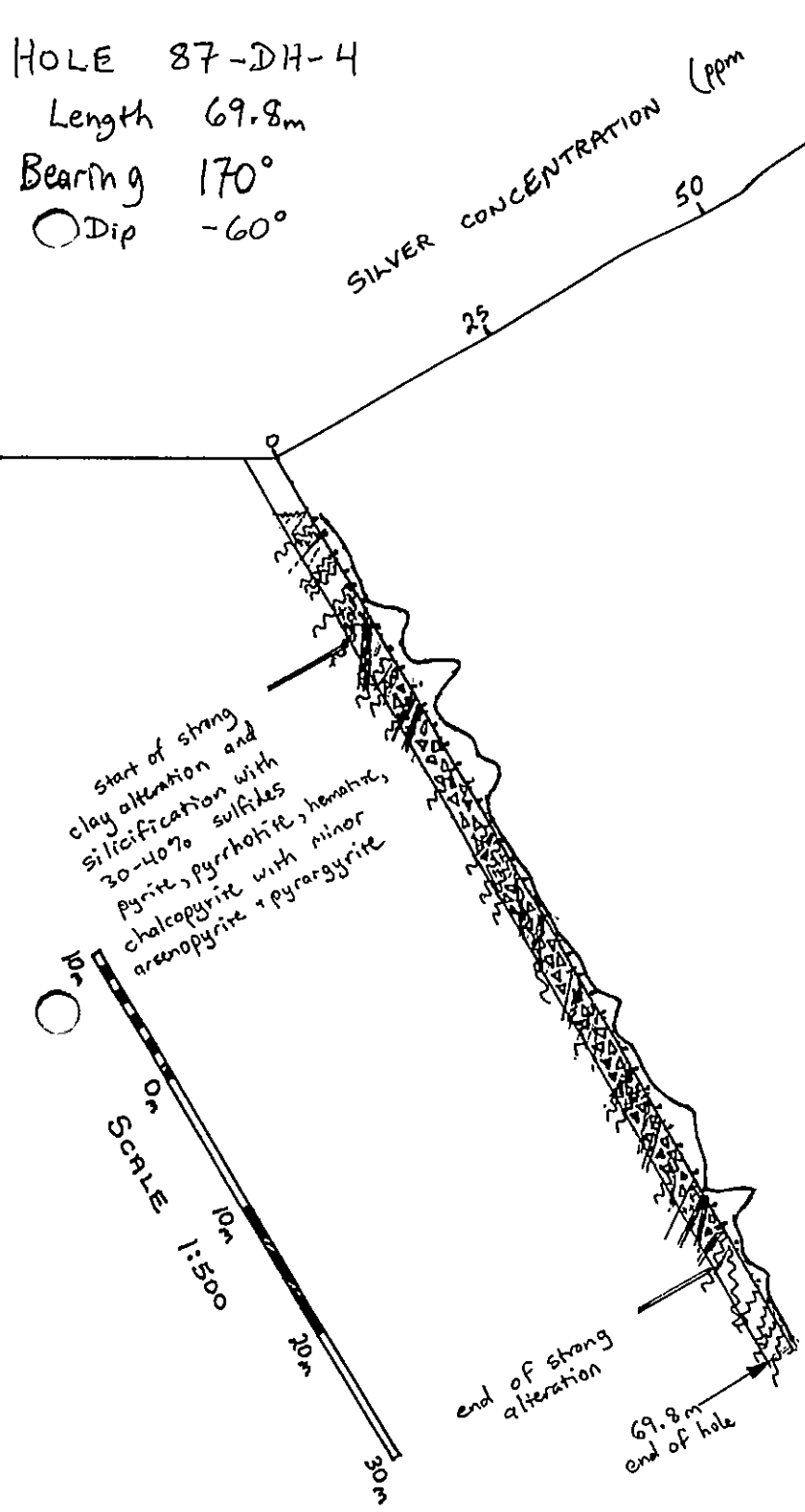
75

50

25

0

SILVER

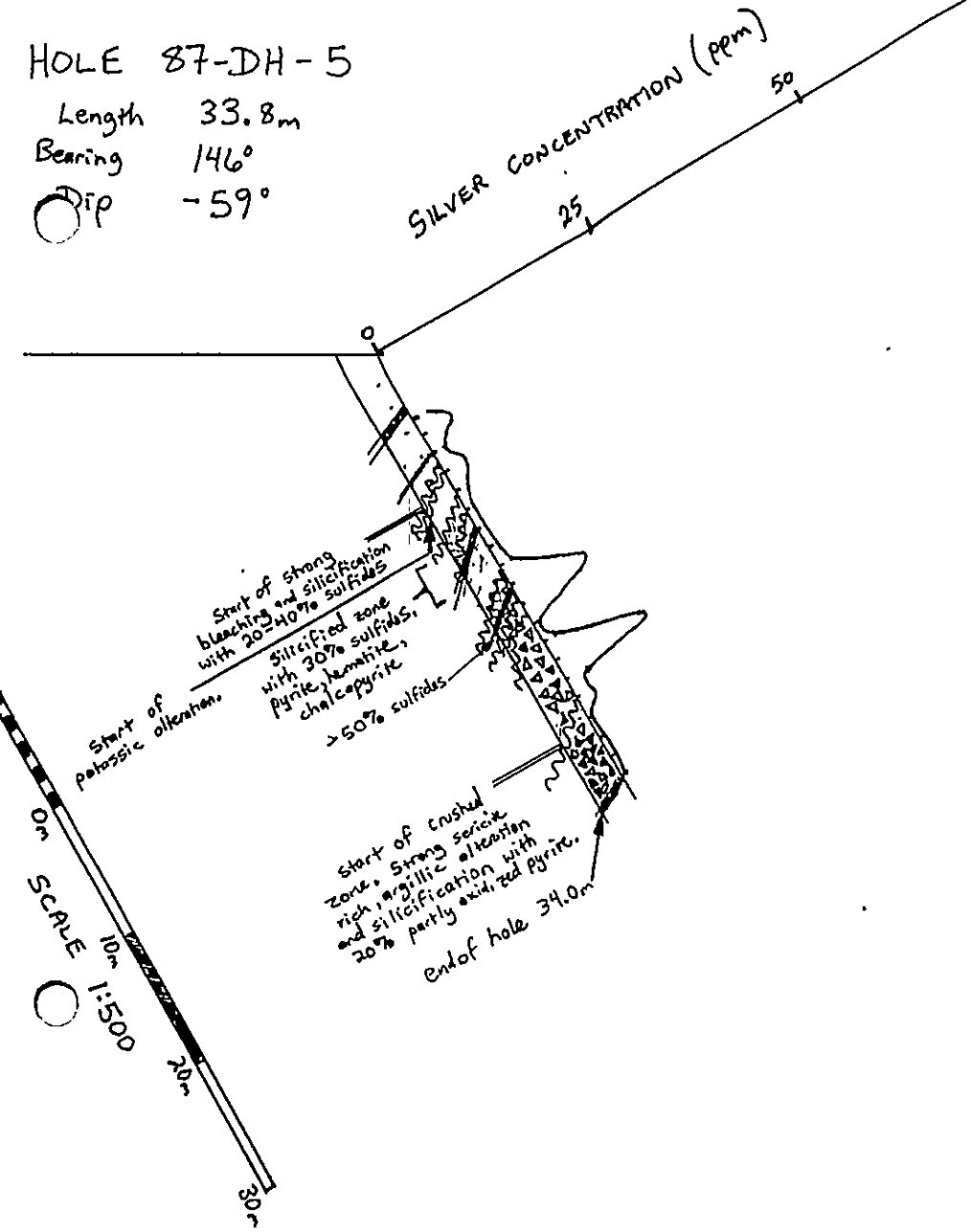


HOLE 87-DH-5

Length 33.8m
Bearing 146°
Dip -59°

A-13

SILVER



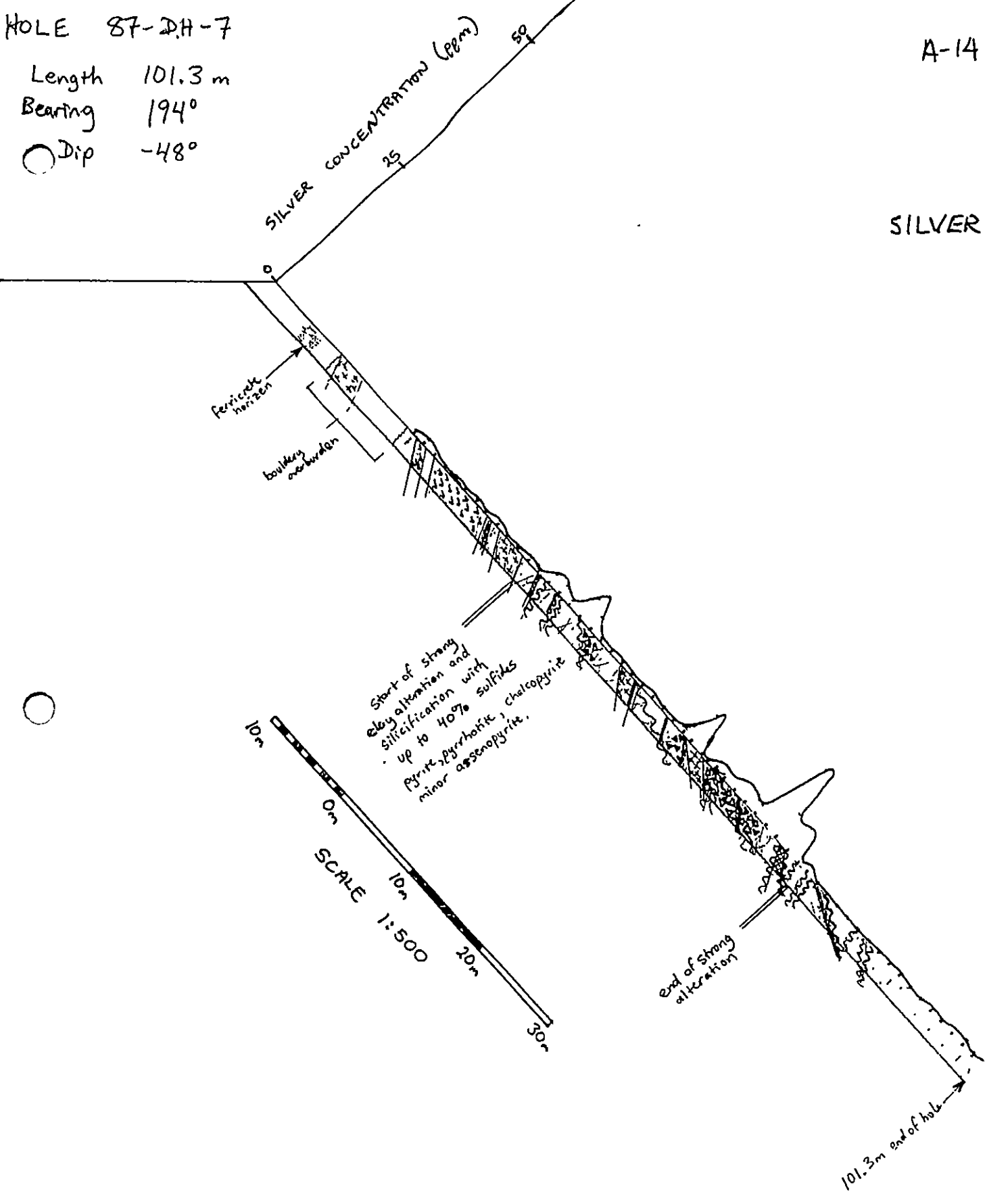
HOLE 87-D.H-7

Length 101.3 m

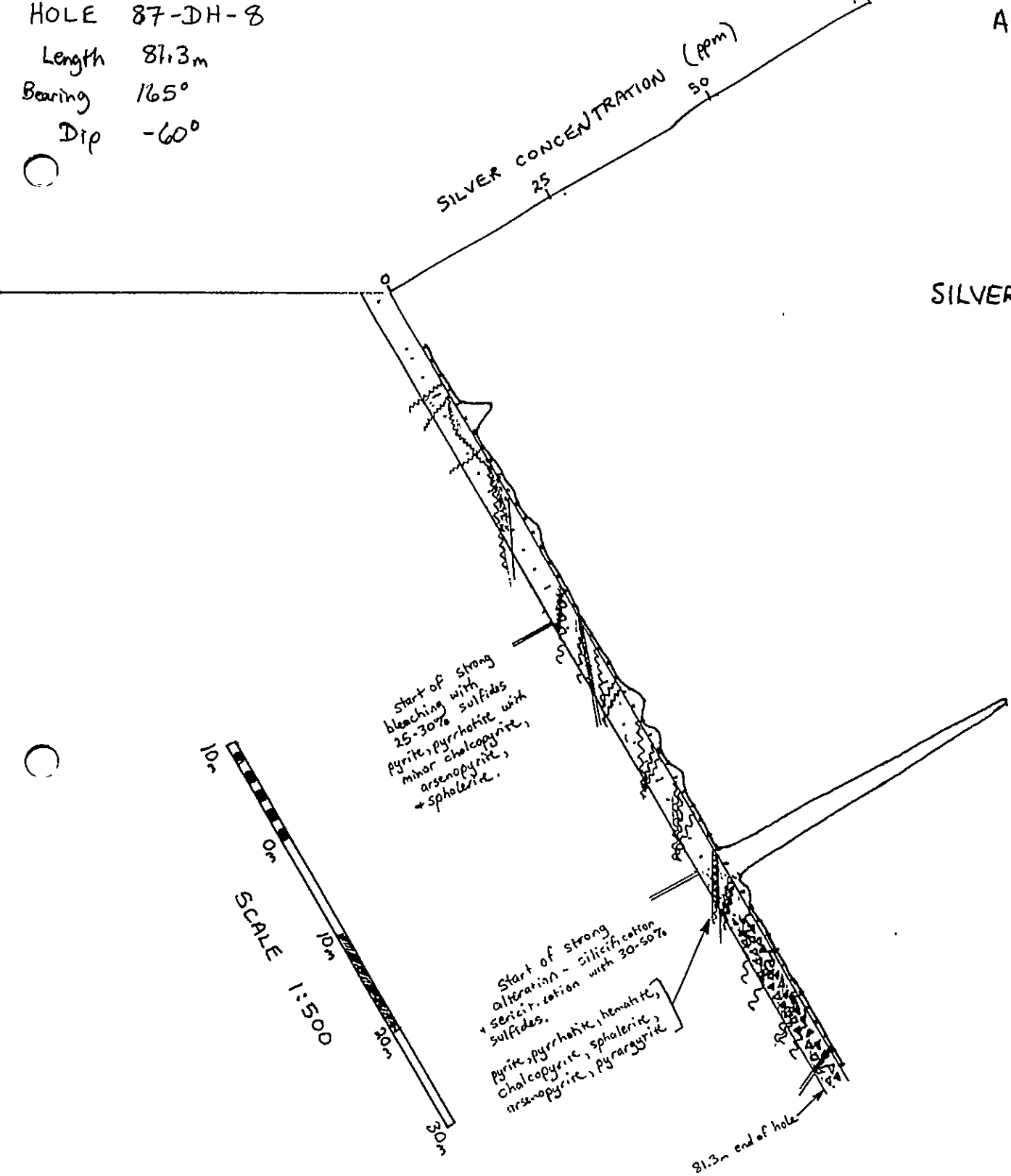
Bearing 194°

Dip -48°

SILVER

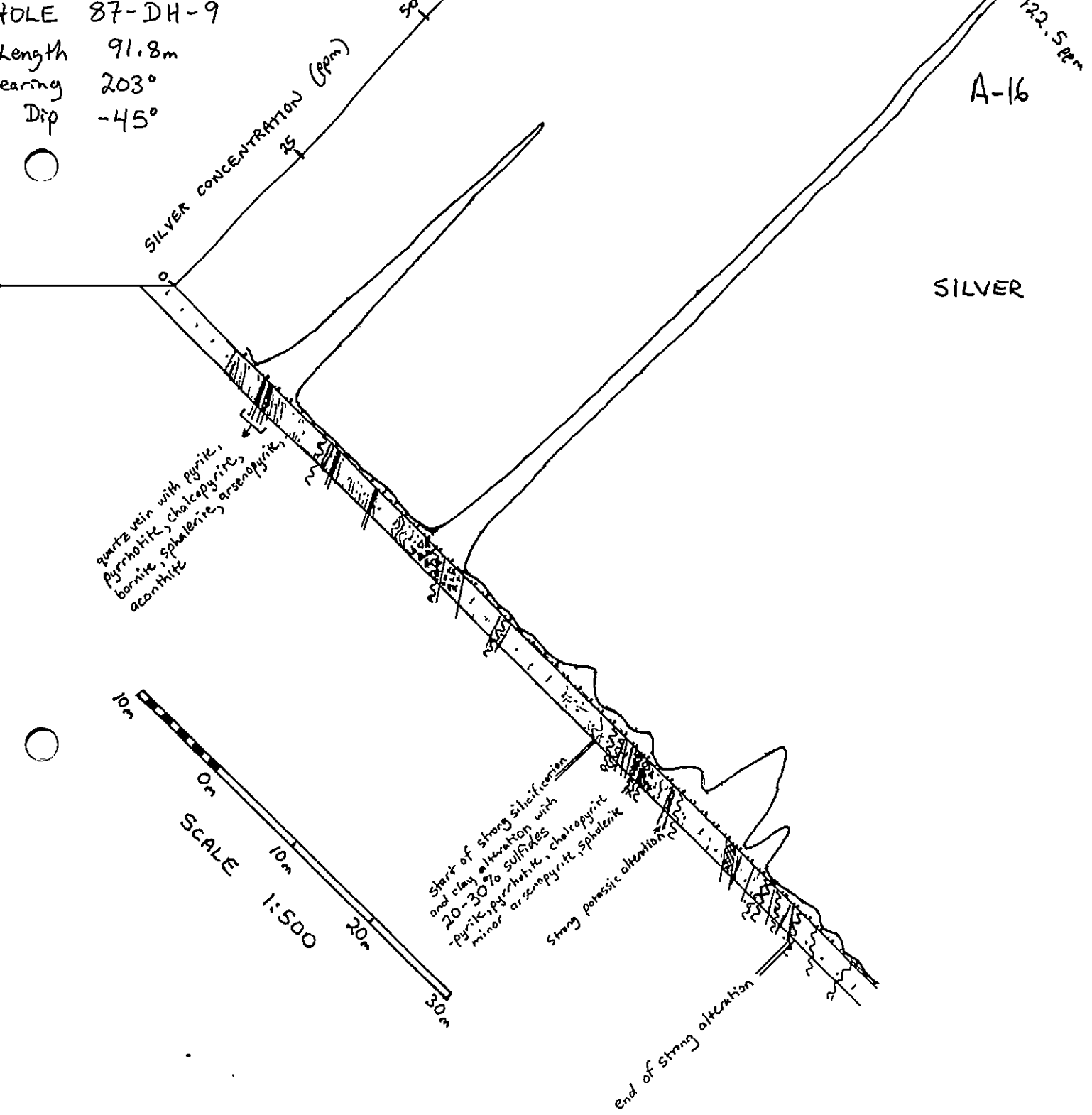


HOLE 87-DH-8
Length 81.3m
Bearing 165°
Dip -60°



HOLE 87-DH-9
Length 91.8m
Bearing 203°
Dip -45°

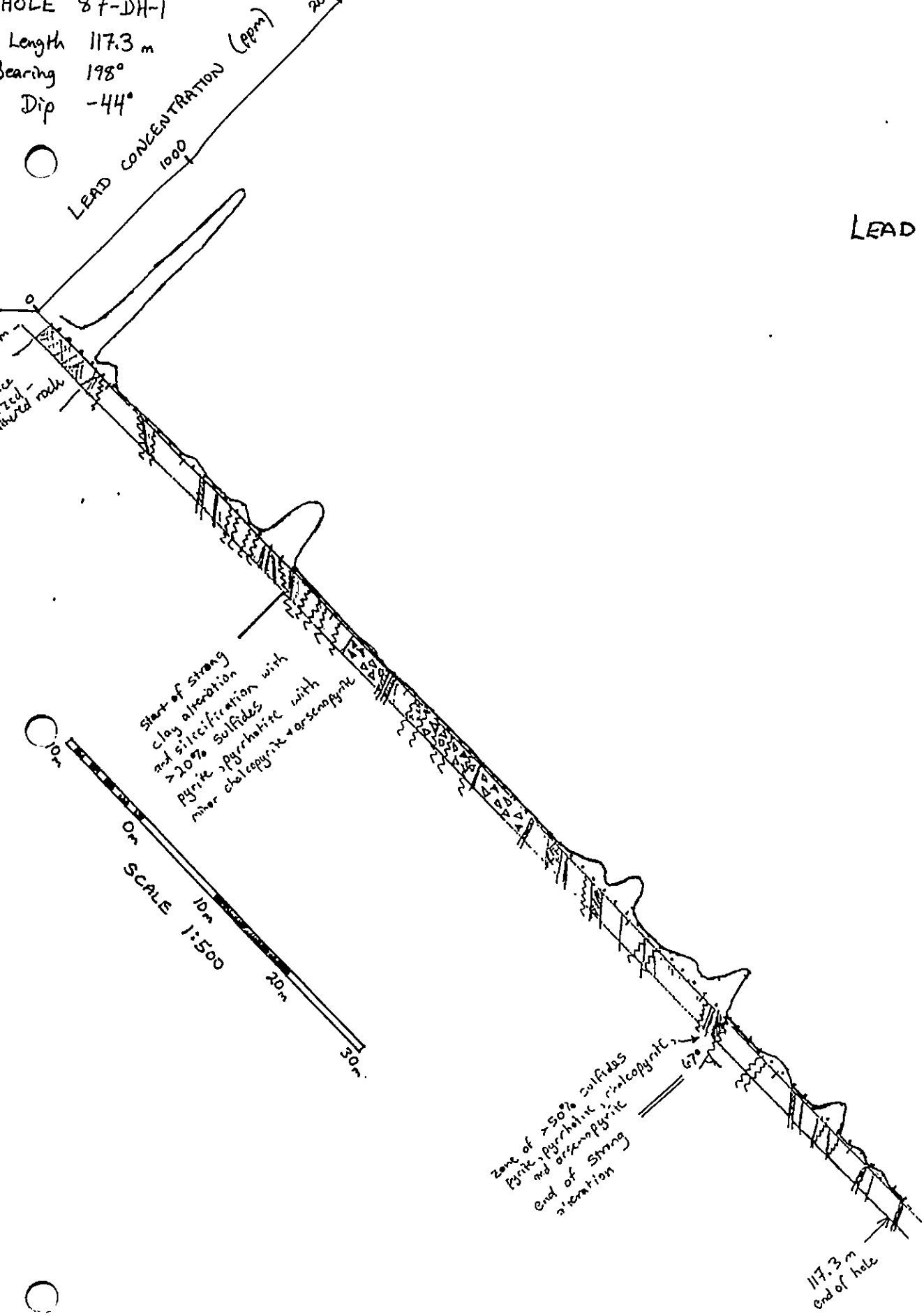
A-16



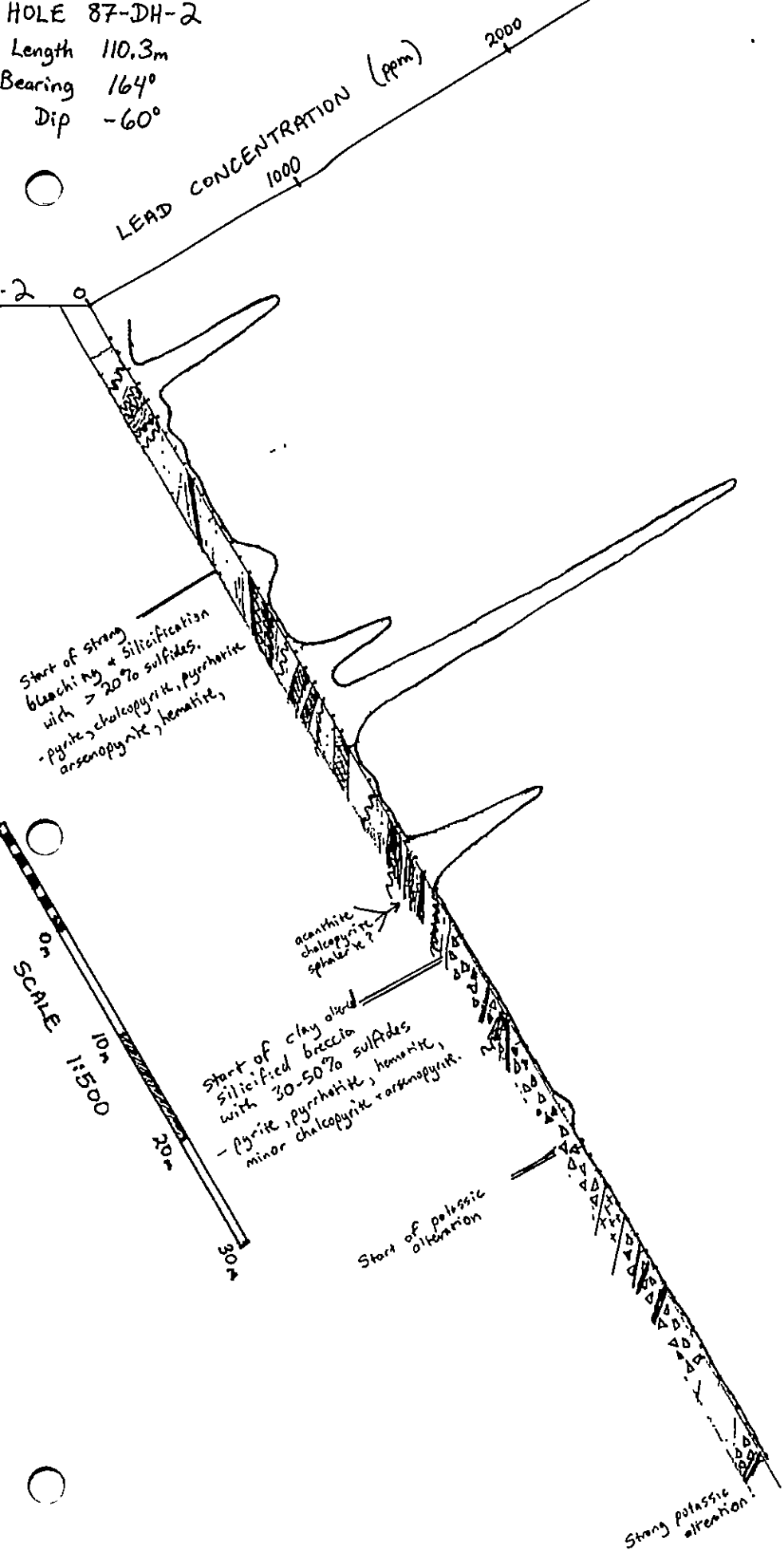
HOLE 87-DH-1
Length 117.3 m
Bearing 198°
Dip -44°

LEAD CONCENTRATION (ppm)
1000

LEAD

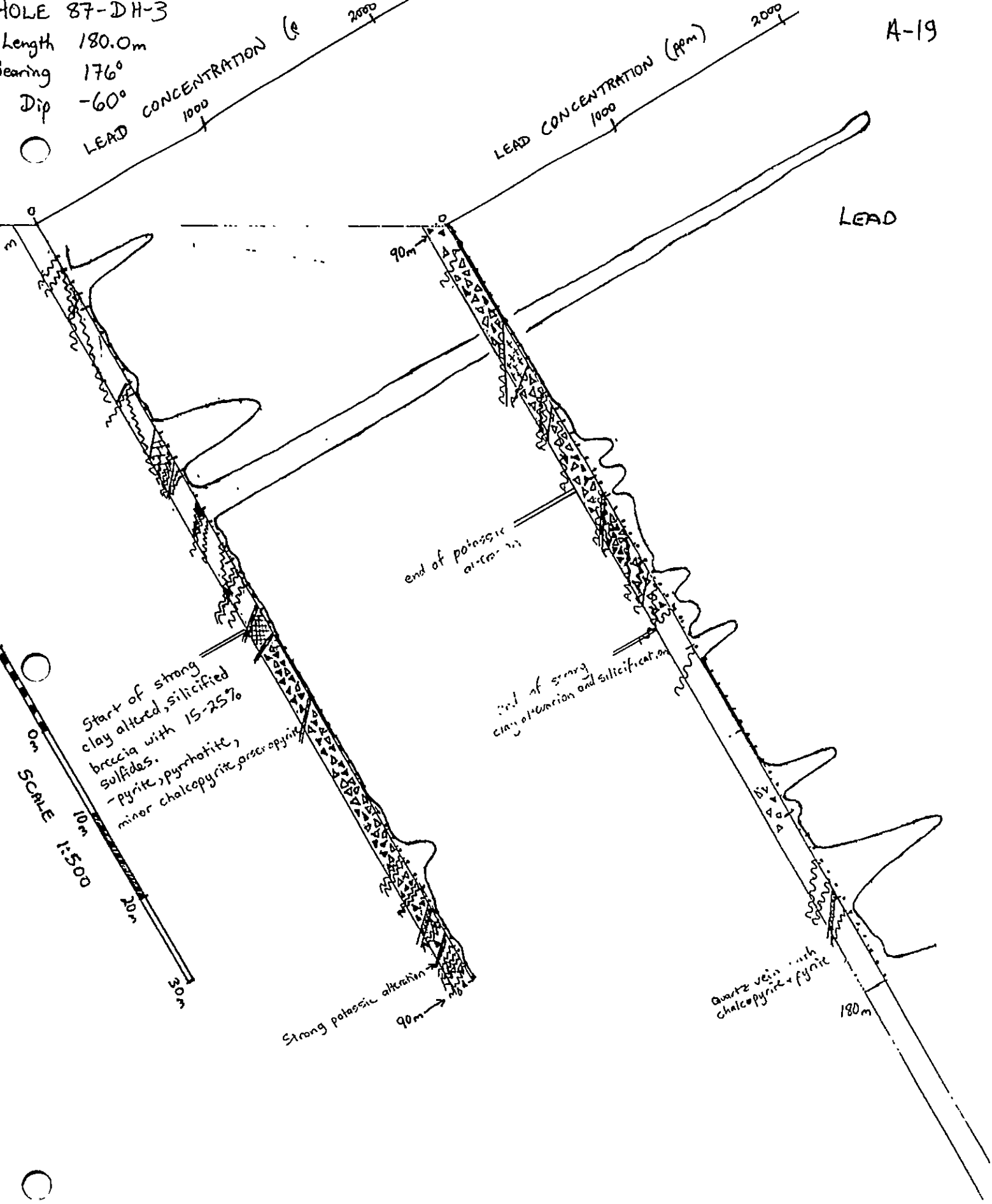


HOLE 87-DH-2
Length 110.3m
Bearing 164°
Dip -60°



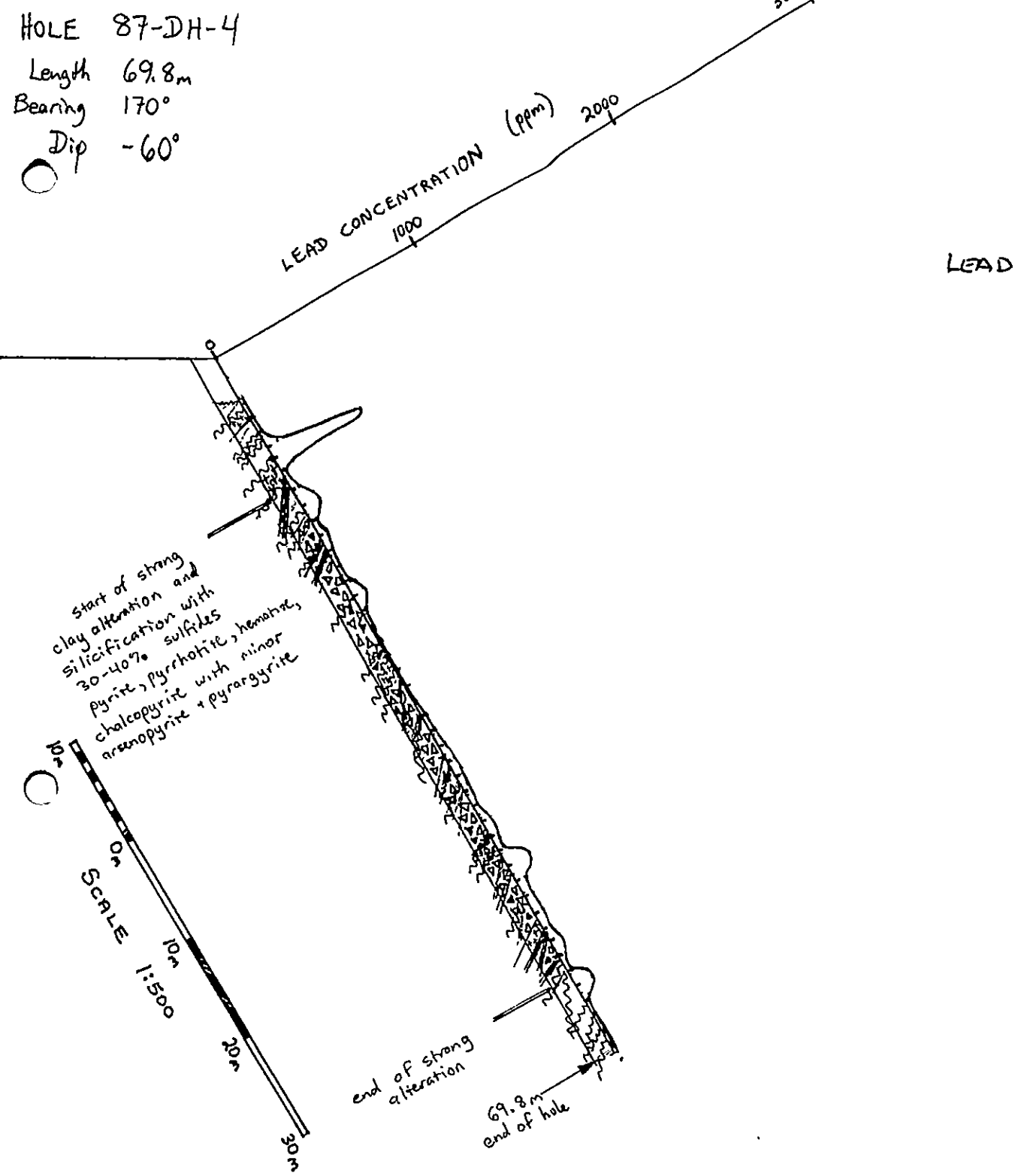
HOLE 87-DH-3
Length 180.0m
Bearing 176°
Dip -60°

A-19



HOLE 87-DH-4
Length 69.8m
Bearing 170°
Dip -60°

A-20

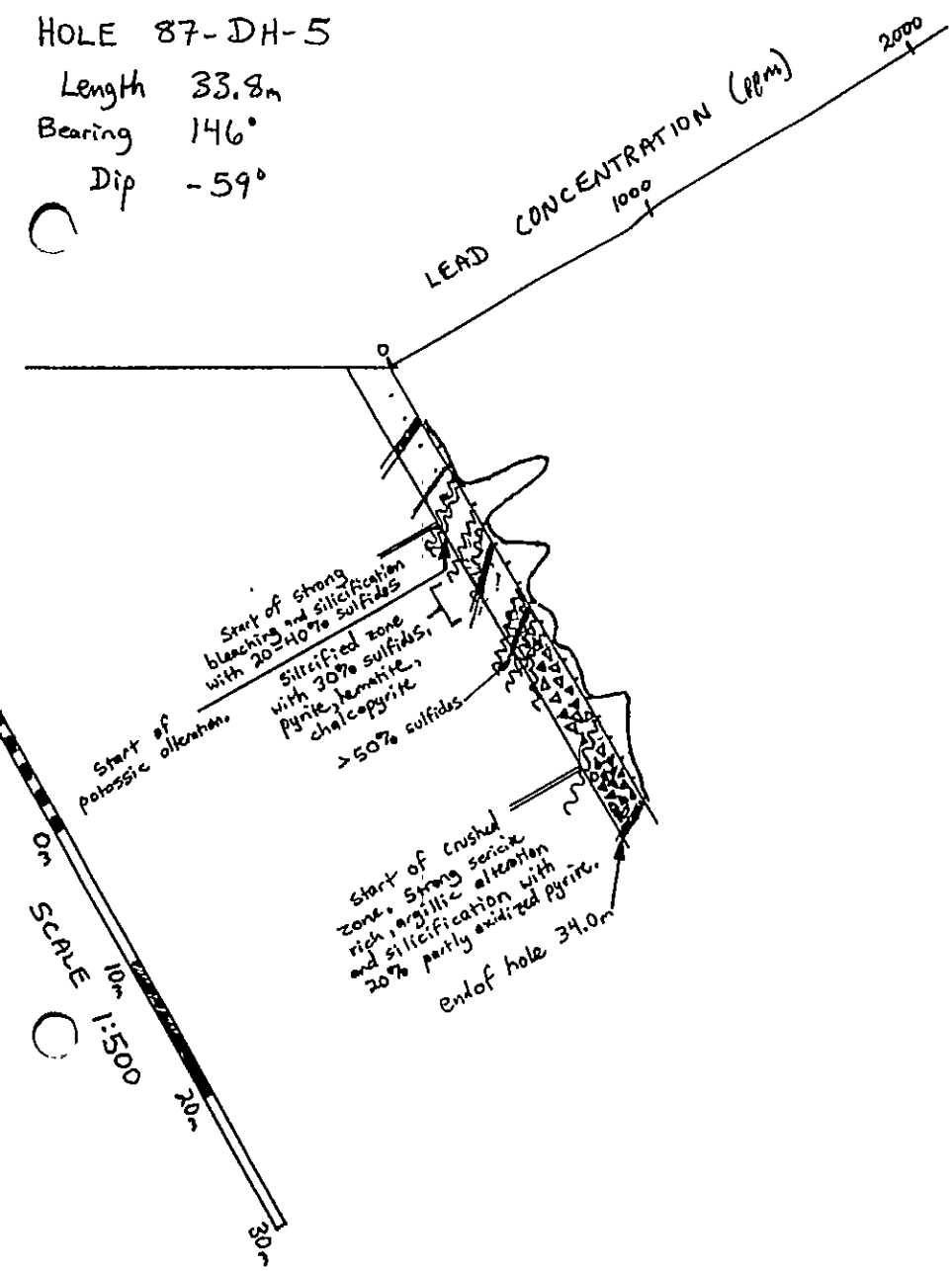


HOLE 87-DH-5

Length 33.8m

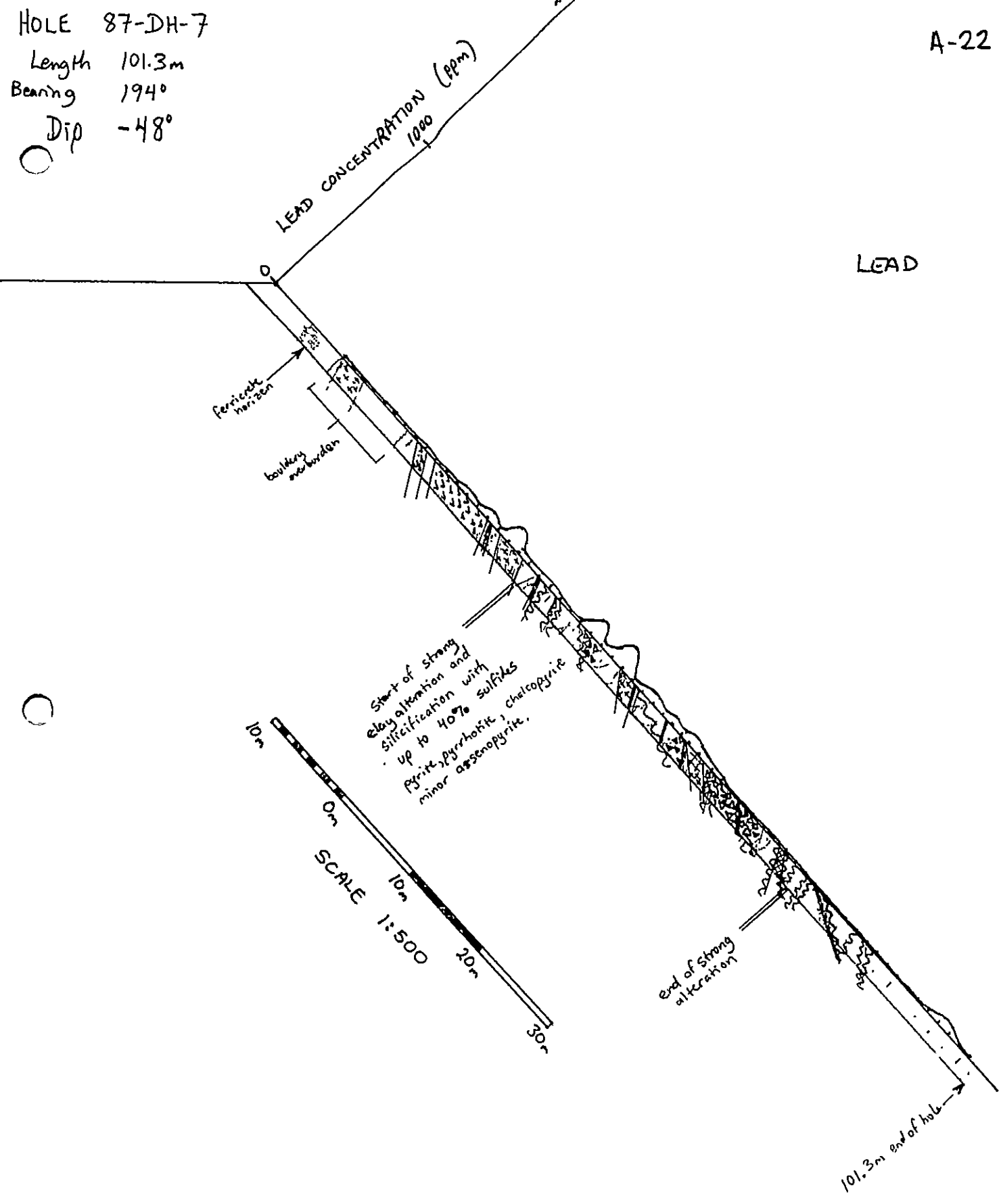
Bearing 146°

Dip -59°

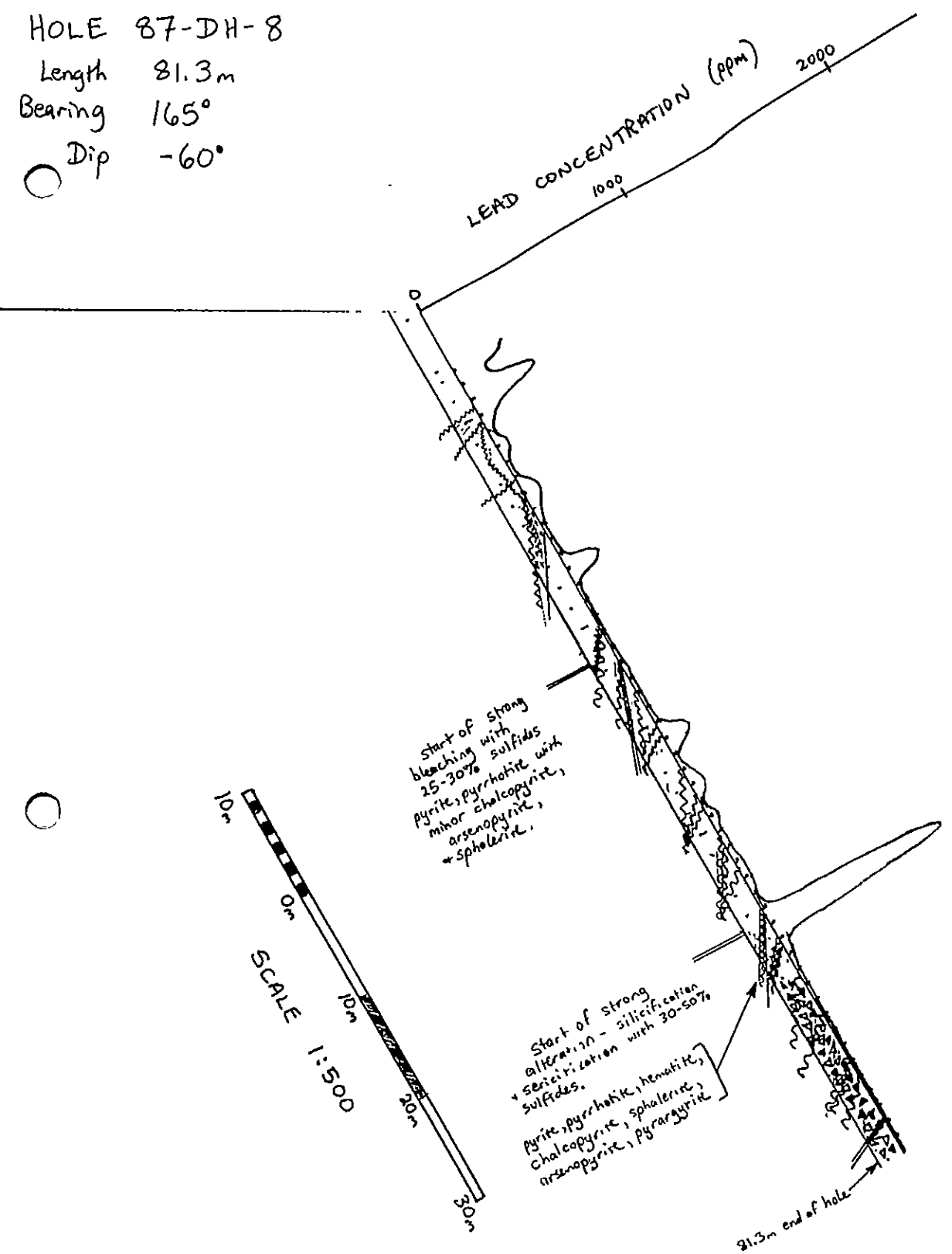


LEAD

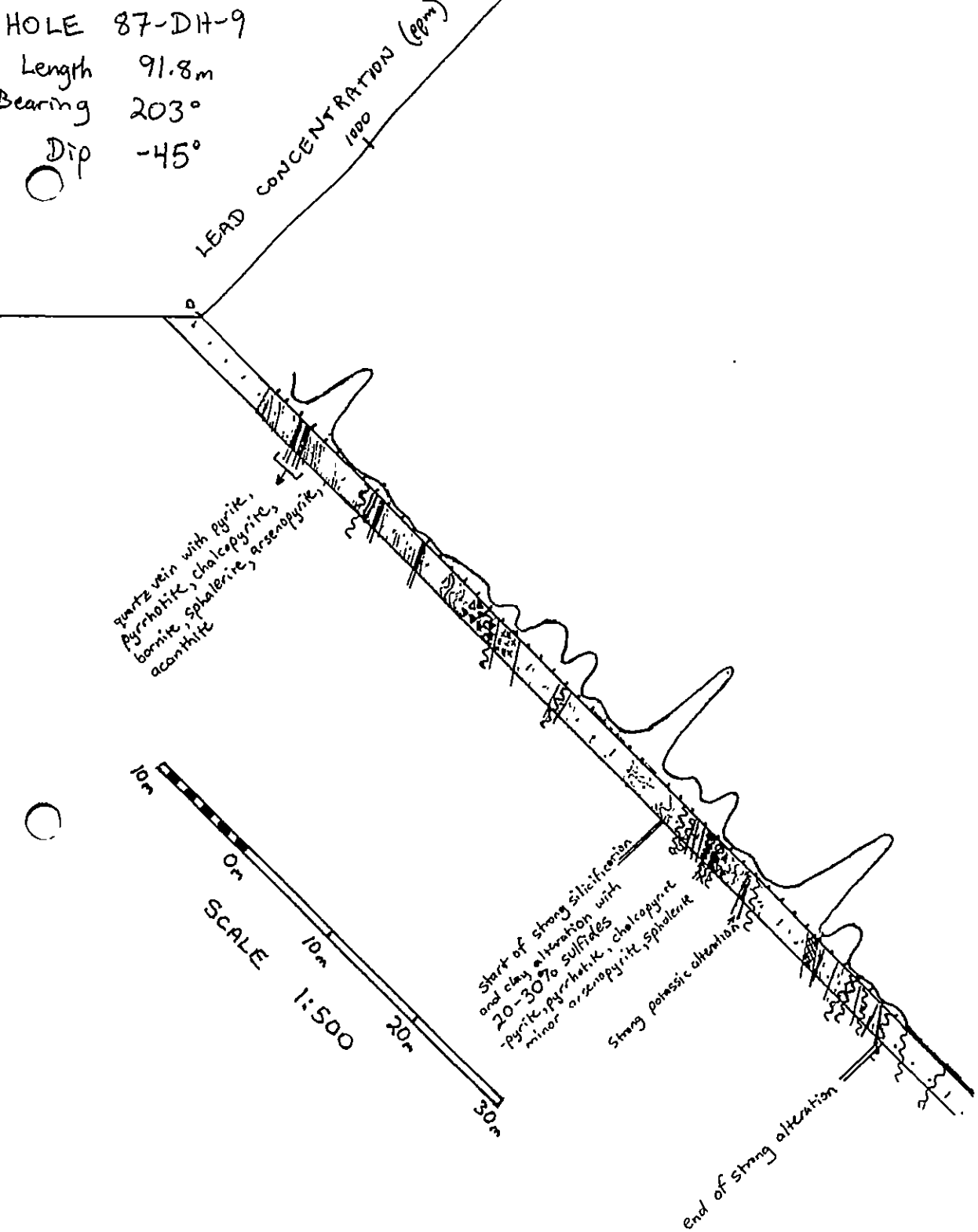
HOLE 87-DH-7
Length 101.3m
Bearing 194°
Dip -48°



HOLE 87-DH-8
Length 81.3m
Bearing 165°
Dip -60°



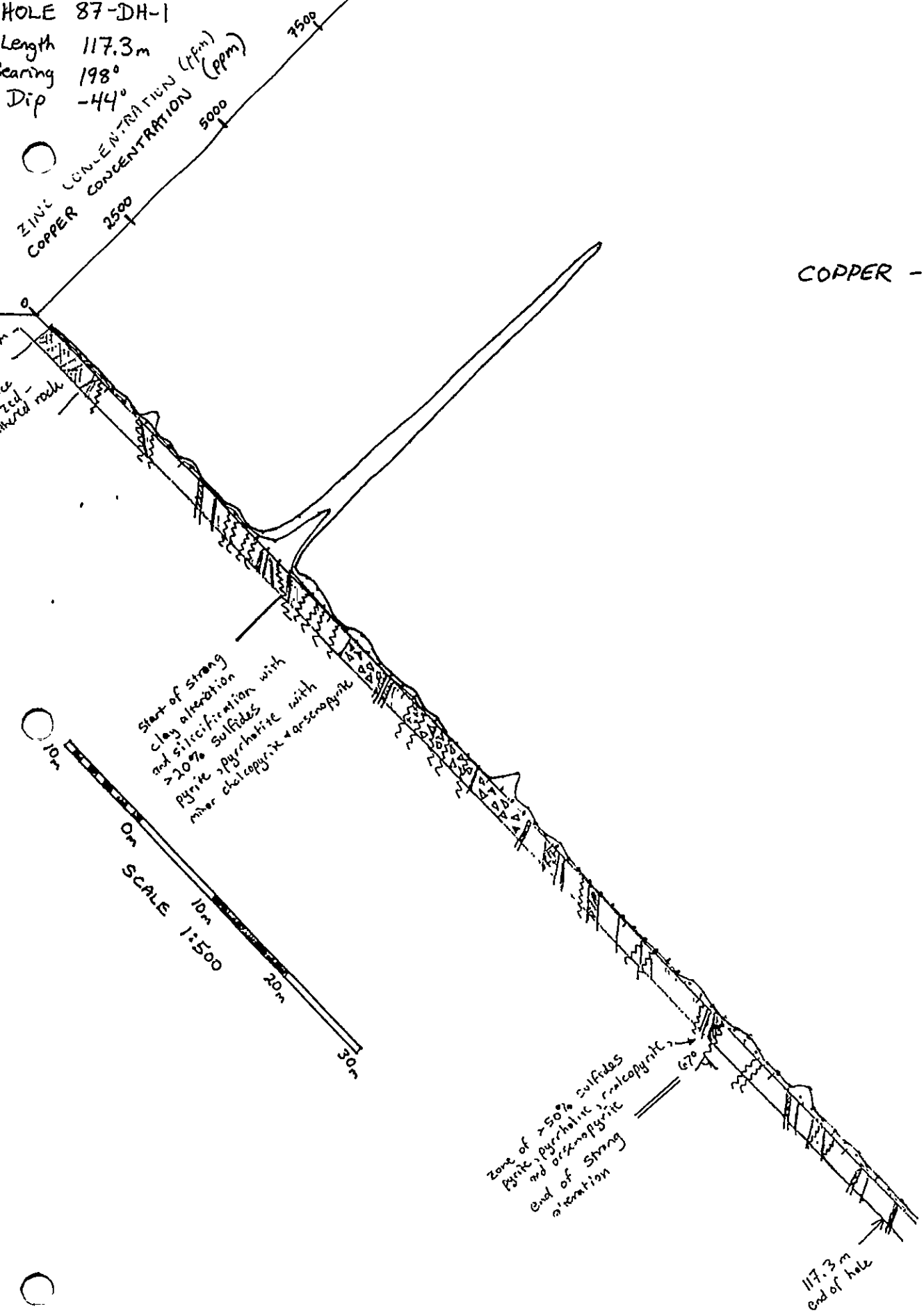
HOLE 87-DH-9
Length 91.8m
Bearing 203°
Dip -45°



HOLE 87-DH-1
Length 117.3m
Bearing 198°
Dip -44°

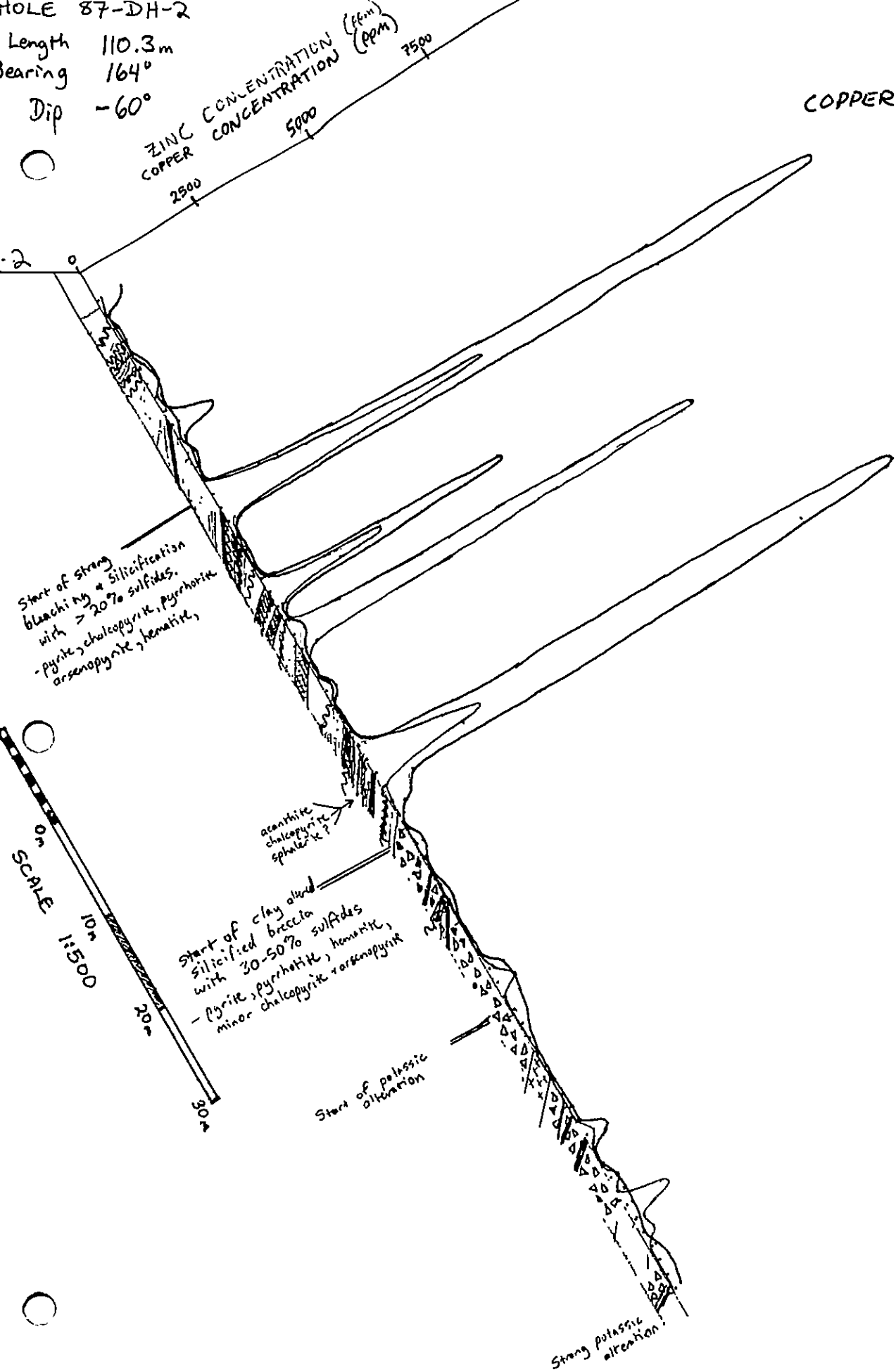
ZINC CONCENTRATION (ppm)
COPPER CONCENTRATION (ppm)
7500
5000
2500
0

COPPER - ZINC

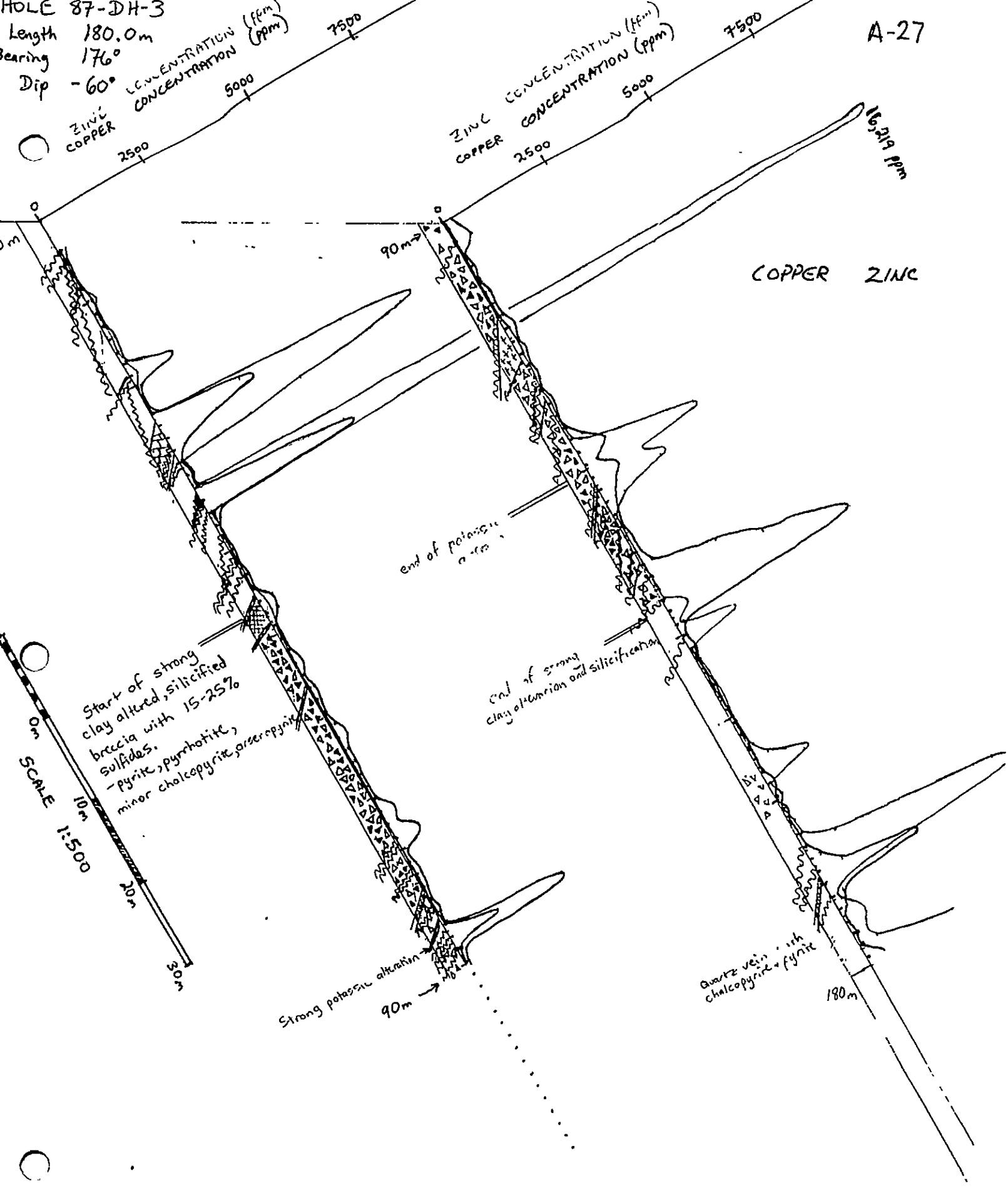


HOLE 87-DH-2
Length 110.3m
Bearing 164°
Dip -60°

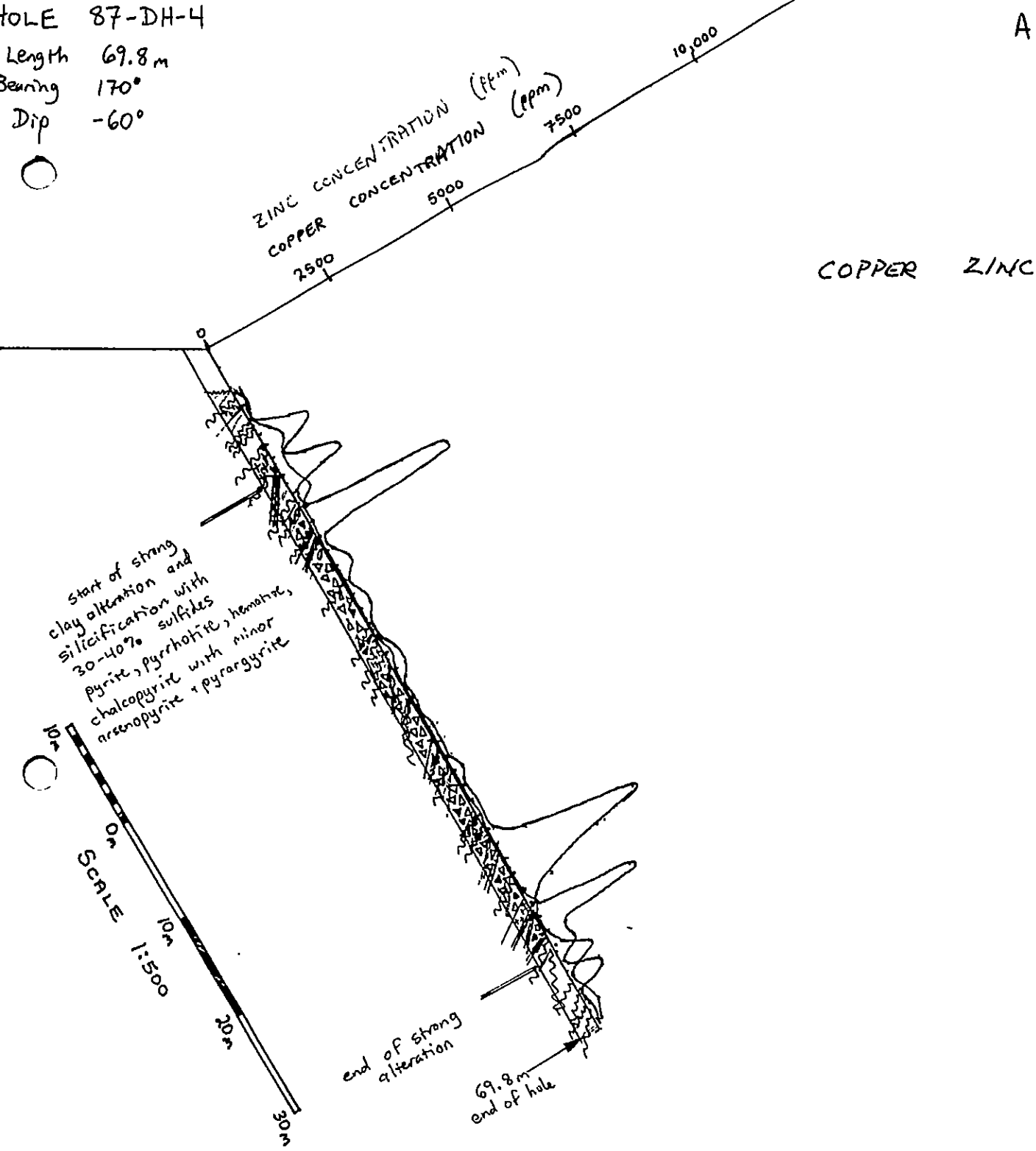
COPPER - ZINC



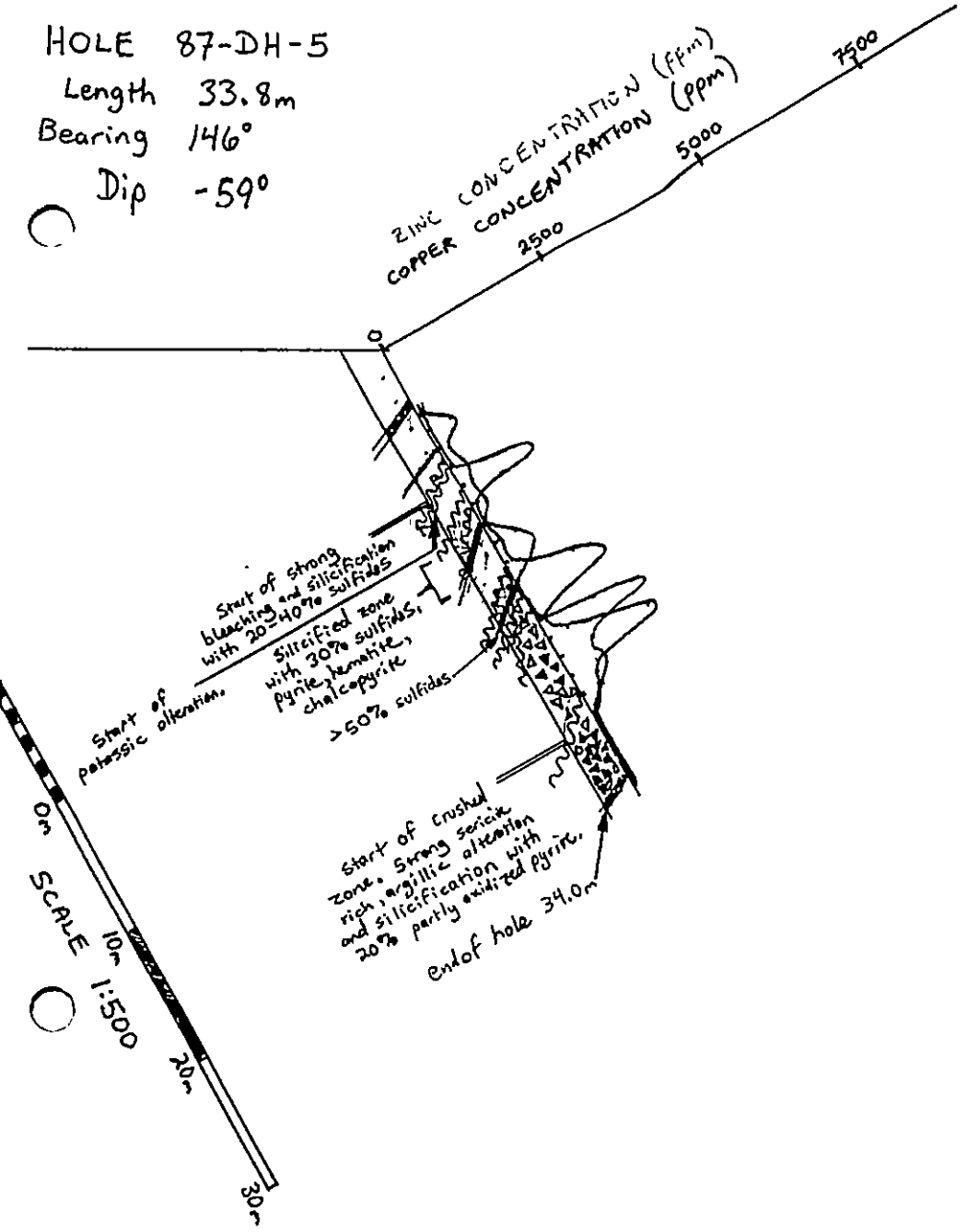
HOLE 87-DH-3
Length 180.0m
Bearing 176°
Dip -60°



HOLE 87-DH-4
Length 69.8 m
Bearing 170°
Dip -60°

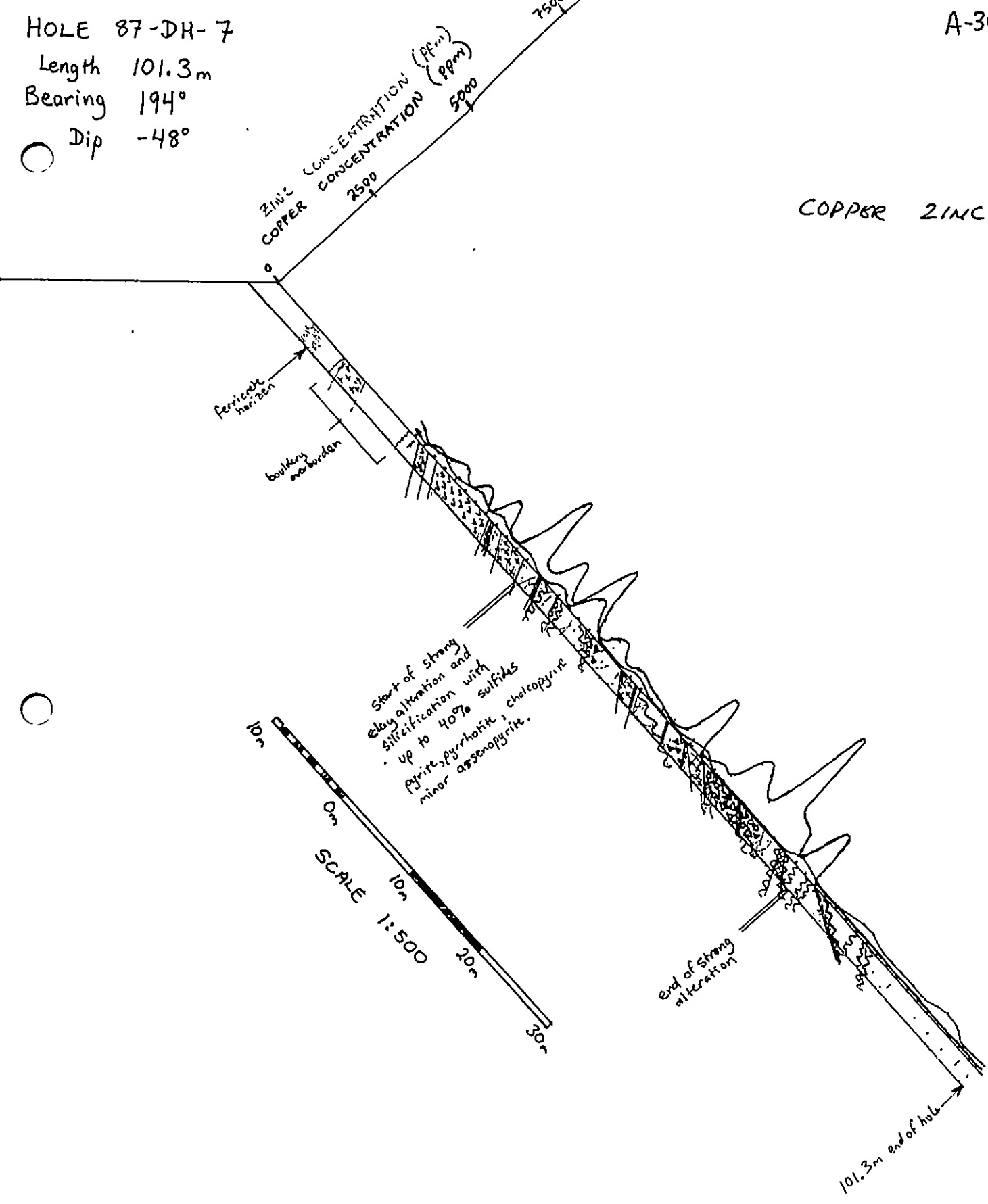


HOLE 87-DH-5
Length 33.8m
Bearing 146°
Dip -59°



COPPER - ZINC

HOLE 87-DH-7
Length 101.3m
Bearing 194°
Dip -48°

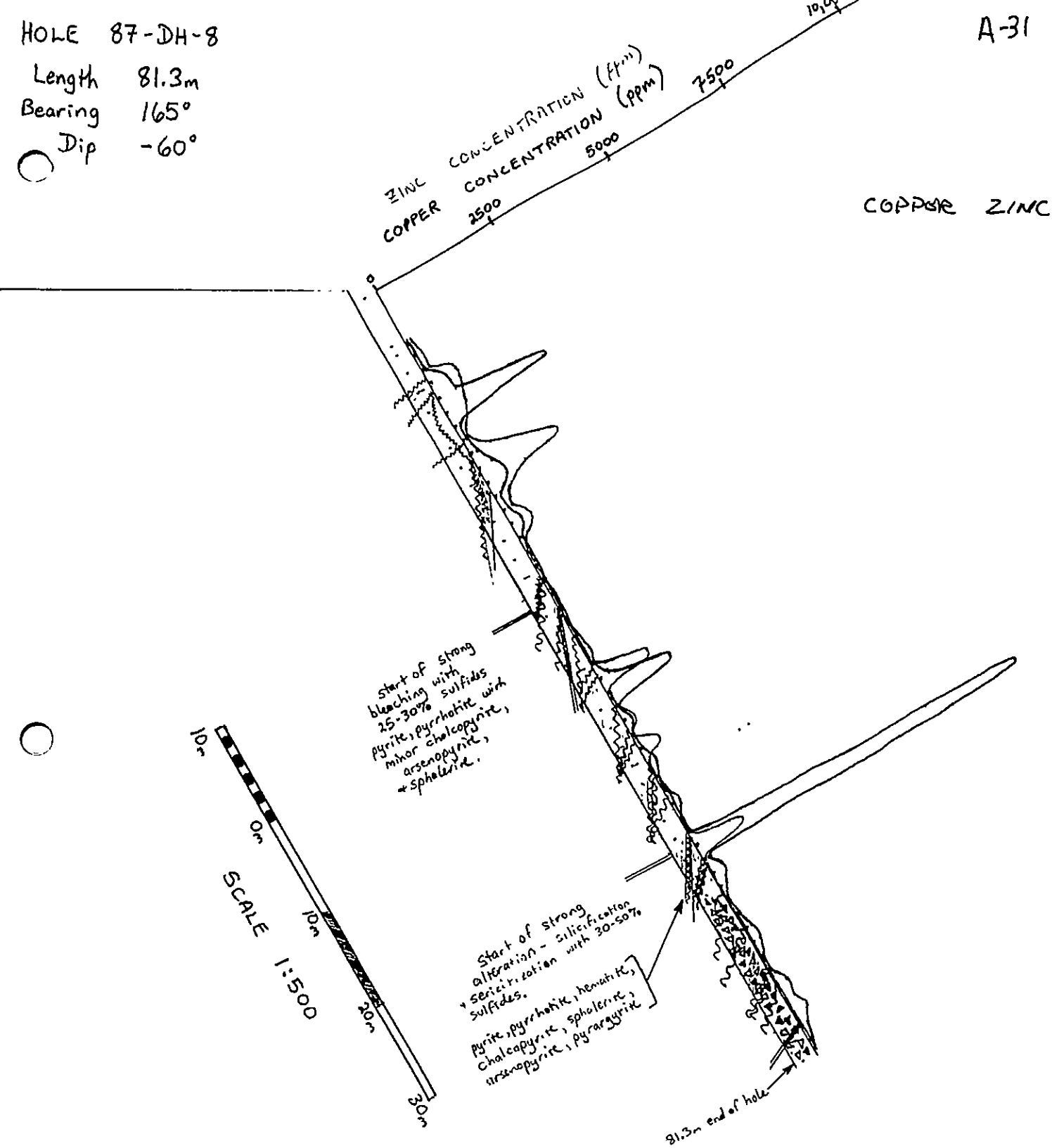


HOLE 87-DH-8

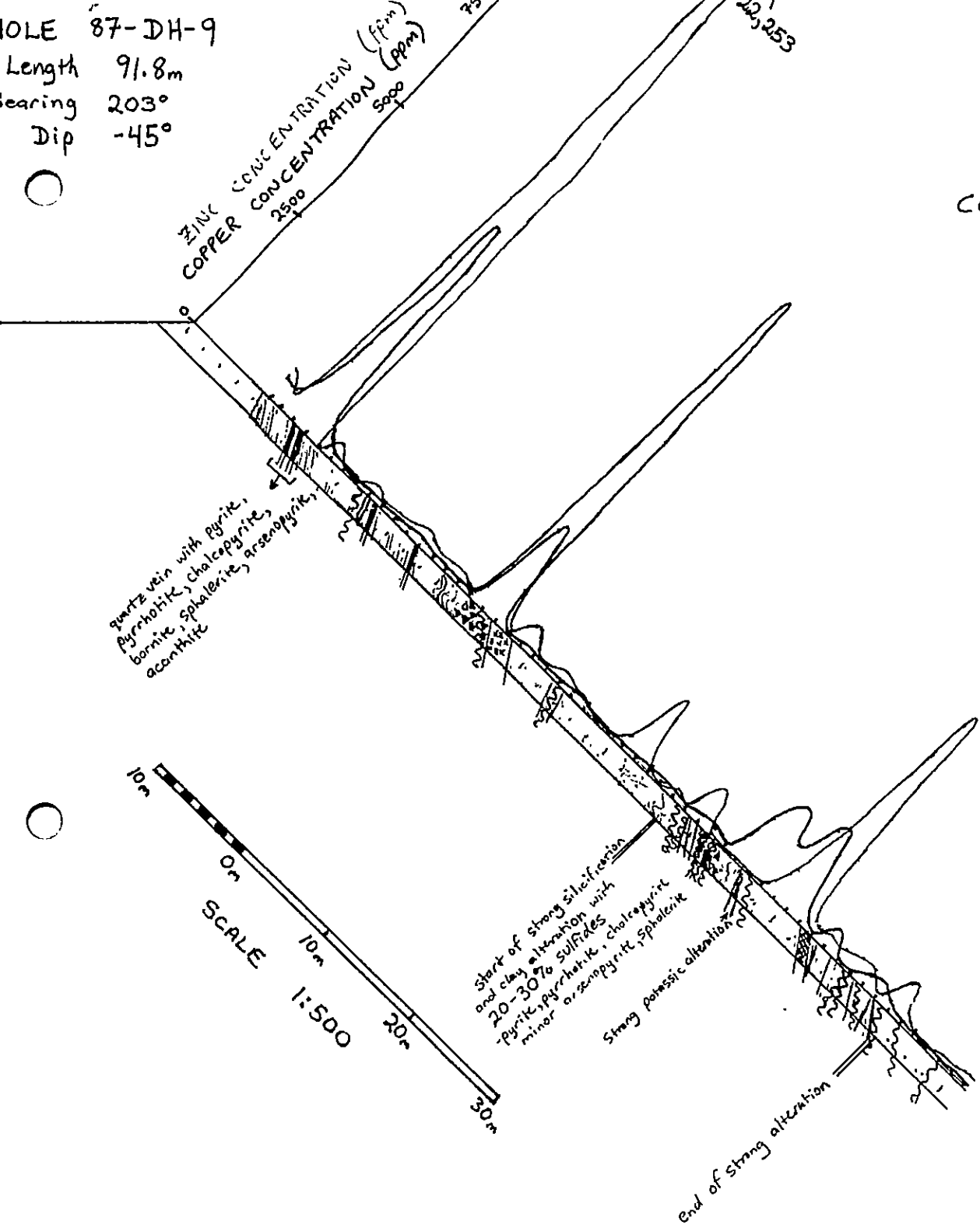
Length 81.3m

Bearing 165°

Dip -60°



HOLE 87-DH-9
Length 91.8m
Bearing 203°
Dip -45°

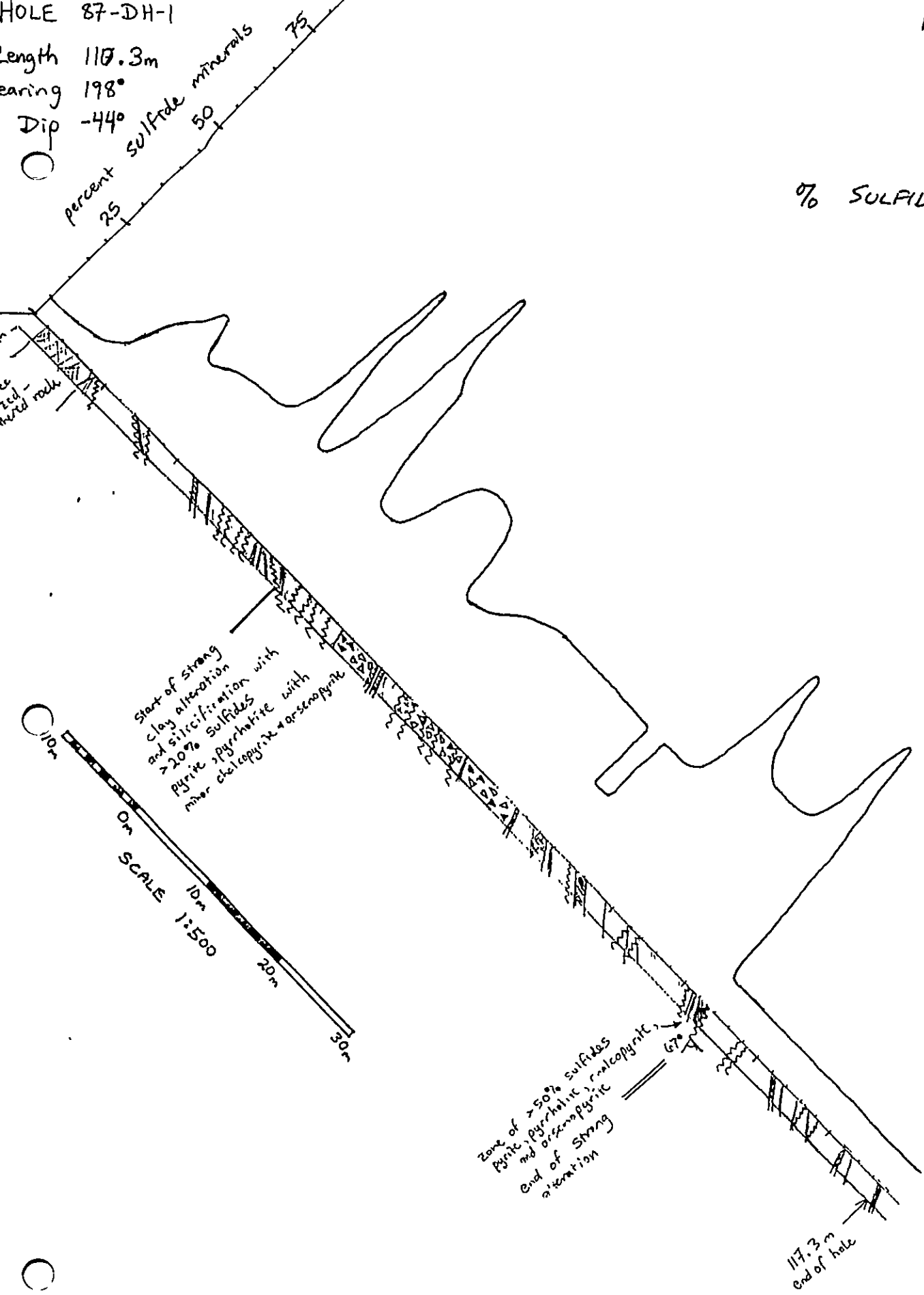


COPPER ZINC

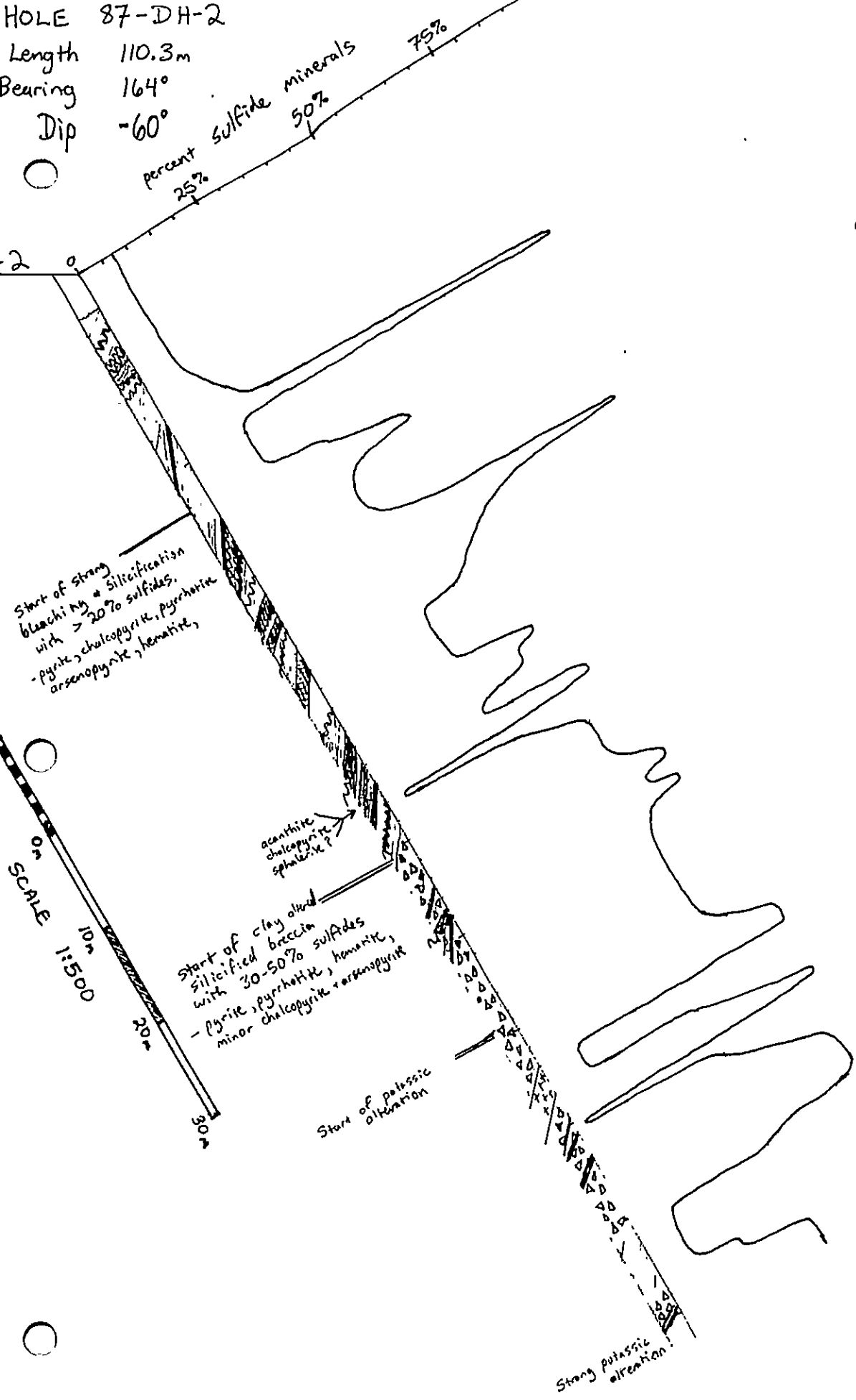
HOLE 87-DH-1
Length 117.3m
Bearing 198°
Dip -44°

percent sulfide minerals
25
50
75

% SULFIDE

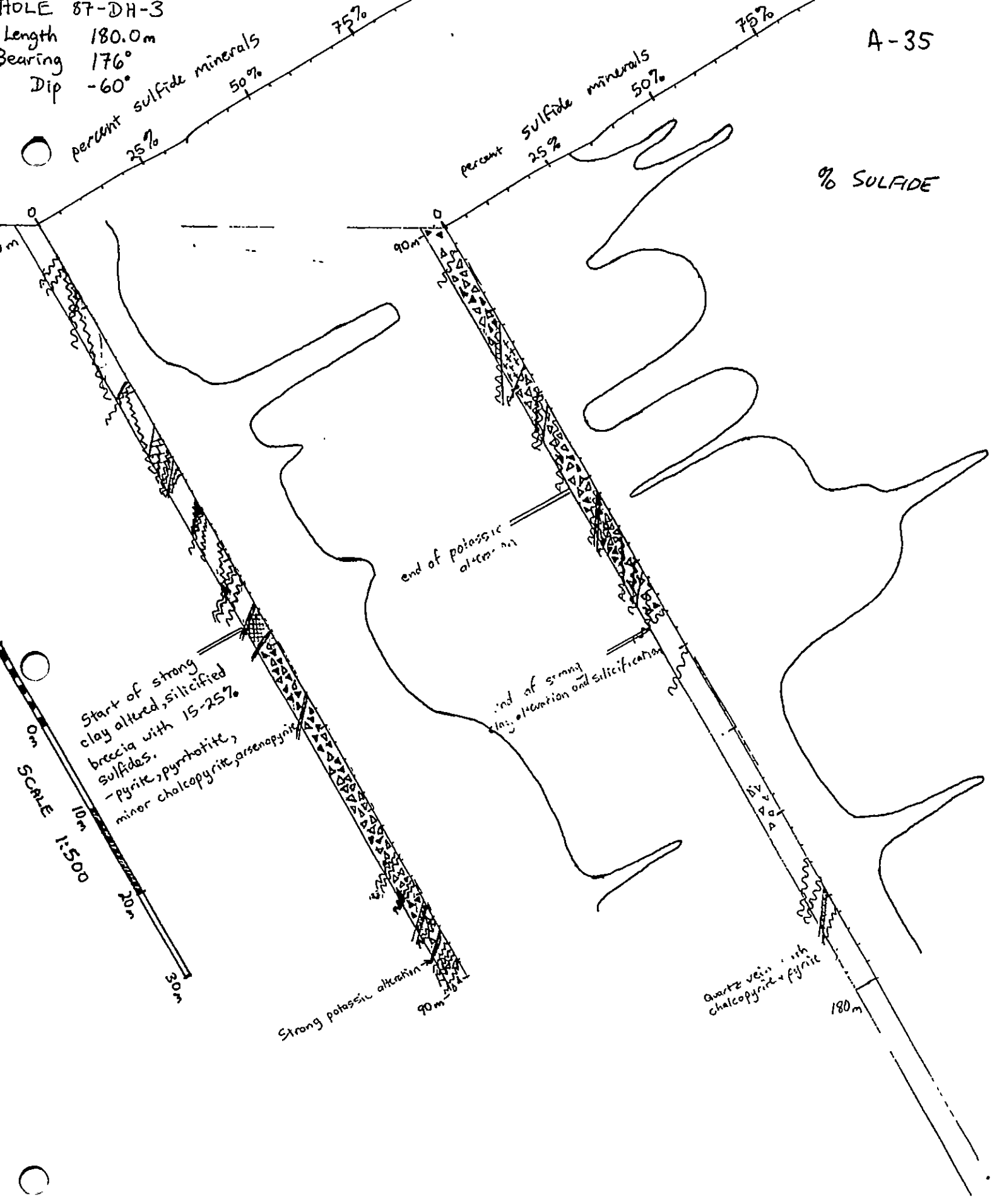


HOLE 87-DH-2
Length 110.3m
Bearing 164°
Dip -60°

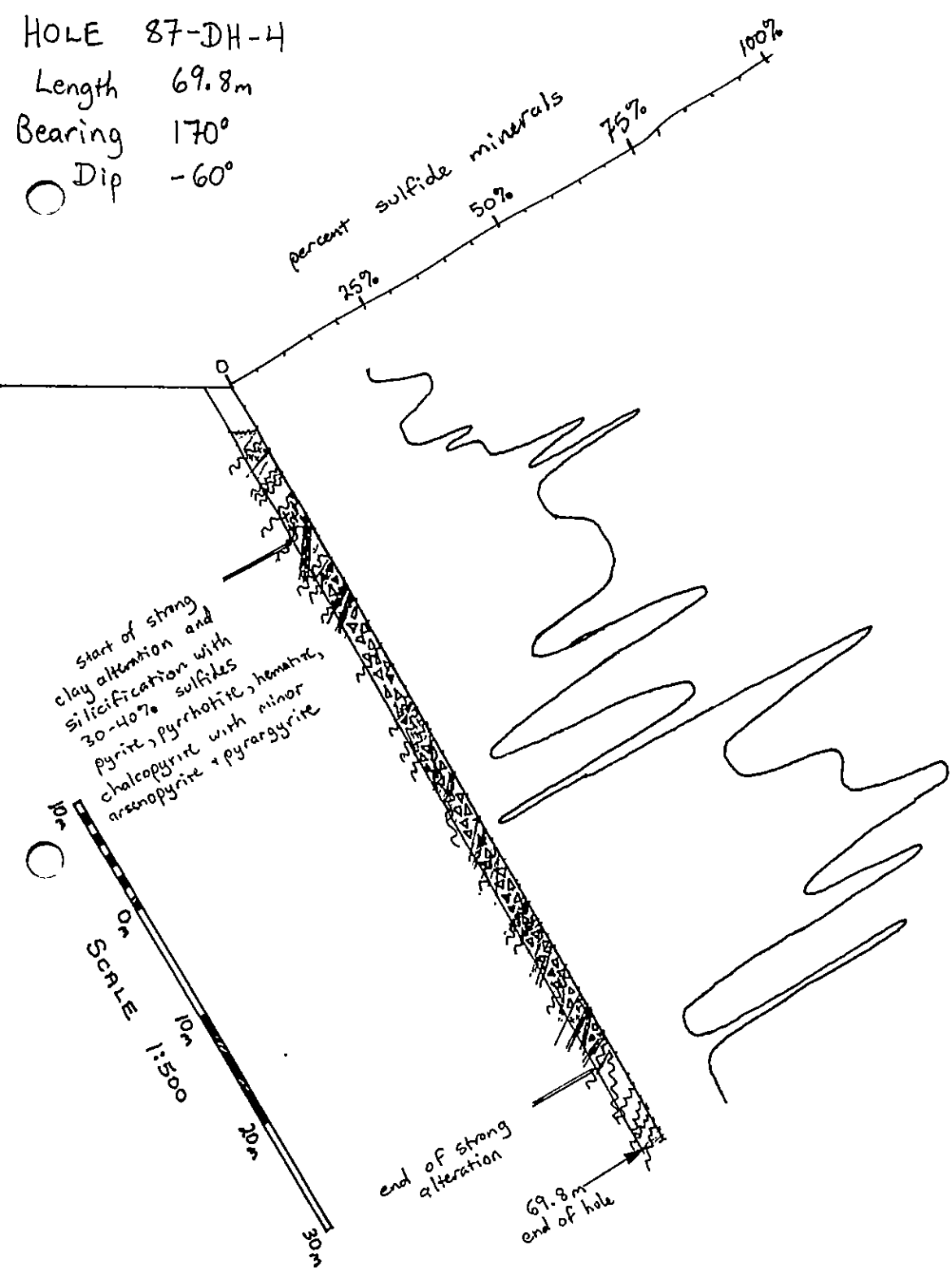


HOLE 87-DH-3
Length 180.0m
Bearing 176°
Dip -60°

A-35



HOLE 87-DH-4
Length 69.8m
Bearing 170°
Dip -60°

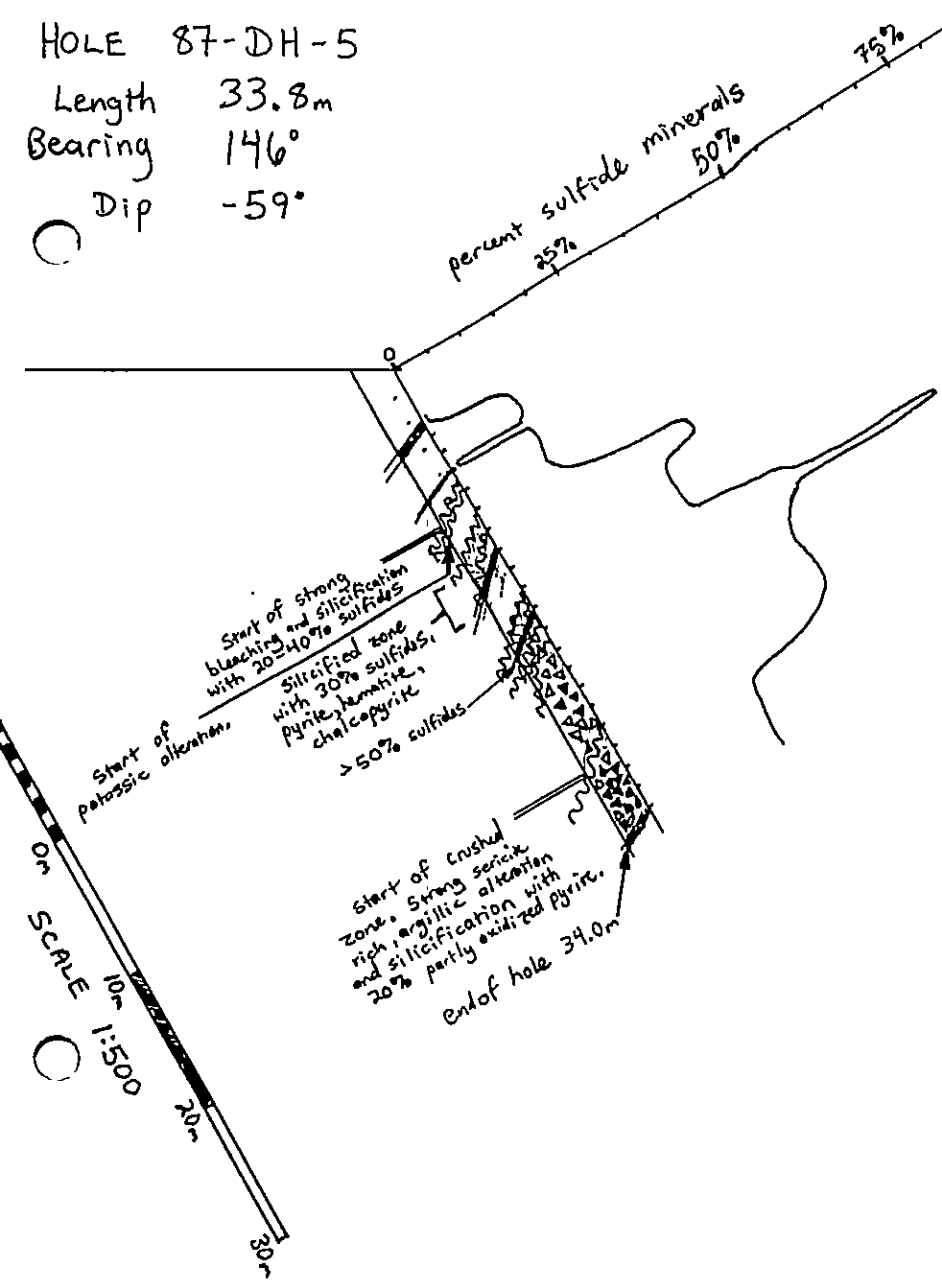


HOLE 87-DH-5

Length 33.8m

Bearing 146°

Dip -59°



% SULFIDE

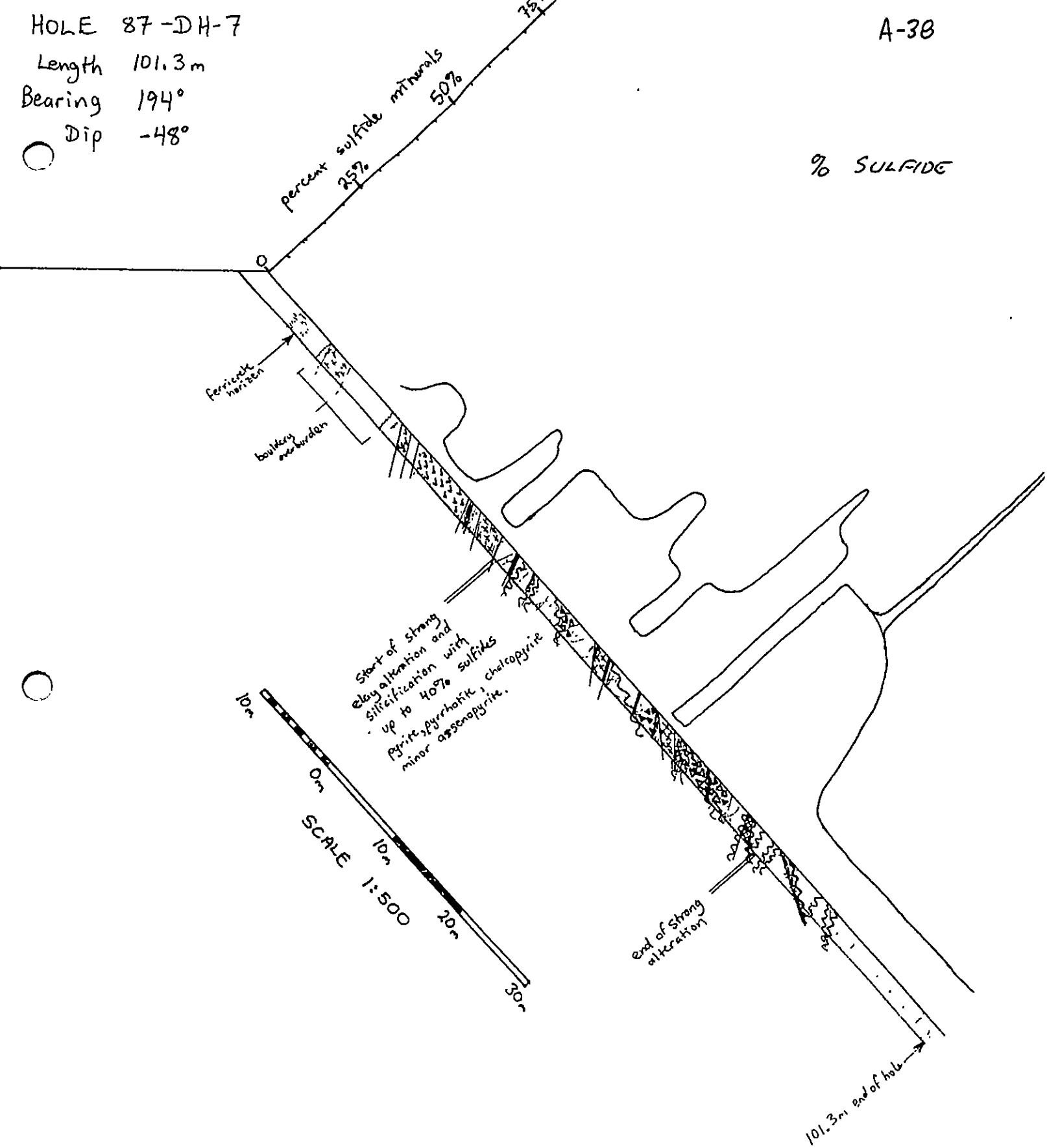
HOLE 87-DH-7

Length 101.3m

Bearing 194°

Dip -48°

A-38



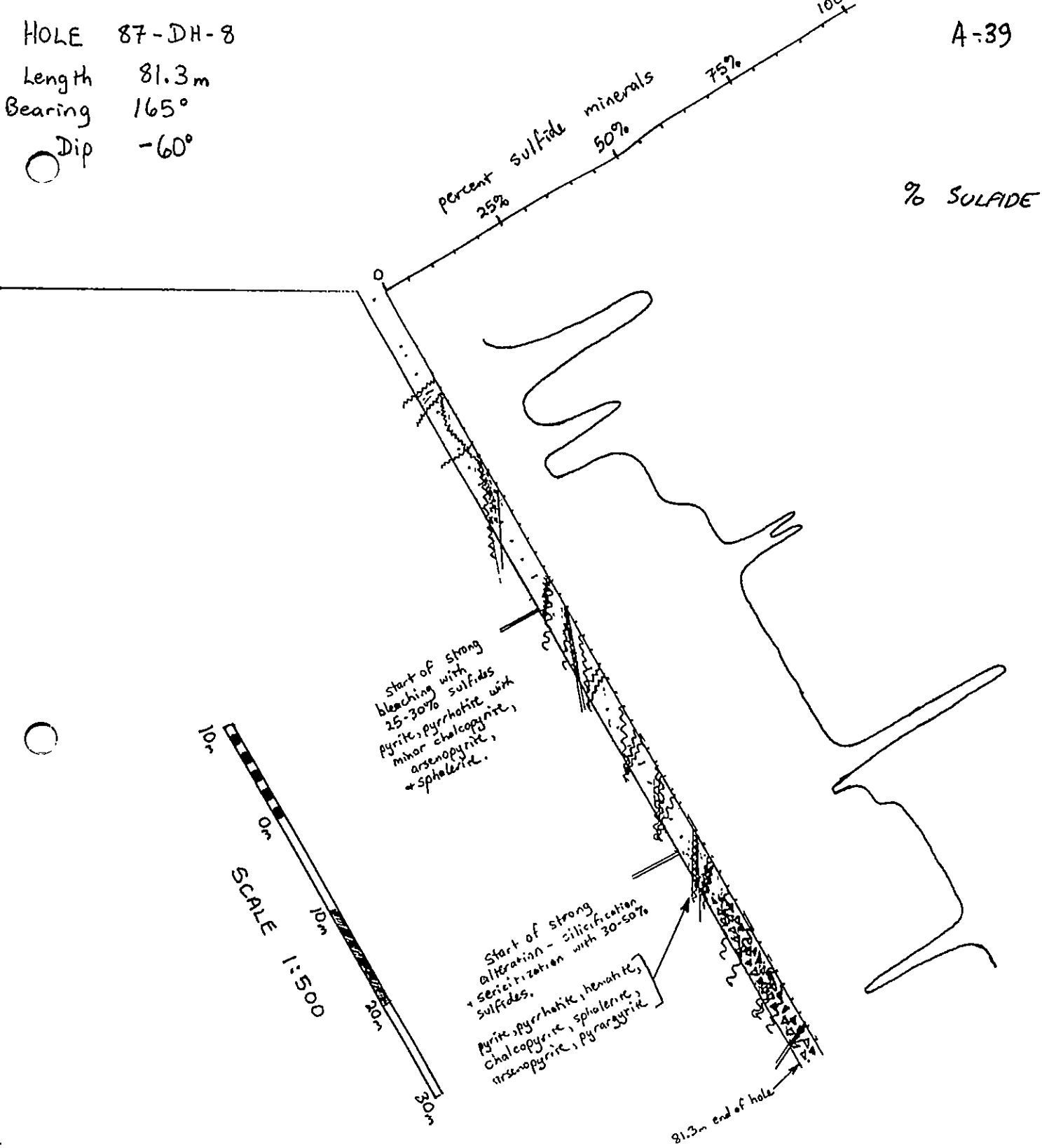
HOLE 87-DH-8

Length 81.3m

Bearing 165°

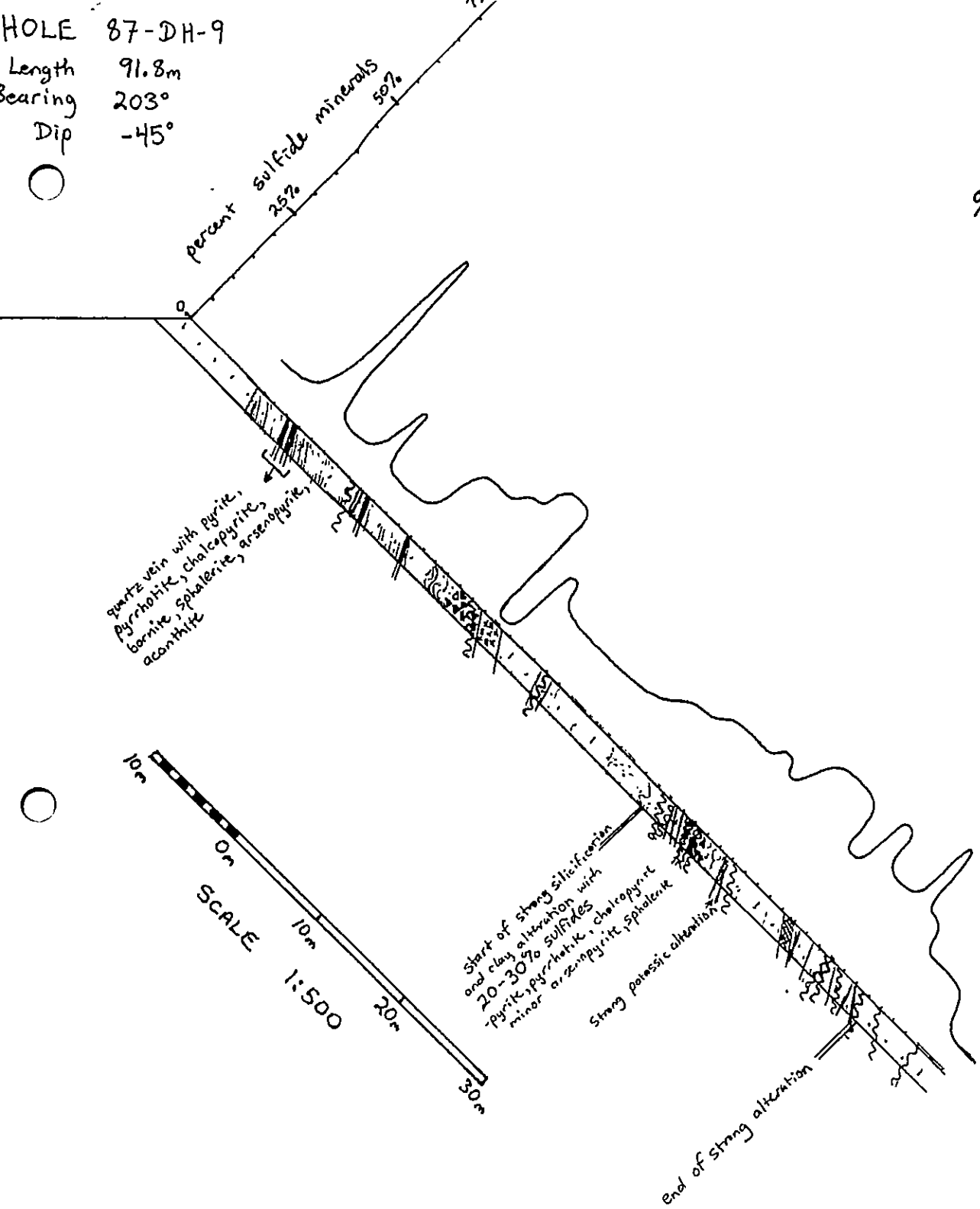
Dip -60°

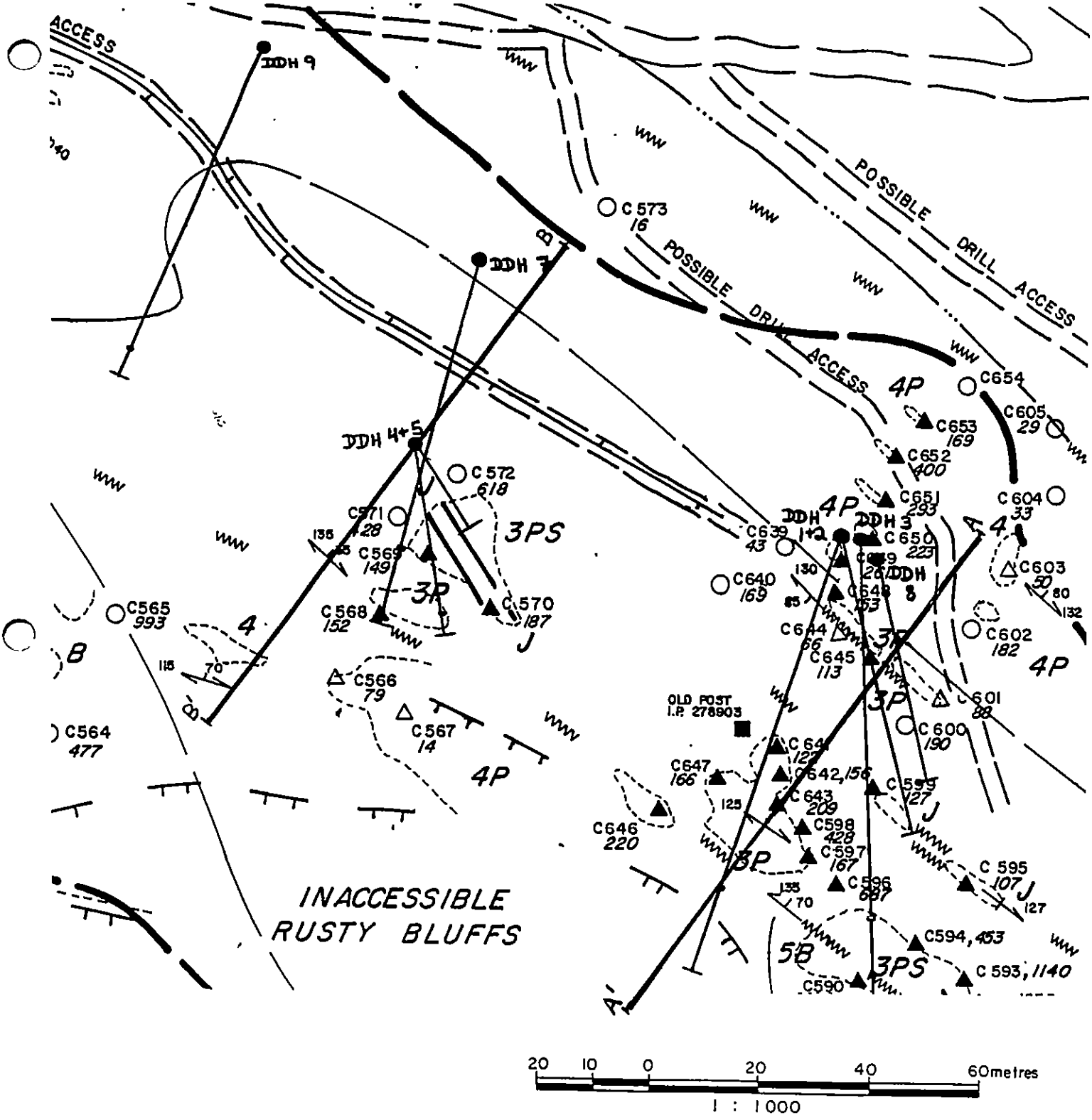
A-39



HOLE 87-DH-9
Length 91.8m
Bearing 203°
Dip -45°

A-40



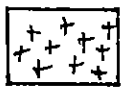


DRILL HOLE and CROSS SECTION LOCATIONS

LEGEND FOR GRAPHIC LOG

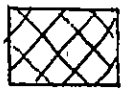
CHLORITE - SERICITE AND/OR TALC SCHIST

SCHISTOSE ANDESITE WELDED CRYSTAL TUFF

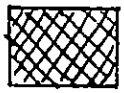


ANDESITE INTRUSIVE

HYDROTHERMAL BRECCIA



INTENSE ARGILLIC ALTERATION
- sericitization and silicification



INTENSE SILICIFICATION

QUARTZ VEIN WITH INDICATED DIP ANGLE TO CORE AXIS

SULFIDE VEIN WITH INDICATED DIP ANGLE TO CORE AXIS

FAULT WITH INDICATED DIP ANGLE TO CORE AXIS

CROSS SECTION OF ALTERATION ZONE NEAR DRILL SITES 1 AND 3. A-43

10m 0 10m 20m 30m

SCALE 1:500

(Bearing from A to A' = 217°)

LEGEND

- CHLORITE - SERICITE SCHIST WITH MODERATE BLEACHING AND 10% SULFIDES (PYRITE, PYRRHOTITE, CHALCOPYRITE).
- HYDROTHERMAL BRECCIA WITH 35% SULFIDES (PYRITE, PYRRHOTITE, CHALCOPYRITE, HEMATITE, ARSENOPYRITE, ACANTHITE, PYRARGYRITE).
- ANDESITE INTRUSIVE WITH < 3% pyrite.
- INTENSE SILICIFICATION AND/OR QUARTZ VEINING.
- STRONG SULFIDE MINERALIZATION -> 50% disseminated, vein, and fracture sulfides
- ARGILLIC ALTERATION
- POTASSIC ALTERATION
- FAULT

DDH 1 DDH 3

A A'

CROSS SECTION OF ALTERATION ZONE NEAR DRILL SITES 4 AND 7.

A-44

10m 0 10m 20m 30m

SCALE 1:500

(Bearing from B to B' = 217°)

LEGEND

- SCHISTOSE MUDSTONE AND SILTSTONE WITH 20% interbedded pyrite/pyrrhotite.
- SCHISTOSE ANDESITE CRYSTAL TUFF with 10% pyrite/pyrrhotite, chalcopyrite.
- HYDROTHERMAL BRECCIA with 40% sulfides (pyrite, pyrrhotite, chalcopyrite, hematite, arsenopyrite, acanthite, pyrargyrite).
- ANDESITE INTRUSIVE with < 5% pyrite.
- OVERBURDEN
- INTENSE SILICIFICATION AND/OR QUARTZ VEINING.
- STRONG SULFIDE MINERALIZATION >50% disseminated, vein, and fracture sulfides
- ARGILLIC ALTERATION
- POTASSIC ALTERATION
- FAULT

DDH-4

DDH-7

B'

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐

Hole No. 87DH-1 Page No. 1
Property FIRE CREEK
District
Commenced
Completed

Length 117.3 m
Bearing 198°
Dip -44°

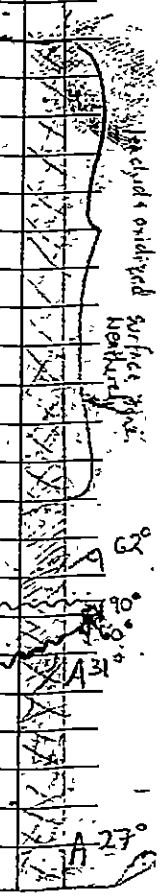
Lat
Dip
Elev. 700'

Drill Type JKS 300
Hole Size NDB
Contractor DRILCOR INDUSTRIES, LTD. Logged by David R. Bennett
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES
87DH-1, 1	2.0m	3.3m	.9m	70%	.003	1.6	22	71	18	10	463	38	15	1	2	
" 2	3.3m	4.8	1.1m	74	.002	3.1	22	86	14	6	269	24	20	1	1	2.0-8.1 m
" 3	4.8	6.3	.65m	43	.003	1.5	20	1078	8	22	161	23	749	1	2	- strongly oxidized surface
" 4	6.3	7.8	.5m	34	.002	.8	88	32	8	7	32	29	19	13	13	rock - silicified, clay altered
" 5	7.8	9.3	1.4	94	.002	.3	89	69	65	7	30	238	69	3	14	(>40% clay minerals) schist with
" 6	9.3	10.8	1.5	100	.004	.5	68	17	3	34	19	37	50	8	20	100% leaching and oxidation
" 7	10.8	12.3	1.5	100	.008	.3	122	18	22	19	20	85	25	7	20	of sulfide minerals
" 8	12.3	13.8	1.5	100	.005	.2	46	18	7	8	13	55	26	8	16	8.1-9.3m
" 9	13.8	15.3	1.5	100	.001	.6	63	22	334	8	18	29	25	8	13	- slightly bleached chlorite
" 10	15.3	16.8	1.0	67	.001	.4	26	9	35	9	57	17	11	4	6	schist with up to 5% pyrite
" 11	16.8	18.3	1.5	100	.001	.4	108	20	35	4	30	75	22	3	16	as fine grained and thin interbedded
" 12	18.3	19.8	1.4	94	.001	.3	51	27	31	3	23	66	17	5	16	pyrite layers
" 13	19.8	21.3	1.3	87	.001	1.5	172	40	62	5	20	42	50	11	17	9.3m 5cm wide fault gouge
" 14	21.3	22.8	1.5	100	.003	.5	64	24	11	9	17	41	37	13	19	- fault angle to core axis - 90°
" 15	22.8	24.3	1.5	100	.002	.3	28	3	5	5	8	27	23	11	14	9.7m - 9.9m fault gouge zone
" 16	24.3	25.8	1.5	100	.001	.1	19	6	2	7	14	18	8	1	4	- fault angle = 60°
" 17	25.8	27.3	1.5	100	.011	1.4	129	41	53	15	12	250	60	7	15	13.6m - fault - angle 39°
" 18	27.3	28.8	1.5	100	.001	.7	88	14	34	2	19	231	36	9	19	16.8-16.9m dark grey sulfide rich
" 19	28.8	30.3	1.5	100	.001	1.0	180	19	96	2	23	421	67	7	15	fault gouge.
" 20	30.3	31.8	1.5	100	.002	14.1	887	299	216	5	15	68	258	8	38	17.7m - fault gouge - angle 48°
" 21	31.8	33.3	1.5	100	.007	73.4	8427	265	1338	11	13	67	2405	3	19	17.9m " " " 66°
" 22	33.3	34.8	1.5	100	.002	.7	161	18	20	4	14	73	54	2	21	18.1m " " " 58°

GRAPHIC LOG

FOOTAGE	ROCK TYPE
2.0	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	



Q.M.C - 2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST

Hole No. 87 DH - 1 Page No. 2
Property FIRE CREEK
District
Commenced
Completed

Length 117.3m
Bearing 198
Dip -44°

Lat.
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES
87DH-1, 23	34.8 m	36.3	1.5m	100	.001	.5	196	16	12	4	17	39	42	3	17	21.1m thin, dark grey fault gouge
" ,24	36.3	37.8	1.5	100	.001	.4	191	7	8	2	13	41	66	5	19	- angle to core axis - 72°
" ,25	37.8	39.3	1.5	100	.002	.4	144	11	8	2	14	46	51	5	17	21.5m 5cm wide fault gouge
" ,26	39.3	40.8	1.5	100	.002	.3	46	4	6	3	14	44	19	8	21	26.0m fault gouge
" ,27	40.8	42.3	1.5	100	.003	.2	86	8	7	4	15	39	17	5	16	- angle to core axis 65°
" ,28	42.3	43.8	1.5	100	.002	.4	179	12	12	3	15	37	36	5	17	26.7m fault gouge.
" ,29	43.8	45.3	1.5	100	.001	.4	143	16	12	4	18	37	35	7	19	- angle to core axis 65°
" ,30	45.3	46.8	1.5	100	.001	.3	94	29	3	2	24	32	9	5	12	15.85m fault - angle 57°
" ,31	46.8	48.3	1.5	100	.003	.3	79	20	20	3	20	32	15	6	15	
" ,32	48.3	49.8	1.5	100	.002	.6	87	28	12	3	19	39	23	5	19	9.3 - 51.3 m
" ,33	49.8	51.3	1.5	100	.001	.4	106	18	69	3	19	37	24	4	19	very strongly bleached & silicified
" ,34	51.3	52.8	1.5	100	.001	.1	42	10	44	1	34	322	2	1	3	chlorite-sericite schist. Sulfide (mainly
" ,35	52.8	54.3	1.5	100	.001	.1	101	6	8	3	12	21	7	2	8	pyrite/pyrrhotite) content from
" ,36	54.3	55.8	1.5	100	.001	.3		6	6	2	31	14	8	1	7	15-30% with some almost massive
" ,37	55.8	57.3	1.5	100	.010	.4		8	9	1	6	18	18	4	15	sulfides and several intensely
" ,38	57.3	58.8	1.5	100	.002	.1		4	3	2	20	45	3	6	22	silicified zones having < 5%.
" ,39	58.8	60.3	1.5	100	.004	.7		8	10	2	18	49	23	9	27	Sulfides occur as f-med. gr. diss.,
" ,40	60.3	61.8	1.5	100	.005	.5		15	16	2	19	44	45	7	23	fracture fillings, and inter schist
" ,41	61.8	63.3	1.5	100	.003	.2		8	4	3	17	40	10	4	19	layers.
" ,42	63.3	64.8	1.5	100	.004	.5		4	6	3	14	30	15	6	16	12.6-13.6m Strong sulfide mineralizat^n
" ,43	64.8	66.3	1.5	100	.008	.7		5	462	3	28	211	55	5	18	- approx 25-30% pyrite, pyrrhotite,
" ,44	66.3	67.8	1.5	100	.005	1.0		13	103	1	23	165	83	5	20	minor chalcopyrite.

GRAPHIC LOG

FOOTAGE	ROCK TYPE
13	25-30% pyrite; A 39°; Sil. Sericite
14	
15	A 42°; 15-20% pyrite; A 57°
16	
17	A 56°; A 48°
18	A 66°; A 58°
19	
20	A 51°
21	A 72°
22	
23	A 50°; Sil. Sericite

Q.M.C-2

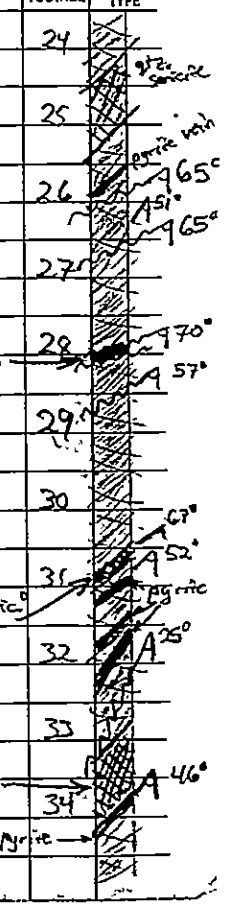
DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐

Hole No. 87DH-1 Page No. 3
Property FIRE CREEK Length 117.3 m Lat. Drill Type
District Bearing 198 Dip Hole Size
Commenced Dip -44° Elev. Contractor Logged by
Completed Approved by Date

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES
87DH-1, 45	67.8m	69.3m	1.5	100	.002	.6		11	143	1	32	673	27	9	19	13.6-13.9 m
" 46	69.3m	70.8	1.5	100	.010	.8		10	52	2	38	432	35	8	20	-strong, creamy white calcareous quartz-sericite
" 47	70.8	72.3	1.5	100	.008	1.0		33	24	2	17	63	58	8	25	Sericite zone with <3%
" 48	72.3	73.8	1.5	100	.007	1.0		62	132	3	4	58	32	7	21	crs. gr. diss. pyrite.
" 49	73.8	75.3	1.5	100	.021	2.1		82	72	4	4	55	141	8	25	15.3 - 16.8m " " "
" 50	75.3	76.8	1.5	100	.020	1.9		46	23	5	2	66	176	8	25	13.9-15.3 :- 15-20% sulfides.
" 51	76.8	78.3	1.5	100	.017	1.4		173	16	3	3	79	149	10	24	22.7-23.3m :- light grey quartz-sericite
" 52	78.3	79.8	1.5	100	.016	1.7		51	12	3	4	59	273	9	21	zone (silicified) with <5% sulfides
" 53	79.8	81.3	1.5	100	.021	1.7		20	19	5	4	71	193	8	22	24.3-25.3m " "
" 54	81.3	82.8	1.5	100	.034	2.9		22	81	6	5	74	417	11	23	25.85-25.9 m vein of almost massive
" 55	82.8	84.3	1.5	100	.012	.9		26	9	4	4	62	104	9	22	pyrite - approx. 60% pyrite
" 56	84.3	85.8	1.5	100	.021	2.1		52	19	6	4	61	333	7	19	with minor copper oxide minerals
" 57	85.8	87.3	1.5	100	.048	9.3		84	55	6	4	96	1035	7	18	-angle to core axis - 51°
" 58	87.3	88.8	1.5	100	.027	7.4		66	36	13	4	87	586	9	19	
" 59	88.8	90.3	1.5	100	.049	7.2		111	40	13	4	103	219	12	32	schistosity angles to core axis:-
" 60	90.3	91.8	1.5	100	.173	9.4		210	141	7	6	277	283	11	32	8.9m - 62°
" 61	91.8	93.3	1.5	100	.008	.7		17	152	2	42	1706	54	4	16	10.4m - 31°
" 62	93.3	94.8	1.5	100	.002	.5		5	84	2	63	1316	42	6	18	12.7m - 27°
" 63	94.8	96.3	1.5	100	.001	.3		6	62	2	37	967	29	6	15	14.5m - 42°
" 64	96.3	97.8	1.5	100	.003	.5		12	83	2	35	1304	63	5	17	17.3m - 56°
" 65	97.8	99.3	1.5	100	.002	1.1		51	154	2	56	1686	147	6	14	19.7m - 51°
" 66	99.3	100.8	1.5	100	.002	1.2		52	134	1	70	2599	259	5	12	22.2m - 50°
																26.4m - 51°

GRAPHIC LOG



Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87 DH-1 Page No. 4
Property FIRE CREEK Length 117.3m Lat. _____ Drill Type _____
District _____ Bearing 198° Dip _____ Hole Size _____
Commenced _____ Dip -44° Elev. _____ Contractor _____ Logged by _____
Completed _____ Approved by _____ Date _____

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES
87 DH-1, 67	100.8m	102.3m	1.5	100	.011	.5		13	88	2	54	2675	134	7	14	28.3m - 55°
" 68	102.3m	103.8	1.5	100	.003	.8		17	123	2	61	2457	222	5	14	30.7m - 52°
" 69	103.8m	105.3	1.5	100	.002	.9		12	98	2	76	1910	77	5	13	33.8m - 46°
" 70	105.3m	106.8	1.2	80	.003	2.2		119	369	2	69	2183	71	7	17	35.3m - 57°
" 71	106.8	108.3	1.3	87	.002	.6		12	147	1	91	2266	152	7	15	37.7m - 59°
" 72	108.3	109.8	1.3	87	.002	.4		17	119	2	81	2224	446	5	11	40.3m - 73°
" 73	109.8	111.3	1.4	94	.002	.6		40	116	1	76	2150	120	4	14	43.5m - 74°
" 74	111.3	112.8	1.5	100	.001	.4		16	104	2	84	1976	94	3	16	45.8m - 51°
" 75	112.8	114.3	1.4	94	.001	.3		38	132	1	98	1999	158	3	13	48.9m - 61°
" 76	114.3	115.8	1.2	80	.001	.2		4	67	1	80	1573	31	3	14	
" 77	115.8	117.3	1.0	67	.001	.2		6	60	1	60	1706	79	4	13	Faults - angles to core axis:-
																27.9m - 70° } fault bounded quartz vein
																28.05m - 70° }
																28.6-28.7m - 57°
																32.5m - 25° - pitch of striations:- 48°
																34.7m - 63°
																35.0m - 57°
																35.9m - 58°
																36.6m - [illegible] angle.
																38.5 - 69°
																39.1-39.2 - fault gouge zone.
																39.3-47.5 - zone with numerous fault and fracture gouge
																49.8m fault

GRAPHIC LOG

FOOTAGE: 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45

ROCK TYPE: Zone of intense faulting & alteration / Heavily faulted deformed zone surface

63° 57° 58° 59° 67° 73° 74°

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST

Hole No. 87 DH-1 Page No 5
Property FIRE CREEK
District
Commenced
Completed

Length 117.3m
Bearing 198°
Dip -44

Lat.
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo**	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															27.9-28.05 - Massive quartz vein with little to no sulfides - 15cm wide vein - 70°
															30.7-30.9m - silicified zone, bounded by pyrite veins (qtz-sericite alteration) - 67°
									1						33.0-33.9 - Zone of strong silicification with sericitization - bounded by 10cm thick pyritic zones (50% coarse grained to massive pyrite) - 50°
															31.1-31.2m - approx 40% med. to coarse gr diss. pyrite.
															31.6-31.7 - 40-50% med gr diss py.
									31.8-31.9 nearly massive py	~40%					33.9-34.0m - pyritic zone - 40-50% f-crs gr. diss py.
															34.5-65.5m zone of very strong clay alteration, silicification + deformation with 20+% sulfide mineralization
															39.0-42.5m rock almost entirely altered to clay
															42.5-47.5 - brecciated zone with strong silicification and sulfides (mainly pyrite) up to 40%

GRAPHIC LOG

FOOTAGE: 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56

ROCK TYPE: A 51°, qtz. vein, A 61°, A 72°, A 70°, A 72°, A 72°, A 68°, A 60°

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87-DH-1 Page No. 6
Property FIRE CREEK
District _____
Commenced _____
Completed _____

Length 117.3 m
Bearing 198°
Dip -44°

Lat. _____
Dip _____
Elev. _____

Drill Type _____
Hole Size _____
Contractor _____

Logged by _____
Approved by _____ Date _____

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo**	OXIDE ANALYSIS Cu	Mo	ROCK DESCRIPTION AND NOTES
													46.5-46.7m - 20 cm wide quartz vein with < 3% sulfides + minor sericite - 61° angle to core axis
													47.0-47.3 - 30 cm wide quartz vein with minor sericite and < 1% pyrite. -61° to core axis
													51.3-52.5m - strongly bleached, chloritic, porphyritic intrusive (biotite and chlorite phenocrysts) with 5-10% med.gr. disseminated pyrite.
													51.9-52.5m - orange and reddish coloured alteration minerals present (probably realgar and orpiment) - approx. 15% f.gr. disseminated realgar in a zone from 52.3-52.5m
													Intrusive contacts angles to core axis 51.3m - 78°, 52.5m - 68°
								—					52.5-65.4m strongly bleached - silicified, sericitized, pyritized breccia, (approx. 50% bleached rock fragments in a quartz, sericite, carbonate matrix with fracture + disseminated pyrite from 20-35%)

GRAPHIC LOG

FOOTAGE	ROCK TYPE
57m	
58	A 45°
59	A 58°
60	A 50°
61	A 61°
	A 80° qtz vein
62	
63	
64	
65	
	A 75° qtz vein
66	
67	

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87DH-1 Page No 7
Property FIRE CREEK Length 117.3 m Lat. _____ Drill Type _____
District _____ Bearing 198° Dip _____ Hole Size _____
Commenced _____ Dip -44° Elev. _____ Contractor _____ Logged by _____
Completed _____ Approved by _____ Date _____

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo	ROCK DESCRIPTION AND NOTES
													61.1-61.2m massive white quartz vein with several large vugs and <3% pyrite. -86° angle to core axis
													65.4-65.5m massive white quartz vein with 20+% crs. gr. dss. pyrite — 75° angle to core axis
													68.4-68.5m quartz vein with 20+% crs gr. disseminated pyrite and minor chalcopyrite. Also <1% reddish (realgar) coloured mineral. Slickensides on fault bounding surfaces have serpentine coatings. 48° angle to core axis. Minor potassic alteration indicated by pinkish-brown coloured clay alteration
													68.5-69.8 dark green, chloritized intrusive (probable andesite dike) with massive pyrite augen up to 1.5 cm diameter - 46° angle to core axis
													70.3-70.55m - quartz vein with silicified rock fragments + approx 15% f.gr. pyrite as selvage and in rock fragments - 53° angle to core axis

GRAPHIC LOG

FOOTAGE: 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78

ROCK TYPE: qtz vein 48°; 46°; qtz vein 66°; 66°; 62°; strong silicification 65°; 64°; pyrite vein 50°; 62°

Q.M.C-2

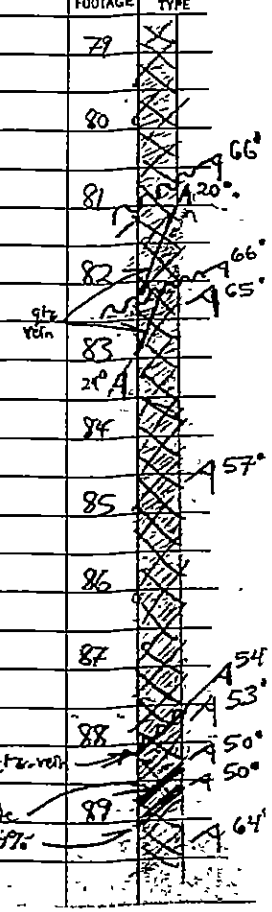
DRILL SAMPLE RECORD

☐ GRANITE ☐ ☐
☐ VOLCANIC ☐ ☐
☐ SEDIMENT ☐ ☐
☐ SCHIST ☐ ☐
☐ ☐ ☐

Hole No. 87DH-1 Page No. 8
Property FIRE CREEK Length 117.3m Lat. Drill Type
District Bearing 198° Dip Hole Size
Commenced Dip -44° Elev. Contractor Logged by
Completed Approved by Date

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo ppm	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															69.8m to 91.5, strongly bleached+silicified dark grey rock with 15+% pyrite.
															Faults :- 51.3m - 72° angle to core axis.
															50.8 - 70° angle.
															49.8 - fault gouge.
															58.4 - 45° fault bounded qtz.
															59.0 - 58°
															60.5-60.6 - 50° fault zone.
															62.7m - fault - no angle.
															Schistosity angles to core axis:-
															S0 3m - 72°
															53.9m - 68°
															56.6m - 60°
															60.9m - 61°
															64.2m - 61°
															66.8m - 55°
															68.2m - 53°
															70.0m - 66°

GRAPHIC LOG



Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87DH-1 Page No. 9
Property FIRE CREEK
District _____
Commenced _____
Completed _____

Length 117.3m
Bearing 198°
Dip -44°

Lat _____
Dip _____
Elev. _____

Drill Type _____
Hole Size _____
Contractor _____

Logged by _____
Approved by _____ Date _____

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo**	OXIDE ANALYSIS Cu	Mo		

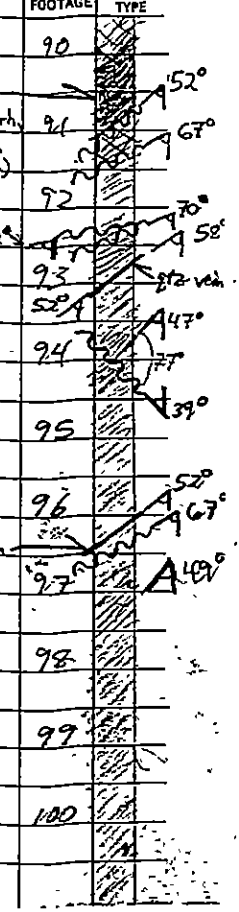
ROCK DESCRIPTION AND NOTES

73.3m - 66°
75.6m - 64°
77.9m - 62°
82.4m - 65°
84.8m - 57°
88.1m - 53°
89.5m - 64°
92.7m - 58°

Faults - angles to core axis
73.6m - 62°
80.8m - 66°
91.0m - 52°
91.4m - 67°
92.3m - 82°
92.4m - 70°

73.9m to 75.2m - strong silicification with quartz-pyrite lined vugs elongate along schist-layers. Vugs up to 5cm long - 2cm wide. 65° angle to core axis.

GRAPHIC LOG



Q.M.C-2

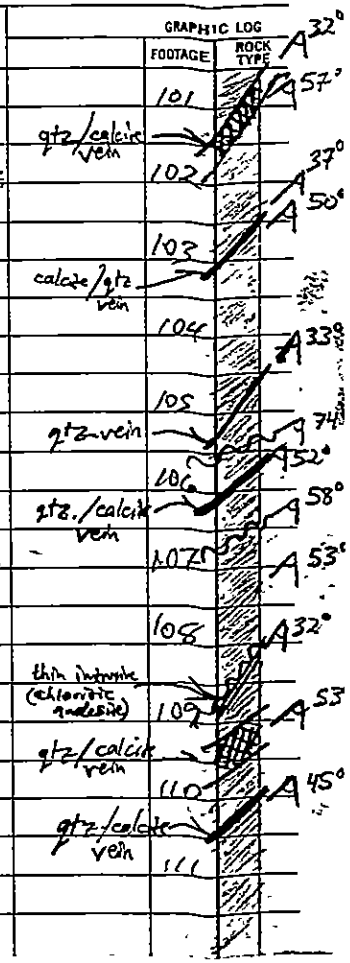
DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87 DH-1 Page No. 10
Property FIRE CREEK Length 117.3m Lat. _____ Drill Type _____
District _____ Bearing 198° Dip _____ Hole Size _____
Commenced _____ Dip -44° Elev. _____ Contractor _____ Logged by _____
Completed _____ Approved by _____ Date _____

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo	ROCK DESCRIPTION AND NOTES
													74.6m :- 3 cm wide barren quartz vein. 49° angle to core axis
													77.5m :- 4 cm wide zone with >60% f.g.a. pyrite. Zone angle to core axis :- 50°
													82.0m :- 2 cm wide quartz vein with 20° angle to core axis
													82.1m :- fault (truncates 1cm wide qtz vein. - angle to core axis :- fault - 66° qtz. vein - 24°
													87.7m pinched out 3 cm wide qtz. vein along fault parallel to schistosity - angle to core axis :- 54°
													88.5-88.58 - 8cm wide pyrite vein with 60-70+% pyrite and ~30% microcrystalline qtz. 50° angle to core axis
													88.7-88.8m " " "
													90.0-90.9m zone of heavy

GRAPHIC LOG



Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST

Hole No 87-DH-1 Page No 11
Property FIRE CREEK
District
Commenced
Completed

Length 117.3 m
Bearing 198°
Dip -44°

Lat.
Dip
Elev

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo ppm	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															sulfide mineralization, with 40+% pyrite/pyrrhotite (minor chalcopyrite + arsenopyrite) in a silicified host rock.
															91.5m–117.3 chlorite-sericite schist with minor bleaching & ~5% f.gr. disseminated sulfides (mainly pyrite).
															92.9m – 3cm wide qtz. veh – 52° angle to core axis.
															bleaching diminishes qtz approx. 99m – sulfides as high as 10% (mainly pyrite/pyrrhotite) in places.
															Schistosity – angles to core axis 94m – 47° 97.4m – 49° 101.1m – 57° 102.7m – 50° 107.5m – 53° 110.4m – 45° 112.8m – 42° 115.3m – 39°

GRAPHIC LOG

FOOTAGE	ROCK TYPE
112	A 42°
113	
114	
115	A 39°
116	A 37° A 35°
qtz-calcite veins	
117	
end of hole	

Q M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST

Hole No. 87 DA-1 Page No. 12
Property FIRE CREEK
District
Commenced
Completed

Length 117.3 m
Bearing 198°
Dip -44°

Lat.
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo**	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	ROCK TYPE
															Fault - 94.0m - 39° angle to core axis - dip direction is 77° from dip direction of schistosity		
															-96.5m - 67° angle to core axis		
															-106.6m -58°		
															-105.5m -74°		
															-108.6m - 4cm wide fault bound chloritic andesite intrusive - 32° to core axis		
															96.2m 1 cm thick qtz-sericite vein - 52°		
															101-101.3m - qtz-calcite vein with calcite making up approx 10% <1% visible sulfides -angle 32° to core axis		
															102.8m 3cm wide calcite qtz vein - approx 20% quartz along edges of vein. No sulfides angle 37° to core axis		

Q M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐

Hole No. 87 DH-1 Page No. 13
Property FIRE CREEK Length 117.3 m Lat. Drill Type
District Bearing -198° Dip Hole Size
Commenced Dip -44° Elev. Contractor Logged by
Completed Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	ROCK TYPE
															104.8m - 2cm wide quartz vein (width approx 3% calcite) - no sulfides - angle 33°		
															105.9 m - 4 cm wide qtz. vein with 5% calcite - no sulfides - angle 52°		
															109.1 - 109.6 - qtz - calcite vein (5% calcite) with no sulfides - angle 53°		
															110.3 m - 5 cm wide qtz - calcite (5%) vein with no sulfides - angle 45°		
															106.2 - 106.4 m - qtz-calcite (10%) vein - no sulfides - angle 37°		
															116.45 - 116.5 - qtz-calcite vein (10%) no sulfides - angle 35°		
															117.3 m end of hole.		

Q-M C-2

DRILL SAMPLE RECORD

GRANITE
VOLCANIC
SEDIMENT
SCHIST

Hole No 87 DH-2 Page No 1
Property FIRE CREEK Length 110.3 m Lat Drill Type JKS 300
District Bearing 164 Dip Hole Size NDB
Commenced Dip -60° Elev. 700' Contractor DRILCOR INDUSTRIES LTD. Logged by David R. Bennett
Completed Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T. Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	ROCK TYPE
87 DH-2, 1	0.0 m	3.8 m	0.7m	19%	.005	27.3	520	108	103	3	283	86	349	34	3		0.0m	
" , 2	3.8 m	5.3	1.5	100	.002	.8	25	79	8	4	158	20	7	3	3	0.0 - 11.0 m - Strong weathering (dry oxidation) and oxidation of chlorite		
" , 3	5.3	6.8	1.5	100	.001	.3	47	46	100	4	51	315	28	5	7		1m	
" , 4	6 8	9.8	1.8	60	.001	1.1	28	681	103	15	87	418	135	3	1	sericite - talc schist. Fresher		
																rock sections have 5-10%	2	
" , 5	9.8	11.3	1.5	100	.002	.6	72	73	72	10	32	318	59	6	17	f. gr. inter schist pyrite.		
" , 6	11.3	12.8	1.5	100	.001	.6	228	66	162	2	24	955	74	7	16	11.0 - 14.5m - Chlorite - sericite -	3	
" , 7	12.8	14.3	1.5	100	.001	.4	286	33	222	4	22	1043	38	7	17	talc schist with sulfides		
" , 8	14.3	15 5	1.5	100	.001	.6	61	43	120	2	28	357	22	7	16	oxidized but no clay weathering	4	
" , 9	15.8	17.3	1.5	100	.001	.3	80	34	154	7	34	321	20	7	18	14.5 - 24.0 m Unweathered +		
" , 10	17.3	18.8	1.5	100	.003	2.2	894	81	189	2	31	396	39	7	19	unoxidized chlorite - sericite - talc	5	
" , 11	18.8	20.3	1.5	100	.001	.1	112	17	43	2	36	260	11	8	16	schist with 5-10% inter-schist		
" , 12	20.3	21.8	1.5	100	.002	.4	108	19	165	14	23	314	28	6	19	f. gr. pyrite and thin calcite	6.5	
" , 13	21 8	23.3	1.0	67	.001	.2	53	10	45	9	29	235	9	7	20	veinlets throughout (		
" , 14	23.3	24.8	1.5	100	.003	.2	35	15	24	4	33	40	9	11	19	Bleaching of rock begins	7	
" , 15	24.8	26.3	1.5	100	.006	3.4	3398	85	1408	3	21	20	13	8	17	at approx 15.0m and gets		
" , 16	26.3	27.8	1.5	100	.020	14.8	12,644	130	5622	10	20	22	27	8	15	stronger with depth. Pyrite	8	
" , 17	27.8	29.3	1.5	100	.001	1.0	177	60	288	5	14	15	33	7	12	mineralization also becomes		
" , 18	29.3	30.8	1.5	100	.001	.5	93	23	29	2	32	20	19	7	17	stronger with depth.	9	
" , 19	30.8	32.3	1.5	100	.002	.2	70	17	22	3	29	15	25	7	17	24.0 - 59.1 m Clay alteration + silici-		
" , 20	32 3	33.8	1.5	100	.001	.5	70	23	20	3	23	13	28	8	19	fication very strong with pyrite	10	
" , 21	33.8	35.3	1.5	100	.002	.2	95	38	80	16	14	10	27	19	25	content reaching 20+% Very little		
																deformation has occurred to this point		

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87-DH-2 Page No 2
Property FIRE CREEK
District
Commenced
Completed

Length 110.3m
Bearing 164°
Dip -60°

Lat.
Dip
Elev.

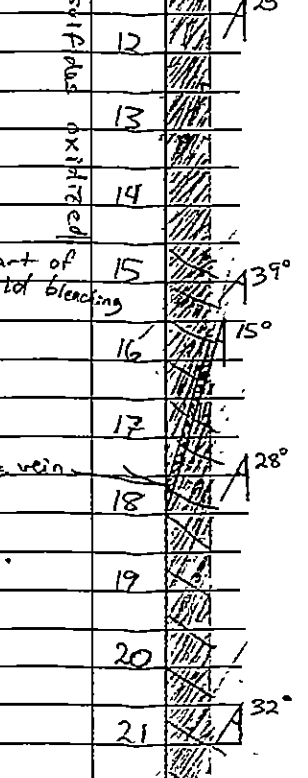
Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	ROCK TYPE
DH-2, 22	35.3m	36.8m	1.5	100	.022	30.2	4959	377	2429	4	15	21	1410	6	25		11m	
" ,23	36.8	38.3	1.5	100	.001	1.3	197	115	105	2	42	44	51	5	13	16.7m - 5cm wide massive		
" ,24	38.3	39.8	1.5	100	.001	.9	116	112	97	4	19	13	34	7	17	quartz vein - angle to core axis	12	
" ,25	39.8	41.3	1.5	100	.002	5.9	276	1919	8558	6	16	28	72	8	15	15°. Pyrite content increases		
" ,26	41.3	42.8	1.5	100	.001	1.8	121	147	345	3	29	32	36	7	17	(15%) in chlorite schist close to vein	13	
" ,27	42.8	44.3	1.5	100	.001	.4	73	24	60	7	19	10	22	11	19			
" ,28	44.3	45.8	1.5	100	.003	.3	67	18	15	8	26	11	66	12	19	Faults - angles to core axis	14	
" ,29	45.8	47.3	1.5	100	.002	1.0	132	28	254	5	30	25	54	8	14	9.8m - angle ?		
" ,30	47.3	48.8	1.5	100	.001	.4	46	22	13	6	36	13	31	9	15	7.2 - 7.8 - fault gouge zone	15	
" ,31	48.8	50.3	1.5	100	.002	.9	68	23	17	9	15	30	45	9	16	- fault at 7.8 - 45° approx.		
" ,32	50.3	51.8	1.5	100	.002	.8	75	24	25	15	19	10	38	11	17	5.3-5.4 - 10cm fault gouge - 45°	16	
" ,33	51.8	53.3	1.5	100	.001	.6	158	19	45	2	19	71	46	11	18	10.6m - fault - 48°		
" ,34	53.3	54.8	1.5	100	.019	126.8	11,019	542	1626	4	13	176	1997	8	14		17	
" ,35	54.8	56.3	1.5	100	.009	127.8	9,204	307	1940	5	13	19	1836	8	16	Schistosity - angles to core axis :-		
" ,36	56.3	57.8	1.5	100	.002	3.0	568	18	99	1	22	189	168	11	17	5.9m - 44° 4.4m - 48°	18	
" ,37	57.8	59.3	1.5	100	.003	2.7	452	15	62	2	33	202	151	6	16	8.5m - 69°		
" ,38	59.3	60.8	1.5	100	.001	.5	141	12	33	2	31	137	37	5	17	8.6-9.8m no core	19	
" ,39	60.8	62.3	1.5	100	.001	.4	62	7	8	2	22	15	25	6	18	11.6m - 25°		
" ,40	62.3	63.8	1.5	100	.001	.4	172	11	10	2	21	21	51	6	18	15.1m - 39°	20	
" ,41	63.8	65.3	1.5	100	.008	.5	95	2	6	6	26	11	36	6	17	17.6m - 28°		
" ,42	65.3	66.8	1.5	100	.004	.4	68	7	6	2	18	14	26	7	21	20.8m - 32°	21	
" ,43	66.8	68.3	1.5	100	.002	.9	108	8	13	2	18	8	32	6	20	23.6m - 27°		
																25.6m - 28°		

Start of mild bleaching

qtz vein



Q M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87-DH-2 Page No. 3
Property FIRE CREEK Length 110.3m Lat _____ Drill Type _____
District _____ Bearing 164° Dip _____ Hole Size _____
Commenced _____ Dip -60° Elev _____ Contractor _____ Logged by _____
Completed _____ Approved by _____ Date _____

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T. Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES
7-DH-2, 44	68.2m	69.8m	1.0	67%	.003	.2	125	6	12	2	23	15	51	6	19	27.3m - 35°
" , 45	69.8	71.3	.75	50	.002	.2	46	5	6	2	22	9	12	6	17	29.5m - 26°
" , 46	71.3	72.8	1.4	94	.001	.1	49	5	7	2	25	15	15	5	15	32.4m - 30°
" , 47	72.8	74.3	1.5	100	.001	.2	36	5	7	1	22	7	16	7	16	35.1m - 30°
" , 48	74.3	75.8	1.3	87	.002	.2	49	12	10	2	25	10	23	8	18	37.8m - 32°
" , 49	75.8	77.3	1.5	100	.002	1.0	350	23	133	1	34	79	85	6	19	39.5m - 27°
" , 50	77.3	78.8	1.5	100	.003	.9	440	45	449	3	32	127	81	7	19	42.0m - 25°
" , 51	78.8	80.3	1.5	100	.004	1.1	336	15	44	3	47	59	109	8	20	44.0m - 27°
" , 52	80.3	81.6	1.5	100	.003	.7	308	17	27	3	44	64	91	8	22	45.9m - 33°
" , 53	81.8	83.3	1.5	100	.002	.2	193	14	7	3	19	12	29	9	22	
" , 54	83.3	84.8	1.5	100	.002	.8	150	11	46	1	49	189	44	4	11	Faults angles to core axis
" , 55	84.8	86.3	1.5	100	.001	.3	27	3	89	1	66	411	2	1	3	26.3-26.6 - intensely silicified
" , 56	86.3	87.8	1.5	100	.002	.5	56	17	33	2	38	296	13	5	14	+ qtz veined zone with strong
" , 57	87.8	89.3	1.5	100	.001	.5	48	9	7	1	33	10	17	7	20	chalcopyrite / pyrite mineralization
" , 58	89.3	90.8	1.5	100	.001	.3	33	13	7	1	35	18	11	6	18	28.9-40% sulfides with approx. equal
" , 59	90.8	92.3	1.5	100	.002	.4	82	12	15	3	28	8	27	7	21	amounts of chalcopy. + py.
" , 60	92.3	93.8	1.5	100	.001	.6	51	11	13	3	29	21	18	5	16	Zone is bounded by a fault at
" , 61	93.8	95.3	1.5	100	.013	2.3	504	7	217	8	25	20	166	16	42	26.6m - angle 20°
" , 62	95.3	96.8	1.0	67	.003	.5	81	10	35	2	22	12	24	5	18	28.5m - fault at start of
" , 63	96.8	98.3	.7	49	.003	.3	59	9	19	2	22	9	21	6	18	silicified zone - 20° angle
" , 64	98.3	99.8	1.5	100	.002	.9	169	11	219	1	18	12	24	6	15	28.9m fault at end of zone - 43°
" , 65	99.8	101.3	1.5	100	.002	.6	181	13	43	1	28	10	62	7	18	28.5-28.9m silicified - qtz vein zone
																with ~25% sulfides (mainly pyrite, some chalcopy - 5% sulfides)

GRAPHIC LOG

FOOTAGE	ROCK TYPE
22	
23	A 27°
24	
25	A 28°
26	A 20°
27	A 35°
28	A 20°
29	A 43°
30	A 26°
31	A 42°
32	A 30°

start of bleaching
silicified vein zone py/chalcopy
silicified vein zone py/chalcopy chromatite

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87-DH-2 Page No. 4
Property FIRE CREEK
District
Commenced
Completed

Length 110.3m
Bearing 164°
Dip -60°

Lat.
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T. Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Fe	As	Ni	Co	ROCK DESCRIPTION AND NOTES
7 DH-2, 66	101.3m	102.8m	1.4	94	.002	1.0	192	18	962	1	37	191	69	5	16	31.5m - small fault 42°
" ,67	102.8m	104.3m	1.5	100	.002	.5	148	24	246	2	31	322	28	5	17	33.9 - 34.6m - fairly strong
" ,68	104.3	105.8	1.5	100	.001	.3	114	23	300	2	40	424	7	5	17	silicified zone (~50% microcrystalline
" ,69	105.8	107.3	1.2	80	.004	.6	198	20	15	2	26	19	7	5	20	qtz - previous zones were 70+%
" ,70	107.3	108.8	1.5	100	.003	.3	280	10	7	2	37	16	5	9	27	massive + microcrystalline qtz)
" ,71	108.8	110.3	1.1	73	.002	.4	215	12	5	1	49	11	6	7	19	with 30% fine. interschist
END	OF HOLE															pyrite.
																-bounded at 34.6m by a
																fault - angle 48° - and a 5cm
																wide zone of nearly massive
																pyrite with minor chalcopyrite.
																35.2 - 35.7m
																silicified qtz vein zone
																with 40-60% f-crs. gr diss
																sulfide (mainly pyrite, minor
																chalcopyrite + ~3% specular
																hematite - brownish red streak)
																-bounded by fault at 35.7m
																- angle 33°
																-38.3m fault with angle to
																core axis < 20° - strong shearing
																alt° near fault

GRAPHIC LOG

FOOTAGE	ROCK TYPE	
33		
34		A 48°
35		A 30°
36		
37		A ?
38		A 32°
39		
40		A 27°
41		
42		A 25°
43		

silicified zone with 30% sulfides
5cm wide zone of massive pyrite
qtz vein with 40-60% py, chalcopy, hematite
strong silic. w. 30-40% interschist + fracture py.

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐

Hole No 87-DH-2 Page No 5
Property FIRE CREEK
District
Commenced
Completed

Length 110.3 m
Bearing 164°
Dip -60°

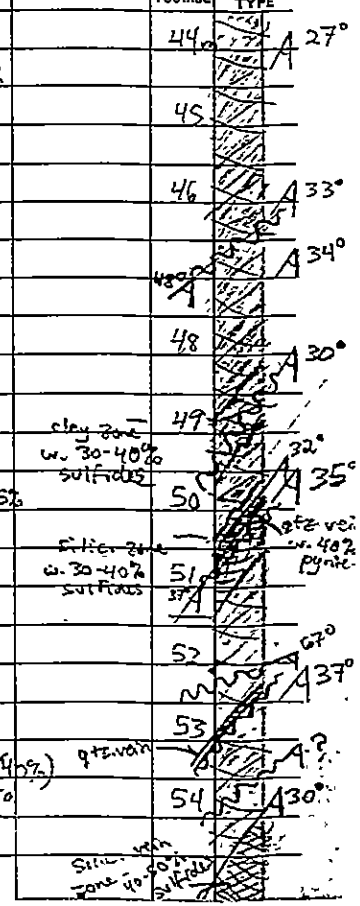
Lat.
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															39.9 - 41.1 zone of strong silicification with 30-40% sulfides - (fracture + inter-schist)
															- 46.6m - small fault - angle to core axis 48°
															-46 - 59.1m rock becomes more deformed with numerous small wrinkles + folds in the schist
															-48.8-49.2m strong deformed + clay altered zone with 30-40% v.f.gr. disseminated + inter schist pyrite 35% hematite (5%) Fault at 49.0m - angle 30°
															-50.2 - 51.0 - zone of strong silicification with 30-40% f-crs gr diss. + inter schist pyrite - vein from 50.3-50.5 with 40% diss py in a qtz (40%) clay (20%) matrix - angle 32° Fault at 50.5m - angle 37°

GRAPHIC LOG



Q.M.C - 2

DRILL SAMPLE RECORD

GRANITE
VOLCANIC
SEDIMENT
SCHIST

Hole No. 87-D#-2 Page No. 6
Property FIPE CREEK
District
Commenced
Completed

Length 110.3m
Bearing 164°
Dip -60°

Lat
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo*	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															52.1m - large fault with a 20 cm wide strongly deformed + rib. mixed zone - 67°
															25.6-52.65m - 5 cm wide massive qtz vein (<3% sulfides) fault ended at 52.65m - angle 37°
															53.7m fault - angle ?
															54.3-55.1 - Silicified vein zone with 40-50% sulfides
															throughout but with sections up to 10cm wide with >60% fine gr. diss. intersalist, + fracture sulfides.
															- Sulfide mineralogy
															- pyrite/pyrrhotite 25%
															- hematite 13%
															- chalcopyrite 5%
															- grey sulfides (arsenopyrite) 2%
															- Significant amounts of hydrothermal magnesian chlorite occur in places
															- Silicification is both massive qtz + microcrystalline chalcedonic qtz angle ~30°

GRAPHIC LOG

FOOTAGE	ROCK TYPE
55	A 30°
56	A 33°
57	A 25°
58	A 26°
59	A 28°
60	
61	A 32°
62	
63	
64	qtz vein
65	>60% sulfide

Silic. vein zone w/ 40-50% pyrite/pyrrhotite + minor chalcopy., arsenopy.

Sericite chlorite alteration

Sericite chlorite alteration with 15-20% py.

Heavily fractured + silicified qtz vein - clay altered, silicified with 30-50+% sulfides, - highly mineralized with chalcopy, minor arsenopy, grey sulfides.

Q-M C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87-DH-2 Page No. 7
Property FIRE CREEK Length 110.3m Lat. _____ Drill Type _____
District _____ Bearing 164° Dip _____ Hole Size _____
Commenced _____ Dip -60° Elev. _____ Contractor _____ Logged by _____
Completed _____ Approved by _____ Date _____

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo**	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															55.8-56.4 zone of low sulfides (<3%) with 100% bleaching consisting of sericite (70%) ± magnesian chlorite? (25%) - 5% qtz, calcite - accessory minerals.
															57.0 - fault - 25° angle to core.
															57.0-57.8 - 15-20% pyrite in a sericite - chlorite bleached zone.
															59.1-83.8m very strongly clay altered silicified, fractured & faulted breccia with 30-50% disseminated, fracture & inter schist sulfides. (mainly pyrite/pyrrhotite with minor hematite, chalcopyrite & grey sulfides) — Numerous faults throughout —
															Schistosity - angles to core axis 46.8m - 34° 49.8m - 35° 52.4m - 37°

GRAPHIC LOG

FOOTAGE	ROCK TYPE
66	24°
67	
68	38° 27°
69	
70	
71	
72	
73	
74	
75	
76	

qtz-ser-calcite vein with >50% pyrite

qtz-ser vein with 40% pyrite stringers

Q M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST

Hole No. 87-DH-2 Page No. 8
Property FIRE CREEK
District
Commenced
Completed

Length 110.3m
Bearing 164°
Dip -60°

Lat.
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo		

ROCK DESCRIPTION AND NOTES

55.4 - 33°
57.3 - 26°
59.5 - 28°
61.2 - 32°
62.3-66.0 - crushed zone
66.1 - 24°

64.2m - approx 5 cm wide quartz vein with 30+% diss. sulfides.
64.7-65.1m - zone with >50% sulfides - mainly pyrite
67.3-67.8m - zone with quartz calcite ± sericite veins > 50% fine gr. disseminated pyrite.
- fault at end of zone - 67° angle.
68.6 - 68.8m massive qtz vein with 40+% disseminate pyrite with minor chalcopyrite (sulfides mainly in breccia along boundaries)
- Strong sericite alteration in fractured areas - angle 27°

GRAPHIC LOG

FOOTAGE	ROCK TYPE
77m	
78	A 26°
79	
80	A 23°
81	A 29°
82	
83	A 47°
84	
85	
86	38°
87	
70°	

Start of strong pervasive silicification

>50% sulfides (mainly pyrite)

Intrusive < 50% sulfides

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87-DH-2 Page No. 9
Property FIRE CREEK
District _____
Commenced _____
Completed _____

Length 110.3m
Bearing 164°
Dip -60°

Lat. _____
Dip _____
Elev _____

Drill Type _____
Hole Size _____
Contractor _____

Logged by _____
Approved by _____ Date _____

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo ppm	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															82.0 - 83.8 - sulfide content in intensely clay altered breccia increases to >50%
															83.8 - 86.8 light grey-green coloured bleached chloritic intrusive with mafic (chloritic) and pyrite phenocrysts 1-2 mm. Sharp boundaries with breccia unit. Boundaries are planar.
															- 83.8 - 47° angle of contact
															- 10cm width of strong bleaching in intrusive near contact.
															- 86.8 - 30° angle of contact
															- 2cm wide bleached contact zone
															80.2 m - start of potassic alteration in breccia unit
															- ends at 101.2m
															86.8 - 100.7m continuation of breccia unit with strong clay alteration (potassic / argillic) + silicification with 20-40% f-m gr. sulphides (mainly pyrite)

GRAPHIC LOG

FOOTAGE	ROCK TYPE	
88		
89		
90		A 33°
		A 45°
91		A 37°
92		A 26°
93		
94		A 49°
95		A 25°
96		
97		
98		>50% pyrite

qtz. vein 30% py

massive qtz. vein <5% py

massive qtz. vein 25% pyrite in seams

strong silic. w. 40-60% pyrite

Q M.C - 2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No 87-DH-2 Page No. 10
Property FIRE CREEK
District
Commenced
Completed

Length 110.3m
Bearing 164°
Dip -60°

Lat
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															Schistosity analog to ore axis
															67.5m - 38°
															78.1m - 26°
															79.8m - 23°
															80.9m - 29°
															86.1m - 38°
															89.2m - 33°
															90.7m - 37°
															94.8m - 25°
															99.6m - 25°
															101.8m - 34°
															104.3m - 31°
															105.8-110.3 rock crushed
															88.5-89.1m zone of 50+% med.gr. diss pyrite
															89.4m - 5cm wide quartz vein with 30% pyrite
															90.2-90.4 - 20cm wide massive pyrite vein with < 5% sulfides angle - approx 45°
															92.3m large fault - 26° angle

GRAPHIC LOG

FOOTAGE	ROCK TYPE
99m	
100	A 25°
101	
102	A 34°
103	
104	A 31°
105	
106	
107	
108	
107	

5-10% pyrite in hairline - 8mm veinlets & clots

15-20% pyrite

20-40% pyrite

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87-DH-2 Page No. 11
Property FIRE CREEK
District
Commenced
Completed

Length 110.3m
Bearing 164°
Dip -60°

Lat.
Dip
Elev

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															93.3 - 94.1 - massive quartz vein with strong sulfide mineralization in the breccia at the contacts and >50% crs gr. diss pyrite in breccia fragments within the quartz vein - angle ~49°
															94.1 - 95.2 - zone of strong silicification in the breccia unit with 40-60% crs. gr. fracture & diss pyrite.
															96.8 - 98.3 >50% med-crs gr diss. pyrite in the breccia.
															100.7 - 107.5m - bleached chlorite - sericite - talc schist with 5-10% v.f.gr interschist pyrite (from 106.5 - 107.5 pyrite content increases to 15-20%)
															107.5 - 110.3 (end of hole) - strongly bleached & silicified breccia unit with potassic alteration & 20-40% med. gr. diss. pyrite. 110.2 - 110.3 zone of intense potassic alteration

GRAPHIC LOG

FOOTAGE	ROCK TYPE
110m	

Strong potassic alt'n — End of Hole

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST

Hole No. 87DH-3 Page No. 1
Property FIRE CREEK
District
Commenced
Completed

Length 180.0m
Bearing 176°
Dip -60°

Lat
Dip
Elev. 7001

Drill Type JKS 300
Hole Size NDB
Contractor DRILCOR INDUSTRIES LTD.

Logged by David R. Bennett
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T. Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES
87DH-3, 1	3.0m	4.5m	1.5	100	.002	3.7	170	77	39	2	107	14	65	2	3	
" 2	4.5m	6.0m	1.4	94	.001	.5	41	47	55	6	57	210	52	1	2	3.0-8.7m
" 3	6.0m	7.5m	1.4	94	.002	.7	33	457	66	17	66	338	74	2	1	- strongly oxidized surface rock -
" 4	7.5m	9.0m	1.5	100	.001	.4	79	91	93	4	34	376	37	4	9	silicified, strongly clay altered
" 5	9.0m	10.5m	1.5	100	.002	.3	107	27	203	3	24	275	40	6	14	chlorite-talc-sericite schist-sulfides
" 6	10.5m	12.0m	1.5	100	.001	.1	91	21	51	5	21	145	15	6	16	almost 100% oxidized except for
" 7	12.0m	13.5m	1.5	100	.001	.1	85	27	77	2	23	333	17	5	14	small unoxidized areas that
" 8	13.5m	15.0m	1.4	94	.001	.6	158	24	104	3	20	454	26	6	16	contain 10-15% fine pyrite (pyrrhotite accounts)
" 9	15.0m	16.5m	1.5	100	.002	.3	122	12	61	1	28	442	25	5	16	between schist layers
" 10	16.5m	18.0m	1.5	100	.003	.1	73	22	108	5	23	186	21	6	16	8.7-12.5m - bleached chlorite-talc
" 11	18.0m	19.5m	1.4	94	.011	3.5	1020	44	197	7	26	149	36	7	17	schist with ~5-10% fine pyrite
" 12	19.5m	21.0m	1.5	100	.003	.3	133	12	18	10	28	338	17	10	16	between schist layers. Bleaching
" 13	21.0m	22.5m	1.5	100	.002	.1	47	16	31	5	28	3	15	9	13	weakens towards 12.5m - some carbonate alt'n
" 14	22.5m	24.0m	1.5	100	.002	.3	60	12	10	7	26	5	15	9	15	12.5-20.5
" 15	24.0m	25.5m	1.5	100	.012	14.9	1945	287	4405	8	10	6	555	8	44	chlorite-talc schist with
" 16	25.5m	27.0m	1.5	100	.009	9.8	1242	446	5697	15	10	12	337	5	27	5-10% fine sulfides (mainly pyrite).
" 17	27.0m	28.5m	1.3	87	.005	4.1	272	526	3068	7	9	15	89	4	37	Very slight bleaching throughout
" 18	28.5m	30.0m	1.5	100	.001	.1	68	22	45	4	38	38	26	6	18	with heavier bleaching and sulfides (pyrrhotite)
" 19	30.0m	31.5m	1.5	100	.001	.6	154	26	148	3	38	53	47	6	14	occurring near small faults.
" 20	31.5m	33.0m	1.5	100	.001	.3	68	62	106	2	47	22	25	6	15	20.5-24.1m same as above only stronger bleaching
" 21	33.0m	34.5m	1.5	100	.028	46.0	3455	4959	16,219	31	33	27	1076	3	7	carbonate alteration and clay alteration with 10-15% fine
" 22	34.5m	36.0m	1.5	100	.004	2.2	301	33	62	5	31	10	119	10	17	pyrite. Clay content >50% from 20.5 to 23.4m

GRAPHIC LOG

FOOTAGE: 3.0m, 4.5m, 6.0m, 7.5m, 9.0m, 10.5m, 12.0m, 13.5m, 15.0m, 16.5m, 18.0m, 19.5m, 21.0m, 22.5m, 24.0m, 25.5m, 27.0m, 28.5m, 30.0m, 31.5m, 33.0m, 34.5m

ROCK TYPE: strongly oxidized surface rock; A 46°, A 45°, A 43°, A 20°, A 12°, A 55°, A 54°, A 40°, A 18°, A 19°

QMC-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87 DH-3 Page No. 2
Property FIRE CREEK
District _____
Commenced _____
Completed _____

Length 180.0m
Bearing 176°
Dip -60°

Lat _____
Dip _____
Elev _____

Drill Type _____
Hole Size _____
Contractor _____

Logged by _____
Approved by _____ Date _____

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mo	As	Ni	Co	ROCK DESCRIPTION AND NOTES
87-DH-3, 23	36.0m	37.5m	1.5m	100	.004	1.0	110	31	144	7	27	8	83	10	17	Schistosity angles to core axis:
" ,24	37.5m	39.0m	1.5m	100	.001	.8	59	20	15	10	25	12	29	10	12	3.2m - 46°
" ,25	39.0	40.5	1.5m	100	.001	.6	101	32	22	13	19	8	37	6	11	4.7m - 43°
" ,26	40.5	42.0	1.5	100	.001	.1	28	21	12	2	20	11	18	12	18	8.1m - 55°
" ,27	42.0	43.5	1.5	100	.001	.7	65	22	39	8	28	8	33	9	15	10.0m - 40°
" ,28	43.5	45.0	1.5	100	.001	.4	56	18	13	6	27	11	23	9	15	11.3m - 78°
" ,29	45.0	46.5	1.5	100	.001	1.6	331	27	110	4	32	225	58	7	16	12.3m - 79°
" ,30	46.5	48.0	1.5	100	.001	2.3	324	16	128	3	41	239	114	5	17	13.9m - 31°
" ,31	48.0	49.5	1.5	100	.001	.8	103	9	77	1	35	238	36	5	16	15.7m - 28°
" ,32	49.5	51.0	1.5	100	.001	.2	92	16	11	2	32	26	19	5	14	17.0m - 40°
" ,33	51.0	52.5	1.5	100	.001	.2	49	9	5	3	30	5	14	5	15	19.6m - 39°
" ,34	52.5	54.0	1.2	80	.001	.1	201	11	12	2	24	44	55	6	16	
" ,35	54.0	55.5	1.3	87	.002	.4	83	9	5	1	25	4	20	5	16	Faults - angles to core axis
" ,36	55.5	57.0	1.3	87	.005	.1	143	7	8	3	16	11	25	7	20	3.4m - 43°
" ,37	57.0	58.5	1.4	94	.002	.6	114	8	10	2	22	13	36	6	16	5.0m - 20°
" ,38	58.5	60.0	1.3	87	.001	.1	82	6	4	3	29	11	14	6	15	4.5m - 45°
" ,39	60.0	61.5	1.3	87	.001	.4	107	16	14	3	33	41	25	9	20	6.4m - 12°
" ,40	61.5	63.0	1.4	94	.002	.6	268	17	35	6	43	71	75	8	20	8.0m - 54°
" ,41	63.0	64.5	1.5	100	.002	.7	125	20	11	2	29	8	30	7	20	18.6m - 49° - veinlets of cinnabar to occur near fault and a second
" ,42	64.5	66.0	1.5	100	.001	.3	111	19	11	2	29	14	29	7	20	
" ,43	66.0	67.5	1.5	100	.002	.8	83	14	11	2	28	10	31	9	20	fault with angle ≤ 5° occurs
" ,44	67.5	69.0	1.5	100	.003	.4	83	13	9	2	19	19	24	8	22	Crackle zone/veinlets in fault surface.

GRAPHIC LOG

FOOTAGE	ROCK TYPE
14	A 31°
15	A 28°
16	A 40°
17	A 49°
18	chalcopy veinlets
19	A 39°
	copper oxides along fault
20	
21	5°
22	
23	fault zone
24	

Q.M.C-2

DRILL SAMPLE RECORD

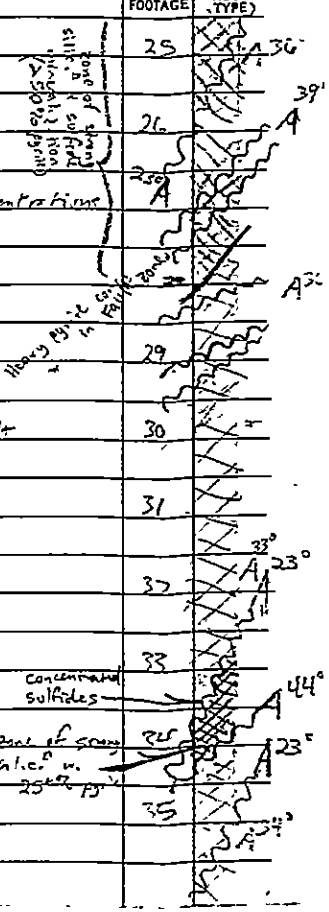
GRANITE
VOLCANIC
SEDIMENT
SCHIST

Hole No. 87 DH-3 Page No 3
Property FIRE CREEK Length 180.0m Lat. Drill Type
District Bearing 176° Dip Hole Size
Commenced Dip -60 Elev. Contractor Logged by
Completed Approved by Date

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T. Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES
87 DH-3, 45	69.0m	70.5	1.5	100	.001	.2	75	31	11	2	22	11	28	6	18	Fault (cont'd.)
" , 46	70.5	72.0	1.5	100	.004	.8	330	24	23	2	27	10	123	6	18	Qtz zone (22.5m - large fault >50° to core axis
" , 47	72.0	73.5	1.5	100	.004	.7	277	22	17	2	26	11	99	6	18	zone (22.9m - large fault
" , 48	73.5	75.0	1.5	100	.008	2.4	594	56	42	2	25	9	202	5	16	25.3m - 23°
" , 49	75.0	76.5	1.5	100	.004	.4	107	175	7	2	43	9	21	6	18	26.7-27.1m fault zone - heavy concentrations
" , 50	76.5	78.0	1.5	100	.003	.8	134	73	9	2	36	18	30	6	19	sil. qtz - 39° angle to core axis
" , 51	78.0	79.5	1.5	100	.001	.5	162	53	10	1	23	11	34	8	22	28.2m - 8cm thick fault gouge
" , 52	79.5	81.0	1.3	87	.002	.3	131	26	15	1	40	27	37	6	17	28.8m - 10cm thick gouge zone
" , 53	81.0	82.5	1.5	100	.001	.1	51	8	6	1	33	16	13	4	12	- angle 66° (?)
" , 54	82.5	84.0	1.5	100	.003	.3	115	9	9	2	12	18	33	9	22	29.1m - small fault - 52° angle
" , 55	84.0	85.5	1.5	100	.002	.3	65	16	11	2	19	32	24	9	25	33.2m - sulfides concentrated along fault
" , 56	85.5	87.0	1.5	100	.019	14.3	2698	36	1187	15	21	12	817	8	23	- angle 23°
" , 57	87.0	88.5	1.5	100	.003	.1	111	14	90	4	19	11	20	7	22	34.1m - small fault - 44°
" , 58	88.5	90.0	1.0	67	.003	.4	104	19	17	3	25	13	35	7	20	35.5m - 23°
" , 59	90.0	91.5	1.5	100	.004	1.2	266	10	41	2	31	6	96	6	17	40.1m - 23°
" , 60	91.5	93.0	1.5	100	.004	1.9	405	11	66	1	27	10	155	6	18	40.9-41.4m - large clay fault gouge
" , 61	93.0	94.5	1.5	100	.002	.1	59	17	8	1	27	6	17	6	18	- angle 45°
" , 62	94.5	96.0	1.5	100	.001	.4	114	15	8	1	24	11	13	6	18	
" , 63	96.0	97.5	1.5	100	.001	.1	89	12	7	1	28	9	13	7	21	Schistosity angles to core axis:
" , 64	97.5	99.0	1.5	100	.002	.1	126	15	4	1	21	14	4	7	17	20.8m - 36°
" , 65	99.0	100.5	1.5	100	.003	.1	126	15	4	1	25	8	3	7	18	22.9m - 30°
" , 66	100.5	102.0	1.5	100	.002	.1	128	11	4	2	23	12	2	7	17	25.1m - 36°

GRAPHIC LOG

FOOTAGE	ROCK (TYPE)
25	A 36°
	A 39°
26	A
27	A 30°
29	
30	
	A 33°
32	A 23°
33	
	A 44°
34	A 23°
35	
	A 34°



QMC-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87DH-3 Page No. 4
Property FIRE CREEK Length 180.0m Lat. _____ Drill Type _____
District _____ Bearing 176° Dip _____ Hole Size _____
Commenced _____ Dip -60 Elev _____ Contractor _____ Logged by _____
Completed _____ Approved by _____ Date _____

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T. Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	ROCK TYPE
87DH-3, 67	102.0m	103.5	1.5	100	.003	.1	252	19	112	2	54	632	7	11	22	29.3m - 36°	36	
" , 68	103.5	105.0	1.5	100	.004	.1	157	13	172	1	12	1029	4	12	16	32.5m - 33°		
" , 69	105.0	106.5	1.5	100	.006	.1	203	14	124	1	18	760	2	13	17	35.3m - 34°	37	
" , 70	106.5	108.0	1.5	100	.002	.1	155	19	58	1	24	571	3	10	17	38.3m - 33°		
" , 71	108.0	109.5	1.5	100	.004	.1	137	13	6	2	29	30	5	6	18	39.5m - 32°	38	A 33°
" , 72	109.5	111.0	1.5	100	.003	.1	24	10	5	2	33	9	9	8	24			
" , 73	111.0	112.5	1.5	100	.012	.5	159	34	72	4	24	15	31	8	20	24.1 - 27.9m Zone of very strong	39	A 23°
" , 74	112.5	114.0	1.5	100	.002	1.1	96	41	61	1	30	24	20	5	17	silicification + qtz veining with		
" , 75	114.0	115.5	1.5	100	.001	.9	93	26	16	2	11	14	26	4	15	50-60% med. - crs grained sulfides (mainly	40	
" , 76	115.5	117.0	1.5	100	.002	2.9	296	54	48	2	17	15	95	4	14	pyrite with minor amounts of chalcopyrite		fault 45
" , 77	117.0	118.5	1.4	94	.007	8.2	680	158	1012	2	17	26	211	6	16	and arsenopyrite? (grey sulfide)). Some of	41	A 24°
" , 78	118.5	120.0	1.4	94	.002	3.3	319	62	2620	3	16	36	58	4	16	the stronger silicified areas exhibit		
" , 79	120.0	121.5	1.4	94	.004	6.9	664	147	1282	2	15	20	182	4	14	vuggy texture with crs.gr. sulfides in	42	A 35°
" , 80	121.5	123.0	1.3	87	.006	3.7	465	40	1491	2	17	24	171	4	15	the vugs. Sulfides from the veins and		A 43°
" , 81	123.0	124.5	1.5	100	.003	2.0	252	118	479	1	20	53	111	3	13	lenses parallel to the foliation in	43	
" , 82	124.5	126.0	1.5	100	.002	.9	165	87	30	3	15	39	78	4	15	the host rock and also is disseminated		
" , 83	126.0	127.5	1.5	100	.003	1.0	101	62	18	3	13	26	51	4	15	throughout	44	
" , 84	127.5	129.0	1.5	100	.003	1.1	162	58	44	4	15	27	71	6	18	"		A 33°
" , 85	129.0	130.5	1.5	100	.006	1.2	150	60	28	4	12	29	73	7	21	27.9 - 38.0m chlorite sericite talc schist	45	
" , 86	130.5	132.0	1.5	100	.008	1.6	216	26	43	4	18	34	90	8	19	with strong bleaching and clay alt'n		A 51°
" , 87	132.0	133.5	1.5	100	.028	2.8	1582	165	98	5	27	26	588	4	13	and minor silicification throughout.	46	62°
" , 88	133.5	135.0	1.5	100	.022	3.9	2548	54	94	4	34	22	920	6	16	Sulfides: 15+% fine disseminated +	massive qtz vein	
																interschist pyrite.		

Q-M C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐

Hole No 87DH-3 Page No. 5
Property FIRE CREEK Length 180.0m Lat. Drill Type
District Bearing 176° Dip Hole Size
Commenced Dip -60° Elev. Contractor Logged by
Completed Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T. Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	ROCK TYPE
7DH-3, 89	135.0m	136.2	1.2	100	.032	4.5	4291	60	50	4	29	29	1537	8	22	33.0 - 34.0m - zone of very strong		
" 90	136.2	138.0	1.8	94	.005	1.1	177	115	490	4	59	1717	72	6	16	silicification, qtz veining,	47	
" 91	138.0	139.5	1.5	100	.017	2.6	94	17	115	4	64	963	61	6	15	sericite alt'n, Vuggy in places	48	
" 92	139.5	141.0	1.5	100	.003	2.5	137	251	1289	4	58	1039	78	6	16	Sulfides :- 20-30% f-med gr		
" 93	141.0	142.5	1.3	87	.001	.6	75	15	137	3	72	1542	38	5	13	disseminated and fracture controlled	49	
" 94	142.5	144.0	1.5	100	.001	.4	71	6	89	1	40	1158	14	5	13	pyrite with minor grey sulfides.		
" 95	144.0	145.5	1.5	100	.001	.6	65	8	110	3	43	1593	51	5	14		50	
" 96	145.5	147.0	1.5	100	.001	.7	71	5	104	5	64	1388	30	6	16	34.0 - 45.8 - chlorite - sericite - talc		
" 97	147.0	148.5	1.5	100	.001	.5	70	5	121	2	97	1790	21	4	13	schist with strong bleaching,	51	
" 98	148.5	150.0	1.5	100	.001	.3	57	8	99	3	40	1879	25	4	12	minor silicification (<5% qtz)		
" 99	150.0	151.5	1.5	100	.001	.1	77	7	92	2	47	1718	26	5	13	and some carbonate alt'n	52	
" 100	151.5	153.0	1.5	100	.001	.3	45	6	72	2	51	1202	61	6	18	sulfides - 15+% fine disseminated		
" 101	153.0	154.5	1.5	100	.001	.1	71	8	142	2	87	1887	57	6	18	and inter schist pyrite.	53	
" 102	154.5	156.0	1.5	100	.002	1.1	83	83	358	2	56	1392	91	6	18	45.8 - 46.0 - 20 cm wide massive		
" 103	156.0	157.5	1.5	100	.008	3.4	146	364	1058	3	49	1061	127	6	15	qtz vein - little to no sulfides	54	
" 104	157.5	159.0	1.5	100	.004	.4	86	14	91	3	36	2259	60	4	11	angle to core axis - 51°		
" 105	159.0	160.5	1.5	100	.003	1.5	114	62	175	2	47	1120	133	5	13	46.0 - 49.5m zone of strong silicification	55	
" 106	160.5	162.0	1.5	100	.003	.6	52	26	53	3	56	734	136	5	14	and sericite alteration with up to		
" 107	162.0	163.5	1.5	100	.002	1.0	77	37	121	3	48	1702	83	5	12	25% f. gr. disseminated and	56	
" 108	163.5	165.0	1.5	100	.003	.9	75	43	128	3	46	1425	104	6	13	inter schist pyrite/arsenopyrite - some		
" 109	165.0	166.5	1.5	100	.004	1.2	259	213	795	3	46	1546	101	4	13	vuggy areas in the more silicified	57	
" 110	166.5	168.0	1.5	100	.008	4.3	581	532	4376	4	30	869	143	4	15	49.5 - 49.9m massive qtz vein <1% sulfides		

strong silicified zone with up to 25% sulfides

massive qtz vein

fractured, brecciated zone with 15-25% sulfides

qtz vein 40° to 50% CA

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Hole No 87 DA-3 Page No. 6
Property FIRE CREEK
District
Commenced
Completed

Length 180.0m
Bearing 176°
Dip -60°

Lat.
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES
87DH-3, 111	168.0m	169.5m	1.5	100	.025	10.5	2205	601	4765	6	19	987	195	6	11	
,112	169.5m	171.0	1.5	100	.006	2.4	284	194	1511	5	39	1021	116	9	17	49.9 - 66.0 a very strongly clay altered (faulting intense fracturing), + silicified breccia
,113	171.0	172.5	1.5	100	.003	.8	100	43	159	1	37	1735	71	4	11	formed (schistosity still prevalent)
,114	172.5	174.0	1.5	100	.003	1.1	83	59	348	2	44	1603	61	6	15	15-25% med gr disseminated pyrite
,115	174.0	175.5	1.5	100	.008	3.5	135	60	490	3	38	1510	114	7	15	and f gr inter schist pyrite.
,116	175.5	177.0	1.5	100	.005	2.3	101	80	350	3	46	1277	101	6	15	(Silicification is either syngenetic or
,117	177.0	178.5	1.5	100	.002	1.1	83	71	416	2	49	1362	84	4	13	post dates the schist formation
,118	178.5	180.0	1.5	100	.005	3.3	374	310	2042	4	53	1375	161	5	13	- as microcrystalline qtz. formed along
																schist layers).
																56.8 - 57.0m 20 cm wide massive
																qtz vein approx. 50% pyrite
																along vein edges.
																Faults - angles to core axis
																42.4m - small fault - 43°
																46.0 - 46.1 - 10 cm wide fault gouge
																at boundary of qtz vein - 62°
																46.8 - 62°
																48.9 - 63°
																numerous faulting + fracturing from
																49.9 - m

GRAPHIC LOG

FOOTAGE	ROCK TYPE
58	
59	A 35°
60	
61	A 37°
62	
63	A 37°
64	A 23°
65	
66	bleached, faulted + fractured zone 20-50 cm wide
67	A 12°
68	

Q.M.C.-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST

Hole No. 87 DH-3 Page No. 7
Property FIRE CREEK
District
Commenced
Completed

Length 180.0m
Bearing 176°
Dip -60°

Lat.
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															Schistosity - angles to core axis:
															41.8m - 25°
															45.1m - 33°
															47.5m - 34°
															51.8m - 40°
															53.8m - 43°
															55.1m - 34°
															58.8m - 35°
															61.5m - 37°
															63.2m - 37°
															64.0m - 23°
															67.1m - 12°
															69.8m - 22°
															72.5m - 19°
															74.5m - 19°
															66.0 - 90.0 m pyrite content in the clay altered silicified breccia increase to 30+% and gets up to 50% in some sections. Also stronger silicification to 75 m

fault zone

fault zone ->50% py

GRAPHIC LOG

FOOTAGE | ROCK TYPE

69 70 71 72 73 74 75 76 77 78 79

A 22° A 19° A 19° A 29° A ?

QMC-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST

Hole No. 87 DH-3 Page No. 8
Property FIRE CREEK
District
Commenced
Completed

Length 180.0m
Bearing 176°
Dip -60°

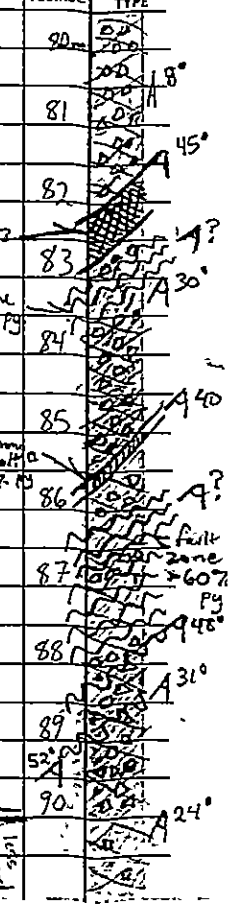
Lat.
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo ppm	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															75.5m - 76.2m m rock is crushed - has higher clay content - possible fault
															78.7-79.0m - crushed rock possible fault ± - 50± % med-crs gn diss pyrite.
															81.9-82.5m - massive qtz vein - little to no sulfides approx 45° angle to core axis,
															82.7-83.3 - crushed rock >50% pyrite - fault zone
															83.3-85.0 more strongly silicified altered breccia 30-50% sulfides - thin qtz vein (1cm) at 84.2m - 47° angle.
															Schistosity angles to core axis 77.8m - 29° 80.7m - 08° 83.7m - 30° 84.7m - 39° 88.6m - 31° 90.2m - 24°

GRAPHIC LOG



QMC-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐

Hole No 87-DH-3 Page No 9
Property FIRE CREEK
District
Commenced
Completed

Length 180.0m
Bearing 176°
Dip -60°

Lat
Dip
Elev

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo ppm	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	ROCK TYPE
															15-30% sulfides in fault gouge	91	
															93.1m - 35°		
															96.0m - 24°	92	A 45°
															97.3m - 30°		
																930	
															85.3-85.4m 10 cm wide zone of strong potassic alteration with 30-50% disseminated pyrite angle to core axis ~40°		A 35°
																94	
															Intense altered zone strong feldspar silica crystals	95	
															86.0-86.5m - zone of crushed rock with >60% sulfides (mainly pyrite - black sooty colour) possible fault zone	96	A 25°
																97	
															86.7-87.7m - zone of crushed rock with 30-50% pyrite possible fault zone		A 30°
																98	
															87.9-88.0m - 10 cm wide fault zone - angle 48°	99	
															88.7m - 10 cm wide fault zone - angle 52°	100	
															92.5m - small fault - 51°	101	
															90.10 - 93.0 rock less altered and brecciated with 15-30% sulfides - minor potassic alt.	less	

QMC-2

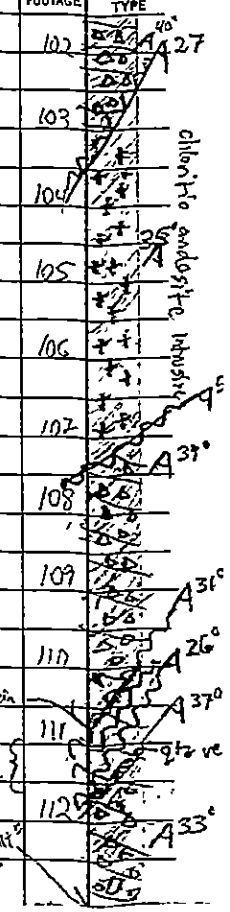
DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST

Hole No 87 DH-3 Page No. 10
Property FIRE CREEK Length 180.0m Lat. Drill Type
District Bearing 176° Dip Hole Size
Commenced Dip -60° Elev. Contractor Logged by
Completed Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo	ROCK DESCRIPTION AND NOTES
													85.3 – 103.0 m after zone of strong potassic alt^n (brownish orange mica-biotite) – potassic alt^n continues with upto 30% potassic clay minerals and fracture biotite
													93.0 – 103.0 m intense alt^n with strong silicification, brecciation, potassic alt^n & 30-50+% sulfide mineralizat^n (mainly pyrite with minor chalcopyrite + grey sulfides) – partially clay alt^d white feldspar crystals up to 2 cm long occur throughout this zone up to 15% of the rock.
													103.0 – 107.2 m Dark green metamorphosed intrusive – chloritized andesite dike – vesicular throughout (10% presence) with approx 5% f-med grained pale schist xenolites – Strong potassic alteration

GRAPHIC LOG



Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST

Hole No. 87-DH-3 Page No. 11
Property FIRE CREEK Length 180.0m Lat. Drill Type
District Bearing 176° Dip Hole Size
Commenced Dip -60° Elev. Contractor Logged by
Completed Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo**	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															and ~30% sulfides occur in the host rock near the intrusive contacts. Hanging wall contact has massive Aurite augen up to 3 cm long (also minor chalcopy) - Small calcite veinlets occur in the intrusive angle of intrusive to core axis :- Hanging wall - 27° - fault with same angle. Footwall - 51° - fault with same angle.
															107.2 - 136.2 m : strongly bleached - clay altered (argillic + potassic alt^{n}), silicified breccia with 30-50% fine grained disseminated + interstitial sulfides (mainly pyrite / pyrrhotite with minor chalcopyrite + grey sulfides (<1%)). Silicification consist of moderate to strong pervasive microcrystalline quartz with occasional massive qtz veins and stockwork.

GRAPHIC LOG

FOOTAGE	ROCK TYPE
113	
114	A 25°
115	
116	A 30°
117	
118	
119	A 38°
120	
121	A 25°
122	75
123	A 33

Q.M.C - 2

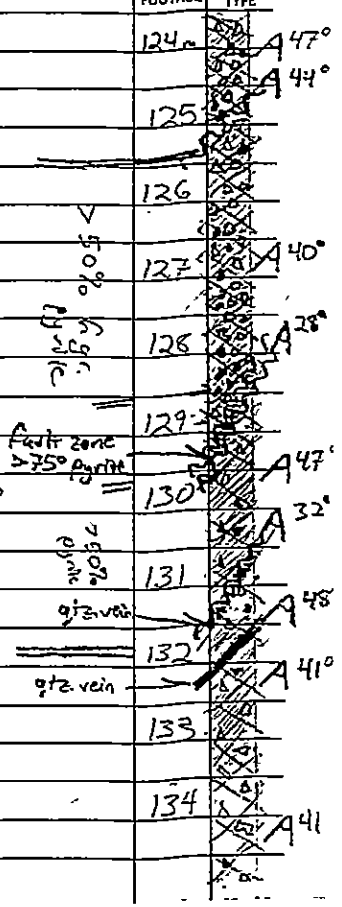
DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87 DH-3 Page No. 12
Property FIRE CREEK Length 180.0m Lat _____ Drill Type _____
District _____ Bearing 176° Dip _____ Hole Size _____
Commenced _____ Dip -60° Elev _____ Contractor _____ Logged by _____
Completed _____ Approved by _____ Date _____

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															Silicification is stronger after 111.5 m making the rock more competent as opposed to friable, clay dominated rock. - potassic alteration weakens at approx 113.0 m ➤ Argillic alt & silicification continues
															- fault with 10 cm wide qtz vein at 110.4 m - angle 31°
															- 110.6 - 111.0 - clay gouge at fault zone - angle - 28°
															- 111.3 - 111.4 m massive qtz vein - 37°
															- 115.2 m fault - approx 25°
															Schistosity - angles to core axis
															102.4 m - 40°
															105.4 m - 35°
															107.4 m - 39°
															112.2 m - 33°
															116.3 m - 30°
															118.7 m - 38°
															120.7 m - 25°

GRAPHIC LOG



Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST

Hole No. 87DH-3 Page No. 13
Property FIRE CREEK
District
Commenced
Completed

Length 180.0m
Bearing 176°
Dip -60°

Lat.
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo**	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															124.0 - 47°
															126.8 - 40°
															129.3 - 47°
															132.2 - 41°
															134.9 - 41°
															137.7 - 34°
															140.5 - 37°
															Faults - angles to core axis.
															122.3m - 75°
															123.6-123.8 - 20cm wide fault bounded qtz. vein with 5% diss sulfides - 33°
															124.9m - 44°
															128.7-128.85 - 15cm wide fault zone - nearly massive sulfides angle 28°
															131.0-131.1 fault at 10cm wide quartz vein - 32°
															131.8 - thin 1 cm wide qtz vein - 48°
															136.1 - small fault - 32°
															136.2 - fault at alteration boundary 75°?

GRAPHIC LOG

FOOTAGE	ROCK TYPE
135m	A 32°
136	75°
137	A 34°
138	
139	
140	A 37°
141	A 47°
142	
143	
144	
145	A 39°

Q M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST

Hole No 87 DH-3 Page No. 14
Property FIRE CREEK
District
Commenced
Completed

Length 180.0m
Bearing 176°
Dip -60°

Lat.
Dip
Elev

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															140.8 large fault -47° rock bleached near fault
															124.0 -125.4 -sulfide content increases through this zone until it becomes >50% f.gr. pyrite. Silicification also increases
															125.4 -131.7 zone of strong sulfide mineralization (~50+% f.gr. pyrite) + strong silicification
															-A zone from 128.4 -129.0 has 75+% pyrite (fault zone)
															136.2 -180.0m (end of hole) -dark green chlorite schist with 10-15% f.gr. interschist pyrite. -small calcite veinlets throughout
															Schistosity, angles to core axis 142m -39° 145m - 39° 147.5m - 35°

GRAPHIC LOG

FOOTAGE	ROCK TYPE
146m	A 35°
147	
148	
149	A 35°
150	
151	
152	A 32°
153	
154	A 39°
155	
156	A 38°

QMC-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87 DH-3 Page No. 15
Property FIRE CREEK
District
Commenced
Completed

Length 180.0m
Bearing 176°
Dip -60°

Lat.
Dip
Elev

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															149.1m - 35°
															151.8m - 37°
															154.1m - 39°
															156.3m - 38°
															160.0m - 33°
															162.6m - 30°
															155.5 - 161.5 rock slightly
															bleached + brecciated with
															~10% fracture + interschist
															quartz. Numerous calcite filled
															fractures with mainly calcite
															cement in brecciated areas.
															Brecciated sections consist of
															90% rock fragments.
															Schistosity angles to core axis:-
															164.2m - 48°
															167.5m - 42°
															172.1m - 50°
															174.5m - 46°
															177.5m - 44°
															179.7m - 34°

GRAPHIC LOG

FOOTAGE	ROCK TYPE
157m	
158	
159	
160	A 33°
161	
162	
163	A 30°
164	A 48°
165	
166	A 35°
167	A 42°

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87 DH-3 Page No. 16
Property FIRE CREEK
District
Commenced
Completed

Length 180.0m
Bearing 176°
Dip -60°

Lat.
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo**	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															Faults angles to core axis 166.6m - 35° 167.9m - 48° 170.6m - 60° & 47° 179.0m - 47° 180m - End of Hole. 168.8m - 169.5m strong silicified zone with 30-50% f.-med gr. disseminated + interschist sulfides (chalcopyrite & with minor pyrite + grey sulfides.) - angle 34°

GRAPHIC LOG

FOOTAGE	ROCK TYPE
168m	A 46°
169	A 35°
170	A 47°
171	A
172	A 50°
173	
174	A 45
175	
176	
177	A 44
178	

silicified zone with strong chalcopy. + py

60°

Q-M C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ ☐
☐ VOLCANIC ☐ ☐
☐ SEDIMENT ☐ ☐
☐ SCHIST ☐ ☐
☐ ☐ ☐

Hole No. 87 DH-3 Page No. 17
Property FIRE CREEK Length 180.0m Lat. Drill Type
District Bearing 176° Dip Hole Size
Commenced Dip -60 Elev. Contractor Logged by
Completed Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo*2	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	ROCK TYPE
																179	A 47°
															End of Hole	180	A 54°

Q M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐

Hole No 87 DH-4 Page No. 1
Property FIRE CREEK Length 69.8m Lat Drill Type JKS 300
District Bearing 170° Dip Hole Size NDB
Commenced Dip -60° Elev. 785' Contractor DRILCOR INDUSTRIES LTD. Logged by David R. Bennett
Completed Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T. Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	ROCK TYPE
DH-4, 1	4.1 m	5.3 m	1.1	92%	.004	.9	55	19	162	2	122	334	40	8	10		4m	
" 2	5.3	6.8	1.5	100	.011	1.5	162	13	142	6	81	357	165	6	9	4.1 - 16.6m: Surface weathered		
" 3	6.8	8.3	.5	34	.003	1.5	40	8	14	1	57	28	23	4	7	zone - clay weathering and	5	
" 4	8.3	9.8	.8	53	.004	1.1	248	56	662	1	33	194	56	7	19	oxidation of sulfides		
" 5	9.8	10.5	.7	100	.007	1.2	380	438	857	1	29	287	99	7	20		6	
" 6	10.5	12.2	1.7	100	.018	.2	264	13	208	1	41	1016	35	12	18	4.7 - 5.6m & 10.5 - 12.2 m		
" 7	12.2	14.3	2.1	100	.016	2.8	1173	30	221	2	46	188	364	6	14	- med.-dark green bleached	7	
" 8	14.3	15.8	1.3	187	.004	1.3	125	82	354	2	41	145	35	7	17	& chloritic intrusive with		
" 9	15.8	17.3	1.5	100	.008	1.7	121	20	71	4	16	26	43	8	19	small calcite veinlets &	fault zone	8
" 10	17.3	18.8	1.5	100	.049	5.5	2847	40	93	5	22	15	1077	7	15	quartz veins up to 5cm wide		
" 11	18.8	20.3	1.5	100	.005	1.7	194	31	30	1	16	11	77	6	17	Large prismatic pyrite crystals		
" 12	20.3	21.8	1.5	100	.004	1.2	159	26	26	1	16	9	61	8	20	up to 3 cm long occur near		
" 13	21.8	23.3	1.5	100	.005	2.3	344	20	27	2	18	10	119	5	16	the contacts of the	10	
" 14	23.3	24.8	1.5	100	.007	2.4	169	63	12	2	31	18	94	4	10	intrusive (20-25% sulfides towards contacts)		
" 15	24.8	26.3	1.5	100	.006	.7	205	24	10	1	19	7	92	6	18	-4.7m - fault at contact ~ 70°	11	
" 16	26.3	27.8	1.5	100	.008	1.0	239	10	11	1	19	8	87	6	16	-10.5m - " " " ~ 66°		
" 17	27.8	29.3	1.5	100	.004	.3	71	8	7	1	39	5	23	5	16	-12.2 m - " " " ~ 64°	12	
" 18	29.3	30.8	1.5	100	.003	.2	108	7	6	3	22	8	21	6	17	12.2 - 15.9 m		
" 19	30.8	32.1	1.2	94	.001	.3	149	7	116	1	46	792	18	13	18	- intensely clay altered & silicified	13	
" 20	32.1	33.8	1.7	100	.004	.9	162	8	15	1	18	14	51	5	19	schist with 20-40% fine grained	vuggy qtz veins	potassic alt'n
" 21	33.8	35.3	1.4	94	.006	.4	56	9	11	2	17	17	38	5	17	disseminated, fracture & interschist		14
" 22	35.3	36.8	1.5	100	.005	.4	86	20	13	2	18	17	27	5	19	sulfides (mainly pyrite)		

Q.M C-2

DRILL SAMPLE RECORD

☐ GRANITE
☐ VOLCANIC
☐ SEDIMENT
☐ SCHIST
☐
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Hole No. 87 DH-4 Page No. 2
Property FIRE CREEK
District
Commenced
Completed
Length 69.8m
Bearing 170°
Dip -60°
Lat.
Dip
Elev
Drill Type
Hole Size
Contractor
Logged by
Approved by Date

SAMPLE No.	FOOTAGE		SAMPLE LENGTH	% Recovery	oz/T.	SULPHIDE ANALYSIS ppm					OXIDE ANALYSIS ppm					ROCK DESCRIPTION AND NOTES		GRAPHIC LOG	
	FROM	TO			Au	Ag	Cu	Pb	Zn	Mo	Ba	Mn	As	Ni	Co			FOOTAGE	ROCK TYPE
87 DH-4, 23	36.8m	38.3m	1.4	94	.002	.2	59	17	12	2	22	40	21	4	16	15.9 - 24.0 Intense clay altered		15m	
" 24	38.3	39.8	1.4	94	.006	.8	111	29	10	3	21	23	40	10	25	+ silicified breccia with			
" 25	39.8	41.3	1.4	94	.005	.8	108	27	11	4	20	22	42	8	20	30-40% disseminated + fracture		16	
" 26	41.3	42.8	1.5	100	.006	.7	83	32	9	2	24	17	35	5	17	sulfides - mainly pyrite	qtz.vein →		
" 27	42.8	44.3	1.5	100	.020	2.4	227	36	26	9	18	15	117	7	20	Rock is densely faulted + fractured	50% pyrite	17	
" 28	44.3	45.8	1.5	100	.004	.4	70	25	10	3	26	39	27	6	18	Strong potassic alteration occurs	massive qtz.vein		
" 29	45.8	47.3	1.5	100	.010	1.2	162	39	14	4	20	15	63	6	17	throughout breccia (starts at 13.0m)		18	
" 30	47.3	48.8	1.5	100	.009	1.0	152	28	95	6	27	23	66	5	16		silicified zone -60% py		
" 31	48.8	50.3	1.5	100	.010	1.1	144	31	14	4	27	45	60	7	18	7.5-8.3m - Clay gouge		19	
" 32	50.3	51.8	1.4	94	.015	1.9	643	113	33	4	27	25	250	6	17	- large fault - angle ?	silicified breccia, clay altered 30-40% sulfides		
" 33	51.8	53.3	1.5	100	.028	3.3	2688	41	20	6	25	40	964	6	16			20	
" 34	53.3	54.8	1.5	100	.031	2.5	1793	43	21	5	33	23	619	6	17	13.0 - 13.2 m - Vuggy quartz			
" 35	54.8	56.8	2.0	100	.017	1.6	643	43	22	6	49	13	158	10	23	vein with cs. pyrite crystals		21	
" 36	56.8	57.8	1.0	100	.001	.6	114	34	191	1	626	828	127	37	16	(up to 1cm long) and fragments			
" 37	57.8	59.3	1.5	100	.033	3.8	1923	41	33	6	18	29	689	9	20	of massive pyrite (approx		22	
" 38	59.3	60.8	1.4	94	.012	1.5	415	33	20	16	15	43	153	8	21	15% sulfides) - angle 33°			
" 39	60.8	62.3	1.5	100	.007	1.0	472	18	216	2	26	2176	85	6	17	13.2 - 13.5m - Zone of intense		23	
" 40	62.3	63.8	1.4	94	.003	.6	82	77	661	2	23	2155	29	5	15	potassic alteration with ~25%			
" 41	63.8	65.3	1.5	100	.011	1.6	635	13	84	2	23	883	104	6	17	pyrite occurring as augen of		24	
" 42	65.3	66.8	1.5	100	.001	.4	70	7	171	1	56	1633	54	7	19	massive pyrite (up to 1cm long)	strongly silicified breccia 40% [illegible]		
" 43	66.8	68.3	1.5	100	.001	.5	104	10	284	1	57	1999	62	6	18	- Fault at 13.2m - 33°		25	
" 44	68.3	69.8	1.5	100	.001	.4	63	6	153	1	53	1986	28	5	14	- potassic alteration continues			
END OF HOLE																past this point.			

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No 87 DH-4 Page No. 3
Property FIRE CREEK
District _____
Commenced _____
Completed _____

Length 69.8m
Bearing 170°
Dip -60°

Lat. _____
Dip _____
Elev. _____

Drill Type _____
Hole Size _____
Contractor _____

Logged by _____
Approved by _____ Date _____

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T. Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	ROCK TYPE
																	26m	
																15.8m - 5cm wide massive quartz vein (approx 50° angle)		
																	27	
																15.5m - fault - 58°		
																16.0 - 16.2 m - fault zone - 56° (?)	28	
																16.2 - 16.9 m - heavy sulfide zone - 45-50% fracture & interschistose + disseminated pyrite. Massive pyrite		
																veins up to 1 cm wide	29	
																17.2 - 17.4m massive qtz vein < 3% sulfides - angle 60°	30	
																- large fault at 17.2m - angle 60° (?)	31	
																18.1 - 18.2 - strong silicified zone with 50-60% pyrite.	32	
																- 3cm wide quartz vein with selvage pyrite - angle 50°	33	
																24.0 - 60.8 m intensely silicified ± clay altered breccia with ~30% "hydrothermal feldspar crystals (mostly altered to clay)" + 40% f.-med gr disseminate + fracture pyrite	34	
																	35	
																	36	

qtz. vein - 3% chalcopyrite hematite.

>50%

quartz sericite vein 20% py

massive vein

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐

Hole No. 87-DH-4 Page No. 4
Property FIRE CREEK
District
Commenced
Completed

Length 69.8m
Bearing 170°
Dip -60°

Lat.
Dip
Elev.

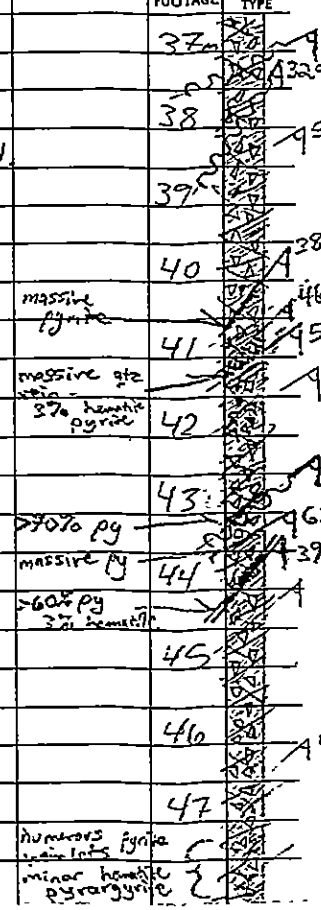
Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															large fault at start of zone at 24.0m angle - 54°
															23.3-24.8 - sulfides partly oxidized.
															12.0m - fault - angle 32°
															Schistosity angles to core axis
															5.5m - 64°
															9.5m - 66°
															13.9m - 51°
															16.6m - 47°
															18.5m - 48°
															21.2m - 52°
															22.9m - 52°
															25.5m - 68°
															26.6m - 63°
															28.4m - 60°
															31.7m - 44°
															33.3m - 52°
															35.3m - 52°
															38.5m - 58°
															40.6m - 58°
															41.7m - 58°
															44.5m - 50°

GRAPHIC LOG

FOOTAGE / ROCK TYPE



QMC-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87 DH-4 Page No 5
Property FIRE CREEK
District _____
Commenced _____
Completed _____

Length 69.8m
Bearing 170°
Dip -60°

Lat. _____
Dip _____
Elev _____

Drill Type _____
Hole Size _____
Contractor _____

Logged by _____
Approved by _____ Date _____

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo		

ROCK DESCRIPTION AND NOTES

47.0m - 48°
49.3m - 44°

Faults - angles to core axis
28.9m - small fault - 55°
30.8m - fault at intrusive contact - 41°
32.1m - fault at lower (deeper) intrusive contact 39°
34.2-34.6m - fault - 16° - (fracture)
36.6m - fault at qtz. vein boundary - 53°
37.2m - 64°
37.8 - 32° - fracture
43.0 - fault - 52°
48.0 - fault with small basalt - quartz vein - 55°
48.7m - 52° - fault at massive qtz. vein boundary

30.8m - 32.1m - med-dark green chloritic intrusive (altered andesite - diorite dike) - minor qtz calcite veining.

GRAPHIC LOG

FOOTAGE | ROCK TYPE

48
basalt - quartz vein 5-10% py.
49
quartz vein system up to 50% sulfides (pyrite, hematite pyramids)
50
51
qtz. vein w. pyrite, contact
52
35°
53
54
55
qtz vein py. hematite
56
57
58

Q.M.C-2

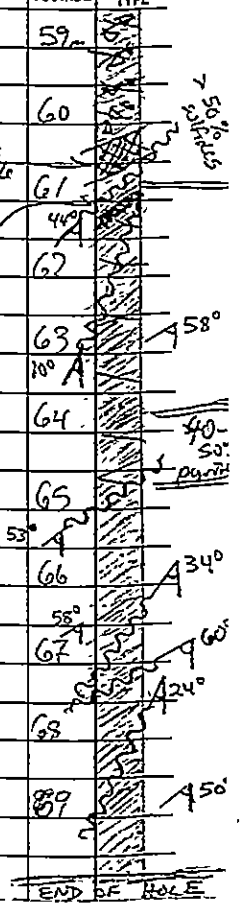
DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87 DH-4 Page No. 6
Property FIRE CREEK Length 69.8m Lat. _____ Drill Type _____
District _____ Bearing 170° Dip _____ Hole Size _____
Commenced _____ Dip -60° Elev. _____ Contractor _____ Logged by _____
Completed _____ Approved by _____ Date _____

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo ppm	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															31.8m - 2 cm wide massive quartz vein - slightly vuggy with <3% disseminated sulfides (chalcopyrite, bornite) -39° and 6 to core axis
															34.0-34.1 - 10 cm wide very vuggy quartz-sericite vein with 20-25% med gr disseminated pyrite - 57°
															33.5-34.0 zone of >50% pyrite
															36.3-36.6m massive quartz vein with 5-10% disseminated pyrite (and massive fragments)
															36.4-36.3m zone of >50% pyrite in a coarse gr. calcite matrix.
															40.9-41.1m - massive qtz. vein with <3% disseminated fracture pyrite. -40.9 - 46° -41.1 - 54°

GRAPHIC LOG



Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87 DH-4 Page No 7
Property FIRE CREEK
District _____
Commenced _____
Completed _____

Length 69.8m
Bearing 170°
Dip -60°

Lat _____
Dip _____
Elev _____

Drill Type _____
Hole Size _____
Contractor _____

Logged by _____
Approved by _____ Date _____

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	GRAPHIC LOG ROCK TYPE
															40.3m - 2cm wide massive pyrite vein - 38°		
															Stronger silicification after 37.6m		
															43.0 - 43.15 zone of near massive pyrite - >70%		
															43.4m - 5cm wide massive pyrite vein - 62° angle.		
															43.8 - 43.9m - 10cm wide zone of 60+% pyrite with minor hematite (3%) - 39° angle.		
															46.9 - 47.8m zone with numerous pyrite veinlets (up to 2cm wide) - minor amounts of pyrargyrite (~3% in small sections -47.0m and at 47.7m)		
															48.7 - 48.9m massive quartz vein with <3% sulfides - angle 39°		
															47.9 - 48.0 5cm wide barite vein w. ~10% diss pyrite.		

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87 DH-4 Page No. 8
Property FIRE CREEK
District _____
Commenced _____
Completed _____

Length 69.8m
Bearing 170°
Dip -60°

Lat. _____
Dip _____
Elev _____

Drill Type _____
Hole Size _____
Contractor _____

Logged by _____
Approved by _____ Date _____

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo**	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	GRAPHIC LOG ROCK TYPE
															48.9 - 49.1 m strongly silicified breccia zone with 40-50% sulfides (mainly pyrite minor hematite + 3-5% pyrrhotite).		
															49.1 - 49.2 massive quartz vein - <3% sulfides - angle 52°		
															51.2m - 5cm wide massive quartz vein with 15% selvage sulfide minerals (10% pyrite + 5% acanthite) - angle 40°		
															51.4m - fault - angle 35°		
															52.0m - 5 cm wide massive qtz. vein - 3-5% selvage pyrite with minor hematite + acanthite? - angle 55°		
															55.2m - fault in zone of almost massive sulfides - 72° angle.		
															55.2 - 55.3m massive quartz vein selvage pyrite hematite? - 27°		

QMC-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐

Hole No. 87 DH-4 Page No 9
Property FIRE CREEK
District
Commenced
Completed

Length 69.8m
Bearing 170°
Dip -60°

Lat.
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	GRAPHIC LOG ROCK TYPE
															50.2 - 54.6m - very strong silic^{n} - basic rock.		
															49.2 - 56.7m Zone of very strong sulfide mineralization - >50% sulfides (mainly pyrite, hematite with minor chalcopyrite and As sulfides) -		
															(55 - 56.7m 70+% sulfides)		
															56.7 - 57.7m - dark grey green, vesicular andesite - dioritic intrusive with approx 10% v.f.gr. diss pyrite - mafic hornblende & plagioclase phenocrysts.		
															slight chloritization but alteration is very slight - 55° angle to core axis.		
															57.1 - 57.6m rusted calcite filled fracture - 5° to core axis.		
															57.7 57.95 quartz veins angle 55°		
															58.0 - 58.1 angle 45°		
															cut through zone of 60+% sulfides		
															- zone of strong sulfide mineralization continues to 60.8m		

Q M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐

Hole No. 87 DH-4 Page No. 10
Property FIRE CREEK
District
Commenced
Completed

Length 69.8m
Bearing 170°
Dip -60°

Lat
Dip
Elev

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo**	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	ROCK TYPE
															60.2-60.6m massive quartz veins in bleached sulfide zone.		
															60.8m fault at end of strong alteration - angle 44°		
															60.8-69.8m med dark green chlorite schist - 10-15% inter sch. sulfides - moderate bleaching continues to ~~end~~ 64.7m.		
															61.0-61.1m - 10cm wide quartz vein with >50% sulfides in edge area.		
															61.4-61.8m - fault - angle 10°		
															63.8-64.7m - bleached chlorite schist with 40-50% inter schist Pyrite.		
															64.7m - large fault - 53°		
															66.7m - large fault - 34°		
															67.2m - large fault - 60°		
															68.4m - " " - 24°		

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ ☐
☐ VOLCANIC ☐ ☐
☐ SEDIMENT ☐ ☐
☐ SCHIST ☐ ☐
☐ ☐ ☐

Hole No. 87 SH-4 Page No 11
Property FIRE CREEK Length 69.8m Lat Drill Type
District Bearing 170° Dip Hole Size
Commenced Dip -60° Elev. Contractor Logged by
Completed Approved by Date

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo**	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	ROCK TYPE
															Schistosity - angle to core axis		
															68.9m - 50°		
															66.2m - 58°		
															62.9m - 58°		
															60.9m - 45°		
															57.1m - 61°		
															54.4m - 47°		
															50.3m - 48°		
															END OF HOLE		

QMC-2

DRILL SAMPLE RECORD

GRANITE
VOLCANIC
SEDIMENT
SCHIST

Hole No 87-DH-5 Page No. 1
Property FIRE CREEK
District
Commenced
Completed

Length 33.8m
Bearing 146°
Dip -59°

Lat
Dip
Elev 785'

Drill Type JKS 300
Hole Size NDB
Contractor DRILCOR INDUSTRIES LTD.

Logged by David R. Bennett
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES
DH-5, 1	4.4 m	5.3m	.9m	100	.009	1.7	76	9	74	3	74	203	155	6	7	
2	5.3	6.8	.7	47	.014	3.3	386	24	42	8	34	54	866	4	8	4.4-9.8m surface zone of
3	6.8	8.3	1.3	87	.006	1.3	175	17	48	3	15	13	79	5	13	strong oxidation of sulfides
4	8.3	9.8	1.0	67	.007	2.5	215	11	38	2	12	12	85	5	16	& clay weathering. Area with
5	9.8	11.3	1.4	94	.004	1.4	201	287	1117	2	18	265	51	7	19	fresher rock shows unaltered
6	11.3	12.8	1.5	100	.006	.7	227	19	108	6	18	24	84	8	18	rock to be a slightly bleached
7	12.8	14.3	1.5	100	.007	.7	67	36	65	5	24	60	54	6	16	chlorite-sericite schist with
8	14.3	15.8	1.3	87	.005	1.1	102	120	342	2	20	127	30	5	14	10-15% fine gr. disseminated,
9	15.8	17.3	1.3	87	.005	1.3	100	57	454	2	25	93	32	6	18	fracture & interschist pyrite.
10	17.3	18.8	1.5	100	.045	3.7	897	15	17	20	10	18	315	11	21	Numerous faults and gtz vein
11	18.8	20.3	1.5	100	.113	4.3	1108	46	21	24	13	16	387	18	40	veins cut through rock.
12	20.3	21.8	1.5	100	.006	.6	121	14	9	4	14	21	49	7	19	-sulfide oxidation continues
13	21.8	23.3	1.4	94	.006	1.4	293	40	1516	2	11	27	69	6	18	to about 15.8m.
14	23.3	24.8	1.5	100	.013	9.9	1404	30	523	3	11	22	497	5	17	
15	24.8	26.3	1.5	100	.007	2.4	428	18	573	3	9	14	133	6	18	4.4-4.7m - 30 cm. wide massive
16	26.3	27.8	1.5	100	.006	1.8	289	124	316	2	12	20	148	5	16	quartz vein with <1% sulfides
17	27.8	29.3	.9	60	.003	.5	11	76	2	1	31	10	20	2	3	(oxidized) -65° angle to core axis.
18	29.3	30.8	1.1	74	.004	.6	9	35	2	1	37	27	7	2	1	8.2-8.3m massive quartz vein
19	30.8	32.3	1.0	67	.003	.6	13	29	4	2	70	19	10	1	1	<1% sulfides (angle?
20	32.3	33.8	1.0	67	.002	.4	8	19	1	1	62	14	3	1	1	9.8m large fault - ~~fault~~ clay
	End of Hole															gouge 30-40 cm. thick
																-angle to core axis 48°?)

GRAPHIC LOG

FOOTAGE	ROCK TYPE
4m	massive qtz. vein
5	surface zone clay weathered oxidized chlorite-sericite-talc schist & pyrite
6	
7	
8	massive qtz vein
9	
10.5	
11	sheet of potassic alteration
12	thin qtz vein
13	zone of intense silicification with 30% pyrite, arsenopyrite, + chalcopyrite
14	
14.8	massive qtz vein

65° 57° ? 48° 52° 48° 35° 31°

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87 DH-5 Page No. 2
Property FIRE CREEK
District
Commenced
Completed

Length 33.8m
Bearing 146°
Dip -59°

Lat
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															4.4-20.5m bleached clay altered + silicified chlorite-sericite schist with 10-15% sulfides in less altered areas - 11.3m start of strong bleaching + silicification with 20-40% f.gr diss, fracture, + inter-schist pyrite. 12.3m - fault - 1cm clay gouge - angle to core axis -48° - 1cm wide qtz vein " 12.3-13.6 ~~Zone~~ Zone of intense silicification with 30+% sulfides consisting of approx 20% pyrite 7% hematite + <3% chalcopyrite - fault @ 13.6m (also 3 cm wide qtz vein) - angle 35° 12.5-13.0m - massive qtz. - Potassic alteration begins at 12.3 m and goes to end of hole.

GRAPHIC LOG

FOOTAGE: 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25

ROCK TYPE:
- Zone of intense silicification with 35-40% pyrite
- bleached silicified breccia with 30-40% sulfides
- 46°, 44°, 44°, >50% pyrite, 35°, 30°, 51°, 51°, 44°, 45°, 42°

Q.M.C-2

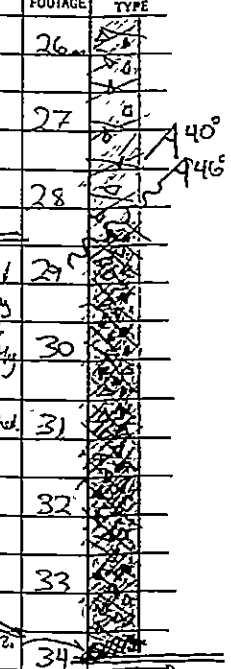
DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST

Hole No. 87-DH-5 Page No. 3
Property PURE CREEK Length 23.8m Lat. Drill Type
District Bearing 141.° Dip Hole Size
Commenced Dip -59° Elev. Contractor Logged by
Completed Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															14.4m - fault - 46° angle - start of 20 cm wide massive qtz vein.
															17.3m - 1cm - fault - 44°
															18.1 - 20.2m zone of intense silicification (microcrystalline quartz) with 35-40% med gr. disseminated + fracture pyrite. > 50% pyrite from 19.2 - 19.45m
															Fault at 18.4m - 30°
															" " 18.1m - 44°
															" " 19.8m - 43°
															" " 20.2m - 51°
															20.5m fault - angle 57°
															20.5 - 33.8 (end of hole) heavily fractured + faulted bleached silicified breccia with 30-40% diss + fracture pyrite

GRAPHIC LOG



Q M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87, DH-5 Page No. 4
Property FIRE CREEK Length 33.8m Lat. _____ Drill Type _____
District _____ Bearing 146° Dip _____ Hole Size _____
Commenced _____ Dip -59° Elev. _____ Contractor _____ Logged by _____
Completed _____ Approved by _____ Date _____

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	GRAPHIC LOG ROCK TYPE
															28.1 – 33.6m intense silicified zone – Rock almost totally replaced by fine. silica. Contains approx 20% sulfides (pyrite, hematite) that have been partially oxidized, indicating exposure to air or oxygen rich waters (possibly a wide crack or fault that reaches the surface –28.1 m – fault – angle 46° 33.6-33.8m – massive splintery quartz vein End of hole.		
															Schistocity, angles to core axis 7.2 m – 57° 21.5m – 44° 11.3 m – 52° 23.6m – 45° 14.0 m – 31° 25.3m – 42° 16.1 m – 40° 27.3m – 40° 19.4 m – 35°		

Q M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87 DH-7 Page No 1
Property FIRE CREEK
District
Commenced
Completed

Length 101.3m
Bearing 194°
Dip -48°

Lat.
Dip
Elev. 700'

Drill Type JKS 300
Hole Size NDB
Contractor DRILCOR INDUSTRIES LTD.

Logged by David R. Bennett
Approved by _____ Date _____

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T. Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES
87 DH-7, 1	19.3m	20.3m	1.0	100	.003	.5	264	14	130	1	37	483	48	6	15	
" ,2	20.3	21.8	1.5	100	.011	1.0	134	3	75	1	56	934	17	10	18	0-9.8m strongly oxidized and
" ,3	21.8	23.3	1.5	100	.013	.8	148	8	212	2	61	986	20	9	19	weathered surface zone.
" ,4	23.3	24.8	1.5	100	.002	.3	215	9	168	1	55	783	21	12	21	- original rock in this section
" ,5	24.8	26.3	1.5	100	.001	.2	361	7	112	1	45	737	12	15	21	is chlorite-sericite-talc schist
" ,6	26.3	27.8	1.4	94	.001	.1	169	5	143	1	36	814	9	14	21	with ~5% interbedded pyrite
" ,7	27.8	29.3	1.3	87	.002	.3	441	14	228	1	40	866	31	15	23	- ferricrete horizon from approx.
" ,8	29.3	30.8	1.5	100	.001	.1	95	6	135	1	25	682	15	14	19	5.3-6.8m
" ,9	30.8	32.3	1.5	100	.006	.9	650	25	216	3	15	233	182	9	20	9.8-19.3m - bouldery overburden
" ,10	32.3	33.8	1.4	94	.002	.1	148	11	123	2	40	582	15	15	25	- fairly clean gravel - med gr
" ,11	33.8	35.3	1.5	100	.001	.1	117	13	144	1	36	591	6	14	21	diorite intrusive material;
" ,12	35.3	36.8	1.4	94	.006	.9	1516	11	148	5	30	428	16	9	18	volcanic basalt & schist
" ,13	36.8	38.3	1.5	100	.004	.5	346	34	20	5	12	103	89	10	20	fragments (large section of
" ,14	38.3	39.8	1.4	94	.009	1.8	367	23	34	6	10	81	140	7	23	andesite-diorite intrusive from
" ,15	39.8	41.3	1.5	100	.014	1.8	777	54	200	8	11	79	284	8	23	10.0-12.7m may be almost
" ,16	41.3	42.8	1.5	100	.003	.9	181	25	25	2	11	81	54	6	21	in place - other material is
" ,17	42.8	44.3	1.5	100	.006	3.9	568	96	1117	4	13	66	155	6	19	transported.
" ,18	44.3	45.8	1.5	100	.004	2.4	295	33	676	2	13	78	82	7	21	19.3-24.0 - interbedded dark
" ,19	45.8	47.3	1.5	100	.003	.7	86	26	18	2	10	68	28	6	20	grey vesicular andesite welded crystal
" ,20	47.3	48.8	1.5	100	.005	.7	313	24	21	2	13	60	102	7	18	tuff (10-15% pyrite between
" ,21	48.8	50.3	1.5	100	.004	.6	219	15	27	2	14	53	54	6	21	chlorite layers) with areas of green
" ,22	50.3	51.8	1.2	81	.003	.3	267	4	142	1	57	889	5	12	21	talc-chlorite schist (more siliceous)
																~10-15% interbedded schist pyrite

GRAPHIC LOG

FOOTAGE	ROCK TYPE
4m	
5	
6	
7	
8	
9	
10	
11	
12	
13	

oxidized surface zone

bouldery overburden

Pervasive horizon

Calcite veinlets throughout

andesite-diorite intrusive

65°

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____ ☐ _____ ☐ _____ ☐ _____ ☐ _____ ☐ _____ ☐ _____ ☐ _____ ☐ _____ ☐ _____ ☐ _____

Hole No. 87 DH-7 Page No 2
Property FIRE CREEK
District
Commenced
Completed

Length 101.3m
Bearing 194
Dip -48°

Lat.
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T. Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo**	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	ROCK TYPE
87 DH-7,23	51.8 m	53.3m	1.5m	100	.002	.3	228	9	113	1	60	668	13	10	21		15m	
,24	53 3	54.8	1.5	100	.005	.9	177	22	21	6	12	64	50	5	20	1-schist imprint over all rock types?		
,25	54 8	56 3	1.5	100	.007	.6	122	90	20	4	13	84	47	6	21		16	
,26	56.3	57.8	1.5	100	.003	.4	74	31	9	2	7	80	25	5	21	20.6 - 20.9 m dark green vesicular andesite		
,27	57.8	59 3	1.5	100	.008	.9	166	65	18	4	11	64	58	5	21	21.4 - 22.4 m welded crystal lithic		
,28	59.3	60.0	0.7	100	.024	5.3	1265	115	104	10	13	68	404	5	17	23.3 - 23.8 m layers.		
,29	60.0	62.5	2.5	100	.002	.1	50	21	187	1	101	715	27	35	16	- contacts 20.6 m ~ 56° angle	18	
,30	62.5	63.8	1.3	100	.008	1.5	215	37	24	3	10	97	64	7	18	-21.2m - 56° - irregular		
,31	63.8	65.3	1.5	100	.010	1.5	234	41	17	2	7	61	93	5	18	contact with high vesicle domain	17	
,32	65.3	66.8	1.5	100	.016	2.2	819	27	31	7	5	79	333	7	26	and open vesicles at surface		
,33	66.8	68.3	1.5	100	.023	2.5	749	48	34	21	6	117	311	9	32	pumbable top to layer	20	
,34	68.3	69.8	0.9	60	.017	1.8	411	33	12	5	5	67	169	8	27	-23.8m - 59° angle		
,35	69.8	71.3	1.5	100	.056	7.0	2563	52	32	10	6	97	1016	11	29	65° angle	21	
,36	71.3	72.8	1.5	100	.027	2.3	879	40	25	5	8	76	350	6	20	24.0 - 31.2m Schistose - green,		
,37	72 8	74.6	1.8	100	.013	2.4	684	17	53	4	14	58	278	6	14	chloritic, andesite welded crystal	23	
,38	74 6	75.8	1.2	100	.007	1.2	184	21	211	2	38	1190	98	5	18	tuff (< 3% v.f.gr sulfides)		
,39	75.8	77.3	1.5	100	.004	1.3	1114	13	153	2	31	1133	125	6	16	- calcite veinlets up to 1/2cm	25	
,40	77 3	78.8	1.5	100	.002	.2	74	3	83	2	68	1496	41	7	19	wide + some quartz veins		
,41	78.8	80.3	1.5	100	.001	.3	77	5	76	1	78	1351	52	6	18	up to 5 cm wide that occur.	24	
,42	80 3	81.8	1.5	100	.001	.1	54	3	62	2	83	1080	38	8	18	28.4m - 5cm wide quartz vein		
,43	81.8	83.3	1.5	100	.001	.2	59	3	117	2	53	1396	43	6	19	with no sulfides - angle 65°	25	
,44	83.3	84.8	1.5	100	.001	.2	75	5	218	2	51	1910	51	6	19	29.6 m - 3cm wide quartz vein		
																angle ~ 51°		

bedding or overburden

interbedded tuff - lithic sandstone - siltstone

no core with massive andesite - 0-15m (?)

< 3% sulfides

54° 56° 56° 61° 68° 59° 66°

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87 DH-7 Page No. 3
Property FIRE CREEK
District
Commenced
Completed

Length 101.3m
Bearing 194
Dip -48°
Lat.
Dip
Elev

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T. Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES
87 DH-7, 45	84.8m	86.3m	1.5	100	.002	.4	84	9	250	2	38	2939	123	5	15	
" ,46	86.3	87.8	1.5	100	.001	.4	77	8	163	2	28	2319	77	4	18	27.8m - thin mud layer (1cm wide)
" ,47	87.8	89.3	1.5	100	.002	.5	58	11	173	2	40	2068	80	4	14	with load structures ind. retrograde
" ,48	89.3	90.8	1.5	100	.002	.2	70	9	169	2	47	1643	58	5	16	top of hole to be up.
" ,49	90.8	92.3	1.5	100	.001	.2	67	2	186	1	63	2155	42	4	15	
" ,50	92.3	93.8	1.5	100	.002	.5	79	12	141	2	71	2363	73	5	15	Schistosity outlines to core axis
" ,51	93.8	95.3	1.5	100	.001	.3	70	16	209	2	40	2827	46	4	11	30.7m - 50° angle
" ,52	95.3	96.8	1.5	100	.001	.7	91	41	316	2	38	1484	89	5	17	27.6m - 62°
" ,53	96.8	98.3	1.5	100	.002	.7	83	38	266	2	40	1637	63	4	14	25.2m - 66°
" ,54	98.3	99.8	1.5	100	.001	.3	71	10	102	2	38	1606	23	4	14	22.8m - 68°
" ,55	99.8	101.3	1.5	100	.002	.6	74	18	169	3	39	2052	56	5	19	21.1m - 61°
																19.6m - 54°
																32.8m - 62°
																34.6m - 66°
																36.5m - 62°
																39.3m - 63°
																43.1m - 66°
																47.0m - 59°
																49.9m - 71°
																Faults - angles to core axis
																46.2m - 68°
																45.1m - 40° - lg. fault

GRAPHIC LOG

FOOTAGE: 26m, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36

ROCK TYPE: gtz.veh; gtz vein; 20-25% inter schist fractures; ~20% chalcopyrite; massive pyr

62° 65° 51° 50° 65° 54° 62° 64°

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87 DH-7 Page No. 4
Property FIRE CREEK
District
Commenced
Completed

Length 101.3m
Bearing 194°
Dip -48°

Lat
Dip
Elev

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo		

ROCK DESCRIPTION AND NOTES

41.7m - 69°
41.4m - 68° lg fault
~10 cm wide sandy gouge seam
38.9m - 75°
31.0m - 44°

31.2 - 33.0m - grey - chlorite - talc schist (schistose material) - moderate bleaching and silicification with 20-25% interschist quartz (some >50% quartz layers up to 1 cm wide)
31.7m - 5cm wide massive qtz-vein - 54°
33.0 - 36.1m green - chloritic andesitic intrusive with <5% disseminated sulfides ~~throughout~~. Top 10 cm of intrusive has approx. 20% coarse pyrite in the form of crustal fragments 5 mm wide. Pods + lenses of massive white quartz up to 10 cm

Strong clay alteration with a localized silicification + 20+% sulphides

pyritic seam

10-20% pyrite

GRAPHIC LOG

FOOTAGE	ROCK TYPE
37m	
38	65°
39	
40	
41	65
42	45
43	66
44	40
45	
46	6
47	5

QMC-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ ☐
☐ VOLCANIC ☐ ☐
☐ SEDIMENT ☐ ☐
☐ SCHIST ☐ ☐
☐ ☐ ☐

Hole No 87 DH-7 Page No. 5
Property FIRE CREEK
District
Commenced
Completed

Length 101.3 m
Bearing 194°
Dip -48°

Lat
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo**	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															wide occur and make up approx 25-30% of the rock in lower 60cm meter of the intrusive 33.0 m - contact angle - 57° 36.1 m - " " - 64°
															36.1 - 50.4 m strong clay alteration + silicification with numerous small brecciated areas in a light green schistose mudstone (talc-sericite alteration) 20+% sulfides throughout (pyrite, chalcopyrite)
															36.2 - 36.9 m zone with strong chalcopyrite mineralization (up to 20% chalcopyrite with pyrite) - strong silicified zone 38.2 - 38.3 m - thin layer of green andesite intrusive? (possible tuff horizon) with 20% coarse pyrite grains at an angle of 66°

GRAPHIC LOG

FOOTAGE	ROCK TYPE
48 m	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Hole No. 87DH-7 Page No. 6
Property FIRE CREEK
District
Commenced
Completed

Length 101.3m
Bearing 194°
Dip -48°

Lat
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo		

ROCK DESCRIPTION AND NOTES

45.1 – 46.8 – breccia zone with 30-40% fine disseminated & fracture pyrite

50.4 – 52.9m green, chloritic andesite intrusive with <5% sulfides throughout except contact zones which have approx 12% coarse pyrite cubes
50.4 contact angle – 49°
52.9 " " – 59°

52.9 – 60.2m
grey, strongly bleached & silicified schist with 20-30% fine grained disseminated - fracture & inter schist sulfides (pyrite / chalcopyrite)
- chalcopyrite content as high as pyrite in several areas (~10%)
54.5m large fault - pyrite gouge - angle 20°

54.8 – 58.4m very strong silicification with a slight increase in sulfide content (25-30%)

GRAPHIC LOG

FOOTAGE	ROCK TYPE
59m	py-chlc vein 36°
60	
61	46°
62	41° 59 56°
63	
64	64
65	63 22°
66	
67	25°
68	massive pyrite vein 52°
69	

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87 DH-7 Page No. 2
Property FIRE CREEK
District
Commenced
Completed

Length 101.3m
Bearing 174°
Dip -48°

Lat.
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo**	OXIDE ANALYSIS Cu	Mo

ROCK DESCRIPTION AND NOTES

56.7-56.8 m - @ 60% sulfide zone (10% chalcopyrite, 40% pyrite)

58.4-60.2m - 50+% sulfides in a strongly altered zone, - silicification still strong. Rock is intensely fractured & deformed - becoming partially brecciated. (pyrite, chalcopyrite, minor arsenopyrite)

59.9m - 2 cm wide pyrite/chalcopyrite vein - angle 53°

60.2 - 62.4 dark grey-green aphanitic vesicular andesite intrusive. - very little alteration (slight chloritization) - vesicle density higher at up hole contact.

Fault contact 60.2m contact angle - 36°
62.4m " " - 41°

mafic phenocrysts - >1% sulfides along fractures

GRAPHIC LOG

FOOTAGE	ROCK TYPE
70m	
71	
72	
73	
74	
76	
77	
78	
79	
80	

Strongly altered, brecciated sulfides (pyrite, chalcopyrite) with chloritic schist fragments

quartz vein with massive pyrite fragments & massive arsenopyrite

end of alteration

chloritic schist 10% pyrite & 3% chalcopyrite

quartz-calcite vein 5-10% pyrite, chalcopyrite, minor arsenopyrite

43° 71° 60° 49° 64° 65° 71° 75° 51° 25°

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Hole No. 87 DH-7 Page No. 8
Property FIRE CREEK
District
Commenced
Completed

Length 101.3m
Bearing 194°
Dip -48°

Lat
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															62.4 - 74.9m m green - heavily fractured & faulted; partially brecciated schist. Strong clay alteration & silicification 40+% sulfides (interschist, fracture & disseminated pyrite, chalcopyrite with traces of arsenopyrite)
															63.3 - 72.0 very strong silicification, makes rock brittle.
															62.6m - Fault - 59° angle
															62.9m - " - 56°
															64.0m - Fault - 64°
															66.2m - " - 22°
															68.2m - " - 25°
															67.5-67.75m massive pyrite Zone (>90% pyrite) angle 62°
															71.0m - rock becomes less deformed - sulfide content still >40% but mainly in the schist pyrite

GRAPHIC LOG

FOOTAGE	ROCK TYPE
81m	
82	
83	
84	
85	
86	
87	
88	
89	
90	
91	

chlorite schist numerous calcite veinlets 10% sulphides

30° 41° 37° 97° 59° 49° 60° 43° 41°

QMC-2

DRILL SAMPLE RECORD

☐ GRANITE
☐ VOLCANIC
☐ SEDIMENT
☐ SCHIST
☐ _____

Hole No. 87 DH-7 Page No. 9
Property FIRE CREEK
District _____
Commenced _____
Completed _____

Length 101.3m
Bearing 194°
Dip -48°

Lat. _____
Dip _____
Elev. _____

Drill Type _____
Hole Size _____
Contractor _____

Logged by _____
Approved by _____ Date _____

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															Fault - 65.8m - 60°
															Schistosity angles to core axis
															72.9m - 71°
															71.4m - 43°
															68.1m - 52°
															64.9m - 63°
															61.2m - 46°
															56.9m - 59°
															54.1m - 48°
															75.2m - 65°
															77.0m - 71°
															78.8m - 51°
															81.6m - 41°
															83.5m - 37°
															85.8m - 59°
															88.7m - 43°
															91.4m - 41°
															94.1m - 51°
															96.4m - 50°
															100.7m - 50°

GRAPHIC LOG

FOOTAGE	ROCK TYPE
92m	
93	
94	51°
95	
96	50°
97	
98	
99	
100	
101	50°
End of hole	

chlorite schist - 10% sulphides
hornfels calcite veinlets

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST

Hole No. 87 DH-7 Page No. 10
Property FIRE CREEK
District
Commenced
Completed

Length 101.3 m
Bearing 194°
Dip -48°

Lat.
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	GRAPHIC LOG ROCK TYPE
															73.8 - 74.6 m massive quartz vein with inclusions of massive pyrite (up to 5 cm wide) surrounded by the quartz. Arsenopyrite occurs as massive seams (up to 2 cm wide towards the bottom of the quartz vein - Both pyrite & arsenopyrite also occur along fractures. Approx. 15% sericite with qtz		
															fault contact @ 73.8 m - 60° angle " " " 74.6 m - 49° angle		
															74.9 - 101.3 m (end of hole) med-dark green chlorite - sericite schist with numerous calcite veinlets and several larger quartz-calcite veins. Approx. 1% fine inter schist pyrite with minor arsenopyrite occurring in veinlet edges.		

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST

Hole No 87-Dn-7 Page No 11
Property FIRE CREEK
District
Commenced
Completed

Length 101.3m
Bearing 194°
Dip -48°

Lat
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo**	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	ROCK TYPE
															76.8m - fault - 75° angle 77.4m - large fault - 75° - schistosity, angle steepens 80.2-80.7m quartz - calcite vein with 5-10% disseminated and fracture pyrite, chalcopyrite with minor arsenopyrite. Quartz is almost transparent chalcedonic. - angle 25° 82.0m - fault - angle 30° 84.2m - " - " 74° 86.9m - two faults - 49° + 60° 74.9m - fault at end of strong alteration - 64° angle		

Q.M.C-2

DRILL SAMPLE RECORD

GRANITE
VOLCANIC
SEDIMENT
SCHIST

Hole No 87 DH-8 Page No. 1
Property FIRE CREEK
District
Commenced
Completed

Length 81.3m
Bearing 165°
Dip -60°

Lat.
Dip
Elev 695'

Drill Type JKS 300
Hole Size NDB
Contractor DRILCOR INDUSTRIES LTD. Logged by David R. Bennett
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T. Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	ROCK TYPE
DH-8, 1	5.0m	6.3m	1.1m	85	.003	.6	25	230	125	8	52	279	192	1	5		5m	
" , 2	6.3	7.8	1.2m	80	.003	.2	26	133	191	13	76	649	246	6	5	0 - 5.0m overburden - no core		
" , 3	7.8	9.3	1.5	100	.003	.2	42	312	183	9	97	761	188	6	5	5.0 - 9.4m strongly oxidized	6	
" , 4	9.3	10.8	1.5	100	.001	.4	339	96	560	5	31	1133	58	12	19	and weathered surface zone		
" , 5	10.9	12.3	1.4	94	.003	.6	395	32	547	5	23	506	56	17	24	9 +/- 20.4m chlorite sericite	7	
" , 6	12.3	13.8	1.2	80	.009	4.1	2100	54	475	5	23	613	116	13	23	schist with 10-15% sulfides		
" , 7	13.8	15.3	1.5	100	.004	.5	143	25	264	3	26	594	43	14	20	(mainly pyrite) throughout but	8	
" , 8	15.2	16.8	1.4	94	.002	.3	90	21	135	2	30	692	28	12	20	with sulfide contents reaching		
" , 9	16.8	18.3	1.5	100	.001	.5	139	73	470	2	38	856	38	9	19	30-40% in places.	9	
" , 10	18.3	19.8	1.5	100	.002	.7	295	40	1506	3	31	964	32	6	18	Schist consists of interbedded		
" , 11	19.8	21.3	1.5	100	.002	.9	442	22	814	3	44	989	27	5	16	dark grey rock with 30-40%	10	
" , 12	21.3	22.8	1.5	100	.003	.5	141	15	331	5	35	1007	39	6	18	inter schist sulfides (originally		
" , 13	22.8	24.3	1.5	100	.002	.5	122	11	210	4	31	1024	10	5	15	mudstone or siltstone) with	11	
" , 14	24.3	25.8	1.5	100	.003	1.1	213	157	450	4	31	671	33	6	19	chloritic dark green rock [illegible]		
" , 15	25.8	27.3	1.5	100	.002	.2	86	19	197	3	27	230	26	9	18	approx 10% sulfides (originally	12	
" , 16	27.3	28.8	1.5	100	.002	.3	106	14	31	3	23	130	21	8	22	[illegible] inclusive welded inter schist interbeds)		
" , 17	28.8	30.3	1.5	100	.001	.2	81	9	43	2	36	378	9	6	19	Carbonate content is high (15%?)	13	
" , 18	30.3	31.8	1.5	100	.003	.1	34	2	87	2	40	174	8	6	18	in the grey schist		
" , 19	31.8	33.3	1.5	100	.002	.1	32	6	53	6	30	99	8	5	18		14	
" , 20	33.3	34.8	1.5	100	.003	.1	25	6	23	5	31	59	7	7	19	18.3m - 3cm - [illegible] quartz vein		
" , 21	34.8	36.3	1.5	100	.003	.1	18	8	6	7	30	29	9	4	13		15	
" , 22	36.3	37.8	1.5	100	.002	.1	38	7	42	6	26	48	25	8	22			

QMC-2

DRILL SAMPLE RECORD

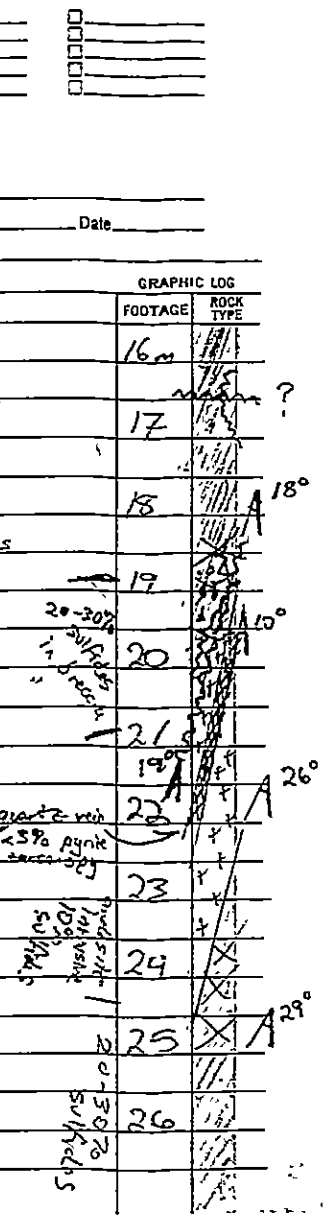
☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST

Hole No. 87 DH-8 Page No. 2
Property FIRE CREEK Length 84.3m Lat Drill Type
District Bearing 165° Dip Hole Size
Commenced Dip -60° Elev. Contractor Logged by
Completed Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T. Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES
87 DH-8, 23	37.8m	39.3m	1.5	100	.002	.3	125	11	35	5	22	74	44	11	24	
" .24	39.3	40.8	1.5	100	.003	.1	77	25	20	4	31	51	21	26	17	10.6 - 13.8m - strong bleaching
" .25	40.8	42.3	1.5	100	.002	1.0	206	119	1019	6	25	39	16	18	17	+ sulfide mineralization along
" .26	42.3	43.8	1.5	100	.004	2.1	1365	21	72	8	24	51	44	10	17	a fault running parallel to
" .27	43.8	45.3	1.5	100	.001	.5	98	34	62	5	27	63	34	12	20	core axis - the fault is
" .28	45.3	46.8	1.5	100	.003	1.5	186	60	227	14	18	59	92	21	21	offset at 10.6m and appears
" .29	46.8	48.3	1.5	100	.001	.3	55	23	18	2	10	69	31	10	19	to diverge from the core at
" .30	48.3	49.8	1.5	100	.002	.7	101	38	443	7	14	82	38	9	23	13.8m - sulfide content ~ 40%
" .31	49.8	51.3	1.5	100	.003	1.4	191	18	53	2	28	100	80	16	24	
" .32	51.3	52.8	1.5	100	.002	.5	54	17	33	2	25	88	24	9	20	Faults at 14.6m; 15.3m;
" .33	52.8	54.3	1.5	100	.001	.6	88	30	23	4	7	73	38	16	21	16.2-16.8m; 19.0-19.4m
" .34	54.3	55.8	1.5	100	.002	.3	76	33	199	4	21	104	35	17	23	- all are nearly parallel
" .35	55.8	57.3	1.5	100	.001	.2	57	16	18	4	27	44	21	19	21	to core axis < 15°
" .36	57.3	58.8	1.5	100	.001	.2	75	20	38	7	22	49	20	5	15	
" .37	58.8	60.3	1.5	100	.009	44.4	6862	829	1011	8	5	94	2367	5	21	16.4m fault - crosscuts core
" .38	60.3	61.8	1.5	100	.003	1.1	105	35	37	3	18	70	44	17	18	
" .39	61.8	63.3	1.5	100	.002	1.2	288	19	46	2	17	71	106	11	18	19.3 - 20.4m intensely deformed,
" 40	63.3	64.8	1.4	94	.002	.5	173	11	40	1	17	170	59	5	20	bleached breccia zone with
" .41	64.8	66.3	1.5	100	.002	.1	38	12	8	2	14	63	14	6	21	25-30% fracture + disseminated
" 42	66.3	67.8	1.5	100	.001	.2	46	6	11	2	13	70	18	8	19	pyrite, chalcopyrite with minor
" 43	67.8	69.3	1.5	100	.001	.1	168	2	18	2	14	142	48	5	19	arsenopyrite.
" 44	69.3	70.8	1.5	100	.003	.2	185	9	16	1	10	120	75	7	20	

GRAPHIC LOG

FOOTAGE	ROCK TYPE
16m	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	



Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No 87 DH-8 Page No. 3
Property FIRE CREEK
District
Commenced
Completed

Length 81.3m.
Bearing 165°
Dip -50°

Lat.
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES
87 DH-8, 45	70.8m.	72.3m	1.3m	87	.001	.1	35	2	6	2	8	63	13	7	24	20.4 - 23.6m dark green andesite intrusive with large mafic xtals (5-10mm) - approx 10% fracture disseminated + inter schist sulfides (mainly pyrite).
" 46	72.3	73.8	1.1	74	.002	.1	29	4	5	3	14	49	10	4	18	
" 47	73.8	75.3	1.5	100	.004	.1	213	4	22	2	8	213	35	8	26	
" 48	75.3	76.8	1.5	100	.004	.1	208	2	37	2	10	353	38	7	25	
" 49	76.8	78.3	1.4	94	.010	.3	325	3	60	2	15	528	108	4	18	
" 50	78.3	79.8	1.4	94	.002	.1	190	7	24	2	16	235	35	5	16	
" 51	79.8	81.3	1.0	67	.001	.1	71	2	5	1	27	49	10	5	15	20.4 - fault contact - 19° angle.
END OF HOLE																23.6 - 31.8 slightly bleached chlorite - sericite schist interbedded unit + Sulfide content 20-30%
																20.6-20.8 massive quartz vein with < 3% disseminated + fracture sulfides - (pyrite + minor arsenopyrite) - angle 10° to core
																31.8m start of strong bleaching with a slight increase in sulfide content (25-35%) - [still sericite-chlorite schist].

GRAPHIC LOG

FOOTAGE	ROCK TYPE
27m	
28	A 23°
29	
30	
31	
32	
33	A 26°
34	
35	A 28°
36	
37	

20-30% sulfides

start of strong bleaching

2-3% sulfides in bleached schist

quartz vein 33°

15°

silicified min 40-50% sulfides

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87 DH-8 Page No. 4
Property FIRE CREEK Length 81.3m Lat. Drill Type
District Bearing 165° Dip Hole Size
Commenced Dip -60° Elev. Contractor Logged by
Completed Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															Schistosity angles to core axis
															9.8m - 69°
															14.0m - 25°
															18.0m - 18°
															21.7m - 26°
															24.7m - 29°
															28.0m - 23°
															32.6m - 25°
															35.3m - 28°
															38.8m - 28°
															41.5m - 28°
															44.8m - 28°
															48.5m - 29°
															51.5m - 25°
															55.7m - 30°
															59.2m - 35°
															60.5m - 28°
															57.8m - silicification intensity starts to increase

GRAPHIC LOG

FOOTAGE: 38m, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48

ROCK TYPE: A 15°; A 28°; silicified vein 40-50% sulfi... 20°; A 55° ?; A 28°; A 28°; A 25°; A 36°; A 29°

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87 DH-8 Page No. 5
Property FIRE CREEK Length 81.5m Lat. _____ Drill Type _____
District _____ Bearing 165° Dip _____ Hole Size _____
Commenced _____ Dip -60° Elev _____ Contractor _____ Logged by _____
Completed _____ Approved by _____ Date _____

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo**	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															59.0-60.1m - Zone of intense silicification and sericitization with 60-70% med-coarse gr. disseminated + fracture sulfides (2/3 pyrite, 1/2 hematite + chalcopyrite w. minor arsenopyrite). Vuggy texture in several areas. angle - 31°
															60.1-65.0 m continuation of strong bleached schist with 30+% sulfides (mainly pyrite, hematite)
															61.2-62.0 - silicified breccia zone w. approx-25% pyrite. Fault - angles to core axis
															35.0m small fault or 5cm wide quartz veins vein - 33°
															37.1m 1cm calcite veinlet - 27°
															37.3m 5cm wide silicified zone with 40-50% sulfides (disseminated pyrite with minor chalcopyrite) - angle 15°
															38.5m - 10 cm wide silicified zone with 40-50% sulfides - angle 20°

GRAPHIC LOG

FOOTAGE	ROCK TYPE
49m	A 49°
50	
51	
52	A 25°
	A 25°
53	A 27°
54	
	A 49°
55	A 52°
56	A 30°
57	
58	A 31°
59	A 36°

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST

Hole No. 87 DH-8 Page No. 6
Property FIRE CREEK Length 81.3m Lat. Drill Type
District Bearing 165° Dip Hole Size
Commenced Dip -60° Elev Contractor Logged by
Completed Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															39.3-39.7m - fault - 15° angle.
															40.2m - small fault - 55° angle
															40.5m large fault - angle ? - cross cuts core
															47.5m " " - angle 25°
															48.8m large fault - " 36°
															48.9m fault - angle 48°
															53.0-53.2m fault zone - angle 25°
															53.7m - fault - angle 27°
															55.1m - " - angle 49°
															55.4m - " - angle 52°
															59.9m " - angle 36°
															60.1m - 3cm. wide silicified vein with 25% sulfides (10% pyrite, 8% hematite, 5% sphalerite, 2% other sulfides - arsenopyrite, pyrargyrite) angle - 28°
															65.0 - 81.3 (end of hole) intensely bleached, silicified sericitized breccia with 35% sulfides (mainly pyrite)

GRAPHIC LOG

FOOTAGE | ROCK TYPE

60m
61
62
63
64
65
66
67
68
69
70

28° 46° 41° 31° 34° 30° 50° 39°

qtz vein with 25% ± pyrite, hematite, sphalerite, arsenopyrite, pyrargyrite

Silicified and 25% pyrite

Intense argillic alteration

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87 DH-8 Page No 7
Property FIRE CREEK
District
Commenced
Completed

Length 81.3m
Bearing 165°
Dip -60°

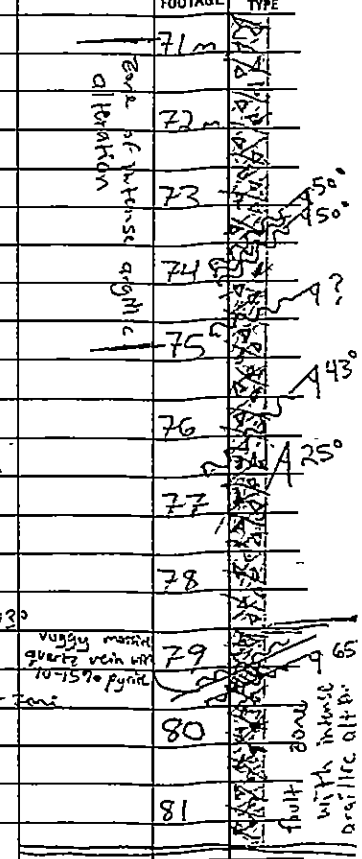
Lat.
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by ____ Date ____

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															- intense faulting + fracturing throughout
															61.2m fault - angle 46°
															62.0m fault at the boundary of a 2 cm wide massive quartz vein - angle - 41°
															65.8m small fault - 34°
															69.2m large fault - 50°
															69.3-70.0m - zone of intense argillic clay alteration
															70.8-74.7m - intense argillic clay alteration centered on a fault zone from 73.5-73.7m with 10% qtz-sericite alteration - angle approx. 50°
															74.5m - fault - angle - ?
															76.0m - large fault - angle approx 43°
															78.7-81.3 intense argillic clay alteration with silicification - fault zone
															79.0-79.2m massive quartz vein - fault bounded - 10-15% coarse gr. disseminated pyrite - vuggy texture, angle - approx 65°

GRAPHIC LOG



QMC-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐

Hole No. 87 DH-8 Page No. 8
Property FIRE CREEK Length 81.3m Lat. Drill Type
District Bearing 165° Dip Hole Size
Commenced Dip -60° Elev. Contractor Logged by
Completed Approved by Date

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	GRAPHIC LOG ROCK TYPE
															schistosity angles to core axis		
															61.0m - 41°		
															64.3m - 31°		
															68.7m - 30°		
															70.5m - 39°		
															76.5m - 25°		
															END OF HOLE		

Q.M.C-2

DRILL SAMPLE RECORD

GRANITE
VOLCANIC
SEDIMENT
SCHIST

Hole No. 87-DH 9 Page No. 1
Property FIRE CREEK
District
Commenced
Completed

Length 91.8m
Bearing 203°
Dip -45°

Lat.
Dip
Elev 715'

Drill Type JKS 300
Hole Size NDB
Contractor DRILCOR INDUSTRIES LTD.

Logged by David R Bunnett
Approved by Date

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T. Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	ROCK TYPE
																0-8.5m sub-rounded to well rounded gravelly overburden - up to boulder size float	8.5	
																	9 m	
87 DH-9, 1	8.5 m	9.3m	0.8m	100	.002	1.1	482	113	647	2	19	1307	25	4	15		10 m	
87 DH-9, 2	9.3 m	10.8m	1.5m	100	.003	.3	422	41	374	2	65	1106	16	9	19	8.5-36m		
87 DH-9, 3	10.8m	12.3m	1.35m	90	.010	13.2	1446	80	3819	9	17	292	411	9	20	Chlorite-talc (sericite) schist with approx	11 m	
87 DH-9, 4	12.3m	13.8m	1.3m	87	.011	51.5	4696	351	22253	20	22	92	1194	6	15	5% pyrite occurring mainly as thin		
87 DH-9, 5	13.8m	15.3m	0.8m	53	.009	1.5	431	37	1	11	23	68	156	6	17	layers between the schist layers	12 m	
87 DH-9, 6	15.3m	16.8m	1.5m	100	.007	.5	135	29	336	4	30	545	80	6	17	and as f-med grained disseminated		
87 DH-9, 7	16.8m	18.3m	1.5m	100	.003	.1	68	6	79	2	59	441	38	4	17	- After 11.0m rock becomes more	13 m	
87 DH-9, 8	18.3m	19.8m	1.5m	100	.004	.2	67	15	20	5	30	105	44	5	18	talc-rich with a greater talc-sericite		
87 DH-9, 9	19.8m	21.3m	1.5m	100	.002	.3	102	44	234	2	43	905	50	6	17	content than chlorite - this quartz	14 m	
87 DH-9, 10	21.3m	22.8m	1.5m	100	.002	.3	64	19	136	3	48	1784	37	5	15	calcite veinlets up to several cm		
DH-9, 11	22.8m	24.3m	1.5m	100	.006	.2	70	14	197	1	62	1421	29	5	14	wide cross-cut the schistosity	15 m	
DH-9, 12	24.3m	25.8m	1.5m	100	.002	.4	105	7	238	1	65	1367	41	6	15	and contain crs grained		
DH-9, 13	25.8m	27.3m	.9m	60	.003	.7	137	18	337	2	48	1389	68	5	15	pyrite, (pyrrhotite), chalcosite, chalcopyrite, arsenopyrite, sphalerite	16 m	
DH-9, 14	27.3m	28.8m	1.25	83	.001	.6	72	14	206	2	46	1438	40	4	14	bornite, & minor native copper		
DH-9, 15	28.8m	30.3m	1.5	100	.003	.3	60	35	218	1	37	1674	29	4	14	(Veinlets at 12.2m & 13.5m)	17 m	
DH-9, 16	30.3m	31.8m	.65	43	.002	.7	67	52	236	4	31	1571	55	4	14	- 2" fault gouge at 15.3m followed		
DH-9, 17	31.8m	33.3m	1.5	100	.003	1.0	65	57	168	4	44	855	57	5	14	by 1/2m of clay altered schist	19 m	
DH-9, 18	33.3m	34.8m	1.5	100	.046	122.5	7113	1448	1863	4	26	139	2392	4	15	- Vein at 13.5m is 6 cm wide		
DH-9, 19	34.8	36.3m	1.5	100	.005	5.7	725	90	1451	4	25	454	202	11	14	with 40% massive sulfides - pyrite, (sphalerite), pyrrhotite, chalcocite with lesser chalcopyrite, arsenopyrite, bornite	21 m	
												64° to core axis						

Q M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____ ☐ _____ ☐ _____ ☐ _____ ☐ _____ ☐ _____ ☐ _____ ☐ _____

Hole No. 87-DH 9 Page No. 2
Property FIRE CREEK Length 91.8m Lat _____ Drill Type _____
District _____ Bearing 203° Dip _____ Hole Size _____
Commenced _____ Dip -45° Elev _____ Contractor _____ Logged by _____
Completed _____ Approved by _____ Date _____

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T. Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES
DH-9, 20	36.3m	37.8m	1.5	100	.001	.4	52	13	100	1	18	422	32	28	10	
" 21	37.8	39.3	1.5	100	.002	.9	88	146	422	2	48	614	51	16	14	- schistosity angle to core axis at 18.8m
" 22	39.3	40.8	1.5	100	.002	.8	71	160	178	2	33	730	34	11	14	is 68°
" 23	40.8	42.3	1.5	100	.002	.4	51	55	121	2	21	1131	34	4	15	- transition from talc-sericite
" 24	42.3	43.8	1.2	80	.002	.6	64	179	268	2	18	1526	41	7	15	schist to chlorite schist from
" 25	43.8	45.3	1.5	100	.001	.1	103	11	151	1	13	2618	49	13	18	20 - 20m
" 26	45.3	46.8	1.5	100	.001	.7	104	51	130	2	19	1946	49	10	16	-19.7 - 20.3m inter-schist pyrite content increases
" 27	46.8	48.3	1.4	93	.001	.6	46	25	46	1	31	1476	27	4	13	to approx. 10%
" 28	48.3	49.8	1.5	100	.001	.7	47	25	30	1	29	589	29	3	13	-20.1m thin clay fault gouge - 1cm thick
" 29	49.8	51.3	1.5	100	.001	2.1	57	126	274	1	26	560	34	4	12	-20.6m schistosity angle to core axis
" 30	51.3	52.8	1.5	100	.002	3.4	82	516	1343	2	22	406	46	8	16	is 67°
" 31	52.8	54.3	1.5	100	.001	1.2	96	59	145	1	26	258	45	6	16	21.7 - 21.8m - 5cm wide vein of
" 32	54.3	55.8	1.5	100	.002	1.1	93	52	58	2	22	422	44	7	18	quartz-calcite with no visible sulfides
" 33	55.8	57.3	1.5	100	.001	1.6	108	104	194	2	23	357	54	7	19	angle vein to core axis is 59°
" 34	57.3	58.8	1.5	100	.001	1.5	96	73	107	1	26	317	44	6	17	- heavier sulfides (pyrite, pyrrhotite)
" 35	58.8	60.3	1.5	100	.002	2.5	161	175	719	2	25	126	69	6	19	in host rock for several cm. around
" 36	60.3	61.8	1.5	100	.005	1.1	131	31	44	10	18	76	56	5	17	vein
" 37	61.8	63.3	1.5	100	.009	.3	90	15	10	4	31	77	43	6	18	21.1 - 21.2m zone of pyrite veining
" 38	63.3	64.8	1.5	100	.016	2.9	974	40	20	6	10	63	377	4	16	with clay alteration - stockwork veins
" 39	64.8	66.3	1.5	100	.024	4.1	1494	20	36	7	8	279	565	7	21	1cm wide cross-cut schistosity
" 40	66.3	67.8	1.5	100	.013	2.7	943	32	46	6	12	76	375	5	19	

GRAPHIC LOG

FOOTAGE	ROCK TYPE
19m	
20	
21	pyrite vein
22	qtz/calc
23	
24	67°
25	
26	
27	fractured
28	

Q M.C - 2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87 DH-9 Page No. 3
Property FIRE CREEK Length 91.8m Lat. _____ Drill Type _____
District _____ Bearing 203° Dip _____ Hole Size _____
Commenced _____ Dip -45° Elev. _____ Contractor _____ Logged by _____
Completed _____ Approved by _____ Date _____

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	oz/T. Au	SULPHIDE ANALYSIS ppm Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS ppm Ba	Mn	As	Ni	Co	ROCK DESCRIPTION AND NOTES
87 DH-9, 41	67.8m	69.3m	1.5	100	.012	12.1	1598	63	611	5	10	72	648	3	16	
" ,42	69.3m	70.8	1.5	100	.007	13.9	1330	338	4331	6	11	94	555	4	17	24.9m - 25.6 - chlorite schist with
" ,43	70.8	72.3	1.5	100	.007	9.7	296	470	1479	10	19	526	148	7	19	cm's chlorite augen up to 1 cm long
" ,44	72.3	73.8	1.5	100	.003	.9	67	19	211	1	37	1498	43	6	15	27.1 - 27.3m zone of strong silicification
" ,45	73.8	75.3	1.5	100	.004	6.9	419	149	256	5	15	379	182	6	24	with coarser gr. sulfides - pyrite/pyrrhotite
" ,46	75.3	76.8	1.5	100	.002	.7	89	16	233	1	35	1239	48	7	18	27.3 - 31.0m sulfide content increases
" ,47	76.8	78.3	1.5	100	.001	.5	99	12	341	2	32	942	57	5	18	to 10%.
" ,48	78.3	79.8	1.5	100	.007	.9	248	22	393	3	19	737	106	8	19	27.5m - schistosity to core axis
" ,49	79.8	81.3	1.5	100	.006	1.2	332	14	106	1	25	379	157	7	18	angle 64°
" ,50	81.3	82.8	1.5	100	.004	1.6	159	40	623	2	26	541	84	6	15	30.0m schistosity to core axis
" ,51	82.8	84.3	1.5	100	.003	.6	93	5	240	1	48	1540	44	5	14	angle 66°
" ,52	84.3	85.8	1.5	100	.002	1.3	73	5	108	3	45	1226	46	5	17	28.5m start of slip folding producing
" ,53	85.8	87.3	1.5	100	.002	.4	75	2	64	1	58	1113	38	6	16	secondary cleavage in schist, ∠
" ,54	87.3	88.8	1.5	100	.001	.7	74	17	143	2	36	1092	58	9	21	angle of secondary cleavage - core axis = 56°
" ,55	88.8	90.3	1.5	100	.001	.4	83	9	190	1	38	1466	44	8	19	31.8m - 33.0m intense folding - open
" ,56	90.3	91.8	1.5	100	.001	.4	74	5	249	1	28	851	35	6	19	chevron slip folds
	end of	hole														32.6m secondary cleavage angle to core axis 34°
																- higher sulfide content in folded rock (~15% pyrite/pyrrhotite)
																33.0m - 36.0m strongly bleached, highly deformed, brecciated, schist
																- strong argillic alteration - >15% sulfides

GRAPHIC LOG

FOOTAGE	ROCK TYPE
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	

>15% sulfide chlorite schist with pyrite

∠ 50°

∠ 56°

∠ 65°

Q-M C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST

Hole No. 87-DH-9 Page No 4
Property FIRE CREEK
District
Commenced
Completed

Length 91.8m
Bearing 203°
Dip -45°

Lat
Dip
Elev

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															-disseminated and between shist layers, brecciated areas have quartz matrix and up to 30% coarse grained disseminated chalcopyrite, pyrite, + arsenopyrite.
															35.3m - thin fault gouge - angle of fault to core axis - 50°
															36.0m – 38.4 m - slightly bleached hornblende dionite intrusive with ~1% fine gr. diss. pyrite arsenopy. - chilled aphanitic contacts with several cm of brecciated host rock bordering the intrusive –
															38.4m angle of contact with core axis - 56°
															38.4 – 57m light grey - bleached chlorite - sericite schist with 10-15% fine sulfides (visually pyrite) occurring between schist layers, as fracture fillings and minor disseminated grains - schistosity angles to core axis:- 40.0m – 68°

GRAPHIC LOG

FOOTAGE	ROCK TYPE
41	
42	
43	
44	56°
45	71
46	77
47	
48	68°
49	
50	
51	

QMC-2

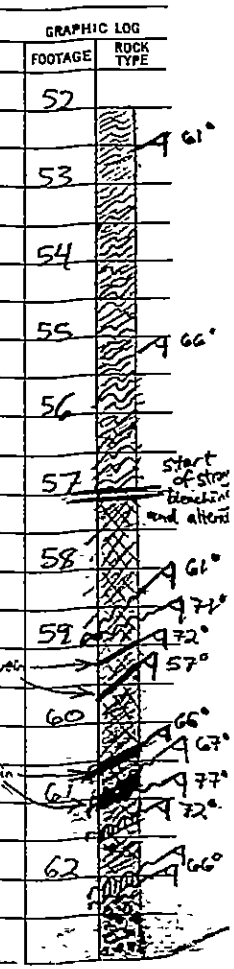
DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST

Hole No 87 DH-9 Page No. 5
Property FIRE CREEK Length 91.8m Lat. Drill Type
District Bearing 203° Dip Hole Size
Commenced Dip -45° Elev. Contractor Logged by
Completed Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo*	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															-44.3m - 68°
															-45.3m - 72°
															-48.1m - 67°
															-40.5m sulfide content drops to ~10%
															-44.6m fault gouge - fault angle to core axis - 77°
															-52 m sulfide content (pyrite/pyrrhotite) increases to 15+%
															-also the rock becomes more deformed
															-58.5m - fault gouge - fault angle to core axis :- 61°
															-58.7m - 1 cm wide fault gouge - fault angle to core axis :- 71°
															-57 m - 71.5 m strongly bleached and intensely faulted zone with > 15% sulfides :- mainly pyrite + pyrrhotite. Several qtz veins
											Minor chalcopyrite, arsenopyrite				Faults at 58.5, 58.7, 59.5, 59.8, 60.15, 60.7, 61.05, 61.2, 62.0, 62.1,

GRAPHIC LOG



Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST

Hole No. 87 DH-9 Page No. 6
Property FIRE CREEK
District
Commenced
Completed

Length 91.8m
Bearing 203°
Dip -45°

Lat
Dip
Elev

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo	OXIDE ANALYSIS Cu	Mo	ROCK DESCRIPTION AND NOTES
													-59.6m - 2cm wide qtz. vein angle to core axis 73°
													-59.9m - 3cm wide qtz vein angle to core axis 57°
													-60.48-60.6m qtz. vein breccia zone with concentrated pyrite in fractured areas. - fault at 60.48m - angle - 66°
													-60.75-61.0 - quartz vein - no salbdes - fault bounded with faults angled 67° + 77°
													-61.2-61.3 zone of strong potassic alteration with small blebs of massive pyrite throughout (up to 1/2 cm diam.) - angle to core axis 73°
													-62.0 - 62.1 as above only angle to core axis of faults bounding potassic alt^n - 66°
													-62.1 - 63.75 strongly brecciated, silicified deformed zone fine disseminated pyrite up to 20%

GRAPHIC LOG

FOOTAGE	ROCK TYPE
63	A 60°
64	
65	
66	A 63°
67	A 58°
68	
69	A 70°
70	
71	A 68°
72	
73	A 64°

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No. 87 DH-9 Page No. 7
Property FIRE CREEK
District _____
Commenced _____
Completed _____

Length 91.8m
Bearing 203°
Dip -45°

Lat. _____
Dip _____
Elev. _____

Drill Type _____
Hole Size _____
Contractor _____

Logged by _____
Approved by _____ Date _____

SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo**	OXIDE ANALYSIS Cu	Mo

ROCK DESCRIPTION AND NOTES

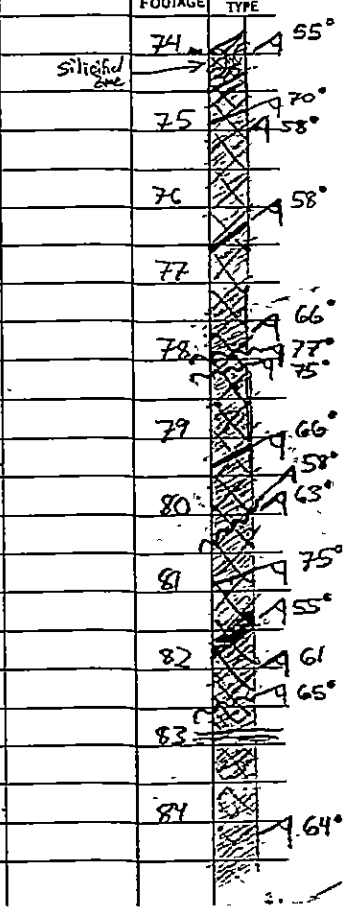
65.4-66.3m zone of potassic alteration with approx 25% sulfides (pyrite, pyrrhotite) occurring in veinlets up to 2 cm wide.

66.3-71.5 zone of intense argillic alteration with strong deformation + brecciation — 20+ % fgr. pyrite / pyrrhotite
- silicification varies from slight to moderate
- after 71.5m alteration weakens

67.1-67.2 - 10cm wide fault gouge zone - angle 58°

angles of schistosity to core axis.
52.6m - 61°
55.3m - 60°
58.4m - 59°
63.4m - 60°
66.1m - 63°

GRAPHIC LOG



Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ _____ ☐ _____
☐ VOLCANIC ☐ _____ ☐ _____
☐ SEDIMENT ☐ _____ ☐ _____
☐ SCHIST ☐ _____ ☐ _____
☐ _____ ☐ _____ ☐ _____

Hole No. 87 DH-9 Page No 8
Property FIRE CREEK
District _____
Commenced _____
Completed _____

Length 91.8m
Bearing 203°
Dip -45°

Lat _____
Dip _____
Elev _____

Drill Type _____
Hole Size _____
Contractor _____

Logged by _____
Approved by _____ Date _____

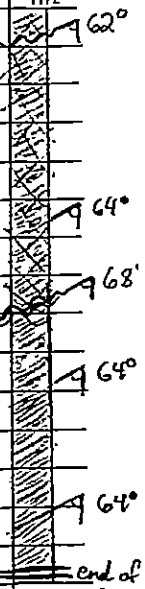
SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo**	OXIDE ANALYSIS Cu	Mo		

ROCK DESCRIPTION AND NOTES

68.5m - 70°
70.5m - 68°
72.3m - 64°
73.1m - 64°
75.0m - 58°
77.7m - 66°
80.2m - 63°
82.2m - 61°
84.3m - 64°
87.4m - 64°
89.6m - 64°
91.2m - 55°

Faults - angles to core axis
77.9m - 77°
78.15m - 75°
80.1m - 58° - - drag fold produces second cleavage dipping 75° to 180° from fault dip.
82.4m - 65°
84.87m - 60°
84.92m - 65°
88.4-88.5m - 68° - fault zone.

GRAPHIC LOG



Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ VOLCANIC ☐ SEDIMENT ☐ SCHIST ☐ _____

Hole No 87 DH-9 Page No. 9
Property FIRE CREEK
District
Commenced
Completed

Length 91.8m
Bearing 203°
Dip -45°

Lat.
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo%	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES
															Quartz veins 73.7-74.3 - silicified zone -angle to core axis 55° 74.8m - 70° - 2cm wide 76.4m - 58° - 5cm wide 79.3m - 66° - 5cm wide. 80.9m - 75° - 2cm wide 81.5m - 81.7m - 55° 18cm wide. Strong alteration occurs again at 73.7 m beginning with a 60 cm wide strongly silicified, bleached zone consisting of massive quartz fragments in highly deformed schist with approx. 25% sulfides (pyrite) occurring as coarse gr disseminated, fragments of massive pyrite, and inter schist layers. -Zone of 20+% sulfides continues to 75.2m -Zone of strong bleaching with 15+% sulfides and varying degrees of silicification occurs to 82.8m. No qtz. veining past this.

GRAPHIC LOG

FOOTAGE	ROCK TYPE

Q.M.C-2

DRILL SAMPLE RECORD

☐ GRANITE ☐ ☐
☐ VOLCANIC ☐ ☐
☐ SEDIMENT ☐ ☐
☐ SCHIST ☐ ☐
☐ ☐ ☐

Hole No. 87 DH-9 Page No. 10
Property FIRE CREEK
District
Commenced
Completed

Length 91.8m
Bearing 203°
Dip -45°

Lat
Dip
Elev.

Drill Type
Hole Size
Contractor

Logged by
Approved by Date

SAMPLE No	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS Au	Ag	Cu	Pb	Zn	Mo**	OXIDE ANALYSIS Cu	Mo			ROCK DESCRIPTION AND NOTES	GRAPHIC LOG FOOTAGE	GRAPHIC LOG ROCK TYPE
															82.8m - 88.8m - moderately bleached chloritic schist with 10-15% sulfides (mainly pyrite) -End of altered zone marked by a 10cm wide fault zone at 88.4m -88.8 - 91.8m (end of hole) very weakly altered to unaltered chlorite schist with ~5% pyrite occurring between schist layers		
															79.2 - 79.4m Zone of strong silicification near 5cm wide quartz vein. Strong sulfide mineralization - approx 30% pyrite -massive to fgr. disseminated		
															-Secondary carbonates occur in more moderately bleached areas with calcite veinlets and calcite eyes common. Calcite also occurs in minor amounts with quartz in veins.		

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEC.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-3 CORE P4-5 ROCK AU** BY FIRE ASSAY FROM 1/2 A.T.

DATE RECEIVED: JAN 05 1988 DATE REPORT MAILED: Jan 13/88 ASSAYER. D. Toye .DEAN TOYE, CERTIFIED B.C. ASSAYER

ENGLEFIELD RESOURCES File # 88-0047A Page 1

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	AS PPM	BA PPM	AU** OZ/T
87-DH-1-1	10	22	71	18	1.6	1	2	38	15	463	.003
87-DH-1-2	6	22	86	14	3.1	1	1	24	20	269	.002
87-DH-1-3	22	20	1078	8	1.5	1	2	23	149	161	.003
87-DH-1-4	7	88	32	8	.8	13	13	39	19	32	.002
87-DH-1-5	7	89	69	65	.3	3	14	238	69	30	.002
87-DH-1-6	34	68	17	3	.5	8	20	37	50	19	.004
87-DH-1-7	19	122	18	22	.3	7	20	85	25	20	.008
87-DH-1-8	8	46	18	7	.2	8	16	55	26	13	.005
87-DH-1-9	8	63	22	334	.6	8	13	29	25	18	.001
87-DH-1-10	9	26	9	35	.4	4	6	17	11	57	.001
87-DH-1-11	4	108	20	35	.4	3	16	75	22	30	.001
87-DH-1-12	3	51	27	31	.3	5	16	66	17	23	.001
87-DH-1-13	5	172	40	62	1.5	11	17	42	50	20	.001
87-DH-1-14	9	64	24	11	.5	13	19	41	37	17	.003
87-DH-1-15	5	28	3	5	.3	11	14	27	23	8	.002
87-DH-1-16	7	19	6	2	.1	1	4	18	8	14	.001
87-DH-1-17	15	129	41	53	1.4	7	15	250	60	12	.011
87-DH-1-18	2	88	14	34	.7	9	19	231	36	19	.001
87-DH-1-19	2	180	19	96	1.0	7	15	421	67	23	.001
87-DH-1-20	5	887	299	216	14.1	8	38	68	258	15	.002
87-DH-1-21	11	8427	265	1338	73.4	3	19	67	2405	13	.007
87-DH-1-22	4	161	18	20	.7	2	21	73	54	14	.002
87-DH-1-23	4	196	16	12	.5	3	17	39	42	17	.001
87-DH-1-24	2	191	7	8	.4	5	19	41	66	13	.001
87-DH-1-25	2	144	11	8	.4	5	17	46	51	14	.002
87-DH-1-26	3	46	4	6	.3	8	21	44	19	14	.002
87-DH-1-27	4	86	8	7	.2	5	16	39	17	15	.003
87-DH-1-28	3	179	12	12	.4	5	17	37	36	15	.002
87-DH-1-29	4	143	16	12	.4	7	19	37	35	18	.001
87-DH-1-30	2	94	29	3	.3	5	12	32	9	24	.001
87-DH-1-31	3	79	20	20	.3	6	15	32	15	20	.003
87-DH-1-32	3	87	28	12	.6	5	19	39	23	19	.002
87-DH-1-33	3	106	18	69	.4	4	19	37	24	19	.001
87-DH-1-34	1	42	10	44	.1	1	3	322	2	34	.001
87-DH-1-35	3	101	6	8	.1	2	8	21	7	12	.001
87-DH-9-1	2	482	113	647	1.1	4	15	1307	25	19	.002
STD C	19	62	41	132	7.8	68	28	1156	41	178	-

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

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ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEC.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU** BY FIRE ASSAY FROM 1/2 A.T.

DATE RECEIVED: JAN 06 1988 DATE REPORT MAILED: Jan 12, 1988 ASSAYER..... DEAN TOYE, CERTIFIED B.C. ASSAYER

ENGLEFIELD RES. File # 88-0055 Page 1

SAMPLE#	MO PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	AS PPM	CA %	BA PPM	AU** OZ/T
87 DH-1 36	2	6	6	.3	1	7	14	8	.01	31	.001
87 DH-1 37	1	8	9	.4	4	15	18	18	.01	6	.010
87 DH-1 38	2	4	3	.1	6	22	45	3	.01	20	.002
87 DH-1 39	2	8	10	.7	9	27	49	23	.01	18	.004
87 DH-1 40	2	15	16	.5	7	23	44	45	.01	19	.005
87 DH-1 41	3	8	4	.2	4	19	40	10	.01	17	.003
87 DH-1 42	3	4	6	.5	6	16	30	15	.01	14	.004
87 DH-1 43	3	5	462	.7	5	18	211	55	.02	28	.008
87 DH-1 44	1	13	103	1.0	5	20	165	83	.05	23	.005
87 DH-1 45	1	11	143	.6	9	19	673	27	.19	32	.002
87 DH-1 46	2	10	52	.8	8	20	432	35	.10	38	.010
87 DH-1 47	2	33	24	1.0	8	25	63	58	.08	17	.008
87 DH-1 48	3	62	132	1.0	7	21	58	32	.06	4	.007
87 DH-1 49	4	82	72	2.1	8	25	55	141	.01	4	.021
87 DH-1 50	5	46	23	1.9	8	25	66	176	.01	2	.020
87 DH-1 51	3	173	16	1.4	10	24	79	149	.01	3	.017
87 DH-1 52	3	51	12	1.7	9	21	59	273	.02	4	.016
87 DH-1 53	5	20	19	1.7	8	22	71	193	.01	4	.021
87 DH-1 54	6	22	31	2.9	11	23	74	417	.02	5	.034
87 DH-1 55	4	26	9	.9	9	22	62	104	.01	4	.012
87 DH-1 56	6	52	19	2.1	7	19	61	333	.06	4	.021
87 DH-1 57	6	84	55	9.3	7	18	96	1035	.16	4	.048
87 DH-1 58	13	66	36	7.4	9	19	87	586	.23	4	.027
87 DH-1 59	13	111	40	7.2	12	32	103	219	.16	4	.049
87 DH-1 60	7	210	141	9.4	11	32	277	233	.15	6	.173
87 DH-1 61	2	17	152	.7	4	16	1706	54	.46	42	.008
87 DH-1 62	2	5	84	.5	6	18	1316	42	1.36	68	.002
87 DH-1 63	2	6	62	.3	6	15	967	29	.33	31	.001
87 DH-1 64	2	12	83	.5	5	17	1304	63	.33	35	.003
87 DH-1 65	2	51	154	1.1	6	14	1686	147	1.20	56	.002
87 DH-1 66	1	52	134	1.2	5	12	2599	259	2.76	70	.002
87 DH-1 67	2	13	88	.5	7	14	2675	134	2.87	54	.011
87 DH-1 68	2	17	123	.8	5	14	2457	222	2.41	61	.003
87 DH-1 69	2	12	98	.9	5	13	1910	77	1.41	76	.002
87 DH-1 70	2	119	369	2.2	7	17	2183	71	1.53	65	.003
87 DH-1 71	1	12	147	.6	7	15	2266	152	.81	91	.002
STD C	19	41	134	7.8	70	29	1143	41	.46	183	-

SAMPLE#	MO PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	AS PPM	CA %	BA PPM	AU** OZ/T
87 DH-1 72	2	17	119	.4	5	11	2224	446	1.64	81	.002
87 DH-1 73	1	40	116	.6	4	14	2150	120	.79	76	.002
87 DH-1 74	2	16	104	.4	3	16	1976	94	.71	84	.001
87 DH-1 75	1	38	132	.3	3	13	1999	158	.55	98	.001
87 DH-1 76	1	4	67	.2	3	14	1573	31	.79	80	.001
87 DH-1 77	1	6	60	.2	4	13	1706	79	1.90	60	.001
STD C	19	39	132	7.4	67	29	1123	42	.47	179	-

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

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THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* BY FIRE ASSAY FROM 1/2 A.T.

DATE RECEIVED: JAN 19 1988 DATE REPORT MAILED: Jan 22/88 ASSAYER: C. Leong .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

ENGLEFIELD RESOURCES File # 88-0139 Page 1

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	AS PPM	BA PPM	AU** OZ/T
87-DH-2 1	3	520	108	103	27.3	34	3	86	349	283	.005
87-DH-2 2	4	25	79	8	.8	3	3	20	7	158	.002
87-DH-2 3	4	47	46	100	.3	5	7	315	28	51	.001
87-DH-2 4	15	28	681	103	1.1	3	1	418	135	87	.001
87-DH-2 5	10	72	73	72	.6	6	17	318	59	32	.002
87-DH-2 6	2	228	66	162	.6	7	16	855	74	24	.001
87-DH-2 7	4	286	33	222	.4	7	17	1043	38	22	.001
87-DH-2 8	2	61	43	120	.6	7	16	357	22	28	.001
87-DH-2 9	7	80	34	154	.3	7	18	321	20	34	.001
87-DH-2 10	2	894	31	189	2.2	7	19	396	39	31	.003
87-DH-2 11	2	112	17	43	.1	8	16	260	11	36	.001
87-DH-2 12	14	108	19	165	.4	6	19	314	28	23	.002
87-DH-2 13	9	53	10	45	.2	7	20	235	9	29	.001
87-DH-2 14	4	35	15	24	.2	11	19	40	9	33	.003
87-DH-2 15	3	3398	85	1408	3.4	8	17	20	13	21	.006
87-DH-2 16	10	12644	130	5622	14.8	8	15	22	27	20	.020
87-DH-2 17	5	177	60	283	1.0	7	12	15	33	14	.001
87-DH-2 18	2	93	23	29	.5	7	17	20	19	32	.001
87-DH-2 19	3	70	17	22	.2	7	17	15	25	29	.002
87-DH-2 20	3	70	23	20	.5	8	19	13	28	23	.001
87-DH-2 21	16	95	38	80	.2	19	25	10	27	14	.002
87-DH-2 22	4	4959	377	2429	30.2	6	25	21	1410	15	.022
87-DH-2 23	2	197	115	105	1.3	5	13	44	51	42	.001
87-DH-2 24	4	116	112	97	.9	7	17	13	34	19	.001
87-DH-2 25	6	276	1919	8558	5.9	8	15	28	72	16	.002
87-DH-2 26	3	121	147	345	1.8	7	17	32	36	29	.001
87-DH-2 27	7	73	24	60	.4	11	19	10	22	19	.001
87-DH-2 28	8	67	18	15	.3	12	19	11	66	26	.003
87-DH-2 29	5	132	28	254	1.0	8	14	25	54	30	.002
87-DH-2 30	6	46	22	13	.4	9	15	13	31	36	.001
87-DH-2 31	9	68	23	17	.9	9	16	30	45	15	.002
87-DH-2 32	15	75	24	25	.8	11	17	10	38	19	.002
87-DH-2 33	2	158	19	45	.6	11	18	71	46	19	.001
87-DH-2 34	4	11019	542	1626	126.8	8	14	176	1997	13	.019
87-DH-2 35	5	9204	307	1940	127.8	8	16	19	1836	13	.009
87-DH-2 36	1	568	18	99	3.0	11	17	189	168	22	.002
STD C	17	60	35	131	7.3	67	28	1035	38	173	-

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	AS PPM	BA PPM	AU** OZ/T
87-DH-2 37	2	452	15	62	2.7	6	16	202	151	33	.003
87-DH-2 38	2	141	12	33	.5	5	17	137	37	31	.001
87-DH-2 39	2	62	7	8	.4	6	18	15	25	22	.001
87-DH-2 40	2	172	11	10	.4	6	18	21	51	21	.001
87-DH-2 41	6	95	2	6	.5	6	17	11	36	26	.008
87-DH-2 42	2	68	7	6	.4	7	21	14	26	18	.004
87-DH-2 43	2	108	8	13	.9	6	20	8	32	18	.002
87-DH-2 44	2	125	6	12	.3	6	19	15	51	23	.003
87-DH-2 45	2	46	5	6	.2	6	17	9	12	22	.002
87-DH-2 46	2	49	5	7	.1	5	15	15	15	25	.001
87-DH-2 47	1	36	5	7	.2	7	16	7	16	22	.001
87-DH-2 48	2	49	12	10	.2	8	18	10	23	25	.002
87-DH-2 49	1	350	23	133	1.0	6	19	79	85	34	.002
87-DH-2 50	3	440	45	449	.9	7	19	127	81	32	.003
87-DH-2 51	3	336	15	44	1.1	8	20	59	109	47	.004
87-DH-2 52	3	308	17	27	.7	8	22	64	91	44	.003
87-DH-2 53	3	193	14	7	.2	9	22	12	29	19	.002
87-DH-2 54	1	150	11	46	.8	4	11	189	44	49	.002
87-DH-2 55	1	27	3	89	.3	1	3	411	2	66	.001
87-DH-2 56	2	56	17	33	.5	5	14	296	13	38	.002
87-DH-2 57	1	48	9	7	.5	7	20	10	17	33	.001
87-DH-2 58	1	33	13	7	.3	6	18	18	11	35	.001
87-DH-2 59	3	82	12	15	.4	7	21	8	27	28	.002
87-DH-2 60	3	51	11	13	.6	5	16	21	18	29	.001
87-DH-2 61	8	504	17	217	2.3	16	42	20	166	25	.013
87-DH-2 62	2	81	10	35	.5	5	18	12	24	22	.003
87-DH-2 63	2	59	9	19	.3	6	18	9	21	22	.003
87-DH-2 64	1	169	11	219	.9	6	15	12	24	18	.002
87-DH-2 65	1	181	13	43	.6	7	18	10	62	28	.002
87-DH-2 66	1	192	18	962	1.0	5	16	191	69	37	.002
87-DH-2 67	2	148	24	246	.5	5	17	322	28	31	.002
87-DH-2 68	2	114	23	300	.3	5	17	424	7	40	.001
87-DH-2 69	2	191	20	15	.6	5	20	19	7	26	.004
87-DH-2 70	2	280	10	7	.3	9	27	16	5	37	.003
87-DH-2 71	1	215	12	5	.4	7	19	11	6	49	.002
STD C	18	56	36	132	7.2	68	28	1055	39	176	-

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEC.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: DRILL CORE AU** BY FIRE ASSAY FROM 1/2 A.T.

DATE RECEIVED: JAN 14 1988 DATE REPORT MAILED: Jan 19/88 ASSAYER. C. Leong. D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

ENGLEFIELD RESOURCES File # 88-0106 Page 1

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	AS PPM	BA PPM	AU** OZ/T
87-DH-3 1	2	170	77	39	3.7	2	3	14	65	107	.002
87-DH-3 2	6	41	47	55	.5	1	2	210	52	57	.001
87-DH-3 3	17	33	457	66	.7	2	1	338	74	66	.002
87-DH-3 4	4	79	91	93	.4	4	9	376	37	34	.001
87-DH-3 5	3	107	27	203	.3	6	14	275	40	24	.002
87-DH-3 6	5	91	21	51	.1	6	16	145	15	21	.001
87-DH-3 7	2	85	27	77	.1	5	14	333	17	23	.001
87-DH-3 8	3	158	24	104	.6	6	16	454	26	20	.001
87-DH-3 9	1	122	12	61	.3	5	16	442	25	28	.002
87-DH-3 10	5	73	22	108	.1	6	16	186	21	23	.003
87-DH-3 11	7	1020	44	197	3.5	7	17	149	36	26	.011
87-DH-3 12	10	133	12	18	.3	10	16	38	17	28	.003
87-DH-3 13	5	47	16	31	.1	9	13	3	15	28	.002
87-DH-3 14	7	60	12	10	.3	9	15	5	15	26	.002
87-DH-3 15	8	1945	287	4405	14.9	8	44	6	555	10	.012
87-DH-3 16	15	1242	446	5697	9.8	5	27	12	337	10	.009
87-DH-3 17	7	272	526	3068	4.1	4	37	15	89	9	.005
87-DH-3 18	4	68	22	45	.1	6	18	38	26	38	.001
87-DH-3 19	3	154	26	148	.6	6	14	53	47	38	.001
87-DH-3 20	2	68	62	106	.3	6	15	22	25	47	.001
87-DH-3 21	31	3455	4949	16219	46.0	3	7	27	1076	33	.028
87-DH-3 22	5	301	33	62	2.2	10	17	10	119	31	.004
87-DH-3 23	7	110	31	144	1.0	10	17	8	83	27	.004
87-DH-3 24	10	59	20	15	.3	10	12	12	29	25	.001
87-DH-3 25	13	101	32	22	.6	6	11	8	37	19	.001
87-DH-3 26	2	28	21	12	.1	12	18	11	18	20	.001
87-DH-3 27	8	65	22	39	.7	9	15	8	33	28	.001
87-DH-3 28	6	56	18	13	.4	9	15	11	23	27	.001
87-DH-3 29	4	331	27	110	1.6	7	16	225	58	32	.001
87-DH-3 30	3	324	16	128	2.3	5	17	239	114	41	.001
87-DH-3 31	1	103	9	77	.8	5	16	238	36	35	.001
87-DH-3 32	2	92	16	11	.2	5	14	26	19	32	.001
87-DH-3 33	3	49	9	5	.2	5	15	5	14	30	.001
87-DH-3 34	2	201	11	12	.1	6	16	44	55	24	.001
87-DH-3 35	1	83	9	5	.4	5	16	4	20	25	.002
87-DH-3 36	3	143	7	8	.1	7	20	11	25	16	.005
STD C	18	57	39	131	7.2	66	27	1049	40	178	-

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	AS PPM	BA PPM	AU** OZ/T
87-DH-3 37	2	114	8	10	.6	6	16	13	36	22	.002
87-DH-3 38	3	82	6	4	.1	6	15	11	14	29	.001
87-DH-3 39	3	107	16	14	.4	9	20	41	25	33	.001
87-DH-3 40	6	268	17	35	.6	8	20	71	75	43	.002
87-DH-3 41	2	125	20	11	.7	7	20	8	30	29	.002
87-DH-3 42	2	111	19	11	.3	7	20	14	29	29	.001
87-DH-3 43	2	83	14	11	.8	9	22	10	31	28	.002
87-DH-3 44	2	83	13	9	.4	8	22	19	24	19	.003
87-DH-3 45	2	75	31	11	.2	6	18	11	28	22	.001
87-DH-3 46	2	330	24	23	.8	6	18	10	123	27	.004
87-DH-3 47	2	277	22	17	.7	6	18	11	99	26	.004
87-DH-3 48	2	594	56	42	2.4	5	16	9	202	25	.008 -
87-DH-3 49	2	107	175	7	.4	6	18	9	21	43	.004
87-DH-3 50	2	134	73	9	.8	6	19	18	30	36	.003
87-DH-3 51	1	162	53	10	.5	8	22	11	34	23	.001
87-DH-3 52	1	131	26	15	.3	6	17	27	37	40	.002
87-DH-3 53	1	51	8	6	.1	4	12	16	13	33	.001
87-DH-3 54	2	115	9	9	.3	9	22	18	33	12	.003
87-DH-3 55	2	65	16	11	.3	9	25	37	24	19	.002
87-DH-3 56	15	2698	36	1187	14.3	8	23	12	817	21	.019 -
87-DH-3 57	4	111	14	90	.1	7	22	11	20	19	.003
87-DH-3 58	3	104	19	17	.4	7	20	13	35	25	.003
87-DH-3 59	2	266	10	41	1.2	6	17	6	96	31	.004
87-DH-3 60	1	405	11	66	1.9	6	18	10	155	27	.004
87-DH-3 61	1	59	17	8	.1	6	18	6	17	27	.002
87-DH-3 62	1	114	15	8	.4	6	18	11	13	24	.001
87-DH-3 63	1	89	12	7	.1	7	21	9	13	28	.001
87-DH-3 64	1	126	15	4	.1	7	17	14	4	21	.002
87-DH-3 65	1	126	15	4	.1	7	18	8	3	25	.003
87-DH-3 66	2	128	11	4	.1	7	17	12	2	23	.002
87-DH-3 67	2	252	19	112	.1	11	22	632	7	54	.003
87-DH-3 68	1	157	13	172	.1	12	16	1029	4	12	.004
87-DH-3 69	1	203	14	124	.1	13	17	760	2	18	.006
87-DH-3 70	1	155	19	58	.1	10	17	571	3	24	.002
87-DH-3 71	2	137	13	6	.1	6	18	30	5	29	.004
87-DH-3 72	2	24	10	5	.1	8	24	9	9	33	.003
STD C	18	58	38	132	7.5	67	28	1051	39	172	-

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	AS PPM	BA PPM	AU** OZ/T
87-DH-3 73	4	159	34	72	.5	8	20	15	31	24	.012
87-DH-3 74	1	96	41	61	1.1	5	17	24	20	30	.002
87-DH-3 75	2	93	26	16	.9	4	15	14	26	11	.001
87-DH-3 76	2	296	54	48	2.9	4	14	15	95	17	.002
87-DH-3 77	2	680	158	1012	8.2	6	16	26	211	17	.007
87-DH-3 78	3	319	62	2620	3.3	4	16	36	58	16	.002
87-DH-3 79	2	664	147	1252	6.9	4	14	20	182	15	.004
87-DH-3 80	2	465	40	1491	3.7	4	15	24	171	17	.006
87-DH-3 81	1	252	118	479	2.0	3	13	53	111	20	.003
87-DH-3 82	3	165	87	30	.9	4	15	39	78	15	.002
87-DH-3 83	3	101	62	18	1.0	4	15	26	51	13	.003
87-DH-3 84	4	162	58	44	1.1	6	18	27	71	15	.003
87-DH-3 85	4	150	60	28	1.2	7	21	29	73	12	.006
87-DH-3 86	4	216	26	43	1.6	8	19	34	90	18	.008
87-DH-3 87	5	1582	165	98	2.8	4	13	26	588	27	.028
87-DH-3 88	4	2548	54	94	3.9	6	16	22	920	34	.022
87-DH-3 89	4	4291	60	50	4.5	8	22	29	1537	29	.032
87-DH-3 90	4	177	115	490	1.1	6	16	1717	72	59	.005
87-DH-3 91	4	94	17	115	2.6	6	15	963	61	64	.017
87-DH-3 92	4	137	251	1289	2.5	6	16	1039	78	58	.003
87-DH-3 93	3	75	15	137	.6	5	13	1542	38	72	.001
87-DH-3 94	1	71	6	89	.4	5	13	1158	14	40	.001
87-DH-3 95	3	65	8	110	.6	5	14	1593	51	43	.001
87-DH-3 96	5	71	5	104	.7	6	16	1388	30	64	.001
87-DH-3 97	2	70	5	121	.5	4	13	1790	21	97	.001
87-DH-3 98	3	57	8	99	.3	4	12	1879	25	40	.001
87-DH-3 99	2	77	7	92	.1	5	13	1718	26	47	.001
87-DH-3 100	2	45	6	72	.3	6	18	1202	61	51	.001
87-DH-3 101	2	71	8	142	.1	6	18	1887	57	87	.001
87-DH-3 102	2	83	83	358	1.1	6	18	1392	91	56	.002
87-DH-3 103	3	146	364	1058	3.4	6	15	1061	127	49	.008
87-DH-3 104	3	86	14	91	.4	4	11	2259	60	36	.004
87-DH-3 105	2	114	62	175	1.5	5	13	1120	133	47	.003
87-DH-3 106	3	52	26	53	.6	5	14	734	136	56	.003
87-DH-3 107	3	77	37	121	1.0	5	12	1702	83	48	.002
87-DH-3 108	3	75	43	128	.9	6	13	1425	104	46	.003
STD C	19	58	40	133	7.4	68	27	1054	40	179	-

.013

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	AS PPM	BA PPM	AU** OZ/T
87-DH-3 109	3	259	213	795	1.2	4	13	1546	101	46	.004
87-DH-3 110	4	581	532	4376	4.3	4	15	869	143	30	.008
87-DH-3 111	6	2205	601	4765	10.5	6	11	987	195	19	.025
87-DH-3 112	5	284	194	1511	2.4	9	17	1021	116	39	.006
87-DH-3 113	1	100	43	159	.8	4	11	1735	71	37	.003
87-DH-3 114	2	83	59	348	1.1	6	15	1603	61	44	.003
87-DH-3 115	3	135	60	490	3.5	7	15	1510	114	38	.008
87-DH-3 116	3	101	80	350	2.3	6	15	1277	101	46	.005
87-DH-3 117	2	83	71	416	1.1	4	13	1362	84	49	.002
87-DH-3 118	4	374	310	2042	3.3	5	13	1375	161	53	.005
STD C	18	57	38	133	7.2	68	27	1052	44	177	-

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU** BY FIRE ASSAY FROM 1/2 A.T.

DATE RECEIVED: JAN 22 1988 DATE REPORT MAILED: Jan 27/88 ASSAYER: C. Leong ...D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

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SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	AS PPM	BA PPM	AU** OZ/T
87-DH-4 1	2	55	19	162	.9	8	10	334	40	122	.004
87-DH-4 2	6	162	13	142	1.5	6	9	357	165	81	.011
87-DH-4 3	1	40	8	14	1.5	4	7	28	23	57	.003
87-DH-4 4	1	248	56	662	1.1	7	19	194	56	33	.004
87-DH-4 5	1	380	438	857	1.2	7	20	287	99	29	.007
87-DH-4 6	1	264	13	208	.2	12	18	1016	35	41	.018
87-DH-4 7	2	1173	30	221	2.8	6	14	188	364	46	.016
87-DH-4 8	2	125	82	354	1.3	7	17	145	35	41	.004
87-DH-4 9	4	121	20	71	1.7	8	19	26	43	16	.008
87-DH-4 10	5	2847	40	93	5.5	7	15	15	1077	22	.049
87-DH-4 11	1	194	31	30	1.7	6	17	11	77	16	.005
87-DH-4 12	1	159	26	26	1.2	8	20	9	61	16	.004
87-DH-4 13	2	344	20	27	2.3	5	16	10	119	18	.005
87-DH-4 14	2	169	63	12	2.4	4	10	18	94	31	.007
87-DH-4 15	1	205	24	10	.7	6	18	7	92	19	.006
87-DH-4 16	1	239	10	11	1.0	6	16	8	87	19	.008
87-DH-4 17	1	71	8	7	.3	5	16	5	23	39	.004
87-DH-4 18	3	108	7	6	.2	6	17	8	21	22	.003
87-DH-4 19	1	149	7	116	.3	13	18	792	18	46	.001
87-DH-4 20	1	162	8	15	.9	5	19	14	51	18	.004
87-DH-4 21	2	56	9	11	.4	5	17	17	38	17	.006
87-DH-4 22	2	86	20	13	.4	5	19	17	27	18	.005
87-DH-4 23	2	59	17	12	.2	4	16	40	21	22	.002
87-DH-4 24	3	111	29	10	.8	10	25	23	40	21	.006
87-DH-4 25	4	108	27	11	.8	8	20	22	42	20	.005
87-DH-4 26	2	83	32	9	.7	5	17	17	35	24	.006
87-DH-4 27	9	227	36	26	2.4	7	20	15	117	18	.020
87-DH-4 28	3	70	25	10	.4	6	18	39	27	26	.004
87-DH-4 29	4	162	39	14	1.2	6	17	15	63	20	.010
87-DH-4 30	6	152	28	95	1.0	5	16	23	66	27	.009
87-DH-4 31	4	144	31	14	1.1	7	18	45	60	27	.010
87-DH-4 32	4	643	113	33	1.9	6	17	25	250	27	.015
87-DH-4 33	6	2688	41	20	3.3	6	16	40	964	25	.028
87-DH-4 34	5	1793	43	21	2.5	6	17	23	619	33	.031
87-DH-4 35	6	643	43	22	1.6	10	23	13	158	49	.017
87-DH-4 36	1	114	34	191	.6	37	16	828	127	626	.001
~~STD C~~	~~18~~	59	38	132	7.4	68	29	1133	41	180	-

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	AS PPM	BA PPM	AU** OZ/T
87-DH-4 37	6	1923	41	33	3.8	9	20	29	689	18	.033
87-DH-4 38	16	415	33	20	1.5	8	21	43	153	15	.012
87-DH-4 39	2	472	18	216	1.0	6	17	2176	85	26	.002
87-DH-4 40	2	82	77	661	.6	5	15	2155	29	23	.003
87-DH-4 41	2	655	13	84	1.6	6	17	883	104	23	.011
87-DH-4 42	1	70	7	171	.4	7	19	1633	54	56	.001
87-DH-4 43	1	104	10	284	.5	6	18	1999	62	57	.001
87-DH-4 44	1	63	6	153	.4	5	14	1986	28	53	.001
STD C	19	58	38	131	7.1	69	29	1141	43	179	-

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	AS PPM	BA PPM	AU** OZ/T
87-DH-5 1	3	76	9	74	1.7	6	7	203	155	74	.009
87-DH-5 2	8	386	24	42	3.3	4	8	54	866	34	.014
87-DH-5 3	3	175	17	48	1.3	5	13	13	79	15	.006
87-DH-5 4	2	215	11	38	2.5	5	16	12	85	12	.007
87-DH-5 5	2	201	287	1117	1.4	7	19	265	51	18	.004
87-DH-5 6	6	227	19	108	.7	8	18	24	84	18	.006
87-DH-5 7	5	67	36	65	.7	6	16	60	54	24	.007
87-DH-5 8	2	102	120	342	1.1	5	14	127	30	20	.005
87-DH-5 9	2	100	57	454	1.3	6	18	93	32	25	.005
87-DH-5 10	20	897	15	17	3.7	11	21	18	315	10	.045
87-DH-5 11	24	1108	46	21	4.3	18	40	16	387	13	.113
87-DH-5 12	4	121	14	9	.6	7	19	21	49	14	.006
87-DH-5 13	2	293	40	1516	1.4	6	18	27	69	11	.006
87-DH-5 14	3	1404	30	523	9.9	5	17	22	497	11	.013
87-DH-5 15	3	428	18	573	2.4	6	18	14	133	9	.007
87-DH-5 16	2	289	124	316	1.8	5	16	20	148	12	.006
87-DH-5 17	1	11	76	2	.5	2	3	10	20	31	.003
87-DH-5 18	1	9	35	2	.6	2	1	27	7	37	.004
87-DH-5 19	2	13	29	4	.6	1	1	19	10	70	.003
87-DH-5 20	1	8	19	1	.4	1	1	14	3	62	.002
STD C	18	59	37	133	7.2	67	28	1049	41	174	-

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU** BY FIRE ASSAY FROM 1/2 A.T.

DATE RECEIVED: JAN 28 1988 DATE REPORT MAILED: Feb 4/88 ASSAYER: C. Leong. D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

ENGLEFIELD RESOURCES File # 88-0243 Page 1

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	AS PPM	BA PPM	AU** OZ/T
87-DH-7 1	1	264	14	130	.5	6	15	483	48	37	.003
87-DH-7 2	1	134	3	75	1.0	10	18	934	17	56	.011
87-DH-7 3	2	148	8	212	.8	9	19	986	20	61	.013
87-DH-7 4	1	215	9	168	.3	12	21	783	21	55	.002
87-DH-7 5	1	361	7	112	.2	15	21	737	12	45	.001
87-DH-7 6	1	169	5	143	.1	14	21	814	9	36	.001
87-DH-7 7	1	441	14	228	.3	15	23	866	31	40	.002
87-DH-7 8	1	95	6	138	.1	14	19	682	15	25	.001
87-DH-7 9	3	650	25	216	.9	9	20	233	182	15	.006
87-DH-7 10	2	148	11	123	.1	15	25	582	15	40	.002
87-DH-7 11	1	117	13	144	.1	14	21	591	6	36	.001
87-DH-7 12	5	1516	11	148	.9	9	18	428	16	30	.006
87-DH-7 13	5	346	34	20	.5	10	20	103	89	12	.004
87-DH-7 14	6	367	23	34	1.8	7	23	81	140	10	.009
87-DH-7 15	8	777	54	200	1.8	8	23	79	284	11	.014
87-DH-7 16	2	181	25	25	.9	6	21	81	54	11	.003
87-DH-7 17	4	568	96	1117	3.9	6	19	66	155	13	.006
87-DH-7 18	2	295	33	676	2.4	7	21	78	82	13	.004
87-DH-7 19	2	86	26	18	.7	6	20	68	28	10	.003
87-DH-7 20	2	313	24	21	.7	7	18	60	102	13	.005
87-DH-7 21	2	219	15	27	.6	6	21	53	54	14	.004
87-DH-7 22	1	267	4	142	.3	12	21	889	5	57	.003
87-DH-7 23	1	228	9	113	.3	10	21	668	13	60	.002
87-DH-7 24	6	177	22	21	.9	5	20	64	50	12	.005
87-DH-7 25	4	122	90	20	.6	6	21	84	47	13	.007
87-DH-7 26	2	74	31	9	.4	5	21	80	25	7	.003
87-DH-7 27	4	166	65	18	.9	5	21	64	58	11	.008
87-DH-7 28	10	1265	115	104	5.3	5	17	68	404	13	.024
87-DH-7 29	1	50	21	187	.1	35	16	715	27	101	.002
87-DH-7 30	3	215	37	24	1.5	7	18	97	64	10	.008
87-DH-7 31	2	234	41	17	1.5	5	18	61	93	7	.010
87-DH-7 32	7	819	27	31	2.2	7	26	79	333	5	.016
87-DH-7 33	21	749	48	34	2.5	9	32	117	311	6	.023
87-DH-7 34	5	411	33	12	1.8	8	27	67	169	5	.017
87-DH-7 35	10	2563	52	32	7.0	11	29	97	1016	6	.056
87-DH-7 36	5	879	40	25	2.3	6	20	76	350	8	.027
STD C	19	58	38	132	7.2	68	29	1062	41	177	-

ENGLEFIELD RESOURCES FILE # 88-0243

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	AS PPM	BA PPM	AU** OZ/T
87-DH-7 37	4	684	17	53	2.4	6	14	58	278	14	.013
87-DH-7 38	2	184	21	211	1.2	5	18	1190	98	38	.007
87-DH-7 39	2	1114	13	153	1.3	6	16	1133	125	31	.004
87-DH-7 40	2	74	3	83	.2	7	19	1496	41	68	.002
87-DH-7 41	1	77	5	76	.3	6	18	1351	52	78	.001
87-DH-7 42	2	54	3	62	.1	8	18	1080	38	83	.001
87-DH-7 43	2	59	3	117	.2	6	19	1396	43	53	.001
87-DH-7 44	2	75	5	218	.2	6	19	1910	51	51	.001
87-DH-7 45	2	84	9	250	.4	5	15	2939	123	38	.002
87-DH-7 46	2	77	8	163	.4	4	18	2319	77	28	.001
87-DH-7 47	2	58	11	173	.5	4	14	2068	80	40	.002
87-DH-7 48	2	70	9	169	.2	5	16	1643	58	47	.002
87-DH-7 49	1	67	2	186	.2	4	15	2155	42	63	.001
87-DH-7 50	2	79	12	141	.5	5	15	2363	73	71	.002
87-DH-7 51	2	70	16	209	.3	4	11	2827	46	40	.001
87-DH-7 52	2	91	41	316	.7	5	17	1484	89	38	.001
87-DH-7 53	2	83	38	266	.7	4	14	1637	63	40	.002
87-DH-7 54	2	71	10	102	.3	4	14	1606	23	38	.001
87-DH-7 55	3	74	18	169	.6	5	19	2052	56	39	.002
87-DH-8 1	8	25	230	125	.6	1	5	279	192	52	.003
87-DH-8 2	13	26	133	191	.2	6	5	649	246	76	.003
87-DH-8 3	9	42	312	183	.2	6	5	761	188	97	.003
87-DH-8 4	5	339	96	560	.4	12	19	1133	58	31	.001
87-DH-8 5	5	395	32	547	.6	17	24	506	56	23	.003
87-DH-8 6	5	2100	54	475	4.1	13	23	613	116	23	.009
87-DH-8 7	3	143	25	264	.5	14	20	554	43	26	.004
87-DH-8 8	2	90	21	135	.3	12	20	692	28	30	.002
87-DH-8 9	2	139	73	470	.5	9	19	855	38	38	.001
87-DH-8 10	3	295	40	1506	.7	6	18	954	32	31	.002
87-DH-8 11	3	442	22	814	.9	5	16	989	27	44	.002
87-DH-8 12	5	141	15	331	.5	6	18	1007	39	35	.003
87-DH-8 13	4	122	11	210	.5	5	15	1024	10	31	.002
87-DH-8 14	4	213	157	450	1.1	6	19	671	33	31	.003
87-DH-8 15	3	86	19	197	.2	9	18	230	26	27	.002
87-DH-8 16	3	106	14	31	.3	8	22	130	21	23	.002
87-DH-8 17	2	81	9	43	.2	6	19	378	9	36	.001
STD C	19	58	39	132	7.4	68	28	1060	44	178	-

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	AS PPM	BA PPM	AU** OZ/T
87-DH-8 18	2	34	2	87	.1	6	18	174	8	40	.003
87-DH-8 19	6	32	6	53	.1	5	18	99	8	30	.002
87-DH-8 20	5	25	6	23	.1	7	19	59	7	31	.003
87-DH-8 21	7	18	8	6	.1	4	13	29	9	30	.003
87-DH-8 22	6	38	7	42	.1	8	22	48	25	26	.002
87-DH-8 23	5	125	11	35	.3	11	24	74	44	22	.002
87-DH-8 24	4	77	25	20	.1	26	17	51	21	31	.003
87-DH-8 25	6	206	119	1019	1.0	18	17	39	16	25	.002
87-DH-8 26	8	1365	21	72	2.1	10	17	51	44	24	.004
87-DH-8 27	5	98	34	62	.5	12	20	63	34	27	.001
87-DH-8 28	14	186	60	227	1.5	21	21	59	92	18	.003
87-DH-8 29	2	55	23	18	.3	10	19	69	31	10	.001
87-DH-8 30	7	101	38	443	.7	9	23	82	38	14	.002
87-DH-8 31	2	191	18	53	1.4	16	24	100	80	28	.003
87-DH-8 32	2	54	17	33	.5	9	20	88	24	25	.002
87-DH-8 33	4	88	30	23	.6	16	21	73	38	7	.001
87-DH-8 34	4	76	33	199	.3	17	23	104	35	21	.002
87-DH-8 35	4	57	16	18	.2	19	21	44	21	27	.001
87-DH-8 36	7	75	20	38	.2	5	15	49	20	22	.001
87-DH-8 37	8	6862	829	1011	44.4	5	21	94	2367	5	.009
87-DH-8 38	3	105	35	37	1.1	17	18	70	44	18	.003
87-DH-8 39	2	288	19	46	1.2	11	18	71	106	17	.002
87-DH-8 40	1	173	11	40	.5	5	20	170	59	17	.002
87-DH-8 41	2	38	12	8	.1	6	21	63	14	14	.002
87-DH-8 42	2	46	6	11	.2	8	19	70	18	13	.001
87-DH-8 43	2	168	2	18	.1	5	19	142	48	14	.001
87-DH-8 44	1	185	9	16	.2	7	20	120	75	10	.003
87-DH-8 45	2	35	2	6	.1	7	24	63	13	8	.001
87-DH-8 46	3	29	4	5	.1	4	18	49	10	14	.002
87-DH-8 47	2	213	4	22	.1	8	26	213	35	8	.004
87-DH-8 48	2	208	2	37	.1	7	25	353	38	10	.004
87-DH-8 49	2	325	3	60	.3	4	18	528	108	15	.010
87-DH-8 50	2	190	7	24	.1	5	16	235	35	16	.002
87-DH-8 51	1	71	2	5	.1	5	15	49	10	27	.001
STD C	18	58	42	132	7.2	67	29	1059	44	177	-

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	AS PPM	BA PPM	AU** OZ/T
									%		
87-DH-9-2	2	422	41	374	.3	9	19	1106	16	65	.003
87-DH-9-3	9	1446	80	3819	13.2	9	20	292	411	17	.010
87-DH-9-4	20	4696	351	22253	51.5	6	15	92	1194	22	.011
87-DH-9-5	11	431	37	1	1.5	6	17	68	156	23	.009
87-DH-9-6	4	135	29	336	.5	6	17	545	80	30	.007
87-DH-9-7	2	68	6	79	.1	4	17	441	38	59	.003
87-DH-9-8	5	67	15	20	.2	5	18	105	44	30	.004
87-DH-9-9	2	102	44	234	.3	6	17	905	50	43	.002
87-DH-9-10	3	64	19	136	.3	5	15	1784	37	48	.002
87-DH-9-11	1	70	14	197	.2	5	14	1421	29	62	.006
87-DH-9-12	1	105	7	238	.4	6	15	1367	41	65	.002
87-DH-9-13	2	137	18	337	.7	5	15	1389	68	48	.003
87-DH-9-14	2	72	14	206	.6	4	14	1438	40	46	.001
87-DH-9-15	1	60	35	218	.3	4	14	1674	29	37	.003
87-DH-9-16	4	67	52	236	.7	4	14	1571	55	31	.002
87-DH-9-17	4	65	57	168	1.0	5	14	855	57	44	.003
87-DH-9-18	4	7113	1448	1863	122.5	4	15	139	2392	26	.046
87-DH-9-19	4	725	90	1451	5.7	11	14	454	202	25	.005
87-DH-9-20	1	52	13	100	.4	28	10	422	32	18	.001
87-DH-9-21	2	88	146	422	.9	16	14	614	51	48	.002
87-DH-9-22	2	71	160	178	.8	11	14	730	34	33	.002
87-DH-9-23	2	51	55	121	.4	4	15	1131	34	21	.002
87-DH-9-24	2	64	179	268	.6	7	15	1526	41	18	.002
87-DH-9-25	1	103	11	151	.1	13	18	2618	49	13	.001
87-DH-9-26	2	104	51	130	.7	10	16	1946	49	19	.001
87-DH-9-27	1	46	25	46	.6	4	13	1476	27	31	.001
87-DH-9-28	1	47	25	30	.7	3	13	589	29	29	.001
87-DH-9-29	1	57	126	274	2.1	4	12	560	34	26	.001
87-DH-9-30	2	82	516	1343	3.4	8	16	406	46	22	.002
87-DH-9-31	1	96	59	145	1.2	6	16	258	45	26	.001
87-DH-9-32	2	93	52	58	1.1	7	18	422	44	22	.002
87-DH-9-33	2	108	104	194	1.6	7	19	357	54	23	.001
87-DH-9-34	1	96	73	107	1.5	6	17	317	44	26	.001
87-DH-9-35	2	161	175	719	2.5	6	19	126	69	25	.002
87-DH-9-36	10	131	31	44	1.1	5	17	76	56	18	.005
87-DH-9-37	4	90	15	10	.3	6	18	77	43	31	.009
STD C	19	63	38	132	7.6	68	30	1162	41	178	-

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	AS PPM	BA PPM	AU** OZ/T
87-DH-9-38	6	974	40	20	2.9	4	16	63	377	10	.016
87-DH-9-39	7	1494	20	36	4.1	7	21	279	565	8	.024
87-DH-9-40	6	943	32	46	2.7	5	19	76	375	12	.013
87-DH-9-41	5	1598	63	611	12.1	3	16	72	648	10	.012
87-DH-9-42	6	1330	338	4331	13.9	4	17	94	555	11	.007
87-DH-9-43	10	296	470	1479	9.7	7	19	526	148	19	.007
87-DH-9-44	1	67	19	211	.9	6	15	1492	43	37	.003
87-DH-9-45	5	419	149	256	6.9	6	24	379	182	15	.004
87-DH-9-46	1	89	16	233	.7	7	18	1239	48	35	.002
87-DH-9-47	2	99	12	341	.5	5	18	942	57	32	.001
87-DH-9-48	3	248	22	393	.9	8	19	737	106	19	.007
87-DH-9-49	1	332	14	106	1.2	7	18	379	157	25	.006
87-DH-9-50	2	159	40	623	1.6	6	15	541	84	26	.004
87-DH-9-51	1	93	5	240	.6	5	14	1540	44	48	.003
87-DH-9-52	3	73	5	108	1.3	5	17	1226	46	45	.002
87-DH-9-53	1	75	2	64	.4	6	16	1113	38	58	.002
87-DH-9-54	2	74	17	143	.7	9	21	1092	58	36	.001
87-DH-9-55	1	83	9	190	.4	8	19	1466	44	38	.001
87-DH-9-56	1	74	5	249	.4	6	19	851	35	28	.001
STD C	18	62	38	131	7.3	66	28	1068	42	177	-

& Company Ltd
tion Ave
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V7P 2R5
(604) 985-0681
04-352667

BONDAR-CLEGG

Certificate of Analysis

REPORT: V88 00958.4

PROJECT: NONE GIVEN PAGE 1

FIRE CREEK - COCKE 085-075

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
D2 87DH-1 55		0.012	0.02
D2 87DH-1 56		0.019	0.06
D2 87DH-1-57		0.054	0.24
D2 87DH-1-58		0.026	0.20
D2 87DH-1-59		0.033	0.16
D2 87DH-1-60		0.116	0.15
D2 87DH-3-87		0.044	0.09
D2 87DH-3-88		0.023	0.07
D2 87DH-3-89		0.028	0.13
D2 87DH-3-90		0.007	0.05
D2 87DH-3 91		0.020	0.10
D2 87DH-4 9		0.008	0.06
D2 87DH-4-10		0.025	0.10
D2 87DH-4 33		0.019	0.08
D2 87DH-4-34		0.036	0.11
D2 87DH-4-35		0.026	0.09
D2 87DH-4-37		0.062	0.12
D2 87DH-4-38		0.014	0.03
D2 87DH-5-9		0.004	0.04
D2 87DH-5-10		0.028	0.04
D2 87DH 5-11		0.089	0.11
D2 87DH 5 12		0.008	0.02
D2 87DH 7-27		0.012	<0.02
D2 87DH 7 28		0.033	0.16
D2 87DH-7-33		0.007	0.09
D2 87DH-7-34		0.021	0.06
D2 87DH 7 35		0.060	0.26
D2 87DH-7 36		0.028	0.11
D2 87DH-9 17		0.006	0.06
D2 87DH-9-18		0.023	1.13
D2 87DH 9 19		0.007	0.33
D2 87DH-9-38		0.017	0.04
D2 87DH-9 39		0.025	0.11
D2 87DH 9 40		0.017	0.09
D2 87DH-9 41		0.016	0.35

Page Issued Assayer, Province of British Columbia

HYCROFT RESOURCES & DEVELOPMENT CORP.

— FIRE CREEK PROPERTY —

GEOLOGY & GOLD GEOCHEMISTRY

NEW WESTMINSTER MINING DIVISION — BRITISH COLUMBIA, N.T.S. 92 G/16E

TO ACCOMPANY MINERAL ASSESSMENT REPORT DATED JAN. 20/1986

PREPARED BY J.M.T. SERVICES CORP.

20 10 0 20 40 60metres

1 : 1000

SURVEY BY HIPCHAIN AND COMPASS WITH CONTROL FROM 1:50,000 TOPOGRAPHIC MAPS AND AIR PHOTOGRAPH. SLOPE CORRECTIONS HAVE NOT BEEN MADE FOR THE PURPOSE OF ILLUSTRATING GEOLOGY AND SAMPLING IN THE STEEP CANYON AT FIRE CREEK.

FIGURE 4

GEOLOGY LEGEND:

- 5 — ANDESITIC TUFF
- 4 — SERICITE SCHIST
- 3 — FELDSPAR CRYSTAL TUFF
- 2 — SCAPOLITE SCHIST
- 1a/1b — SHALE/ANDESITIC TUFF
- P — > 10% PYRITE
- B — BLEACHING WITH PYRITE
- S — SILICIFICATION
- J — JASPEROID
- FAULT
- GEOLOGICAL CONTACT
- OUTCROP PATTERN
- STRIKE AND DIP OF FOLIATION
- CLIFF EDGE, INACCESSIBLE
- BREAK IN SLOPE
- DDH — DIAMOND DRILL HOLE PROJECTED TO SURFACE

GEOCHEMISTRY LEGEND:

- △ — ROCK CHIP SAMPLE LOCATION
- ○ — SOIL SAMPLE LOCATION
- C600 — SAMPLE NUMBER
- 190 — P.P.B. — Au
- ▲ — > 99 P.P.B. Au
- 100 P.P.B. Au IN SOILS

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,508

1733 (1) LELA 5N 4W | 1734 (1) FIRE 5N 4E

L.C.P. HADES 1094 (10) 2S 3W | L.C.P. BRIMESTONE 1093 (10) 3S 3W

L.C.P. L.C.P.

POSSIBLE DRILL ACCESS

DRILL ACCESS

INACCESSIBLE RUSTY BLUFFS

INACCESSIBLE RUSTY BLUFFS

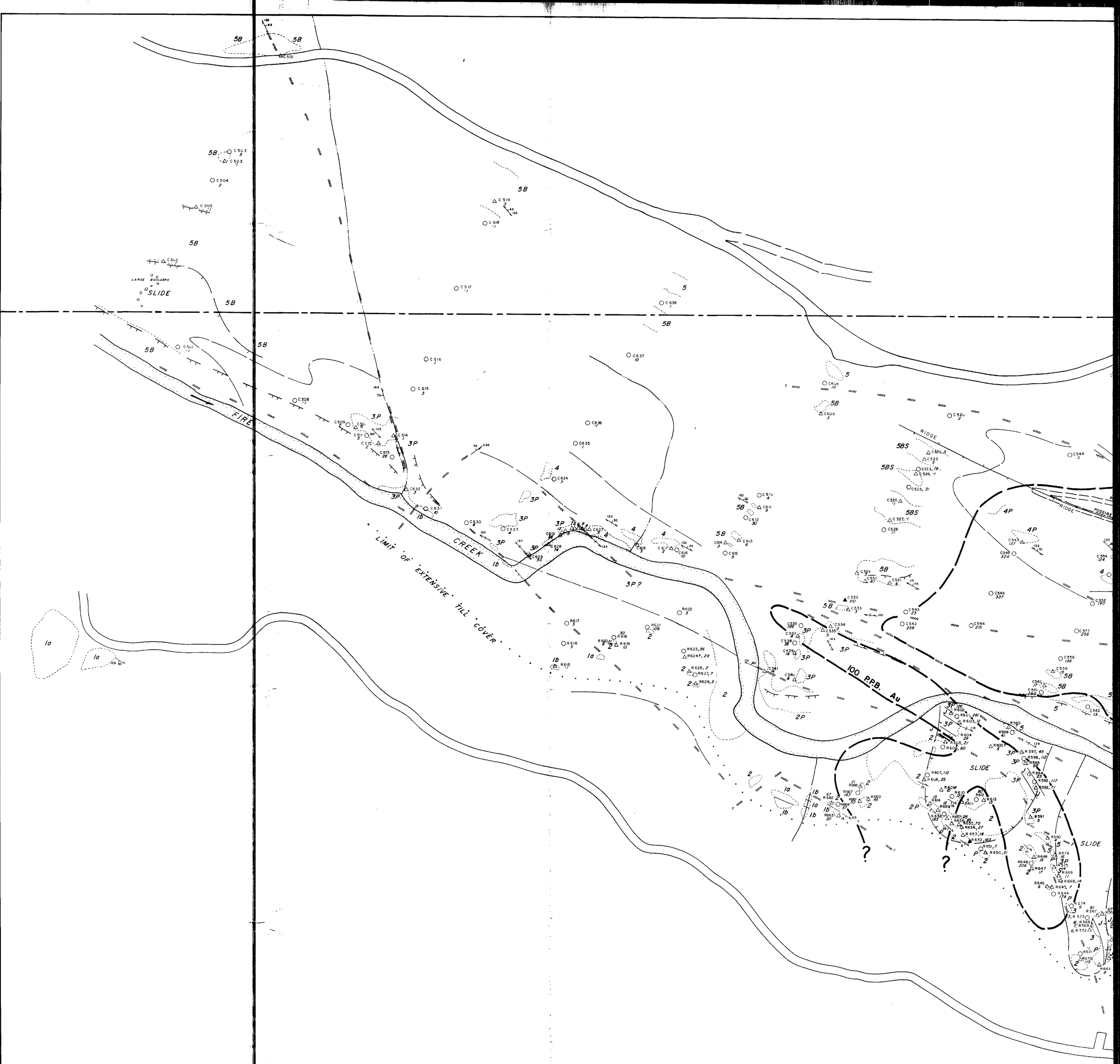
LIMIT OF TILL COVER

FIRE CREEK

DYKE

SLIDE

100 P.P.B. Au


5B
C501
C502
C503
C504
C505
C506
LARGE BOULDERS
SLIDE
C507
C508
C509
C511
C514
C516
C515
C572
C573
3P
C632
C631
C634
C635
C636
C637
C638
C517
C518
C519
C610
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C615
C616
C617
C618
C627
C628
C629
C630
C633
C619
4
1b
1a
LIMIT OF EXTENSIVE TILL COVER
CREEK
3P?
2P
2
5
C609
C520
RIDGE
5BS
C521
C522
C523
C524
C525
C526
C527
C528
4P
C541
C542
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C541
100 P.P.B. Au
C557
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C562
R617
R618
R619
R620
R621
R622
R623, 36
R624F, 29
R625, 2
R627, 7
R628, 5
R615
R516
R603
R604
R605, 21
R606, 90
R607, 112
R608, 25
R609F
R610
R611
R612
R613
R614
R653
R657, 26
R656, 25
R655, 70
R654, 27
R652, 163
R651, 7
R650, 31
R666
R667
R662
R664
R660
R661
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