GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL

AND DIAMOND DRILLING REPORT

TAKLA-RAINBOW PROPERTY

TAKLA	5964	(11)	TWIN 1	3256	(7)
RAINBOW	5965	(11)	TWIN 2	3957	(7)
T.R.A.	6293	(6)	TWIN 3	3958	(7)
T.R.B.	7284	(9)	TWIN 4	3959	(7)
T.R.C.	7113	(7)	TWIN 5	3960	(7)
T.R.D.	7396	(10)	TWIN 6	3961	(7)
T.R.E.	7377	(11)			
T.R.F.	7378	(11)			
T.R.G.	7524	(3)			

OMINECA MINING DIVISION

N.T.S. 93N/11 55°39'N, 125°17'W

IMPERIAL METALS CORPORATION
R. PESALJ, FEBRUARY 1988

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SUMMARY

The Takla-Rainbow gold property of Cathedral Gold Corporation is located in North Central British Columbia, with a road access from Manson Creek, approximately 62 kilometers to the east.

The general area is underlain by Lower to Middle Mesozoic volcanic and intrusive rocks that lie within the Quesnel Trough and represented by Takla volcanics and intrusive phases of the Hogen Batholith. Pinchi Fault and Permian Cashe Creek rocks lie approximately nine kilometers to the west of the property. Major mineral occurences in the area are Lustdust massive sulphide deposit located 12 kilometers to the southwest, numerous mercury and gold showings along the Pinchi Fault and a number of porphyry copper occurences, one of them located on the property. The area is an active placer mining camp known from the start of the century.

The property has been actively explored by Imperial Metals Corporation since 1983, when the first ground was staked as a result of a regional geochemical program along the Pinchi Fault. Ground work during the four field seasons followed and included geochemical, geological and geophysical surveys and diamond drilling. These programs were successful in locating and delineating an anomalous northwest-southeast trend with a strike length of over three kilometers.

To date, a total of 41 holes (8,102 m) were completed on the property, concentrating on the northwestern section of the anomalous trend. Geological reserves on the property are 220,000 tons grading 0.40 oz/ton, with an average width of 1.5 meters. Gold mineralization is spatially and probably genetically related to intrusive granitic porpyhry stocks and dykes near the contact between Hogem Batholith and Takla volcanics. Mineralization is in the form of veinlets and disseminations of quartz, native gold, pyrite, chalcopyrite, carbonates, sericite, chlorite and minor magnetite, galena, sphalerite and specular hematite. The mineralization is confined to subvertical zones marked by micro-shearing, intense fracturing, pyritization, carbonitization and silicification.

A program consisting of 4,500 meters of diamond drilling, VLF and induced polarization survey is recommended for the 1988 field season to further delineate mineralized zones and to continue testing anomalous geochemical and geophysical trend.

1.0 INTRODUCTION

This report pertains to the field exploration program conducted on the Takla-Rainbow gold property by Imperial Metals Corporation for Cathedral Gold Corporation between June 25 and October 30, 1987.

The exploration program was carried out from two camps on the property with support by Okanagan Helicopters out of their field base at Tsayta Lake for the first camp. For the second camp an access road was built by Lakeview Holdings Ltd. from Fort St. James. Expediting and logistic support for both camps was provided by Mr. Clarence Hogan from Tsayta Lake Lodge. Diamond drilling from the fly camp was carried out by Drillcor Industries Ltd. from Delta and from the main camp by J.T. Thomas Drilling from Smithers. Geophysical induced polarization survey was conducted by Scott Geophysics Ltd. of Vancouver.

2.0 LOCATION, ACCESS, TOPOGRAPHY

The Takla-Rainbow gold property is located in the North Central British Columbia, near the headwaters of Twin Creek, approximately 48 km west of Manson Creek and 156 km northeast of Smithers (Figure 1). The centre of the property is at 55° 39'N latitude, 125° 17'W longitude on NTS map sheet 93N/11, Omineca Mining Division.

The all-weather gravel Manson Creek to Takla Landing road passes to within 14.2 kilometers of the main camp. A new four wheel drive road connects the main camp on the property to the all-weather road.

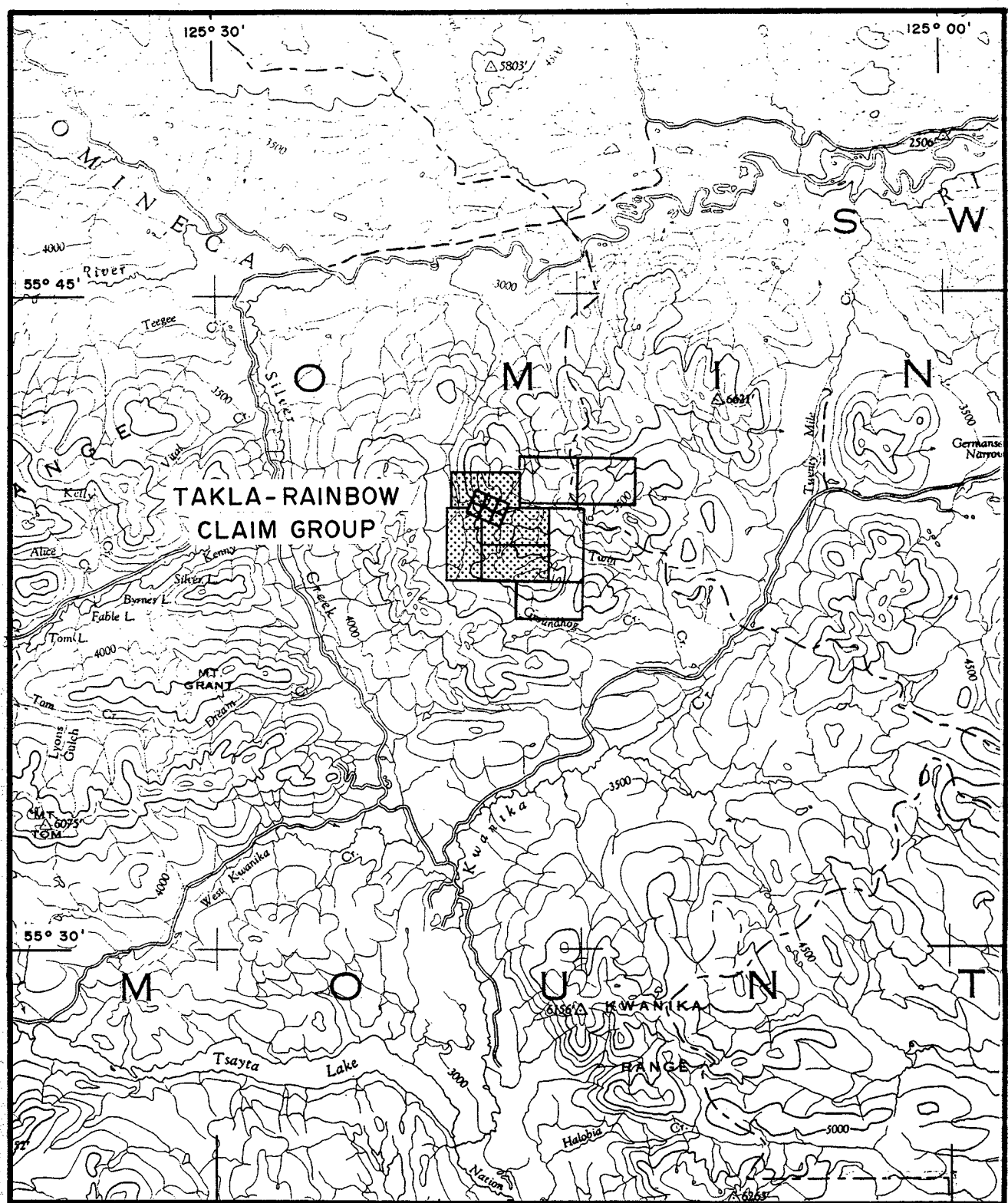
The central part of the property is dominated by a broad Twin Creek valley that rises into mountains to the north and south. Elevations on the property range from 1,450 m at the south to 1,800 m at the north end. Semi-open coniferous forest at the lower reaches and alpine conditions at higher elevations prevail throughout the area.

3.0 THE PROPERTY

The Takla-Rainbow property consists of the following contiguous claims: (Figure 2).

Claim	Record No.	# of Units	Owner of Record	Recorded
Takla	5946 (11)	18	Cathedral Gold Corporation	Nov 14, 1983
Rainbow	5965 (11)	18	Cathedral Gold Corporation	Nov 14, 1983
T.R.A.	6293 (06)	18	Cathedral Gold Corporation	Jun 22, 1984
T.R.C.	7113 (07)	18	Cathedral Gold Corporation	Jul 04, 1985
Twin 1	3956 (07)	1	Neil Scafe	Jul 22, 1981
Twin 2	3957 (07)	1	Lorne B. Warren	Jul 22, 1981
Twin 3	3958 (07)	1	Lorne B. Warren	Jul 22, 1981
Twin 4	3959 (07)	1	Neil Scafe	Jul 22, 1981
Twin 5	3960 (07)	1	Neil Scafe	Jul 22, 1981
Twin 6	3961 (07)	1	Lorne B. Warren	Jul 22, 1981
T.R.B.	7284 (09)	18	Cathedral Gold Corporation	Sept 9, 1985
T.R.D.	7396 (10)	18	Cathedral Gold Corporation	Oct 31, 1985
T.R.E.	7377 (11)	20	Cathedral Gold Corporation	Nov 01, 1985
T.R.F.	7378 (11)	20	Cathedral Gold Corporation	Nov 01, 1985
T.R.G.	7524 (03)	5	Cathedral Gold Corporation	Mar 07, 1985

The Twin 1-6 claims are presently held by Cathedral Gold Corporation under an agreement with Kengold Mines and Neil Scafe signed on March 1, 1985, whereby the vendors are entitled to a total of $100,000 in option payments to 1990 and will retain 7.5% net profit interest in the Twin claims and all ground held by the vendee within 1.5 km of the Twin claims property boundaries. All other claims are owned by Cathedral Gold Corporation.



CATHEDRAL GOLD CORPORATION

TAKLA - RAINBOW

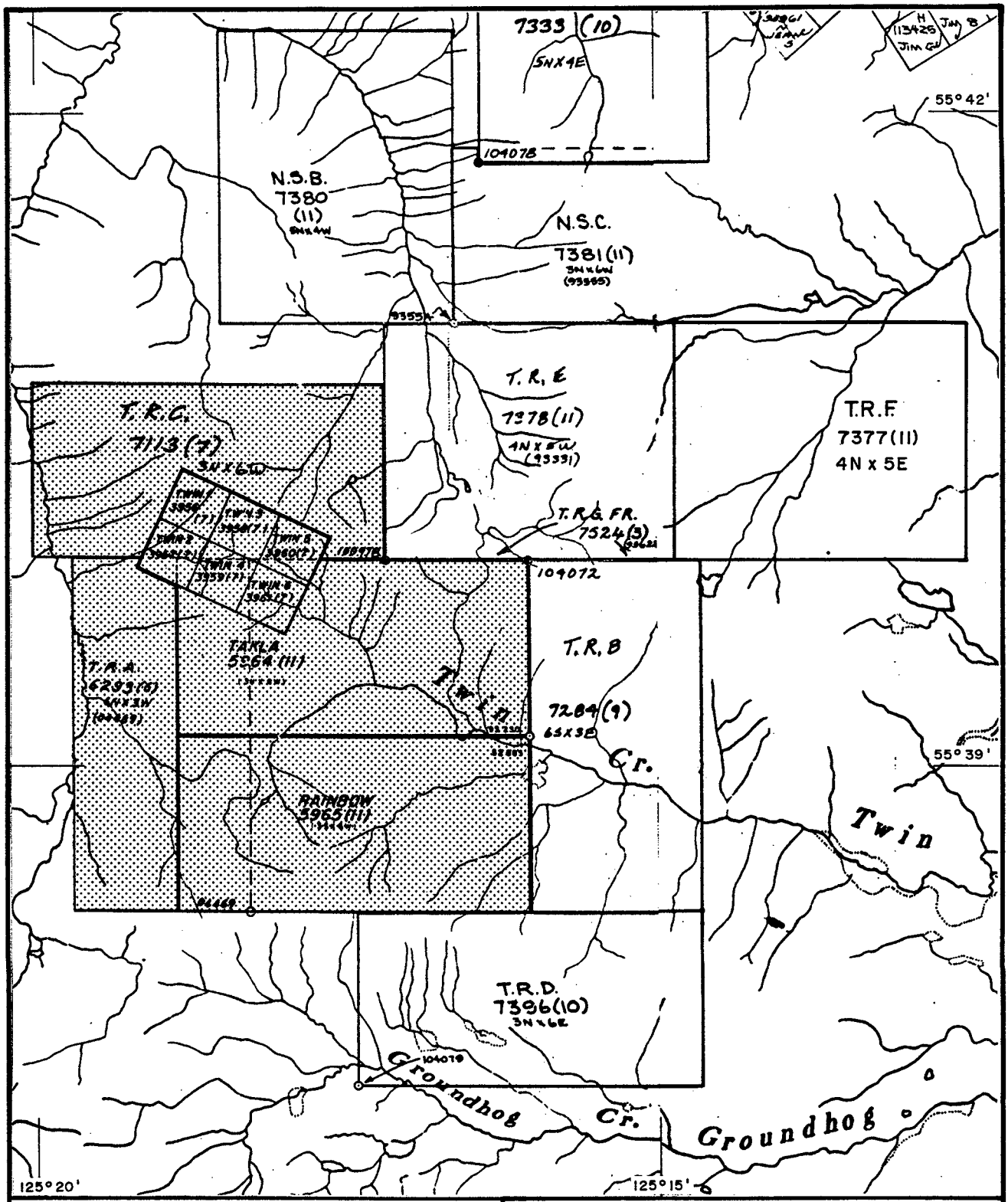
FIGURE 1 N.T.S. 93N

LOCATION MAP

Kms 0

SCALE: 1:250 000

DATE: DECEMBER 1986



CATHEDRAL GOLD CORPORATION

TAKLA - RAINBOW

FIGURE 2 N.T.S. 93N/11E & W

CLAIM MAP

Km 1 0 1 2 Km

SCALE: 1:50 000	GEOLOGIST: R. PESALJ
DATE: JANUARY 1987	DRAWN BY: S. HAWORTH

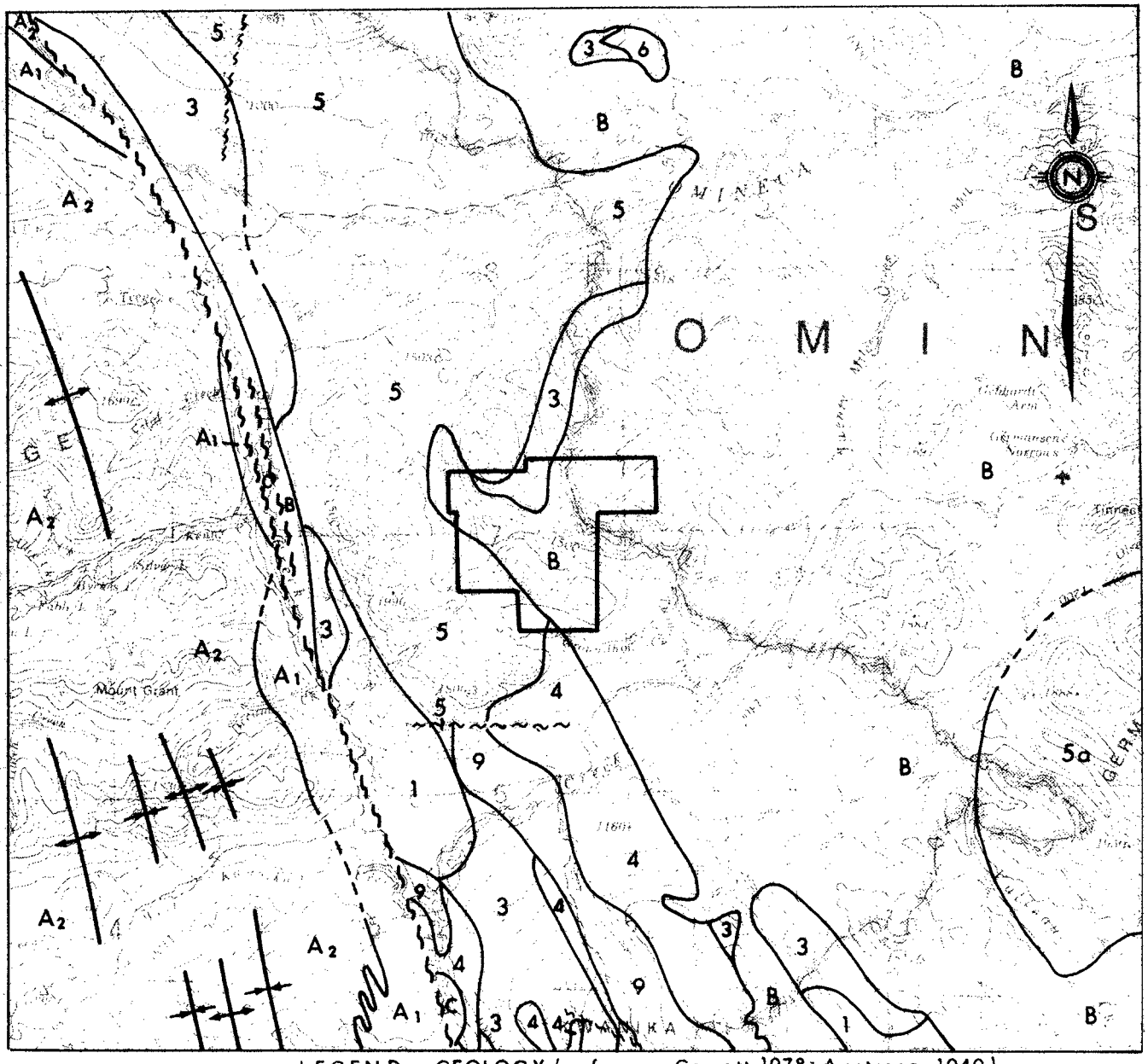
4.0 REGIONAL GEOLOGY

The general area of the Takla-Rainbow property is underlain by Lower to Middle Mesozoic volcanic and intrusive rocks of the Quesnel Trough, a graben lying between the Pinchi fault zone to the west and the Manson Fault zone to the east (Figure 3).

The area west of Pinchi Fault zone is underlain by Permian Cache Creek Group rocks, consisting of siliceous and argillaceous sediments with lesser amounts of massive limestone.

East of the Pinchi Fault are rocks of the Takla Group (units B, C) and Hogem Batholith (Units 1-9). The Takla Group is about 7500 m thick and consists of a conformable succession of Upper Triassic sediments and tuffs in the lower part and (Lower Jurrasic?) flows in the upper part. Unit B includes andesitic and basaltic flows, tuffs, breccias and agglomerates which are commonly cut by pyroxene and feldspar porphyry dykes. Lesser amounts of conglomerate, shale, greywacke and limestone also occur sporadically. Coal is reported (Armstrong 1949) to occur within the Takla Group at Discovery Creek about 23 km north-northeast of the Takla-Rainbow property. Unit C includes the Upper Triassic sediments - interbedded argillite, siltstone, shale, greywacke and tuff with local thick beds of conglomerate and limestone.

The Hogem Batholith has been divided into three phases of intrusive activity by Garnet (1978). Phase I is dated as Upper Triassic to Lower Jurassic and represents intrusive equivalents of the Takla volcanics. Phase II occured during the Lower to Middle Jurassic, while Phase III took place in the Upper Cretaceous. In the map area, Phase I is represented by units 1, 3, 4 and 5. Units 1, 3 and 4 are a mafic suite of rocks consisting of dark grey, medium to coarse grained diorite (Unit 1); plagioclase porphyritic pyroxene - biotite hornblende - biotite monzonite (Unit 4). Unit 1 commonly contains up to 5% magnetite and is thus strongly magnetic. Units 3 and 4 generally occur as gradational zones between the more mafic margins of the batholith and its granodioritic core. Unit 5 is the most widespread unit of the Hogem Batholith. It is actually a group of chemically similar, leucocratic, quartz-bearing felsic rocks. Granodiorite and quartz monzodiorite predominate but the composition ranges from tonalite to granite. The rocks are medium to coarse grained, locally porphyritic, and contain grey fine-grained xenoliths.



LEGEND - GEOLOGY (reference Garnett, 1978; Amstrong, 1949)

PHASE III

Lower Cretaceous

HOGEM BATHOLITH

9 granite, quartz syenite, alaskite

PHASE II

Lower / Middle Jurassic

6 mainly foliated, migmatitic syenite

PHASE I

Upper Triassic / Lower Jurassic

5 granodiorite, quartz monzodiorite

5a: Germansen Batholith - granodiorite, quartz diorite.

4 monzonite, quartz monzonite

3 monzodiorite, quartz monzodiorite

1 diorite; minor gabbro

TAKLA GROUP

C mainly interbedded black argillite, brown siltstone, and shale; minor limestone.

B mainly andesitic and basaltic volcanic flows, tuffs, breccias, and agglomerates.

Permian

CACHE CREEK GROUP

A_2 ribbon chert, argillaceous quartzite, argillite, slate, greenstone, limestone

A_1 massive limestone, dolomite; minor gabbro, serpentinite.

SYMBOLS

- Geological contact (approx., assumed)
- Pinchi Fault Zone
- Fracture trace (inferred)
- Syncline
- Anticline

0 5 10 km

CATHEDRAL GOLD CORP.

REGIONAL GEOLOGY
TAKLA - RAINBOW PROPERTY
OMINECA MINING DIVISION

Project No:	V 258 d	By:	T. N.
Scale:	1 : 250 000	Drawn:	J. S.
Drawing No:	3	Date:	MAY 1987.

The Germansen Batholith (Unit 5a) is composed of granodiorite, quartz diorite and minor granite. It is of Jurassic to Cretaceous age.

Phase II rocks in the map area consist of a small outlier of Unit 6 foliated syenite. The main area of Phase II rocks lies to the north of the map in the Duckling Creek - Haha Creek area.

Phase III consists of Unit 9 granite and alaskite bodies intruding earlier intrusives as well as abundant alaskite and aplite dykes.

The Pinchi Fault zone is the most important structural feature in the region. The zone is locally up to 300 m wide and has at least two periods of movement.

Regional folding of the Cache Creek Group rocks is tight and trends in a northwesterly direction. Folding of the Takla Group is more open and trends west to northwest. The Takla rocks are less foliated than the older Cache Creek rocks.

Numerous mercury deposits and showings occur along the Pinchi fault zone. The largest, the Pinchi Lake Mine, located 130 km southeast of the Takla Rainbow property, produced over 1,800,000 kg of Hg from 1940 - 1944. Most of other mineral occurences in the area are porphyry copper $\pm$ molybdenum style showings in or near the Hogem Batholith. The twin showing located on the west side of the Twin claims is of the same type. Garnet (1978) states that porphyry Cu $\pm$ Mo mineralization in or near Hogem Batholith is associated mainly with Phase II and Phase III intrusions. Units 1 and 3 of Phase I have minor pyrite-chalcopyrite-magnetite mineralization, whereas metallic mineralization is essentially absent from Unit 5. The Lustdust massive sulphide deposit, located 12 km southwest of Takla-Rainbow property contains 327,226 tonnes grading 2.6 g/t An, 55 g/t Ag and 2.7% Zn.

5.0 HISTORY OF PREVIOUS EXPLORATION

The region was first worked for placer gold. The first placer gold was discovered on Vital Creek, 10 km northwest of the Takla-Rainbow property in 1869. From 1874 to 1945 total gold production from the Omineca Mining Division was 1,492,362 g Au, the bulk of which came from Germansen and Manson Rivers. Presently, placer gold is produced from Twin Creek, Silver Creek, Kenny Creek, 20 Mile Creek and Vital Creek.

The Takla-Rainbow property area was extensively explored for porphyry copper between 1969 and 1973 when the Lorraine deposit, located 25 km to the north was investigated. First reference to Twin claims is in the B.C.D.M. Assessment Report #2501 by W.R. Bacon for the N.B.C. Syndicate in 1970. Exploration during this period was conducted mainly along the south facing slope north of the present drilling on the TR West grid and included geochemical soil sampling and detail mapping. These surveys outlined a strong copper anomaly in soil trending south-easterly, parallel to the contact between the Hogem Batholith to the north and the Takla volcanics to the south. South of this anomaly, an apparently parallel zone of predominantly pyrite mineralization was recognized, but the copper values found in the soil did not justify further follow-up.

In 1971 Falconbridge Mines carried out more geochemical surveys, geophysics and drilling of anomalies and showings. The property was worked by Westrob Mines and Hudson Bay Mining in 1972 and 1973.

In July of 1981, the property was staked by Lorne Warren and Neal Scafe. Two samples from the trench on the property located approximately at 1+80E/1+15S on the TR West grid collected by the prospectors that returned 0.57 and 0.68 oz/ton Au, were first samples that indicated the presence of gold in the pyritic zone described earlier by W.R. Bacon. Examination of the property by Mattagami Lake Exploration, S..E.R.E.M. and Newmont followed, but apparently did not confirm the results obtained from the trench and the property remained idle until 1983. Amir Mines optioned the six Twin claims in 1983 and carried out two days of helicopter reconnaissance, prospecting and sampling in order to assess the gold potential of the various gossans in the area. A sample collected from the trench returned 0.015 oz/ton Au in a very pyritic, altered volcanic.

In 1983 Imperial Metals started a reconnaissance program along the Pinchi fault zone in an effort to evaluate the potential of the general area for lode gold mineralization. A reconnaissance stream traverse along the Twin Creek indicated anomalous samples not only in silts but also in soil samples collected along the banks. Takla and Rainbow claims were staked and in 1984 ground surveys, including detail soil coverage and mapping commenced. Ground surveys revealed anomalous gold and copper and located one mineralized outcrop with significant base and precious metal mineralization. Sampling of the trench on Twin claims returned 0.92 oz/ton Au in highly pyritic andesitic volcanic and the Twin claims were optioned in the spring of 1985. During the

1985 field season, ground suveys were extended over the western part of the property covering the eastern part of Twin claims. The surveys included detail mapping, soil sampling and induced polarization. Diamond drilling of the coinciding geochemical and geophysical anomaly led to a discovery of gold-silver-copper mineralization in four holes that tested the zone 550 meters along strike and 30 meters at depth. The best intersection was in DDH #4 yielding 0.53 oz/ton Au over 1.64 meters.

In 1986 the exploration program included drilling of fourteen holes on the main zone as well as detail coverage of the northern and southern sections of the property. The mineralized zone was tested over 700 meters strike with shallow holes spaced 100 meters, and found to be open at depth and on the east along the strike. The best intersection was in hole DDH #13 that returned 0.69 oz/ton Au over 1.5 meters. The results of detail surveys on the northern section were not encouraging, with sporadic gold and copper anomalies found in a predominantly Takla volcanic terrane.

6.0 1987 PROGRAM

The exploration program on the property by Imperial Metals in 1987 consisted of geochemical soil sampling, geophysical IP and VLF surveys, geological mapping and prospecting and diamond drilling. The main objectives of the program were: a) to continue testing mineralized zone on the TR West grid by diamond drilling; b) to test a strong geochemical anomaly on the TR South grid; c) to continue evaluation of the property by additional geophysical and geological surveys and prospecting in an effort to generate new drill targets.

The program focussed on two major target areas on the property along the anomalous trend delineated by work in 1984 - 1986 with a strike length of over three kilometers.

7.0 PROPERTY GEOLOGY

Mapping and general prospecting were conducted over the Takla-Rainbow property between August 5th and October 8, 1987, concentrating in two main areas of interest: TR West grid area, where gold mineralization was previously

delineated and traced over 700 meters along strike and TR South grid, where a strong geochemical soil anomaly and gold mineralization were discovered by detail work in 1986. Mapping was carried out in 1:5,000 scale over the central and northern section of the property and in 1:1,000 scale in the area of geochemical anomaly on the TRS grid. A total of 64 rock samples were collected by these surveys and analysed for 30 elements by the ICP method and gold by atomic absorption. Analytical work was performed by the Acme Analytical Lab in Vancouver. Figures 4, 5 and 22 represent geological maps and plans compiled as a result of drilling and surface mapping coverage during the last four field seasons. Results of analytical work on rock samples are presented in Appendix I of this report.

7.1 Lithology and Stratigraphy:

The outcrops on the Takla-Rainbow property are scarce and limited to tops of the hills or creek valleys. The area of recent drilling on the TR West grid lacks any rock exposures. On the TR south grid, outcrops are confined to the ridge that borders the grid on the west side.

7.1.1 Takla Volcanics:

Takla volcanics are the most common unit found in surface exposures and drill core on the property. Dominant volcanic rock is massive, fine grained or porphyritic andesite. Surface mapping of the property indicates that coarse porphyritic andesite dominates in the southern part of the property, whereas massive and fine grained porphyritic andesite underlies the central section. A distinctive sub-type of porphyritic andesite was mapped in the area north of Twin Creek. Other volcanic units encountered in the outcrops and drill core are basaltic flows and tuffs and coarse pyroclastics.

a) Andesite (Tacp, Tafp, Tasp)

The primary texture of massive andesite from drill core is often obscured by strong alteration, but it appears that it is made up of granular aggregate of subhedral to euhedral plagioclase of a grain size 0.1 - 0.4 mm. The blocky altered grains of plagioclase are cemented by a network matrix of intergranular fine grained chlorite. The plagioclase is strongly altered to fine grained sericite and lesser chlorite and carbonate and the original character of the grains is unclear. The rock is cut by veinlets of carbonate, which also occurs pervasively as

splashes and pockets throughout, though more abundant close to the veinlets. Epidote also occurs as disseminated constituent, but is mainly concentrated as localized, though rather diffuse vein-like zones of microbrecciation and alteration, particularly in the specimen from the TR West grid. Some epidote-rich zones contain abundant pyrite as clumps of euhedral-subhedral grains 0.05 - 0.5 mm in size. These often contain intergrown fine grained magnetite and traces of chalcopyrite. Some of the pyrite clusters have associated granular quartz and sparry carbonate. Carbonate veining seems to overlap the period of epidotization and sulphide introduction and some later carbonate veins clearly cross-cut the earlier alteration. Minor pockets of K-spar appear spatially related to some of the altered fracture zones and are presumably of introduced origin. The carbonate is mainly of dolomitic or ankeritic composition, but veinlets of calcite are also present.

Porphyritic andesite with abundant plagioclase and less commonly hornblende and augite phenocrysts is found throughout the property, coarse grained variety dominating in the southern part and finer grained in the central and northern sections. The coarse grained variety is characterized by phenocrysts or clasts to 2 cm across. The finer grained variety displays phenocrysts and volcanic clasts up to 0.2 cm across. An area north of Twin Creek is underlain by a distinctive porphyritic andesite which is characterized by prominent white plagioclase phenocrysts. Such phenocrysts give the rock a speckled appearance.

b) Basalt (Tb)

Rocks of basaltic composition are found throughout the property. Basalts seen in drill core are dark green, fine grained, massive or amygdaloidal flows, but in the outcrops they often represent bedded tuffaceous units. These flows and tuffs are generally thin, ranging from 1 to 5 meters, but drilling on the TR West grid indicates much thicker units. In the drill core these rocks are highly chloritic, and moderately to highly magnetic.

c) Rhyolite (Tr)

A small pyritic rhyolite unit mapped on the west side of the property is the only occurrence of felsic volcanics.

d) Pyroclastics (Tacp)

In addition to fine grained mafic tuffs that commonly occur within the Takla volcanics, coarse pyroclastics have been mapped and drilled on the TR South grid and southern section of the property. These units are green or maroon coloured and represented by lapilli tuff, agglomerate and volcanic breccia with clasts up to 0.5 m across. The clasts are usually angular and cemented by the same porphyritic andesite matrix as the massive volcanic units found in the southern section of the property.

The stratigraphic tops of Takla volcanics were determined from the amygdaloidal basaltic units drilled on the TR South grid. From drill core data the stratigraphic top of the volcanics in this locality is to the southwest. Dip and strike measurement during the course of surface mapping indicates the dips at 50° to 65° to the southwest, and 75° to 85° from the two areas of current drilling. The thin mafic tuffs are the only unit from which bedding of the volcanic pile can be determined, since most of units represent either thick volcanic flows or coarse pyroclastics.

7.1.2 Intrusives

The intrusive rocks mapped and drilled on the property belong to the eastern margin of the Hogen Batholith, which consists of a variety of intrusive types including: granite, granodiorite, monzonite, monzodiorite, quartz diorite, diorite and syenite. Within the property boundaries, most of the intrusive rock units can be interpreted as belonging to Phase I of the intrusive event (Garnett, 1984).

Dykes and small stocks of granitic and dioritic porphyries are probably related to the late phases of the intrusive event (Phase III).

a) Diorite (Di)

This unit belongs to more mafic Phase I of the Hogen Batholith. In hand specimen the rock is dark green, medium grained, equigranular and consists of equal parts of interlocking subhedral-euhedral plagioclase crystals 0.1-2.0 mm, with accessory K-spar in an interstitial mode. Quartz is either not present or represents very minor mineral constituent. The main mafic mineral is amphibole that forms abundant

subhedral grains 0.1-1.0 mm. It is often altered to various proportions of chlorite, secondary green biotite, carbonate and epidote. Mafic content of the rock is variable and locally the unit can contain up to 85% of amphibole and chlorite. The rock is cut by sparse hairline veinlets of epidote, chlorite and carbonate. The diorite phase of the batholith is host to porphyry copper type of mineralization found in the northwest section of the property. This unit corresponds to Unit 3 on the regional map.

b) Granite, Granodiorite (Gr, Gp, Gn, Gnp)

These leucocratic units occur in the northwest and southwest corners of the property and represent more felsic Phase I and Phase III rock units of the Hogem Batholith.

Granite (Gr) is found in the southwest corner of the map area. This rock is coarse grained, pink in colour and contains abundant large (2 cm) K-spar and quartz phenocrysts in addition to biotite and hornblende. The contact between this unit and Takla volcanics is not exposed, but can be traced between large outcrop areas along the ridge in the southern section of the property.

Porphyritic granite (Gp) is pinkish in colour, massive and contains abundant K-spar (1-2 cm) and lesser quartz phenocrysts to 1 cm across. The unit often contains small amounts (1-3%) of finely disseminated pyrite in a matrix of quartz-feldspar and biotite. Occasionally the unit is affected by carbonate-sericite alteration of various degrees. On the surface it occurs as dykes, sills and small stocks on the TR South Grid and along the Twin Creek. It was encountered by diamond drilling on both TR West and TR South grids. This unit can be interpreted as Phase III intrusive.

Granodiorite (Gn, Gnp) was mapped mostly in the northwestern corner of the map where it occurs in contact with the dioritic phase of the batholith. The unit is whitish or grey in colour and can be equigranular (Gn) or porphyritic (Gnp). Although compositionally similar, the porphyritic variety contains abundant large K-spar and often quartz phenocrysts to 1 cm across in a matrix of plagioclase, hornblende, biotite and lesser K-spar and quartz. In the drill core at TR West grid granodioritic and dioritic porphyries represent the main intrusive rock units.

c) Monzonitic Dykes

Dykes of fresh, monzonitic, equigranular, fine grained rock have been intersected by diamond drilling on the TR West grid. These dykes contain abundant mafics, together with plagioclase and K-spar in roughly equal proportions and represent the youngest intrusives found on the property.

On the basis of their mineralogy, granitic intrusives on the Takla-Rainbow property fall into granodiorite, tonalite, quartz monzodiorite and quartz diorite fields of an APQ diagram (Streikeisen, 1976).

7.2 Structural Setting

Structural history of the Takla-Rainbow property reflects the regional setting of the Quesnel Trough, a narrow tectonic depression extending much of the length of British Columbia. The trough was the site of Mesozoic volcanic and sedimentary deposition, where Takla volcanic rocks found on the property were formed. A major structural deformational event that affected all supra-crustal rocks in the area is a Pinchi Fault, located approximately nine kilometers to the west of the center of the property.

Several northwesterly faults that run parallel to the Pinchi Fault zone are located on the property. The most significant faulting of this trend, that reflects the regional setting are faults encountered by drilling on the TR West grid. The contact between Takla volcanics and batholith in the southwestern corner of the grid appears to be of the same attitude, as well as granitic dykes that strike parallel to this contact. A distinct topographic feature in a form of northwest-southeast valley was recognized in the area of present drilling on the TR West grid by earlier explorers, who suggested a fault zone. Drilling confirmed th existence of at least three parallel northwest-southeast striking fault structures. The intensity and magnitude of structural deformation is the strongest at the west end of the grid, where the zone of brecciation in volcanics and intrusives reaches 23.16 m in DDH11.

The dips of the faults encountered in drill holes appear to be sub-vertical. Petrographic thin section work on the samples from the TR West grid indicates also the presence of close-spaced, sub-parallel systems of sheeted microfractures in porphyrites that seem to be the locus of carbonate and epidote alteration.

At the south end of the property, dykes and sills of porphyritic granite intrude Takla volcanics along the northwesterly striking breaks that run parallel to the Pinchi Fault zone.

Northeasterly striking faults represent the second major fault system encountered in course of surface mapping.

The relative movements and timing of these two systems is not known, but could be contemporaneous. The information from surface mapping of the property and drill core data indicate the dips of Takla volcanics to be steep to the south, but proper determination is often difficult due to massive texture of volcanics. Thin basaltic bedded tuff units provide the best information on the attitude of the volcanic strata. Takla volcanics have west to northwest strike and a characteristic open folds. Foliation of the volcanic units is weak or completely absent.

7.3 Alteration

Hydrothermal alteration of various lithological members mapped and drilled on the property is often so strong that it obscures the original rock composition. Alteration types most commonly found include carbonization, sericitization, hematitization, chloritization, epidotization, silicification and kaolinization. Alteration products vary from one rock type to another and the amount of each alteration product depends on the degree of all alteration. From surface mapping and drill core logging observations, it is obvious that the intensity of alteration in various parts of the property increases with the proximity to faults, shear zones and younger granitic porphyritic dykes.

Carbonate -sericite alteration in volcanics and intrusives consists principally of pervasive sericitization and carbonitization of feldspar phenocrysts and groundmass plagioclase.

The second type of alteration is represented mainly by fracture controlled carbonitization and silicification and alteration of mafic minerals into chlorite, carbonate and epidote. The strongest alteration of this type is present in granite porphyry intrusives, but it can be observed in volcanics adjacent to dykes, particularly on the TR West grid drill core. The strongest alteration is found in DDH 11 and DDH 12, where also the widest zones of brecciation was intersected. The carbonate is mainly dolomitic, but

ocasionally it is ankeritic or calcitic in composition. This type of alteration can be seen in many prominent gossans found on the property. The rock is generally completely altered and characteristically very soft and highly weathered. Buff or grey quartz in most cases is the form of silica present in the affected rock unit, but jasper has also been observed in the TR South grid rocks and drill core.

7.4 Gold Mineralization

Gold mineralization on the property was first drilled in 1985 and drilling continues with encouraging results to the present.

The area of main drilling comprises a body of porphyritic granitic intrusive striking in NW-SE direction and confined to a contact between the Takla volcanics to the south and dioritic border phase of the Hogem Batholith to the north (Figure 22). The intrusive is leucocratic, quartz poor, porphyritic and contains two main lithologies recognized in drill core.

a) Granite Porphyry

Granite porphyry is pink, characterized by large (to 1 cm across) phenocrysts of plagioclase or K-spar with less than 5% quartz and pink, fine grained matrix consisting of equal amounts of K-spar, plagioclase and quartz. Compositionally the unit ranges from trachyte to granodiorite and could represent more than one phase. Some cross-cutting relationships seen in the core indicate that trachyte could be the youngest phase of the intrusive suite.

b) Diorite Porphyry

Diorite porphyry is grey or whitish, consists of plagioclase phenocrysts 0.2 - 0.5 mm in size in an evenly, white felsitic groundmass of grain size 0.01 - 0.05 mm with very little quartz and K-spar present. The rock seldom contains quartz phenocrysts.

Mineralized zone on the TR West grid is spatially and probably genetically related to the porphyritic intrusive event and late hydrothermal activity and

tectonic setting that resulted following the intrusion. The gold mineralization occurs within a strong pyritic halo measuring over 1,000 meters in length and 150 meters in width, as outlined by an induced polarization survey carried in 1985.

The most common type of mineralization encountered in drill holes is in the form of narrow quartz fillings along the fractures from few centimeters to several decimeters in width, or dissemination of sulphides and native gold in both porphyries and volcanics. Mineral association in the zone is represented by pyrite, chalcopyrite, quartz, native gold, carbonates, sericite, chlorite and minor pyrrhotite, magnetite, galena, sphalerite and specular hematite. The mineralization is confined to the zones marked by microshearing, intense fracturing, pyritization, carbonitization and silicification.

Gold is in the form of native gold, and gold-pyrite and gold-chalcopyrite associations are very common. At the present, it is not known if this is the only mode of gold occurence and more petrographic work is required to complete this investigation. In one specimen two grains of native gold were seen as grains of 25 and 50 microns associated with chalcopyrite inclusions in pyrite. Pyrite occurs in vein quartz, ankerite and sericite gangue as well as disseminations in altered wall rock.

The majority of intersections occur as subvertical, parallel structures within or adjacent to granite porphyry, suggesting that this phase of the intrusive is in direct relationship with gold mineralization. Some intersections on the TR West grid occur at considerable distance from the granite porphyry dykes and represent silicified zones within the Takla volcanics with silica and gold originating from the granite porphyry dykes.

8.0 GEOCHEMICAL SURVEY

Geochemical soil survey was carried out on the west side of the TR South grid by extending lines 5N, 4N, 3N, 2N, 1N, 0N and 1S to 8+00W, since the geochemical anomaly discovered in 1986 was still open to the south end. Several soil traverses were also made in conjunction with surface mapping and prospecting in the central and northern parts of the property. These traverses were made in the proximity of gossanized outcrops and talus. Soil samples were collected from the B2 soil horizon from a depth of 15-20 cm. In the absence of

good soil, samples of talus fines or C horizon were taken. All samples collected were analysed for 30 elements by ICP method and gold by atomic absorption. All analytical work was performed by Acme Analytical Lab in Vancouver. The results of analytical work are presented in the Appendix II of this report.

8.1 TR South Grid

Soil sampling on the TRS grid indicates the continuation of anomaly to the west and south, with the exception of the southwestern corner of the grid, where anomalous values are slightly above the background level (5-10 ppb). The highest gold value in soil was 2,360 ppb on line 2N, 250 m west of the baseline. This value occurs near a 25 m wide shear or fault zone observed in the outcrops. This shear zone extends from 325 W to 350 W and lies uphill from the anomalous sample. Copper in soil does not suggest concentration of anomalous values in any particular part of the surveyed area, having elevated values over the entire coverage. The highest value of 1.371 ppb occurs at 2N/25W near the shear zone. This location also has the highest silver value of 4.3 ppm. Other elements in soil do not show anomalous concentration in any part of the TR South grid extension.

A total of 173 soil samples were collected along 4.15 line kilometers. Sampling was done at 25 m intervals along the flagged lines, using a compass and hip chain for control. Results of the soil survey are presented on Figure 6 for gold and Figure 7 for copper content.

8.2 Soil Traverses

A number of soil traverses were made in the course of surface mapping in order to substantiate the information on gold distribution in the areas of no outcrops, and in the proximity to gossans and favourable geology. The results of this survey indicates anomalous gold content in soil in several areas and a follow-up program is planned for the next field season. A total of 98 soil samples were collected over approximately 4 km of traversing. Sample locations are shown on Figure 4 and survey results are presented in Appendix III of this report.

9.0 GEOPHYSICAL SURVEYS

Geophysical surveys on the property during the 1987 field season were conducted between July 7 and 18, 1987 and consisted of VLF and induced polarization coverage of the TRS and western part of TRS 2 grid in an attempt to evaluate geochemical anomaly and better delineate drill targets. A total of 14.6 km of VLF and 9.5 km of induced polarization survey were completed during the period. The VLF survey was carried out by the Imperial metals staff and an IP survey was contracted out to Scott Geophysics Ltd. of Vancouver. Results of the geophysical surveys are presented in Figure 8 and Appendix IV of this report.

9.1 VLF Electromagnetic Survey

The VLF electromagnetic survey was carried out along the lines with an azimuth of 235°, using the Seattle, Washington signal, at 24.8 KHz frequency. Readings of in-phase and quadrature components were taken facing west during the entire coverage. The instrument used for the survey was Geonix Ltd. EM 16 electromagnetic unit. The results of the VLF survey indicate the presence of two conductors on the TRS and TRS2 grids. On the TRS grid, a medium strong conductor was located on the west side and traced on four lines over a distance of 300 meters. The conductor strikes northwest-southeast, parallel to the regional trend. On the east side of the grid, two weak, north-south striking conductors were picked up and traced 450 meters. With the exception of two single line cross-overs on the north end, the remainder of the grid showed lack of conductivity detectable by the VLF survey.

9.2 Induced Polarization Survey

Induced polarization and resistivity surveys used the pole dipole electrode array, with an "a" spacing of 25 meters and "n" separations of 1 to 5. The current electrode was to the east of receiving electrodes on all survey lines. A Scintrex IPR II time domain microprocessor based induced polarization receiver and a Scintrex 2.5 KW IPC 7 transmitter were used for the survey. Readings were taken using a 2 second alternating square wave. The chargeability for the seventh slice (690 to 1050 milli seconds after current shutoff; midpoint at 870 milli seconds) is the value that has been plotted on the pseudosections. The survey data was processed and plotted using a Sharp PC 7000 microcomputer running Scintrex Soft II and proprietory software. All chargeability values were analyzed for their spectral characteristics using a curve matching procedure (Soft II)

10.0 DIAMOND DRILLING

Two diamond drilling programs were carried out on the property between July 13 and October 31.

A short program consisting of four holes (634.59 m recovering BQ size core) was carried out on the TR South grid. The program was executed by Drillcor Industries Ltd. from Delta, B.C., supported by a helicopter.

On the TR West Grid, a total of 19 holes (5,407.16 m) recovering BQ size core were completed by J.T. Thomas Drilling from Smithers, B.C. A 14.2 km access road was completed to allow transportation of the drill and equipment to the main camp on the property. Road contstruction, by Lakeview Holdings Ltd. of Fort St. James, B.C. was completed between June 26 and July 23, 1987.

All holes on the TR West grid were surveyed by a magnetic directional survey instrument rented from Sperry-Sun of Edmonton, Alberta.

A total of 1830 core samples were taken from the two drill programs and analysed for 30 element ICP method and gold by atomic absorption. Samples with greater than 500 ppb Au were also analysed for gold by fire assay method. All analytical work on core samples was performed by Acme Analytical Lab in Vancouver.

Results of diamond drilling are presented on borehole sections and plan (Figures 9 - 22). Appendices I and II contain borehole logs and analytical data.

10.1 TR South Grid (TRS 87-1, 2, 3, 4)

The first three holes (Figure 9) were drilled over a geochemical anomaly on the west side of the grid in order to locate the bedrock source of anomalous gold values found in soil and float along the talus slope (Figures 5, 6, 7). The holes encountered a sequence of volcanics of dominantly andesitic composition with minor volume of basaltic volcanics. Andesitic volcanics found in the core are represented by green and maroon porphyritic flows and coarse fragmentals (agglomerates, breccias). Basaltic volcanics are fine grained amygdaloidal and massive flows and represent minor members of the sequence. These volcanics can be interpreted as the Takla volcanics that belong to unit B

(Figure 3). Volcanic sequence as indicated by drilling has steep southwesterly dip and as suggested by a basaltic amygdaloidal flow tops to the southwest. Intrusive rocks in the drilling area are pink porphyritic granitic dykes that in the drill core reach the thickness of 25 meters. Shearing and faulting in the core are common as shown on the borehole section. A strong northeasterly dipping fault zone was encountered in holes TS 87-1 and TRS 87-3. This zone, with abundant gouge is associated with strong bleaching kaolinization and hydrothermal alteration in both, volcanics and intrusives. Silicification in the form of veinlets of grey and reddish jasperoid is common, but drilling did not reveal the presence of significant gold and base metal mineralization. The highest gold value of 1,090 ppb was in hole TRS 87-3 from 96.32 to 97.84 m (1.52 m). This value occurs in a wide sheared section of highly bleached and kaolinized granitic intrusive, cut by a fault zone. Hole TRS 87-1 intersected 1.52 m between 2.74 and 4.26 m carrying 1,060 ppb Au in beige and rusty, oxidized andesitic volcanic. The volcanic is cut by thin white quartz and minor calcite veinlets that intersect the unit at various angles to the core axis. The volcanic also has several anomalous copper values, with the highest concentration (4,903 ppb Cu over 0.62 m) found in the same zone where the highest gold value was encountered. Although thin quartz veins were encountered by drilling of this anomaly and the source of gold found in float and soil remains unexplained.

A single hole (TRS 87-4) was drilled to test coinciding soil and chargeability anomaly on line 10+00N. The hole encountered fine grained, massive andesitic volcanics containing from 5% to 10% disseminated pyrite over wide sections of core. Shearing and faulting in volcanics are common, with occasional sections of silicification in the form of quartz cemented brecciated volcanics. There was no significantly anomalous gold present in the drill core but base metal and silver values were found in one meter interval, from 65.55 to 66.55 m with 1.62% Pb, 2.99% Zn and 7.42 oz/ton Ag. The chargeability anomaly was explained by disseminated pyrite in sheared and faulted volcanics, the same also being responsible for two weak conductors picked up by VLF survey south of the drill site.

10.2 TR West Grid (DDH 19-37

A total of nineteen holes (5,407.16 m) were completed on the TR West grid, concentrating in three zones: West Zone, East Zone and South Zone.

Eleven holes were completed on the West Zone outlined during the exploration in 1985 and 1986 on the property. The objective of this drilling was to test the zone at 50 meter intervals along the strike. This fill-in drilling was required to better define mineralization since the spacing of 100 meters was too wide to properly assess the potential of the zone. In addition to fill-in drilling, six holes were drilled to test down-dip extension of mineralization encountered by previous and current drilling. The deepest intersection of mineralization on the Takla West Zone is presently 300 meters below the surface.

The East Zone, indicated by drilling in 1985 and 1986 was tested by four holes spaced 100 to 200 meters. One of the four holes was in undercut of hole DDH 10, drilled in 1986. This drilling was supported by encouraging results from 1986 and a chargeability anomaly detected by geophysical survey done in 1985.

Four holes were completed in order to test geochemical soil anomaly over the South Zone, where no drilling was done previously.

The following is a summary of drilling completed in three zones on the Takla-Rainbow West grid during the 1987 field season:

WEST ZONE	
Hole	Depth (m)
DDH 20	181.97
DDH 21	224.64
DDH 22	252.07
DDH 24	181.97
DDH 25	254.81
DDH 26	50.90
DDH 26A	331.01
DDH 27	258.17
DDH 29	154.53
DDH 30	269.14
DDH 34	456.29
DDH 37	168.25
	2,783.75

EAST ZONE	
Hole	Depth (m)
DDH 19	262.13
DDH 31	268.83
DDH 33	462.99
DDH 35	462.99
	1,449.93

SOUTH ZONE	
Hole	Depth (m)
DDH 23	242.62
DDH 28	221.59
DDH 32	228.60
DDH 32	228.60
	1,173.48

Table 1 illustrates drilling results on the TR West grid in the period 1985 - 1987.

TABLE 1

TAKLA RAINBOW DRILLING SUMMARY 1985 - 1987

YEAR	DDH	DEPTH (m)	DIP	AZIMUTH	COORDINATES EASTING	COORDINATES NORTHING	INTERSECTION (m) FROM	TO	LENGTH	Au (oz/ton)	Ag (ppm)	Cu (ppm)
1985	1	76.81	-45	360	3+00	12+50	42.00	42.30	0.30	0.080	34.8	69,248
	2	78.33	-45	360	3+00	12+00	53.36	55.30	1.94	0.201	10.9	15,307
	3	79.86	-45	360	5+00	10+00	60.65	61.11	0.46	0.048	2.4	29
	4	76.81	-45	360	7+00	8+50	20.66	22.30	1.64	0.526	34.5	301
1986	5	118.26	-55	045	2+91	0+77 S	58.50	59.17	0.67	0.130	0.3	124
							104.54	112.16	7.62	0.039	0.6	329
							116.00	116.40	0.40	0.272	1.1	544
	6	96.93	-55	045	3+87	0+88 S	NO INTERSECTION					
	7	81.69	-55	045	5+76	0+76 S	NO INTERSECTION					
	8	117.35	-55	045	6+69	0+62 S	38.24	39.01	0.77	0.055	1.1	15
	9	115.21	-55	045	7+37	0+59 S	21.10	22.29	1.19	0.110	3.9	92
							99.97	101.25	1.28	1.117	2.3	93
							51.17	51.34	0.17	0.202	6.4	8
	10	99.91	-55	045	8+16	0+45 S	13.00	13.80	0.80	0.069	1.8	257
							26.00	27.00	1.00	0.094	1.4	150
	11	117.65	-55	045	1+47	0+76 S	NO INTERSECTION					
	12	191.41	-55	045	1+96	0+98 S	56.30	56.70	0.40	0.046	2.8	4373
							NUMEROUS SECTIONS WITH 200-400 ppb Au. See 145.39 - 183.18m					
	13	121.31	-55	045	2+92	0+27 S	20.80	24.05	3.25	0.149	1.1	320
							26.37	29.55	3.18	0.116	3.0	3161
							62.90	64.40	1.50	0.690	1.8	591
							67.00	67.90	0.90	0.048	0.6	606

Table 1 (continued)

YEAR	DDH	DEPTH (m)	DIP	AZIMUTH	COORDINATES EASTING	COORDINATES NORTHING	INTERSECTION (m) FROM	INTERSECTION (m) TO	LENGTH	Au (oz/ton)	Ag (ppm)	Cu (ppm)
1986	14	167.03	-55	225	7+25	0+15	127.80	128.40	0.60	0.071	0.2	20
	15	124.97	-55	045	3+86	0+38 S	51.14	52.55	1.41	0.053	0.3	111
	16	154.84	-48	225	4+84	0+40	26.00	26.70	0.70	0.103	4.5	4573
							64.05	65.29	1.24	0.029	0.4	196
							78.59	81.08	2.49	0.038	0.7	364
	17	133.81	-55	225	5+74	0+51	56.15	58.95	2.80	0.019	1.7	1850
	18	107.89	-50	225	6+75	0+79	NO INTERSECTION					
1987	19	262.13	-55	045	9+20	0+90 S	47.26	47.46	0.20	0.216	1.9	113
	20	181.97	-55	045	2+46	0+58 S	39.30	41.60	2.30	0.034	2.2	2327
							51.10	52.66	1.55	0.107	7.1	8283
							79.80	82.75	2.95	0.072	0.7	463
							116.43	119.47	3.04	0.039	2.0	88
	21	224.64	-55	045	2+46	1+08 S	129.05	131.20	2.15	0.018	0.4	300
							206.70	207.80	1.17	0.021	0.6	366
	22	252.07	-55	045	2+91	1+27 S	78.20	79.00	0.80	0.022	0.9	375
							234.70	235.60	0.90	0.063	2.7	525
	23	242.62	-50	225	9+20	0+91 S	131.37	132.46	1.09	0.091	2.1	58
							175.37	175.82	0.45	0.210	2.9	646
							211.13	214.12	2.99	0.168	0.6	58
							229.21	229.77	0.56	0.219	7.2	43
	24	181.97	-55	045	3+40	0+68 S	24.52	25.82	1.30	0.312	1.4	277
							41.76	42.66	0.90	1.095	2.2	246
							47.75	49.83	2.08	0.122	7.6	2189
							120.50	121.30	0.80	0.291	4.8	2696
							127.10	128.50	1.49	0.028	3.8	3762
							139.70	142.20	2.50	1.15	12.0	3000
	25	254.81	-55	045	3+40	1+18 S	150.77	151.60	0.83	0.024	0.6	403
							190.90	191.50	0.60	0.049	1.9	1949
							248.95	249.80	0.85	0.017	0.5	1725

Table 1 - (continued)

YEAR	DDH	DEPTH (m)	DIP	AZIMUTH	COORDINATES EASTING	COORDINATES NORTHING	INTERSECTION (m) FROM	INTERSECTION (m) TO	LENGTH	Au (oz/ton)	Ag (ppm)	Cu (ppm)
	26A	331.01	-55	045	3+87	1+35 S	10.84	11.24	0.40	0.106	2.9	27
							215.10	215.55	0.45	0.022	0.4	89
	27	258.17	-55	045	4+40	1+05 S	58.34	58.90	0.56	0.022	0.5	10
							59.45	60.30	0.85	0.017	2.8	6
							99.32	99.85	0.53	0.018	0.8	8
							145.18	145.72	0.54	0.017	2.0	952
							218.20	219.06	0.86	0.027	0.6	295
	28	221.59	-50	225	7+37	1+20 S	28.80	29.32	0.52	0.090	3.4	1577
							73.61	74.57	0.96	0.018	1.9	365
	29	154.53	-55	045	4+40	0+55 S	21.23	23.20	1.87	0.034	0.3	159
							23.20	24.60	1.40	0.040	0.1	253
							24.60	25.35	0.75	0.177	0.7	435
	30	269.14	-55	045	5+35	1+10 S	200.00	200.65	0.65	0.422	5.8	7394
	31	268.83	-55	045	8+16	1+45 S	82.70	84.00	1.30	0.229	2.0	137
							128.60	129.60	1.00	0.065	0.4	34
							221.60	222.20	0.60	0.272	14.2	75
							240.30	241.40	1.10	0.039	2.4	62
	32	228.60	-50	225	8+16	1+46 S	173.90	174.30	0.40	0.023	1.7	78
	33	462.99	-55	045	9+20	0+00	61.10	62.00	0.90	0.151	5.8	1857
							425.80	427.08	1.28	0.044	0.1	109
	34	456.29	-70	045	3+40	1+18 S	22.20	22.60	0.40	0.028	4.2	1556
							181.10	182.15	1.05	0.036	3.8	7586
							348.72	349.60	0.88	0.047	0.1	109
	35	455.98	-55	045	11+20	0+05	283.00	284.00	1.00	0.015	7.6	466
	36	480.67	-50	225	11+20	0+05	NO INTERSECTION					
	37	168.25	-45	045	3+42	0+59 S	80.50	81.32	0.82	0.036	0.4	243
							90.25	91.05	0.80	0.073	2.5	494
							92.55	93.90	1.35	0.082	3.4	1573
							97.82	99.00	1.18	0.061	2.3	605

11.0 ECONOMIC GEOLOGY

Exploration programs on the Takla-Rainbow property carried out between 1984 and 1987 outlined significant concentration of gold mineralization on the TR West grid, located in the northern section of the anomalous trend that extends over three kilometers. Distribution of economic concenration of gold on the grid on the basis of drilling results to date falls in three zones separated by either weak mineralization or barren ground. (Figure 22).

a) West Zone - extends presently over 289 meters (from 2+46E to 5+35E) along the strike and 100 meters across. The deepest mineable ore intersection encountered to date and still open at depth is approximately 140 meters below the surface. The zone contains up to five parallel subvertical gold bearing structures. To the east this zone is bounded by weakly mineralized ground and on the west side mineralization seem to be absent.

b) East Zone - extends presently over 183 meters (from 7+37E to 9+20E) along strike and 130 meters across. The deepest mineable ore intersection in this zone occurs at 140 meters below the surface. The zone contains two or more parallel subvertical gold bearing structures. To the west the zone is bounded by weakly mineralized ground. More drilling is required to further delineate the strike extent of mineralization in this zone to the east.

c) South Zone - was first drilled during the 1987 field season. The highlight of the program was an intersection that yielded 0.17 oz/ton over 2.99 meters at the depth of 180 meters below the surface. The zone is bounded by weak mineralization on the west side and seem to be cut-off to the east. The strike length of untested ground in this zone that requires further drilling is approximately 275 meters.

11.1 Ore Reserves:

An estimate of geological reserves in the West and East Zone was done using the following parameters:

- cut-off grade: 0.10 oz/ton
- minimum mining width: 4 feet
- strike and dip length: 100 feet or half distance to the next intersection, whichever is less
- tonnage factor: 12

Total undiluted, uncut, drill indicated and inferred reserves are presently 220,000 tons grading 0.40 oz/ton over an average width of 5 feet.

The potential for increasing this tonnage by additional drilling in two zones is considered excellent, since mineralization is still open at depth. Further drilling between the West and East Zone has a very good chance of eliminating the gap that presently exists between the zones. In the South Zone, where the potential for discovery of additional reserves looks the best, drilling planned for 1988 field season could more than double present reserves.

12.0 CONCLUSIONS AND RECOMMENDATIONS

Exploration on the Takla-Rainbow gold property carried out by Imperial Metals Corporation in the period 1985 - 1987 was successful in delineating an anomalous geochemical and geophysical trend extending over three kilometers.

Detail geophysics and shallow drilling on the trend to date delineated economic gold concentration on its northwesterly section in three separate zones. Currently, geological reserves in two zones are 220,000 tons at 0.40 oz/ton.

The lateral and down-dip extension of mineraliztion cannot be determined with accuracy due to limited information from drilling, but with an additional drill program current reserves on the property could be significantly increased.

A $600,000 exploration program on the property during the 1988 field season is recommended. The main objectives of the program are: 1) to further delineate geometry of mineralized zones and 2) to continue testing anomalous trend. The program will consist of 4,500 m of diamond drilling as well as induced polarization and VLF surveys along the trend, in an effort to delineate new drill targets. With the geochemical coverage to date, a combination of these two geophysical surveys and diamond drilling is considered the most effective method in exploring the property.

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STATEMENT OF EXPENDITURES

PERSONNEL	DATES	DAYS	COST
R. Pesalj	Jul 12-Aug 1; Aug 9-Sept17; Oct 7-31	87	$ 21,750
D. Gorc	Jul 19-27; Aug 5-Sept 7; Sept 17-Oct 8	65	13,000
J. Walker	Jul 12-28	17	1,530
L. Stevenson	Jul 14-26	13	1,690
S. Royea	Jul 12-Oct 2	60	5,100
P. Knelsen	Oct 1-30	30	3,000
C. Bowman	Sept 6-Oct 30	55	5,500
B. Gardiner	Aug 11-Oct 23	74	9,620
B. Ashley	Jul 6-25; Jul 29, 31; Aug 6-8	25	2,500
R. Ashley	Jul 6-29; Aug 6-8	27	2,700
			$ 66,390

FOOD AND ACCOMMODATION	
Camp cost: 453 man days @ $45/day	20,385
GEOPHYSICAL SURVEYS	13,070
DIAMOND DRILLING 23 holes (BQ); 6042 m @ $91.07/m	550,221
ANALYTICAL COSTS	
1830 core samples	27,450
271 soil samples	4,065
64 rock samples	960
TRANSPORTATION	
Truck 112 days @ $65/day	7,280
Helicopter 20 hrs @ $525/hr	10,500
Fixed Wing	15,000
Buldozer rental	13,750
DRAFTING AND REPORT PREPARATION	2,790
SUB TOTAL	731,861
ACCESS ROAD (submitted for assessment on September 8, 1987)	48,595
TOTAL EXPENDITURES	780,456

AUTHOR'S QUALIFICATIONS

I, RADOMIR PESALJ, do hereby certify that:

(1) I am a graduate in Geological Engineering from the University of Belgrade, Yugoslavia (B.Sc. 1963).

(2) I have practised in the geological profession for the past 23 years, including study and exploration of base metal, uranium and gold deposits in North America and Europe. Presently, I am a permanent senior staff geologist with Imperial Metals Corporation of Vancouver, British Columbia.

(3) I am a member of the Society of Economic Geologists Inc.

(4) I supervised all exploration programs conducted on the Takla-Rainbow property in the period 1985-1987.

Rad. Pesalj

FEBRUARY 1988 Radomir Pesalj

D. Gorc — Geologist
B.Sc. Eng. 1976 Queen's University

A P P E N D I X I

BOREHOLE LOGS (TRS-87 1-1; DDH 19-37)

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : TRS 87-1
COMMENCED: July 13, 1987
COMPLETED: July 17, 1987
OBJECTIVE:

LOCATION : TRS Grid
LOC. : 10 + 86 N/6 + 50W
ELEV. :
CORE SIZE: BQ
Azimuth : 055°

CORRECT DIP: - 55°
TRUE BRG : 055°
SURVEY AT :
% RECOVERY :
LENGTH : 144.78 m.

PAGE : 1 of 4
LOGGED BY : R. Pesalj
DATE : July 17, 1987
CORE STORED : at the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
0.00	2.74		Overburden. Angular fragments of andesitic volcanic, beige to rusty in	4001	2.74	4.26	1.52		1060	15.5	2926	119	8
			colour. BW casing.	4002	4.26	5.48	1.22		7	1.1	271	157	11
				4003	5.48	6.10	0.62		57	25.8	4903	102	5
2.74	6.10		Beige and rusty, oxidized andesitic volcanic, broken, blocky core. Thin	4004	6.10	7.62	1.52		1	.4	72	176	11
			white quartz veinlets cutting the unit at various angles to core axis.	4005	7.62	9.14	1.52		12	5.3	1500	96	11
			Locally the unit is fragmental, fragments of the same composition 1-5cm,	4006	9.14	10.67	1.53		4	.5	90	78	10
			angular. Minor calcite with quartz veinlets 1-10mm thick.	4007	10.67	12.19	1.52		2	.1	32	84	12
				4008	12.19	13.71	1.52		4	.1	17	103	12
6.10	26.30		Greenish maroon agglomeratic porphyritic andesite, fresh. Consists	4009	13.71	15.24	1.53		4	.1	14	98	13
			of plagioclase phenocrysts 1-3mm in length in greenish-grey plagioclase and	4010	15.24	16.76	1.52		2	.1	10	82	11
			chlorite groundmass. Thin 1-10mm, quartz-carbonate veinlets cutting the	4011	16.76	18.89	2.13		4	.1	29	78	7
			units of various angles to core axis. Plagioclase phenocrysts locally	4012	18.89	19.81	0.92		1	.1	13	56	11
			kaolinized, beige in colour. Fragments of the same composition, angular,	4013	19.81	21.33	1.52		1	.2	8	74	6
			1-10cm across throughout the unit.	4014	21.33	22.86	1.53		2	.1	7	71	9
				4015	22.86	24.38	1.52		1	.4	9	122	9
26.30	28.05		Rusty, oxidized andesitic volcanic highly sheared section, badly broken	4016	24.38	26.30	1.92		4	.1	103	94	10
			core, occasional clay mixed with andesitic fragments.	4017	26.30	27.12	0.82		1	.2	61	109	15
				4018	27.12	28.05	0.93		11	.8	264	54	8
28.05	39.00		Greenish-grey and locally maroon andesitic volcanic, agglomeratic, angular	4019	28.05	29.60	1.55		1	.2	39	72	13
			fragments of porphyritic andesite maroon coloured set in greenish-grey	4020	29.60	30.55	0.95		1	.1	19	83	6
			coarse grained groundmass. Minor quartz veinlets and limonite stained	4021	30.55	32.00	1.45		51	.2	12	73	10

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			fractures. Feldspar mostly fresh, occasional sections with beige kaoline	4022	32.00	33.53	1.53		19	.3	8	68	15
			fractures. Feldspar mostly fresh, occasional sections with beige kaoline	4023	33.53	35.05	1.52		1	.1	9	67	7
			altered grains.	4024	35.05	36.58	1.53		1	.3	8	71	14
39.00	61.41		Green and grey, porphyritic to massive, f.g. amdesitic volcanic, badly	4025	36.58	38.10	1.52		22	.1	10	42	9
			broken, sheared core. Occasional thin 1-5mm quartz-calcite veinlets.	4026	38.10	39.62	1.52		2	.2	7	89	7
			Narrow sections of fault gouge throughout this section. Average core	4027	39.62	40.12	0.50		3	.6	13	107	16
			recovery 80%.	4028	40.12	41.15	1.03		4	.4	184	105	5
				4029	41.15	42.67	1.52		2	.7	206	81	10
61.41	63.24		Grey and light grey, porphyritic locally bleached andesitic volcanic,	4030	42.67	44.20	1.53		1	.4	165	73	7
			sheared and faulted.	4031	44.20	45.72	1.52		1	.6	201	85	9
				4032	45.72	47.24	1.52		1	.2	15	94	2
63.24	67.40		Grey and dark grey porphyritic andesite, similar to the unit above, but	4033	47.24	48.77	1.53		5	.1	17	110	11
			coarser grained. Consists of white feldspar phenocrysts set in grey ground-	4034	48.77	50.29	1.52		6	.2	218	130	8
			mass. The unit is cut by thin quartz veinlets 2-5cm thick that occasionally	4035	50.29	51.86	1.57		9	.7	167	123	12
			contains chalcopyrite grains. A distinct alteration hallos in contact	4036	61.41	62.75	1.34		77	1.4	499	96	5
			with veinlets is common in the unit. From 67.45 - 67.95m lightly sheared	4037	62.75	64.00	1.25		19	3.3	1069	46	7
			section.	4038	64.00	65.53	1.53		410	3.9	874	65	8
				4039	67.45	67.95	0.50		19	.3	34	44	10
67.40	68.20		Greyish-green porphyritic andesitic volcanic. White plagisclase grains set	4040	71.63	71.83	0.20		2	.4	32	50	17
			in very fine grained chlorite rich groundmass.	4041	76.85	77.05	0.20		4	.4	9	63	10
				4042	83.82	84.64	0.82		2	.9	290	59	10
68.20	70.41		Green, fine grained porphyritic andesite. Consists of white plagisclase	4043	127.50	128.80	1.30		1	.4	19	79	9
			phenocrysts set in fine grained, chlorite rich groundmass.	4044	128.80	130.14	1.34		5	.3	22	85	11
				4045	132.59	133.29	0.70		2	.2	29	70	14

From	To	Syb	Description	Smp. No.	From	To	Lgth.	Rec.	Analysis				
Meters					Meters				Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
70.41	76.80		Coarse grained porphyritic andesitic volcanic, greenish-grey to maroon in	2871	137.16	137.66	0.50		12	.3	38	418	22
			colour. Occasionally the unit contains clasts of the same composition, but	2872	137.66	138.68	1.02		23	.1	17	171	15
			maroon coloured, angular. Very minor quartz veinlets cutting the unit in	2873	138.68	140.21	1.53		8	.2	82	111	14
			random fashion.	2874	140.21	140.51	0.30		6	.1	8	136	12
				2875	140.51	141.73	1.22		4	.2	6	433	19
76.80	77.05		Quartz veinlets cutting the unit above at 30° to core axis. Vugs to 2cm	2876	141.73	143.26	1.53		12	.1	7	141	13
			across along the veinlets 5-10cm in width.	2877	143.26	144.78	1.52		11	.1	11	114	8
77.05	84.64		Coarse grained porphyritic andesitic volcanic. The contact with fine										
			grained green volcanic below is at 20°. From 83.82 - 84.64m brecciated and										
			calcite rich section at the contact with unit below. At 81.70m foliation										
			at 35° to core axis.										
84.64	94.32		Green, fine grained, massive basaltic volcanic. The upper section of the										
			unit has prominent calcite filled amygdules, the lower section is massive										
			flow.										
			Minor quartz-calcite veinlets at various angles to core axis.										
94.32	127.50		Coarse grained porphyritic andesite with white plagioclase phenocrysts from										
			1-10mm in length set in green, fine grained, chlorite rich matrix. The unit										
			locally contains angular clasts of the same composition and minor quartz										
			veinlets. The upper contact is at 60° to core axis. At 112.92m fault, 5cm										
			wide gouge section. Very minor quartz veinlets cutting the unit.										
127.50	132.59		Coarse grained porphyritic andesite as above to 127.50m weakly bleached and										
			kaolinized.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
132.59	137.16		Sheared porphyritic andesite as above, highly bleached, broken core, minor limonite along the fractures.										
137.16	137.66		Fault gouge, light grey and beige, quartz vein fragments.										
137.66	138.68		Highly sheared, badly broken angular quartz and jasperoid fragments.										
138.68	140.21		Fault gouge, minor quartz and jasperoid fragments.										
140.21	140.51		Highly bleached and sheared porphyritic andesite, shear fracture filled with graphite running along the core axis.										
140.51	141.73		White and purplish jasperoid breccia. Angular fragments of purplish jasperoid cemented by late beige quartz. Vugs filled with quartz crystals throughout. Honey coloured quartz veinlets cutting the unit. Limonite coated fractures in the lower part of the unit.										
141.73	143.26		White and purplish jasperoid breccia fragments in a shear cone. Badly broken core.										
143.26	144.78		Fault gouge with quarts and jasperoid fragments in gouge clay. Foot of hole.										
			Acid Tests:										
			Red Corrected										
			60.96m - 65° 00' - 58° 00'										
			121.92m - 60° 00' - 52° 00'										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : TRS 87-2
COMMENCED: July 18, 1987
COMPLETED: July 21, 1987
OBJECTIVE:

LOCATION : TRS Grid
LOC. : 10 + 75N/4 + 75W
ELEV. :
CORE SIZE: BQ
Azimuth : 055°

CORRECT DIP: - 45°
TRUE BRG : 055°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 174.65m

LOGGED BY : R. Pesalj
DATE : July 23, 1987
CORE STORED : at the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
0.00	3.05		Overburden. Angular fragments of andesitic volcanic, BW casing.	4053	34.50	35.10	0.60		220	3.7	181	186	19
				4054	39.60	40.50	0.90		153	1.0	175	168	16
3.05	9.14		Maroon and grey, coarse grained porphyritic andesitic volcanic. The unit	4055	41.25	41.60	0.35		1	.7	169	155	12
			contains angular fragments of the same composition as the matrix. Fragments	4056	52.70	53.94	1.24		1	.5	105	221	32
			range in size from 1-5cm and are evenly distributed throughout the unit.	4057	53.94	54.64	0.70		1	.2	36	189	26
			Agglomeratic andesite or agglomerate. Minor quartz-calcite veinlets cross-	4058	54.64	55.68	1.04		1	.3	46	251	23
			cutting the unit.	4059	55.68	57.30	0.62		1	.6	234	53	26
				4060	78.60	78.80	0.20		1	.3	9	121	34
9.14	15.24		Green, fine grained, massive andesitic volcanic. Very minor quartz-calcite										
			veinlets at various angles to core axis. Occasional calcite filled amyg-										
			dules. At 26.10m foliation at 10° to core axis.										
15.24	34.50		Maroon and grey, agglomeratic andesite, as above to 9.14m. Fragments more										
			frequent than in the unit above.										
34.50	35.10		Agglomeratic porphyritic andesite as above, minor limonite coated fractures.										
35.10	39.60		Coarse grained porphyritic andesite, agglomeratic, numerous angular clasts										
			of the same composition as the matrix throughout the unit. Agglomerate or										
			agglomeratic andesite.										
39.60	40.50		Same as above, but the section contains 1cm quartz-feldspar veinlets at 20°										
			to core axis.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
40.50	41.25		Same as above to 39.60m.										
41.25	41.60		Same as above, but the section contains 1 cm quartz-feldspar veinlets at 0-30° to core axis.										
41.60	44.00		Same as above to 39.60m.										
44.00	47.80		Light green and grey, fine grained porphyritic andesitic volcanic. Consists of fine grained matrix with minor plagioclase phenocrysts throughout. Locally calcite filled amygdules. The contact with upper coarse grained unit is at 20°, very sharp.										
47.80	52.70		Coarse grained, maroon and grey agglomeratic andesitic volcanic.										
52.70	57.30		Coarse grained, maroon, highly hematitic agglomeratic andesitic volcanic as above, but broken up and with higher hematite content. From 52.70 to 54.64m white quartz veinlets at 40°-50° to core axis.										
57.30	69.90		Green, coarse grained agglomeratic porphyritic andesitic volcanic, locally cut by white quartz veinlets at 45°-60° to core axis.										
69.90	70.60		Light green, massive felsic dyke. Contacts with volcanics at 25°. The unit is homogeneous, massive, cut by white quartz veinlets at 45°-50° to core axis.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
70.60	98.45		Light grey and beige, leucocratic granitic porphyry. Consists of medium grained quartz - feldsparthic groundmass and large 1-20mm plagioclase and rare K-spar phenocrysts. At the contact with volcanics from 78.60m to 78.80m white quartz vein.										
98.45	139.90		Green and maroon, coarse grained agglomeratic andesitic volcanic, badly broken, blocky core - shear zone. Local sections 0.5-1.0m maroon coloured, highly hematitic.										
139.90	143.45		Same as above but green, chloritic.										
143.45	156.00		Green, five grained, massive andesitic volcanic. Upper contact with agglomeratic unit is at 30° to core axis. The middle section is bleached, kaolinized. Minor white quartz veinlets at 20°-30° to core axis.										
156.00	167.49		Maroon and grey, agglomeratic andesitic volcanic. Consists of coarse grained porphyritic matrix with fragments of the same composition. From 158.50-158.70m fault gouge.										
167.49	174.65		Maroon and light green, coarse grained, massive porphyritic andesite. At 171.70m foliation at 45°-60° to core axis. Foot of hole.										
			Acid Tests										
			Red / Corrected										
			60.96m - 63° 00' / - 55° 30'										
			121.92m - 61° 00' / - 53° 30'										
			174.65m - 59° 00' / - 52° 30'										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : TRS 87-3
COMMENCED: July 21, 1987
COMPLETED: July 26, 1987
OBJECTIVE:

LOCATION : TRS Grid
LOC. : 10 + 75N/4 + 79W
ELEV. :
CORE SIZE: BQ
Azimuth : 235°

CORRECT DIP: - 45°
TRUE BRG : 235°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 192.63m

PAGE : 1 of 3
LOGGED BY : R. Pesalj
DATE : July 27, 1987
CORE STORED : at the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
0.00	6.10		Overburden, fragments of granitic intrusive, bleached, kaolinized, BW	4061	21.65	24.70	3.05		1	.1	8	40	15
			casing.	4062	24.70	26.20	1.05		1	.1	5	66	11
				4063	26.20	26.80	0.60		5	.1	13	84	12
6.10	28.74		Beige, light green and grey granitic porphyritic intrusive. Consists of	4064	41.86	43.28	1.42		10	.3	90	52	14
			large 1-10mm phenocrysts of greenish plagioclase, grey quartz and pink	4065	43.28	44.30	1.02		50	.2	58	102	18
			K-spar set in a grey quartz-feldspathic groundmass. Contact with lower	4066	44.30	44.83	0.53		270	.6	41	92	24
			volcanic unit at 40° to core axis. The unit is bleached and kaolinized	4067	49.18	49.63	0.45		1	.3	3	170	10
			with sections of broken core indicating shear zone from 21.65 - 26.60m.	4068	59.22	60.75	1.53		12	.5	239	54	14
			Limonite coated fractures very common throughout the sheared section.	4069	71.11	72.24	1.13		3	.1	8	21	12
				4070	45.14	45.70	0.56		1	.2	23	90	4
28.74	41.85		Grey and green, coarse grained porphyritic andesite locally cut by white	4071	83.03	84.43	1.40		15	.1	18	55	35
			quartz veinlets to 1 cm thick cutting the unit at 45°-50° to core axis.	4072	84.43	85.95	1.52		1	.1	13	60	63
				4073	85.95	87.48	1.53		205	1.1	22	52	103
				4074	87.48	89.00	1.52		15	.1	14	64	35
41.86	44.83		Same as above to 41.85m but bleached, locally hematite rich zone.	4075	89.00	90.52	1.52		196	.1	19	47	18
				4076	90.52	91.74	1.22		2	.1	13	46	14
44.83	49.18		Grey-green, coarse grained prophyritic andesite as above to 41.85m.	4077	91.74	92.96	1.22		12	.1	11	51	15
				4078	92.96	93.57	0.61		750	1.1	11	51	41
49.18	49.63		Light pinkish vein of amorphous quartz containing fragments of highly	4079	93.57	95.00	1.43		23	.2	12	52	8
			altered, bleached and kaolinized and silicified andesite. The upper contact	4080	95.00	96.32	1.32		72	.3	16	58	20
			of the vein is at 40° to core axis. The lower contact at 20°.	4081	96.32	97.84	1.52		1090	2.1	13	106	82
				4082	97.84	99.80	1.96		63	.1	11	72	26

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
49.63	59.22		Grey and green, variably bleached porphyritic andesite with minor quartz-	4083	99.80	101.13	1.33		360	1.1	10	45	15
			epidote veinlets.	4084	101.13	104.07	2.94		280	.7	112	73	10
59.22	60.75		Light grey and green bleached section of the unit above.	4085	104.07	105.46	1.39		9	.4	140	95	11
				4086	106.46	107.00	0.54		14	.6	281	107	11
60.75	83.03		Grey, coarse grained, massive porphyritic andesite, locally agglomeratic.	4087	107.00	108.81	1.81		11	.2	169	45	8
			From 59.22 to 60.75m; 71.11 - 72.24m broken, bleached, kaolinized sections.	4088	121.30	122.70	1.40		9	.4	260	100	14
				4089	122.70	124.35	1.65		15	.2	331	100	13
83.03	102.21		Wide section of highly bleached and kaolinized granitic intrusive. The	4090	124.35	125.58	1.23		12	.3	219	98	18
			section is sheared and contains several fault zones with fault gouge.	4091	125.58	126.85	1.27		7	.3	167	96	13
				4092	130.90	132.45	1.55		11	.5	92	82	8
			From 88.00 - 89.00m fault gouge, fragments of andesite mixed with clay.	4093	132.45	133.50	1.05		7	.6	330	80	9
				4094	142.00	142.80	0.80		4	.1	18	61	4
102.21	121.30		Light green, chloritic porphyritic andesite, fragments of angular andesitic	4095	142.80	144.00	1.20		23	.1	9	55	5
			material throughout.	4096	146.54	147.70	1.16		75	2.3	251	101	31
121.30	126.85		Same as above to 121.30m but bleached, kaolinized section.										
126.85	129.00		Green, chloritic porphyritic andesite.										
129.00	129.85		Maroon porphyritic andesite, agglomeratic, c.g. massive.										
129.85	130.60		Felsic dyke, pink porphyritic, plagioclase slightly greenish, groundmass										
			pink.										
130.60	133.50		Beige and grey, kaolinized porphyritic andesitic volcanic, agglomeratic.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
133.50	142.00		Maroon porphyritic andesite, agglomeratic, eg. massive, locally cut by thin quartz veinlets at 70° to core axis. Moderately broken core.										
142.00	144.00		Maroon porphyritic andesite, agglomeratic, c.g. sheared, cut by thin quartz-calcite-chlorite veins at low angles to core axis.										
144.00	146.54		Maroon and green, porphyritic andesite, agglomeratic, c.g. cut locally by white quartz veinlets.										
146.54	147.70		Beige, bleached and kaolinized porphyritic andesite, agglomeratic, minor light beige quartz veins.										
147.70	171.00		Green, chloritic, porphyritic andesite, agglomeratic, minor thin quartz veinlets, locally cp, py grains.										
171.00	172.62		Green, fine grained basaltic volcanic, massive, cut by minor quartz veinlets, no sulphides visible.										
176.62	192.63		Green, coarse grained, chloritic porphyritic andesite, agglomeratic, very minor thin quartz veinlets and locally bleached sections. Foot of hole.										
			Acid Tests										
			Red Corrected										
			60.96m - 57° 00' - 49° 00'										
			121.92m - 60° 00' - 52° 00'										
			182.88m - 60° 00' - 52° 00'										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : TRS87-4
COMMENCED: July 27, 1987
COMPLETED: August 2, 1987
OBJECTIVE:

LOCATION : TRS Grid
LOC. : 10+09N/3+38W
ELEV. :
CORE SIZE: BQ
Azimuth : 055°

CORRECT DIP: -45°
TRUE BRG : 055°
SURVEY AT :
% RECOVERY :
LENGTH : 122.53m

PAGE : 1 of 5
LOGGED BY : R. Pesalj
DATE : July 2, 1987
CORE STORED : At the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
0.00	6.70		Overburden. Boulders of mafic volcanics, BW casing	4097	23.57	25.09	1.52		12	36.4	8.6	1839	328
				4098	25.09	25.37	0.28		20	314.9	154.0	6741	2261
6.70	10.05		Rusty, heavily oxidized, brown volcanic, dark brown manganese and iron	4099	25.37	25.97	0.60		14	70.0	134.0	2431	960
			oxides throughout the section, soft, weathered section of the bedrock.	4100	25.97	27.52	1.55		32	18.2	123.0	510	504
				4101	27.52	29.04	1.52		52	7.2	109.0	287	142
10.05	15.24		Light grey, fine grained, massive andesitic volcanic, slightly bleached	4102	29.04	30.26	1.22		31	4.4	99.0	208	74
			section. Locally sheared and faulted, minor green, altered plagioclase	4103	32.61	34.14	1.53		20	3.1	77.0	201	80
			crystals. Fine grained pyrite along the fractures, pyrite <1%. At 11.68m	4104	41.45	43.12	1.67		6	3.8	41.0	332	70
			fault gouge 5cm.	4105	43.12	44.20	1.08		5	7.4	62.0	183	44
				4106	44.20	44.96	0.76		3	5.0	91.0	275	55
15.24	23.57		Grey, fine grained, massive andesitic volcanic. Local rusty weathered,	4107	44.96	46.02	1.06		7	4.1	51.0	1085	442
			sheared sections with iron and manganese oxides along the fractures. Pyrite	4108	46.02	47.39	1.37		3	1.9	85.0	770	144
			concentrated along the joints, overall content less than 1%. Minor quartz-	4109	47.39	48.80	1.41		10	6.4	75.0	796	595
			calcite veinlets 1-5mm wide at 45° to core axis.	4110	48.80	50.50	1.70		3	2.8	168.0	286	41
				4111	50.50	51.35	0.85		4	2.3	75.0	243	45
23.57	25.09		Andesitic volcanic as above, moderately fractured, disseminated and veinlet	4112	51.35	53.30	1.95		2	1.7	125.0	138	20
			pyrite 3%.	4113	53.30	53.95	0.65		1	3.4	136.0	152	24
				4114	53.95	55.40	1.45		1	2.8	112.0	111	26
25.09	25.37		Green andesitic volcanic cut by white quartz veinlets at 50° to core axis.	4115	59.60	60.50	0.90		26	3.0	217.0	1082	341
			Disseminated and veinlet pyrite 5-8%.	4116	60.50	61.56	1.06		250	4.0	127.0	1044	247
				4117	61.56	64.00	2.44		15	11.7	96.0	332	143

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
25.37	25.97		Green andesitic volcanic as above, fractured, disseminated and veinlet	4118	64.00	64.25	0.25		240	128.6	272.0	24306	9938
			pyrite 3%.	4119	64.25	65.55	1.30		33	12.3	84.0	372	73
				4120	65.55	66.55	1.00		5	254.3	290.0	29910	16217
25.97	30.26		Green andesitic volcanic, more fractured than the section above, dis-	4121	66.55	67.66	1.11		4	52.1	136	7038	2577
			seminated and veinlet pyrite 10%. Minor quartz-calcite veinlets at 50° to	4122	67.66	68.70	1.04		1	14.2	92	407	199
			core axis.	4123	68.70	69.20	0.50		1	5.0	128	452	211
				4124	69.20	71.60	2.40		1	4.2	147	410	94
30.26	32.61		Light grey-green andesitic volcanic, no sulphides visible, minor fracturing	4125	71.60	73.00	1.40		1	6.6	115	468	226
			throughout the section.	4126	73.00	75.28	2.28		3	4.9	16	938	395
				4127	75.28	76.81	1.53		22	8.1	23	372	423
32.61	34.14		Green andesitic volcanic, disseminated fine grained pyrite throughout, over-	4128	103.90	105.42	1.52		36	4.1	158	1050	216
			all pyrite content 8-10%.	4129	105.42	106.35	0.93		85	2.7	90	582	160
				4130	106.35	107.29	0.94		90	5.2	117	1644	689
34.14	41.45		Green andesitic volcanic as above, disseminated pyrite less than 1%. The	4131	107.29	108.81	1.52		47	3.0	127	1234	222
			unit is massive, fine grained, with minor quartz veinlets.	4132	108.81	110.34	1.53		18	2.0	91	613	198
				4133	110.34	111.86	1.52		25	2.8	111	466	121
41.45	48.80		Beige, bleached, highly kaolinized, brecciated andesitic volcanic. Frag-	4134	111.86	113.48	1.62		38	5.4	152	955	403
			ments 1-5cm angular, cemented with grey quartz with disseminated pyrite.										
			Pyrite content 1-3% overall, locally 5-8%.										
48.80	56.00	56.	Beige and green, locally highly fractured andesitic volcanic with occasional										
			zones of silicification.										
			From 50.50-51.35 intensely fractured and brecciated, cemented with quartz										
			and py cement.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			From 51-35-53.95m green, chloritic section.										
			From 53-95-5540m beige, bleached section, locally sheared.										
56.00	59.60		Green, massive, fine grained andesitic volcanic, local fragments of the same composition, minor white quartz veinlets.										
59.60	60.50		Brecciated andesitic volcanic. Beige angular fragments set in grey, chloritic matrix. Disseminated pyrite abundant in the matrix, absent in fragments. Disseminated pyrite 3%.										
60.50	61.56		Same as above, but more sheared section. Badly broken core. Disseminated pyrite 8%.										
61.56	64.00		Green, chloritic andesitic volcanic, soft, brecciated, occasional quartz veinlets, pyrite less than 1%.										
64.00	64.25		Same as above but sheared, quartz vein 1cm wide, sphalerite, pyrite and minor galena along the vein contacts. Sulphides 3-5%.										
64.25	65.55		Beige, bleached, brecciated andesitic volcanic, fragments cemented by quartz pyrite matrix.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
65.55	66.55		Green and dark green, sheared andesitic volcanic, bands and disseminations of sphalerite, pyrite and minor galena and chalcopyrite with white and mauve jasperoid veins. Foliation strong at 40° to core axis.										
66.55	70.71		Green and beige andesitic volcanic, brecciated, fragments cemented by quartz and pyrite cement.										
70.71	75.28		Shear zone in bleached, massive andesitic volcanic. Badly broken core. Core recovery 80%. No visible sulphides in this section.										
75.28	76.81		Fault zone in bleached, kaolinized, soft andesitic volcanic. Core recovery 40%.										
76.81	103.90		Light grey, massive, bleached andesitic volcanic with locally sheared and faulted sections. The unit is brecciated and contains minor disseminated pyrite. From 77.70-78.00m fault gouge. At 81.00 thin quartz-carbonate veinlet along the core. From 98.14 to 102.72m sheared section, bleached, kaolinized.										
103.90	106.35		Beige, brecciated, andesitic volcanic, soft, disseminated fine grained pyrite and grey quartz along the fractures.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
106.35	113.48		Green, brecciated andesitic volcanic, disseminated and veinlet pyrite throughout the section. Sulphide content 5-8%. Minor thin quartz veinlets without sulphide. Dark grey quartz veinlets with disseminated pyrite throughout.										
113.48	122.53		Light green, massive, fine grained andesitic volcanic locally cut by thin quartz-calcite veinlets. Dominant trend of veinlets is at 45°-50° to core axis. Foot of hole.										
			Acid Tests										
			Red Corrected										
			60.96m - 57°00' - 49°00'										
			121.92m - 55°00' - 46°30'										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : DDH 19
COMMENCED: August 17, 1987
COMPLETED: August 20, 1987
OBJECTIVE:

LOCATION : West Drill Grid
LOC. : 9 + 20E/0 + 90S
ELEV. :
CORE SIZE: BQ

CORRECT DIP: -55°
TRUE BRG : 045°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 262.13m

PAGE : 1 of 6
LOGGED BY : R. Pesalj
DATE :
CORE STORED : At the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
0.00	3.66		Overburden, angular fragments of mafic volcanics, BW casing.	4135	11.90	13.42	1.52		47	1.0	209	128	
				4136	29.30	29.77	0.47		29	.5	720	99	
3.66	11.90		Dark green, medium grained, massive andesitic volcanic, badly broken core,	4137	29.77	31.28	1.51		8	.4	171	185	
			iron oxides along the fractures.	4138	31.28	32.17	0.89		17	.4	165	124	
				4139	33.63	34.08	0.45		12	.3	148	129	
11.90	13.42		Andesitic volcanic, light grey-green, cut by white quartz veinlets, slightly	4140	38.05	38.61	0.56		205	.5	165	92	
			bleached, trace pyrite, abundant epidote along the fractures.	4141	42.66	42.86	0.20		8	.2	24	195	
				4142	47.26	47.46	0.20		6980	1.9	113	116	0.216
13.42	25.62		Dark green, massive andesitic volcanic, rare quartz veinlets and epidote	4143	52.43	53.40	0.97		11	.3	256	155	
			filled fractures, locally limonite coated fractures.	4144	54.00	55.78	1.78		31	.2	87	184	
				4145	65.43	66.00	0.57		12	.4	53	194	
25.62	26.50		Dark green and pink granite porphyry, numerous inclusions of highly	4146	66.00	66.45	0.45		8	.4	44	105	
			chloritized volcanic material.	4147	68.40	69.80	1.40		26	.6	352	158	
				4148	69.80	70.50	0.70		10	.2	63	131	
26.50	27.88		Green and dark green andesitic volcanic minor bleaching and quartz veinlets.	4149	70.50	71.00	0.50		1	.1	20	149	
				4150	71.00	72.83	1.83		17	.9	566	135	
27.88	29.30		Pink and light grey granite porphyry, few quartz phenocrysts, rare quartz	4151	75.05	75.85	0.80		4	.1	29	115	
			veinlets. Contact with volcanics sharp at 40°-60°.	4152	75.85	76.15	0.30		5	.4	47	64	
				4153	114.71	115.21	0.50		10	.3	105	122	
29.30	29.77		The contact zone between porphyry and andesite, some quartz veinlets, no	4154	119.90	121.45	1.55		11	.2	36	170	
			visible sulphides.	4156	121.45	123.15	1.70		11	.5	95	158	
				4157	123.15	124.50	1.35		1	.1	26	208	
29.77	31.28		Dark green, fine to medium grained andesitic volcanic cut by fine quartz	4158	124.50	126.70	1.20		8	.9	645	216	
			veinlets at various angles to core axis.	4159	129.05	129.95	0.90		3	.1	26	132	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
31.28	32.17		Light green andesitic volcanic slightly bleached, cut by white quartz vein	4160	129.95	130.85	0.90		2	.6	203	117	
			swarm, trace pyrite.	4161	132.80	134.80	2.00		19	.3	59	178	
				4162	134.80	135.90	1.10		7	.1	10	113	
32.17	33.63		Dark green andesitic volcanic, medium grained, minor hairline quartz	4163	135.90	136.85	0.95		3	2.1	7	138	
			veinlets.	4164	151.30	152.65	1.35		25	.1	15	143	
				4165	152.65	153.62	0.97		11	.1	11	186	
33.63	34.08		Light grey, bleached andesitic volcanic at the contact with porphyry, the	4166	183.07	183.97	0.90		25	.1	7	108	
			rock is cut by thin quartz veinlets throughout. No visible sulphide in the	4431	202.20	202.43	0.23		11	.2	4	137	
			zone.	4432	223.70	224.00	0.30		4	.1	2	113	
34.08	38.05		Light grey diorite porphyry. White, coarse phenocrysts of plagioclase set										
			in grey quartz-feldsparthic matrix. From 35.25-35.96m inclusion of dark										
			green andesitic volcanic.										
38.05	38.61		Light grey-green, slightly bleached andesitic volcanic in contact with										
			diorite porphyry. Minor quartz veinlets, no visible sulphides.										
38.61	42.66		Dark green, fine grained mafic volcanic of basaltic composition. The unit										
			is massive with minor quartz veinlets and epidote.										
42.66	42.86		White and light green quartz vein in mafic volcanic. Weak foliation at										
			70° to core axis.										
42.86	47.26		Mafic volcanic as above to 42.66m.										
47.26	47.46		Thin, 0.5-1.0cm quartz-pyrite veinlets in mafic volcanic rock similar to the										
			unit above. Disseminated pyrite 3-5%.										
47.46	52.43		Mafic volcanic of basaltic to andesitic composition, minor quartz veinlets										
			and disseminated pyrite locally.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
52.43	53.40		Light grey and beige porphyritic intrusive, soft, bleached, green plagio-										
			clase phenocrysts throughout. Stockwork of quartz veinlets 15-20% quartz.										
53.40	54.00		Porphyritic intrusive as above to 53.40m but no quartz veinlets visible.										
54.00	55.78		Mafic volcanic cut by white quartz-calcite veinlets at low angles to core										
			axis. Quartz 5-8%.										
55.78	65.43		Mafic volcanic of basaltic to andesitic composition, f.g., massive. Minor										
			white quartz veinlets at low density.										
65.43	66.00		Light grey intrusive, bleached, soft, minor white quartz veinlets.										
66.00	66.45		White quartz, minor calcite vein cutting the intrusive above. No visible										
			sulphides. Inclusions of green, chloritic intrusive 10%.										
66.45	68.40		Dark green, massive, fine grained volcanic with minor quartz veinlets.										
68.40	69.80		Light green and red, hematitic volcanic as above, minor quartz veinlets										
			throughout.										
69.80	70.50		Same as above to 69.80m but less altered.										
70.50	71.00		White quartz veins cutting mafic volcanic at the contact with the unit										
			above. Quartz content 35%.										
71.00	72.83		Green to dark green mafic volcanic cut by white quartz veinlets.										
72.83	75.05		Andesitic volcanic, dark green, massive, medium grained, cut by thin quartz										
			veinlets <5mm wide.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
75.05	75.85		Same as above, slightly bleached, quartz veinlets more abundant.										
75.85	76.15		White and mauve quartz vein with green chloritic banding at 40° to core axis. Quartz content 85%.										
76.15	76.72		Pink and green, coarse grained granitic intrusive.										
76.72	114.71		Dark green, coarse grained, massive andesitic volcanic, locally porphyritic, occasional white quartz veinlets. The veins locally contain specularite but no visible sulphides. From 89.00m to 114.71m veins very rare, occasional pink granitic intrusive bands.										
114.71	115.21		White and pink quartz-feldspar veins, inclusions of dark green volcanic 30-40%. Large pyrite crystals up to 3cm across in the centre of the vein. Contacts with volcanic sharp.										
115.21	119.90		Dark green, coarse to medium grained, andesitic volcanic, local pink intrusive bands at 45° to core axis. Epidote along the fractures very common.										
119.90	126.70		Green and pink, medium grained, equigranular granitic intrusive cut by thin quartz veinlets at various angles to core axis. Local narrow zones of highly brecciated intrusive cemented by quartz.										
126.70	129.05		Dark green, medium to coarse grained mafic volcanic of andesitic composition.										
129.05	130.85		Light green, bleached andesitic volcanic cut by quartz and jasperoid veinlets. At 129.30m vague with anhidrite crystals at low angle to core axis. Overall quartz content 25%.										

TAKLA-RAINBOW PROPERTY
DDH 19

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
130.85	132.80		Dark green, chloritic andesitic volcanic, medium grained, massive, chloritic blebs throughout.										
132.80	136.85		Light grey, bleached andesitic volcanic cut by quartz-anhidrite veins at low angles to core axis. No visible sulphides.										
136.85	151.30		Dark green, massive basaltic volcanic, medium to coarse grained. The unit is slightly magnetic.										
151.30	152.65		Light grey, bleached, basaltic volcanic cut by white quartz vein stockwork. No visible sulphides in this section.										
152.65	153.62		Dark green, massive basaltic volcanic, minor quartz veinlets along the core.										
153.62	157.88		Dark green, massive basaltic volcanic, minor quartz veinlets. The unit is slightly magnetic.										
157.88	161.16		Light green, soft, broken up basaltic volcanic. The unit is highly altered with iron oxides along the fractures.										
161.16	183.07		Dark green medium to coarse grained mafic volcanic of basaltic composition. The unit is slightly magnetic. At 155.70m quartz-feldspar vein pink, 5cm wide, thin quartz veinlets 1-5mm throughout, but at low density.										
183.07	183.97		Light grey, highly silicified andesitic volcanic, brecciated, fragments bleached and cemented by quartz cement. Contacts with mafic volcanic above sharp at 40° and 60°.										
183.97	202.20		Mafic andesitic volcanic, dark green, porphyritic, plagioclase phenocrysts highly chloritized, rare quartz veinlets. The unit is slightly magnetic.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
202.20	202.43		Breccia, fragments of white quartz cemented by crushed volcanic material.										
			A quartz vein 2cm wide above the breccia at 40° to core axis.										
202.43	223.70		Andesite, porphyritic, green, phenocrysts of augite 2-5mm set in green,										
			chloritic matrix. Occasional epidote veinlets and irregular patches										
			throughout the section. The unit is slightly magnetic. Rare quartz vein-										
			lets at 30°-60° to core axis.										
223.70	224.00		White and pink quartz vein, banded, quartz and hematitic red bands alter-										
			nating. Banding at 50° to core axis.										
224.00	234.65		Andesite, porphyritic, dark green groundmass with white plagioclase pheno-										
			crysts 2-5mm along throughout the unit. Not magnetic. The contact between										
			porphyry is sharp at 30° to core axis. The unit gradually gets more felsic										
			toward the contact.										
234.65	261.21		Granite porphyry, pink groundmass with K-spar and white plagioclase pheno-										
			crysts, with minor quartz phenocrysts. Rare quartz veinlets at various										
			angles to core axis. From 255.73m to 256.13m the unit is sheared, badly										
			broken core.										
261.21	262.13		Lost core in shear zone. Water circulation stopped. Rods got stuck. Hole										
			abandoned. 3.66m of BW casing left in hole.										
			Sperry-Sun Tests*										
			Depth: Dip: Azimuth: *Readings not reliable due to										
			66.14 -58°00' 328° presence of magnetic volcanic										
			127.10 -58°00' 043° units in the hole.										
			188.06 -60°00' 031°										
			249.94 -59°00' 035°										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : DDH 20
COMMENCED: August 20, 1987
COMPLETED: August 22, 1987
OBJECTIVE:

LOCATION : West Drill Grid
LOC. : 2 + 46E/0 + 58S
ELEV. :
CORE SIZE: BQ

CORRECT DIP: -55°
TRUE BRG : 045°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 181.97m

LOGGED BY : R. Pesalj
DATE : August 22, 1987
CORE STORED : At the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
0.00	15.24		Overburden, fragments of mafic volcanics, BW casing.	4167	15.24	17.37	2.13		19	.1	15	93	
				4168	17.37	18.74	1.37		54	.1	13	148	
15.24	18.07		Dark green and pink, highly chloritized granitic intrusive, coarse grained,	4169	18.74	20.12	1.38		31	.4	279	127	
			massive, epidote blebs and irregular patches throughout, disseminated pyrite	4170	20.12	21.64	1.52		76	.2	59	79	
			3-5%. The unit consists of K-spar, chlorite and epidote.	4171	21.64	23.07	1.43		73	.2	15	96	
				4172	23.07	24.38	1.31		47	.1	10	96	
18.07	19.24		Dark green, massive basaltic volcanic, fine grained, epidote patches	4173	24.38	25.90	1.52		171	.2	13	90	
			throughout, at 18.95m quartz vein, banded, 3cm wide, cutting volcanic at	4174	25.90	27.90	2.00		28	.1	7	80	
			60° to core axis.	4175	27.90	29.57	1.67	30%	86	.1	19	99	
				4176	29.57	31.90	2.33		46	.1	8	98	
19.24	27.90		Dark green and pink granitic intrusive as above to 18.07m, numerous	4177	31.90	32.30	0.40		62	.3	15	119	
			inclusions of highly chloritized volcanic. The rock consists of K-spar	4178	32.30	34.14	1.84		98	.3	287	108	
			epidote and chlorite, but no quartz.	4179	34.14	35.96	1.82		37	.2	51	101	
				4180	35.96	36.40	0.44		138	.4	292	114	
27.90	29.57		Sheared intrusive, blocky core, fragments 1-5cm, some with 1cm wide quartz	4181	36.40	37.79	1.39		43	.1	27	121	
			veins 1cm wide with disseminated pyrite. Core recovery in this section is	4182	37.79	39.30	1.51		54	.3	99	170	
			30%.	4183	39.30	40.54	1.24		680	2.3	2379	102	0.019
				4184	40.54	41.60	1.06		1530	2.2	2266	88	0.052
29.57	31.90		Dark green and pink granitic intrusive as above to 27.90m, disseminated	4185	41.60	43.28	1.68		94	.4	346	76	
			pyrite 1-2%, abundant epidote.	4186	43.28	44.81	1.53		37	.3	135	76	
				4187	44.81	45.01	0.20		118	.4	134	53	
31.90	32.30		Dark green, chloritic mafic volcanic inclusion in granitic intrusive, dis-	4188	45.01	46.18	1.17		39	.2	34	70	
			seminated pyrite 5-8%.	4189	46.18	47.45	1.27		89	.5	227	58	
				4190	47.45	48.50	1.05		320	.8	491	132	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
32.30	40.54		Pink and green granitic intrusive, coarse grained, equigranular, highly	4191	48.50	50.20	1.70		670	.6	353	148	
			chloritized, disseminated and veinlet pyrite 3%, epidote throughout.	4192	50.20	51.10	0.90		290	.3	134	159	
				4193	51.10	51.66	0.56		2640	7.1	6408	265	0.065
40.54	41.60		Same as above to 40.54m but with 5% pyrite.	4194	51.66	52.13	0.47		3720	8.0	8693	716	0.123
				4195	52.13	52.66	0.52		4840	6.4	9931	295	0.137
41.60	44.81		Same as above, fine grained disseminate pyrite 3-5%, locally 5-8%.	4196	52.66	54.30	1.64		92	.3	378	117	
				4197	54.30	55.47	1.17		112	.4	186	141	
44.81	48.16		Pink and green, coarse grained, chloritic granitic intrusive, minor dis-	4198	55.47	57.00	1.53		370	.6	368	123	
			seminated pyrite.	4199	57.00	58.83	1.83		78	.2	38	67	
				4200	66.75	68.28	1.53		162	.1	17	57	
48.16	56.54		Dark green, highly chloritic mafic volcanic of andesitic composition. The	4201	68.28	69.55	1.27		93	.1	43	49	
			unit is very fine grained, massive and locally cut by pink granitic intru-	4202	69.55	70.45	0.90		980	1.9	13	44	0.028
			sive. High concentration of disseminated pyrite locally, average 3%, minor	4203	70.45	72.24	1.79		74	.2	22	60	
			magnetite.	4204	72.24	73.76	1.52		69	.1	19	57	
				4205	73.76	75.29	1.53		59	.1	20	66	
			From 51.10 to 52.66m pyrite content 5-8%.	4206	75.29	76.81	1.52		250	.1	27	65	
				4207	76.81	77.52	0.71		495	.4	66	182	
56.54	58.83		Pink and dark green chloritic granitic intrusive, fine grained disseminated	4208	77.52	78.80	1.28		250	.2	26	164	
			pyrite 3%.	4209	78.80	79.80	1.00		295	.1	57	178	
				4210	79.80	80.45	0.65		8320	.7	199	165	0.229
58.83	69.55		Pink and green granitic intrusive, coarse grained, equigranular, minor	4211	80.45	81.20	0.75		485	.2	83	149	0.013
			disseminated pyrite, no quartz veining, abundant epidote.	4212	81.20	81.55	0.35		2020	3.1	2860	230	0.055
				4213	81.55	82.75	1.20		1090	.3	144	110	0.029
69.55	72.24		Granitic intrusive as above to 69.55m cut by thin quartz veinlets running	4214	82.75	84.20	1.45		165	3.2	2 97	152	
			mainly along the core. Disseminated pyrite 5%, quartz veinlets 1-2%.	4215	84.20	85.63	1.43		225	.1	174	123	
				4216	85.63	87.08	1.43		225	.2	168	102	

TAKLA-RAINBOW PROPERTY
DDH 20

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
72.24	76.81		Pink and green granitic intrusive as above to 69.55m, disseminated pyrite	4217	87.08	88.53	1.45		124	.3	234	112	
			5%, no quartz veining.	4218	88.53	89.90	1.37		122	.2	264	113	
				4219	89.90	91.35	1.45		108	.1	75	138	
76.81	77.52		A contact zone between pink granitic intrusive as above and dark green mafic	4220	91.35	92.67	1.32		245	.1	184	127	
			volcanic of andesitic composition. Disseminated fine grained pyrite in	4221	92.67	94.10	1.43		240	.1	189	133	
			both, intrusive and volcanic. Light grey magnesite (?) veinlets cutting	4222	94.10	95.25	1.15		395	.4	482	119	
			the volcanic. Pyrite content 10-15%.	4223	95.25	96.62	1.37		415	.5	490	121	
				4224	96.62	98.15	1.53		365	.5	374	124	
77.52	79.80		Dark green, fine grained, massive andesitic volcanic cut by light grey	4225	98.15	99.67	1.52		330	.4	365	139	
			magnesite (?) veinlets, disseminated pyrite 10-15%. The rock is not	4226	99.67	101.19	1.52		215	.2	269	117	
			magnetic.	4227	101.19	101.89	0.70		275	.2	46	111	
				4228	101.89	103.44	1.55		122	.1	51	103	
79.80	80.45		Dark green andesitic volcanic cut by grey quartz veinlets in form of stock-	4229	103.44	105.00	1.56		104	.1	32	135	
			work system throughout the section. Disseminated pyrite 15-20%, quartz	4230	108.81	110.33	1.52		72	.1	77	120	
			40-50%.	4231	110.33	111.86	1.53		112	.1	28	142	
				4232	111.86	113.38	1.52		134	.2	81	132	
80.45	81.55		Dark green andesitic volcanic as above, but lesser quartz veining and	4233	113.38	114.76	1.38		114	.1	22	137	
			pyrite mineralization. Pyrite content 5-8%, quartz 10-20%.	4234	114.76	116.43	1.67		78	.1	22	137	
				4235	116.43	117.96	1.53		1310	2.4	39	90	0.044
81.55	82.75		Pink granitic intrusive with inclusions of basaltic volcanic. Disseminated	4236	117.96	119.47	1.51		1215	1.6	137	94	0.033
			pyrite and minor veinlet pyrite 8%.	4237	119.47	121.01	1.54		129	.3	165	120	
				4238	121.01	122.41	1.40		42	.2	34	137	
82.75	85.63		Andesitic volcanic with occasional dykes of granitic intrusive. Dis-	4239	122.41	123.90	1.49		57	.2	106	105	
			seminated pyrite 5%.	4240	123.90	125.27	1.37		93	.2	120	103	
				4241	125.27	126.60	1.33		132	.3	190	126	

TAKLA-RAINBOW PROPERTY
DDH 20

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
85.63	87.48		Pink granitic intrusive with abundant inclusions of mafic volcanic. Minor	4242	126.60	128.00	1.40		113	.2	95	110	
			quartz and moderate epidote veinlets. Disseminated pyrite 5%.	4243	128.00	129.40	1.40		105	.3	127	130	
				4244	129.40	131.00	1.60		74	.1	45	126	
87.48	101.19		Dark green, chloritic andesitic volcanic, massive, medium grained with	4245	131.00	132.40	1.40		124	.2	60	119	
			numerous dyklets of pink granitic intrusive. Disseminated pyrite and	4246	132.40	133.70	1.30		129	.1	42	100	
			epidote veinlets throughout, some anhidrite or gypsum veinlets also	4247	133.70	135.35	1.65		210	.3	62	99	
			present. Pyrite content 3-5% average.	4248	135.35	136.25	0.90		122	.2	33	117	
				4249	136.25	137.77	1.52		94	.3	135	137	
101.19	101.89		Dark green, highly sheared andesitic volcanic cut by few quartz veinlets	4250	137.77	138.59	0.82		144	.3	292	121	
			along the contact with granitic porphyry below. Disseminated pyrite 3%.	4251	138.59	139.60	1.01		265	.6	329	101	
				4252	139.60	140.66	1.06		350	.3	64	116	
101.89	105.00		Pink granite porphyry with numerous inclusions of mafic volcanics.	4253	140.66	141.84	1.18		285	.4	40	102	
			Disseminated pyrite 1-3%, rare quartz veinlets.	4254	141.84	142.44	0.60		205	.3	21	116	
				4255	142.44	143.54	1.10		89	.1	35	105	
105.00	108.81		Pink granitic porphyry, trace disseminated pyrite, minor quartz veinlets.	4256	143.54	145.30	1.76		165	.1	86	117	
				4257	145.30	146.70	1.40		103	.3	42	161	
108.81	142.44		Pink and dark green granitic porphyry with abundant mafic volcanic inclu-	4258	146.70	148.00	1.30		64	.2	112	102	
			sions, numerous epidote veinlets and discreet thin quartz veinlets 1-3mm	4259	148.00	149.40	1.40		210	.6	231	101	
			wide. Disseminated pyrite 2-3% average, locally to 10% over narrow widths.	4260	149.40	150.89	1.49		154	.4	51	114	
				4261	150.89	152.00	1.11		111	.4	62	115	
			From 135.35 to 142.44m increase of epidote and pyrite content. Pyrite	4262	152.00	153.20	1.20		112	.3	98	92	
			average 5-8%.	4263	153.20	154.53	1.33		87	.4	159	174	
142.44	152.00		Dark green, highly chloritized granitic porphyry, similar to the unit above,										
			but more quartz veinlets 1-3mm wide. Disseminated and veinlet pyrite										
			throughout, rare epidote. Pyrite content 8-10%.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
152.00	152.20		Fault gouge, fragments of porphyry with clay.										
152.20	154.00		Shear zone, fragments of porphyry 1-3cm across, badly broken core.										
154.00	154.53		Granitic porphyry, disseminated pyrite 1-3%, massive. Contact with diorite porphyry below gradual.										
154.53	159.00		Granite porphyry, grey and pinkish, plagioclase phenocrysts 1-10mm set in plagioclase and K-spar matrix. No visible sulphides in this unit. The unit is free of chlorite-epidote alteration.										
159.00	164.50		Diorite porphyry, light grey, consists of large, 1-10mm plagioclase laths set in grey plagioclase rich matrix. The rock is slightly bleached, no chlorite except in some plagioclase grains, no pyrite.										
164.50	171.45		Granite porphyry, pink and grey, similar to unit above to 159.00m. The rock is broken with clay along the fractures.										
171.45	179.60		Dark green, fine grained massive andesitic volcanic, medium grained, no visible sulphides, rare hairline quartz veinlets.										
179.60	181.97		Diorite, grey and light grey, locally bleached, minor quartz veinlets, trace pyrite. Foot of hole.										
			Sperry-Sun Tests:										
			Depth: **Dip:** **Azimuth:**										
			57.00m 55°00' 043°										
			117.96m 56°00' 042°										
			178.92m 55°30' 043°										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : DDH 21
COMMENCED: August 22, 1987
COMPLETED: August 24, 1987
OBJECTIVE:

LOCATION : West Drill Grid
LOC. : 2 + 46E/1 + 08S
ELEV. :
CORE SIZE: BQ

CORRECT DIP: -55°
TRUE BRG : 045°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 224.64m

PAGE : 1 of 5
LOGGED BY : R. Pesalj
DATE : August 23, 1987
CORE STORED : At the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
0.00	9.14		Overburden, fragments of mafic volcanic, soil, BW casing.	4264	18.20	19.50	1.03		21	.4	211	124	
				4265	19.50	19.95	0.45		63	.7	610	119	
9.14	13.81		Dark green, massive, fine grained mafic volcanic of andesitic composition.	4266	19.95	21.47	1.52		20	.2	107	129	
			Local zones rich in epidote, minor disseminated pyrite.	4267	30.10	31.63	1.53		105	.3	31	102	
				4268	31.63	32.61	0.98		42	.1	26	148	
13.81	18.20		Grey diorite porphyry with large plagioclase laths to 5mm set in grey, fine	4269	32.61	33.46	0.85		185	.5	299	126	
			grained plagioclase rich matrix.	4270	76.52	77.32	0.80		43	.4	72	107	
				4271	78.94	80.50	1.56		150	.3	108	106	
18.20	19.50		Andesitic volcanic as above to 13.81m, disseminated pyrite 1-2%.	4272	80.50	82.05	1.55		76	.2	10	92	
				4273	82.05	83.50	1.45		165	.2	11	120	
19.50	19.95		Andesitic volcanic cut by thin quartz veinlets, disseminated pyrite 5-8%,	4274	83.40	84.85	1.45		71	.1	9	119	
			abundant epidote alteration.	4275	84.85	85.45	0.60		63	.1	6	113	
				4276	85.45	86.35	0.90		485	.1	6	111	
19.95	33.46		Mafic andesitic volcanic, rare quartz and epidote veinlets, disseminated	4277	86.35	86.90	0.55		365	.2	8	126	
			pyrite 2-3%.	4278	86.90	87.60	0.70		225	.2	9	103	
				4279	87.60	88.50	0.90		720	.3	149	115	0.018
33.46	36.27		Pink and grey granite porphyry, sheared, broken core, occasional fractures	4280	88.50	89.08	0.58		190	.3	118	123	
			coated with iron oxide.	4281	89.08	90.10	1.02		265	.1	87	122	
				4282	90.10	91.00	0.90		295	.2	40	111	
36.27	38.40		Dark green mafic volcanic of andesitic composition, badly broken	4283	91.00	92.53	1.53		67	.3	73	92	
			core, shear zone.	4284	92.53	94.10	1.57		46	.2	10	57	
				4285	94.10	96.62	2.52		124	.2	16	75	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
38.40	43.90		Dark green andesitic volcanic as above to 33.46m trace sulphides, minor	4286	96.62	98.15	1.53		114	.2	15	65	
			epidote.	4287	98.15	99.67	1.52		90	.1	112	112	
43.90	49.20		Fault, fine fragments of andesite.	4288	99.67	101.19	1.52		108	.2	153	153	
				4289	101.19	102.72	1.53		42	.1	76	76	
49.20	78.94		Andesite, dark green, fine to medium grained, massive, rare quartz and	4290	102.72	104.24	1.52		91	.3	76	76	
			epidote veinlets. The unit is not magnetic. Local narrow zones with dis-	4291	104.24	105.77	1.53		79	.1	43	43	
			seminated pyrite and epidote.	4292	105.77	107.29	1.52		64	.1	10	10	
				4293	107.29	108.81	1.52		88	.2	48	48	
			From 76.52 to 77.32m highly epidotized section, thin 1-5mm quartz veinlet,	4294	108.81	110.34	1.53		83	.1	29	29	
			pyrite content 5-8%.	4295	110.34	111.86	1.52		78	.1	38	38	
				4296	111.86	113.38	1.52		72	.1	6	6	
78.94	85.45		Grey and green granite porphyry, occasional quartz veinlets, disseminated	4297	113.38	114.91	1.53		32	.1	89	89	
			pyrite 5-8%.	4298	114.91	116.42	1.51		96	.1	12	12	
				4299	116.42	117.96	1.54		71	.1	10	10	
85.45	91.00		Dark green and pink granite porphyry, highly chloritic inclusions of mafic	4300	117.96	119.48	1.52		83	.1	8	8	
			volcanic, disseminated and stringer pyrite 8-10%.	4301	119.48	121.01	1.53		84	.1	8	8	
				4302	121.01	122.53	1.52		76	.1	22	22	
91.00	113.38		Pink and green granite porphyry disseminated pyrite 5%, rare quartz vein-	4303	122.53	124.50	1.97		131	.2	12	12	
			lets. From 113.00 - 113.38m fault, fragments of porphyry 0.5-2.0cm across,	4304	124.50	125.87	1.37		405	.1	48	48	
			angular, no fault gouge.	4305	125.87	127.80	1.97		265	.3	179	179	
				4306	127.80	129.05	1.25		165	.3	143	143	
113.38	124.50		Granite porphyry, green and pink, disseminated pyrite 2-3%, rare quartz	4307	129.05	129.85	0.80		860	.4	447	447	0.026
			veinlets, epidote.	4308	129.85	131.20	1.35		750	.3	214	214	0.014
				4309	131.20	132.00	0.80		520	.5	535	535	

TAKLA-RAINBOW PROPERTY
DDH 21

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
124.50	129.05		Green, highly chloritic andesitic volcanic with discreet bands of K-spar	4310	132.00	132.80	0.80		520	.3	120	120	
			rich material found locally. Disseminated pyrite 1-2%, minor quartz	4311	132.80	134.40	1.60		215	.1	80	80	
			veining.	4312	134.40	135.90	1.50		260	.4	370	370	
				4313	135.90	136.85	0.95		365	.2	30	121	
129.05	132.20		Dark green, highly chloritic andesitic volcanic, disseminated pyrite	4314	136.85	137.92	1.07		360	.1	174	138	
			average 3-5%, locally to 10% over narrow widths.	4315	137.92	139.29	1.37		350	.2	280	139	
				4316	139.29	140.36	1.07		305	.2	334	115	
132.20	132.80		Andesitic volcanic as above to 132.20m but cut by grey quartz veinlets.	4317	140.36	141.27	0.91		285	1.0	1525	126	
			Disseminated pyrite concentrated around veinlets in two separate sections.	4318	141.27	142.20	0.93		685	.3	78	162	
				4319	142.20	143.56	1.36		250	.1	176	163	
132.80	138.68		Granite porphyry, grey and pink, minor quartz veinlets and disseminated	4320	143.56	144.30	0.74		305	.2	71	130	
			pyrite.	4321	144.30	145.48	1.18		165	.1	28	162	
				4322	145.48	145.88	0.40		505	.7	173	283	
138.68	139.29		Fault zone, crushed andesitic volcanic, no fault gouge.	4323	145.88	146.58	0.70		175	.1	24	200	
				4324	146.58	147.28	0.70		240	.1	23	159	
				4325	147.28	148.30	1.02		185	.1	33	148	
139.29	147.38		Andesitic volcanic, dark green, highly chloritized, minor quartz veinlets,	4326	148.30	149.10	0.80		445	.1	61	168	
			disseminated pyrite 23%.	4327	149.10	150.30	1.20		395	.2	62	127	
				4328	150.30	151.75	1.45		360	.1	46	141	
147.38	147.58		Fault zone, crushed andesitic volcanic, no fault gouge.	4329	151.75	153.31	1.56		205	.1	49	116	
				4330	153.31	153.91	0.60		185	.8	656	128	
147.58	149.10		Andesitic volcanic as above to 147.38m.	4331	153.91	154.30	0.39		480	.1	37	124	
				4332	154.30	154.80	0.50		280	.2	80	87	
149.10	153.31		Andesitic volcanic, chloritic, dark green, epidote veinlets throughout.	4333	154.80	155.30	0.50		84	.2	15	123	
			Disseminated pyrite 2-3%.	4334	174.65	175.30	0.65		60	.2	18	91	
				4335	178.00	178.50	0.50		112	.1	16	124	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
153.31	153.91		Andesite, light quartz veinlets throughout, disseminated pyrite 1-2%.	4336	181.42	182.05	0.63		36	.4	488	112	
				4337	182.05	182.75	0.70		54	.4	21	21	
153.91	154.30		Same as above, local high concentration of pyrite.	4338	182.75	184.27	1.52		142	.4	89	89	
				4339	184.80	185.42	0.62		430	.2	62	62	
154.30	154.80		White quartz veinlets cutting the andesitic volcanic, minor pyrite band	4340	195.68	196.80	1.12		173	.3	34	34	
			0.5cm wide.	4341	196.80	197.41	0.61		18	.2	5	5	
				4342	203.15	204.00	0.85		97	.3	278	278	
154.80	155.30		Andesitic volcanic, sheared, cut by thin quartz-calcite veinlets.	4343	204.00	204.30	0.30		81	.3	155	155	
				4344	204.30	204.75	0.45		825	.6	135	135	
155.30	182.05		Andesitic volcanic, dark green, highly chloritic, slightly magnetic, trace	4345	204.75	206.05	1.30		64	.2	154	154	
			disseminated pyrite and quartz veining.	4346	206.05	206.70	0.65		485	.3	120	120	
				4347	206.70	207.87	1.17		750	.6	366	366	0.021
			From 174.65 to 175.30m white quartz veins throughout.	4348	207.87	208.67	0.80		69	.2	101	101	
				4349	208.67	209.40	0.73		205	.3	194	194	
182.05	182.75		White quartz veinlet stockwork cutting andesitic volcanic, disseminated	4350	216.00	217.40	1.40		71	.5	460	460	
			pyrite.										
182.75	186.20		Pink and green granitic intrusive, chloritic, white quartz veinlets, local										
			pyrite concentration to 15%.										
186.20	188.50		Granite porphyry, pink and grey, massive, thin quartz veinlets.										
188.50	195.68		Dark green andesitic volcanic, local quartz veinlets, slight bleaching,										
			trace pyrite.										
195.68	196.80		Light green, bleached andesite at the contact with quartz vein below. Dis-										
			seminated pyrite 5%.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
196.80	197.41		White and green brecciated quartz vein, some hematite filled fractures, trace pyrite, inclusions of green, chloritic volcanic.										
197.41	217.50		Light grey, highly bleached and brecciated andesite with local pink bands of granitic intrusive. Minor quartz veining, local higher concentration of pyrite.										
			From 204.30 to 204.75m same as above.										
			From 206.05 to 209.40m brecciated, cut by quartz pyrite veinlets.										
			From 216.00 to 217.40m brecciated, silicified matrix, fragments of diorite.										
217.50	218.40		Fault, red, highly hematitic gouge 30cm, fragments of diorite.										
218.40	224.64		Dark green, massive, medium grained diorite cut by thin quartz veinlets, no visible pyrite. Foot of hole.										
			Sperry-Sun Tests:										
			Depth: **Dip:** **Azimuth:**										
			69.19m -55°00' 042°										
			145.39m -56°00' 042°										
			221.59m -57°30' 046°										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : DDH 22
COMMENCED: August 22, 1987
COMPLETED: August 26, 1987
OBJECTIVE:

LOCATION : West Drill Grid
LOC. : 2 + 91E/1 + 27S
ELEV. :
CORE SIZE: BQ

CORRECT DIP: -55°
TRUE BRG : 045°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 252.07m

LOGGED BY : R. Pesalj
DATE : August 26, 1987
CORE STORED : At the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
0.00	7.32		Overburden, fragments of mafic volcanics, BW casing.	4351	17.10	17.90	0.80		33	.4	137	167	
				4352	17.90	18.70	0.80		28	.1	12	152	
7.23	11.58		Dark green mafic volcanic of andesitic composition, massive, medium grained,	4353	18.70	19.07	0.37		36	.3	79	132	
			not magnetic. Limonite coated fractures.	4354	19.07	19.95	0.88		32	.2	51	161	
				4355	21.64	23.04	1.40		95	1.1	697	136	
11.58	15.80		Grey and pink diorite porphyry with narrow bands of K-spar rich porphyry,	4356	26.70	27.80	1.10		3	.2	71	149	
			occasional quartz phenocrysts. From 13.30 to 14.30m bleached.	4357	27.80	29.05	1.25		26	.2	111	148	
				4358	35.66	37.18	1.52		22	.2	48	111	
15.80	32.90		Dark green andesitic volcanic, fine to medium grained, massive, occasional	4359	37.18	38.71	1.53		15	.7	77	138	
			quartz veinlets and higher pyrite concentrations. From 21.64 to 23.04m	4360	55.17	56.17	1.00		13	.2	61	74	
			quartz vein 1cm along the core, pyrite 3-5%. From 26.70 to 29.05m pyrite	4361	76.81	78.20	1.39		33	.2	59	103	
			5-8%.	4362	78.20	79.00	0.80		1020	.9	375	137	0.022
				4363	89.00	90.10	1.10		225	.5	391	35	
			Average pyrite content 1-3%.	4364	104.80	106.68	1.88		195	.1	26	82	
				4365	112.76	113.98	1.22		97	.2	72	104	
32.90	35.30		Grey and pink diorite porphyry as above to 15.80m.	4366	117.96	119.48	1.52		235	.3	156	72	
				4367	119.48	121.01	1.53		150	.2	207	86	
35.30	38.71		Andesitic volcanic as above to 32.90m.	4368	121.01	122.53	1.52		129	.2	17	101	
				4369	122.53	124.05	1.52		55	.1	6	89	
38.71	75.10		Light grey diorite porphyry, cut by hairline quartz veinlets, trace dis-	4370	124.05	125.57	1.52		59	.2	15	89	
			seminated pyrite. Locally core broken, sheared. At 70.41m quartz vein 5cm	4371	125.57	127.10	1.53		48	.2	7	85	
			along the core.	4372	127.10	127.90	0.80		19	.1	5	73	
				4373	127.90	128.90	1.00		35	.1	6	88	
				4374	130.90	133.20	2.30		60	.1	16	92	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
75.10	78.20		Andesitic volcanic, massive, fine grained trace pyrite, rare quartz	4375	133.20	135.03	1.83		81	.1	13	141	
			veinlets.	4376	137.10	138.47	1.37		109	.1	35	161	
				4377	138.47	139.80	1.33		295	.1	91	131	
78.20	79.00		Andesitic volcanic as above to 78.20m disseminated pyrite 5-8%.	4378	142.15	143.91	1.52		103	.1	70	158	
				4379	143.91	145.39	1.48		79	.1	34	110	
79.00	104.80		Pink and grey granite porphyry, minor concentration of pyrite in mafic	4380	145.39	147.22	1.83		295	.4	191	109	
			inclusions, thin quartz veinlets.	4381	147.22	147.87	0.65		29	.3	36	71	
				4382	147.87	148.85	0.98		150	.3	74	90	
			From 89.00 to 90.10m disseminated pyrite 5%, minor quartz veinlets.	4383	148.85	149.96	1.11		560	1.1	322	119	
				4384	149.96	150.88	0.92		37	.4	179	125	
104.80	127.96		Granite porphyry green and pink, massive, mixed with dark green, highly	4385	150.88	152.09	1.21		36	.2	234	133	
			chloritic inclusions of mafic volcanic, minor epidote veinlets, rare dis-	4386	152.09	152.39	0.30		505	1.4	828	121	
			seminated pyrite.	4387	152.39	152.95	0.56		395	1.1	927	160	
				4388	152.95	154.00	1.05		345	1.0	1150	132	
			From 104.80 to 106.68m disseminated pyrite 8%.	4389	154.00	154.45	0.45		150	.8	707	162	
				4390	154.45	156.69	2.24		67	.7	573	126	
			From 112.76 to 113.98m disseminated pyrite 10%.	4391	156.69	158.52	1.83		150	.3	495	117	
				4392	158.52	158.82	0.30		82	.4	232	72	
127.96	133.20		Porphyry breccia, angular fragments of porphyry and felsic intrusive ranging	4393	158.82	159.95	1.13		75	.3	111	126	
			in size from 1-10mm cemented by porphyritic, chloritized matrix. Dis-	4394	159.95	160.90	0.95		95	.3	141	97	
			seminated pyrite 3-5% throughout the unit.	4395	166.00	167.18	1.18		165	.1	145	168	
				4396	167.18	168.55	1.37		150	.1	301	183	
			From 127.10 to 128.90m higher pyrite content than average.	4397	168.55	169.30	0.75		665	.8	578	150	
				4398	169.30	169.82	0.52		195	.6	637	184	
133.20	135.03		Porphyry breccia as above, sheared, badly broken core, quartz-epidote vein-	4399	169.82	170.22	0.40		148	.8	765	154	
			lets throughout, disseminated pyrite 3%.	4400	170.22	171.14	0.92		116	.5	504	189	
				4401	171.14	172.42	1.28		137	.4	295	128	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
135.03	137.10		Mafic volcanic of basaltic composition, fine grained, massive, slightly	4402	182.70	183.88	1.18		150	.2	118	135	
			magnetic.	4403	183.88	185.01	1.13		175	.1	41	85	
				4404	185.01	186.01	1.00		88	.2	117	102	
137.10	139.80		Andesitic volcanic, dark and light green, massive, cut by quartz veinlets,	4405	190.30	191.70	1.40		108	.5	619	135	
			abundant epidote. Disseminated pyrite 5-8%.	4406	191.70	193.09	1.39		67	.3	262	107	
				4407	193.09	194.50	1.41		68	.3	151	102	
139.80	142.15		Dark green andesitic volcanic, disseminated pyrite throughout, minor white	4408	194.50	195.83	1.33		98	.1	124	104	
			quartz veinlets, highly chloritic section.	4409	195.83	197.17	1.34		235	.3	404	90	
				4410	197.17	198.73	1.52		205	.4	404	103	
142.15	147.87		Light grey, fine grained andesitic volcanic, massive, cut by a stockwork of	4411	198.73	200.25	1.52		76	.1	121	109	
			white quartz veinlets ranging in width from 1-15mm. The veinlets show	4412	200.25	201.38	1.13		70	.1	239	126	
			brecciation, cementing the fragments of the country rock.	4413	201.38	202.30	0.92		83	.6	582	130	
				4414	208.55	209.40	0.85		103	.4	550	107	
147.87	148.85		Dark green andesitic volcanic cut by grey quartz-chlorite vein 1.5cm wide	4415	209.40	210.10	0.70		315	.5	527	93	
			running along the core. Disseminated pyrite 3-5%.	4416	210.10	212.04	1.94		165	.2	287	76	
				4417	212.04	213.44	1.40		67	.1	160	85	
148.85	149.96		Same as above to 148.85m.	4418	213.44	214.70	1.26		54	.1	112	90	
				4419	214.70	216.20	1.50		49	.4	140	94	
149.96	152.09		Dark green andesite, trace pyrite.	4420	216.20	217.65	1.45		46	.2	232	100	
				4421	217.65	219.04	1.39		71	.3	195	118	
152.09	152.39		Grey quartz vein cutting andesite at 40° to core axis. Disseminated	4422	226.88	227.68	0.80		111	.1	79	81	
			pyrite 5-10%.	4423	227.68	229.20	1.52		205	.2	233	102	
				4424	229.20	230.73	1.53		445	.4	320	81	
152.39	152.95		Andesite, sheared, trace pyrite.	4425	230.73	232.56	1.83		245	.1	108	128	
				4426	234.70	235.60	0.90		2420	2.7	525	64	0.063

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
152.95	154.00		Grey quartz veins cutting andesite at low angle to core axis. Disseminated	4427	235.60	236.20	0.60		385	.8	143	59	
			pyrite in vein and andesite 3-5%. Minor quartz veinlets throughout the	4428	244.54	245.94	1.40		141	.3	180	64	
			section.	4429	245.94	246.69	0.75		225	.4	262	52	
				4430	246.69	247.40	0.71		124	.4	117	59	
154.00	154.45		Same as above.										
154.45	155.00		Fault zone, crushed and ground fragments of andesite. Core recovery 66%.										
155.00	158.52		Andesite as above to 148.55m. Minor quartz veinlets and disseminated										
			pyrite.										
158.52	158.82		Grey quartz vein cutting andesite at low angle to core axis. Minor dis-										
			seminated pyrite.										
158.82	160.90		Andesite, dark green, chloritic, minor disseminated pyrite and quartz										
			veining.										
160.90	168.55		Andesite as above, disseminated pyrite and minor grey quartz veining from										
			159.95 to 168.55m. Pyrite content in this interval 8%.										
168.55	169.30		Strong grey quartz veining in this section with 10% disseminated pyrite in										
			veinlets and andesite.										
169.30	169.82		Andesite, dark green, chloritic, disseminated pyrite 5%, no veining.										
169.82	170.22		Same as above to 169.30m.										
170.22	171.14		Same as above to 169.82m.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
171.14	172.42		Light grey, slightly bleached andesite, cut by white quartz veinlets throughout. Disseminated pyrite in veinlets and andesite 5%.										
172.42	182.70		Andesite, dark green, chloritized, local epidote rich intervals and minor quartz veining.										
182.70	186.01		Andesite as above, cut by white quartz veinlets, epidote rich section from 185.01 to 186.01m. Disseminated pyrite 1%. The unit is slightly magnetic.										
186.01	190.30		Andesite, dark green, chloritic, no veining or sulphides present.										
190.30	202.30		Andesite, dark and light green, cut by a stockwork of white quartz veinlets throughout the interval. The unit is not magnetic. Epidote and minor quartz veins present between 195.83 and 197.17m.										
202.30	208.55		Granite porphyry, pink, cut by minor white quartz veinlets, trace disseminated pyrite.										
208.55	210.10		Granite porphyry as above to 208.55m, disseminated pyrite 12%, minor quartz veinlets.										
210.10	219.04		Dark and light green andesitic volcanic cut by numerous quartz-epidote veinlets along a stockwork of fractures. The unit is not magnetic.										
219.04	226.88		Pink and grey granite porphyry, large 1-10mm pink plagioclase phenocrysts set in grey. Plagioclase-quartz fine grained matrix.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
226.88	231.65		Dark and light green andesitic volcanic cut by numerous epidote-pyrite										
			fractures. Disseminated sulphides (pyrite) 2-5% average, at the contact										
			zone between 226.88 and 227.68m. The pyrite content is 10-12%.										
231.65	236.20		Light green diorite, foliated locally, occasional concentration of pyrite										
			and quartz veining.										
			From 234.70 to 235.60m pyrite content 15%.										
			The upper contact with andesite also mineralized by pyrite.										
236.20	246.69		Dark green, highly chloritic dioritic intrusive, brecciated, numerous										
			epidote rich zones, disseminated pyrite average 3-5%.										
			From 244.54 to 246.69m quartz veining, disseminated pyrite 8%.										
246.69	250.54		Dark green, chloritic diorite, minor white quartz veinlets and disseminated										
			pyrite. The rock is massive, but locally porphyritic.										
250.54	252.07		Diorite, pink and reddish coloured, hematized, remnants of dark green										
			chloritic diorite throughout. Disseminated pyrite 2-3%. Foot of hole.										
			Sperry-Sun Tests:										
			Depth: Dip: Azimuth:										
			66.14m -54°00' 044°										
			127.10m -54°30' 046°										
			188.06m -56°00' 047°										
			249.02m -57°00' 050°										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : DDH 23
COMMENCED: August 29, 1987
COMPLETED: August 31, 1987
OBJECTIVE:

LOCATION : West Drill Grid
LOC. : 9 + 20E/0 + 91S
ELEV. :
CORE SIZE: BQ

CORRECT DIP: -50°
TRUE BRG : 225°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 242.62m

PAGE : 1 of 5
LOGGED BY : R. Pesalj
DATE : August 30, 1987
CORE STORED : At the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
0.00	4.88		Overburden, fragments of mafic andesite volcanic, BW casing.	4433	24.57	25.22	0.65		56	.6	230	176	
				4434	25.22	25.77	0.55		37	.6	305	237	
4.88	11.68		Dark green mafic volcanic of andesitic composition, locally bleached and	4435	25.77	26.23	0.46		126	4.5	2192	174	
			cut by thin quartz veinlets. Fractures coated by iron oxides. The unit is	4436	26.23	27.05	0.82		59	1.5	733	190	
			locally slightly magnetic in the sections with more mafic minerals.	4437	27.05	27.96	0.91		62	.7	234	188	
				4438	27.96	28.75	0.79		92	.8	86	141	
11.68	34.86		Porphyritic andesite, dark green to light grey, locally bleached in contact	4439	28.75	29.15	0.40		11	.1	92	118	
			zones with narrow quartz veins, changing to pinkish colour.	4440	29.15	29.45	0.30		12	.2	9	107	
				4441	32.21	33.23	1.02		56	.5	30	137	
			From 11.34 to 11.84m bleached.	4442	33.23	33.59	0.36		5	.1	32	84	
				4443	34.86	35.56	0.70		79	.4	36	107	
				4444	35.56	36.41	0.85		19	.1	5	112	
				4445	36.41	37.64	1.23		44	.1	7	100	
			From 24.57 to 28.75m bleached, disseminated pyrite 3-5%.	4446	37.64	38.71	1.07		55	.3	15	55	
				4447	38.71	39.51	0.80		45	.5	48	69	
			From 28.75 to 29.15m white quartz vein, pyrite 2%.	4448	39.51	40.48	0.97		14	.1	5	101	
				4449	40.48	41.26	0.78		24	.2	7	118	
			From 32.21 to 33.23m silicified, white quartz veinlets throughout, minor	4450	41.26	41.76	0.50		35	.1	23	67	
			disseminated pyrite.	4451	49.68	49.98	0.30		240	1.0	117	147	

TAKLA-RAINBOW PROPERTY
DDH 23

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
34.86	41.76		Light grey, strongly bleached andesite, cut by white quartz veins through-	4453	60.08	60.43	0.35		360	3.1	1273	160	
			out. Vugs with idiomorphic quartz crystals common, sulphides absent or very	4454	97.85	99.37	1.52		6	.4	145	125	
			minor pyrite present.	4455	99.37	100.90	1.53		18	.2	140	89	
				4456	100.90	101.40	0.50		4	.1	47	180	
41.76	66.64		Andesite, dark green and pink, hematitic, numerous hematite filled frac-	4457	101.40	10.217	0.77		6	.1	32	115	
			tures, minor white quartz veinlets.	4458	120.66	120.96	0.30		3	.2	38	130	
				4459	126.63	128.08	1.45		14	.3	161	133	
			From 49.68 to 49.98m quartz veinlets.	4460	128.08	129.60	1.52		315	.6	116	126	
				4461	129.60	130.43	0.83		245	.3	176	114	
			From 50.90 to 51.20m quartz-epidote-chalcopyrite veinlets.	4462	130.43	131.37	0.94		10	.1	82	67	
				4463	131.37	132.46	1.09		2950	2.1	58	80	0.091
			From 60.08 to 60.43m quartz-epidote veinlets.	4464	137.75	138.25	0.50		65	.1	9	120	
				4465	139.50	140.65	1.15		2	.1	28	66	
66.64	78.05		Grey and pink granite porphyry. White and pink feldspar phenocrysts set in	4466	140.65	141.56	0.91		18	.1	16	180	
			grey quartz-feldspar matrix. Contact with andesite above sharp at 40° to	4467	155.52	156.25	0.73		169	.4	208	1232	
			core axis.	4468	157.16	157.88	0.72		225	.7	231	262	
				4469	175.37	175.82	0.45		6110	2.9	646	590	0.210
78.05	97.85		Andesite, dark green with numerous hematite coated fractures, abundant epi-	4470	212.65	214.12	1.47		5560	.7	105	158	0.157
			dote and very minor quartz veinlets.	4471	214.12	214.76	0.64		3880	2.6	1225	152	0.113
				4472	215.52	216.52	1.00		1225	.5	234	99	0.034
97.85	100.90		Light grey, bleached, silicified andesite cut by a system of thin quartz	4473	216.52	218.37	1.85		152	.2	81	99	
			veinlets, no visible sulphides but reddish hairline hematitic veinlets	4474	218.37	218.54	0.17		15490	8.6	1688	102	0.462
			throughout. Some veinlets along the core.	4475	228.50	229.21	0.71		275	.5	149	71	
				4476	229.21	229.77	0.56		8980	7.2	43	37	0.219
100.90	101.40		Quartz vein, brecciated, fragments of jasperoid and bleached volcanic	4477	229.77	231.30	1.53		640	.6	71	63	
			cemented by quartz.	4478	231.30	231.88	0.58		195	.2	31	119	
				7679	173.97	175.37	1.40		112	.5	103	511	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
101.40	102.17		Several 1-2cm quartz veins at 40-60% to core axis cutting bleached volcanic.	7680	211.13	212.65	1.52		6400	.6	13	85	0.178
				7681	214.76	215.52	0.76		370	.3	35	151	
102.17	120.66		Dark green, fine grained andesitic volcanic with minor white quartz vein-	7682	218.54	220.05	1.51		82	.4	496	97	
			lets cutting the unit at 75°-80° to core axis. Veinlets occasionally										
			contain coarse pyrite grains. Epidote concentrations along the veinlets or										
			irregular patches. The unit is locally magnetic.										
120.66	120.96		Bleached andesite cut by two veinlets 1-2cm wide at 60° to core axis.										
120.96	129.63		Andesite, dark green, massive, medium to coarse grained, local quartz-										
			epidote veinlets, locally magnetic.										
129.63	132.46		Light grey highly bleached andesite, cut by numerous white quartz veinlets										
			1-20mm wide at various angles to core axis.										
			From 131.37 to 132.46m veinlets abundant up to 2cm wide with pyrite grains										
			along the contacts. Angles vary from 10° to 60°.										
132.46	137.75		Andesite, dark green, fine grained massive, locally bleached at the contacts										
			with white quartz veinlets.										
137.75	138.25		White quartz vein cutting andesite at 80° to core axis. The vein is 10cm										
			wide, banded, with system of veinlets at both contacts.										
138.25	139.50		Andesite, dark to light green, locally bleached.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
139.50	141.56		Light grey and beige bleached andesite cut by a stockwork of thin quartz veinlets.										
141.56	154.93		Dark green, locally bleached andesite, fine grained, massive.										
154.93	157.88		Light grey-green, bleached andesitic volcanic with two intervals of heavy quartz veining.										
			From 155.52 to 156.25m quartz in veinlets 20%, minor pyrite grains.										
			From 157.16 to 157.88m quartz in veinlets 5-8%, no sulphides visible.										
157.88	198.10		Dark green, massive basaltic volcanic, very fine grained, slightly magnetic, cut by epidote and minor quartz veinlets, no sulphides visible.										
			From 175.37 to 175.82m quartz-pyrite vein 10cm wide with disseminated pyrite above the contact. Pyrite average 5%.										
198.10	212.65		Dark green, very fine grained basaltic volcanic, massive, non-magnetic, minor quartz veinlets, trace sulphides and epidote. The unit is weakly magnetic locally.										
212.65	218.54		Dark green andesite cut by grey quartz-pyrite veinlets with epidote patches throughout and irregular veinlets near quartz vein system.										
			From 212.65 to 214.12m quartz content 5-8% pyrite trace.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			From 214.12 to 214.76m quartz content 10%, pyrite 5%.										
			From 215.52 to 216.52m quartz content 8%, pyrite 3%.										
218.54	228.50		Dark green, very fine grained mafic volcanic of basaltic composition. The unit is massive, weakly or not magnetic, cut by epidote and rare quartz veinlets, trace pyrite.										
228.50	229.21		Bleached basaltic volcanic, quartz veinlets, trace pyrite, sheared.										
229.21	229.77		Quartz vein cutting bleached, sericific volcanic, disseminated pyrite in vein and country rock 10%.										
229.77	231.30		Bleached mafic volcanic, trace pyrite, no quartz veinlets.										
231.30	231.88		Bleached, prophyritic volcanic, silicified, brecciated, fragments cemented b amorphous silica (opal?), trace pyrite.										
231.88	239.45		Bleached, prophyritic mafic volcanic of andesitic composition, fine grained, massive, slightly magnetic. Foot of hole.										
			Sperry-Sun Tests:										
			Depth: Dip: Azimuth:										
			56.69m -51°30' 223°										
			117.65m -53°00' 224°										
			178.61m -54°30' 224°										
			239.57m -55°00' *002°										
			*Reading not reliable.										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : DDH 24
COMMENCED: August 31, 1987
COMPLETED: September 2, 1987
OBJECTIVE:

LOCATION : West Drill Grid
LOC. : 3 + 40E/0 + 68S
ELEV. :
CORE SIZE: BQ

CORRECT DIP: -55°
TRUE BRG : 045°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 181.97m

PAGE : 1 of 7
LOGGED BY : R. Pesalj
DATE : September 1/87
CORE STORED : At the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
0.00	6.10		Overburden, fragments of mafic volcanic, BW casing.	4479	17.93	19.45	1.52		24	.5	107	105	
				4480	19.45	20.22	0.77		123	.3	73	85	
6.10	17.00		Mafic volcanic of andesitic composition, massive, medium grained, moderately	4481	20.22	21.00	0.78		315	.4	31	86	
			magnetic, minor quartz veinlets, patches of epidote.	4482	21.00	21.50	0.50		195	.2	11	66	
				4483	21.50	22.07	0.57		335	.7	296	83	
17.00	19.45		Granite porphyry, pink, specks of epidote throughout, disseminated pyrite	4484	22.07	23.00	0.93		650	.5	107	63	
			1-2%, no quartz veining.	4485	23.00	24.52	1.52		340	.4	59	78	
				4486	24.52	25.82	1.30		10920	1.4	277	129	0.312
19.45	23.00		Granite porphyry as above, occasional quartz veinlets with disseminated	4487	25.82	26.82	1.00		150	.4	270	95	
			pyrite at 40° to core axis. Pyrite content higher than above, average 3-5%.	4488	26.82	27.47	0.65		2110	1.5	499	115	0.058
				4489	27.47	27.92	0.45		415	.7	310	94	
23.00	28.87		Dark green andesitic volcanic cut by thin quartz veinlets, some with chalco-	4490	27.92	28.87	0.95		450	1.0	493	99	
			pyrite grains.	4491	30.78	31.81	1.03		720	1.3	827	88	
				4492	31.81	32.81	1.00		320	.9	55	103	
			From 26.82 to 27.92m higher pyrite content, average 5-8%.	4493	32.81	33.83	1.02		97	.3	15	109	
				4494	33.83	34.92	1.09		52	.3	10	94	
28.87	30.78		Andesite, dark green, minor quartz veinlets, trace pyrite, slightly	4495	34.92	35.36	0.44		29	.3	126	83	
			magnetic.	4496	35.36	36.56	1.20		68	.4	19	109	
				4497	36.56	37.56	1.00		93	.5	148	101	

TAKLA-RAINBOW PROPERTY
DDH 24

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
30.78	32.81		Andesite with abundant quartz veinlets running along the core, pyrite	4498	40.69	41.76	1.07		92	.6	90	114	
			content average 3%, slightly magnetic.	4499	41.76	42.66	0.90		32600	2.2	246	75	1.095
				4500	42.66	43.16	0.50		550	.7	202	216	
32.81	38.64		Andesite, bleached, light grey, non-magnetic, minor white quartz veinlets	4501	43.16	43.96	0.80		840	.8	724	90	
			mainly along the core, minor sulphides-pyrite.	4502	43.96	45.20	1.24		195	.7	463	140	
38.64	40.69		Dark green, fine grained mafic volcanic of andesitic to basaltic composi-	4503	45.20	45.72	0.52		104	.8	371	151	
			tion, moderately magnetic.	4504	45.72	46.52	0.80		295	1.1	646	89	
				4505	46.52	47.75	0.93		210	.7	494	130	
40.69	41.76		Same as above, minor quartz-epidote veinlets.	4506	47.75	49.83	2.08		4200	7.6	2189	97	0.122
				4507	49.83	51.35	1.52		285	1.6	1003	134	
41.76	42.66		Dark and light green andesitic to basaltic volcanic cut by grey quartz veins	4508	53.45	54.05	0.60		108	.3	77	116	
			at irregular fashion. Disseminated pyrite in veins and andesite 10%,	4509	54.05	54.61	0.56		123	.4	62	140	
			quartz 20%.	4510	54.61	55.31	0.70		74	.4	23	186	
				4511	55.31	56.15	0.84		45	.2	34	181	
42.66	43.16		Dark green mafic volcanic, minor quartz veining and disseminated pyrite.	4512	56.15	56.45	0.30		89	.5	167	229	
				4513	56.45	57.85	1.40		67	.4	35	162	
43.16	43.96		Same as above to 42.66m, quartz 15%.	4514	57.85	58.50	0.65		350	.6	270	140	
				4515	58.50	59.85	1.35		225	.3	96	175	
43.96	45.72		Dark green andesitic volcanic, minor quartz-epidote veinlets, disseminated	4516	61.88	63.40	1.52		75	.1	24	115	
			pyrite 3%.	4517	63.40	64.92	1.52		51	.2	64	69	
				4518	64.92	66.44	1.52		245	.4	416	94	
45.72	47.75		As above to 45.72m but with slightly higher pyrite and quartz vein content.	4519	66.44	67.97	1.53		107	.1	38	105	
				4520	67.97	69.49	1.52		450	.1	131	100	
47.75	49.83		Andesite as above with granite vein 2cm wide at 20° to core, disseminated	4521	69.49	71.02	1.53		215	.8	653	119	
			pyrite and vein pyrite 8%.	4522	71.02	71.56	0.54		750	1.9	781	157	
				4523	71.56	72.24	0.68		150	.8	280	142	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
49.83	53.45		Andesite, dark green with epidote patches throughout, minor quartz veinlets,	4524	72.24	72.84	0.60		985	.6	232	118	0.026
			trace pyrite.										
53.45	58.50		Andesite as above, with higher quartz veinlet content and disseminated	4525	72.84	73.46	0.62		350	.3	124	100	
			pyrite concentrated in areas with quartz-epidote veining. Average pyrite	4526	73.46	74.06	0.60		295	.3	160	127	
			content 8-10%.	4527	74.06	75.29	1.23		295	.9	603	127	
				4528	75.29	76.81	1.52		49	.1	52	128	
58.50	71.02		Andesite, dark green, massive, slightly magnetic locally, no quartz vein-	4529	76.81	78.33	1.52		68	.2	50	107	
			lets, local concentration of epidote.	4530	78.33	79.81	1.48		185	.1	28	104	
				4531	79.81	81.38	1.57		225	.1	24	113	
71.02	71.56		Andesite cut by grey quartz veinlets 1-3cm across, disseminated pyrite	4532	81.38	82.78	1.40		77	.1	19	111	
			15%.	4533	82.78	85.40	1.42		165	.2	43	100	
				4534	84.20	85.40	1.20		47	.2	28	113	
71.56	72.24		Andesite, minor quartz veinlets, 5% pyrite.	4535	87.85	89.30	1.45		245	.4	88	98	
				4536	89.30	90.45	1.15		139	.2	49	71	
72.24	72.84		Same as above to 71.56m.	4537	90.45	90.75	0.30		153	.2	29	113	
				4538	90.75	91.74	0.99		150	.1	65	131	
72.84	73.46		Same as above to 72.24m.	4539	91.74	92.34	0.60		160	.1	95	161	
				4540	92.34	92.92	0.58		98	.1	41	123	
73.46	74.06		Same as above to 72.24m.	4541	92.92	93.88	0.96		375	.5	197	84	
				4542	93.88	94.28	0.40		195	.4	257	84	
74.06	91.74		Andesite, dark grey-green, chloritic, numerous epidote veinlets and irregu-	4543	94.28	95.25	0.97		106	.2	159	88	
			lar patches throughout the unit, disseminated pyrite and minor blebs and	4544	95.25	95.90	0.65		129	.3	167	86	
			veinlets 5-8%, rare quartz veinlets. The unit is not magnetic.	4545	95.90	96.60	0.70		96	.2	124	121	
				4546	96.60	98.14	1.54		94	.5	251	125	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
91.74	92.34		Andesite, dark green, chlorite-epidote throughout, grey quartz and pyrite	4547	98.14	99.00	0.86		1040	1.3	409	88	0.027
			stringers at 70° to core axis. Pyrite content 5-8%.	4548	99.00	99.85	0.85		63	.3	60	114	
				4549	99.85	100.64	0.79		205	.4	119	100	
92.34	92.92		Andesite, minor pyrite and quartz veining.	4550	100.64	101.70	1.06		103	.4	237	112	
				4551	101.70	103.45	1.75		540	.1	129	67	
92.92	93.88		Andesite as above, cut by pink granitic vein, pink plagioclase laths 1-5m,	4552	103.45	104.25	0.80		121	.1	95	81	
			long, minor pyrite and quartz.	4553	104.25	105.80	1.55		94	.1	148	97	
				4554	105.80	107.32	1.52		52	.1	203	101	
93.88	94.28		Andesite as above to 92.92m.	4555	107.32	107.95	0.63		81	.3	144	88	
				4556	107.95	108.80	0.85		119	.3	255	107	
94.28	98.14		Andesite, dark green, light green epidote patches throughout.	4557	108.80	110.32	1.52		87	.1	144	99	
				4558	110.32	111.95	1.63		240	.3	371	94	
98.14	99.00		Andesite as above cut by quartz-pyrite veinlets at 60° to core axis. Pink	4559	111.95	112.20	0.25		82	.1	55	85	
			granitic material abundant. Pyrite content 8-10%.	4560	112.20	113.20	1.00		280	.2	109	91	
				4561	113.20	114.40	1.20		132	.1	23	72	
				4562	114.40	115.10	0.70		113	.1	20	78	
99.00	99.85		Andesite, minor disseminated pyrite.	4563	115.10	116.28	1.18		97	.1	23	80	
				4564	116.28	116.98	0.70		101	.2	28	64	
99.85	100.64		Andesite as above, cut by pink granitic veins and grey quartz veinlets.	4565	116.98	117.80	0.82		870	.6	352	42	
			Disseminated pyrite 3-5% quartz veinlet at 25° to core axis.	4566	117.80	119.64	1.84		122	.1	45	71	
				4567	119.64	120.50	0.86		230	.4	310	82	
100.64	101.70		Andesite, dark green, disseminated pyrite 8%, minor quartz veinlets.	4568	120.50	121.30	0.80		9690	4.8	2696	82	0.291
				4569	121.30	122.43	1.13		460	1.0	368	93	
101.70	104.25		Pink granite porphyry cut by a network of green epidote-chloritic veinlets	4570	122.43	123.70	1.27		290	.3	85	74	
			disseminated pyrite 5%, rare bands of massive pyrite.	4571	123.70	124.70	1.00		173	.6	432	112	
				4572	124.70	125.88	1.18		280	1.0	829	94	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
104.25	107.95		Andesite, dark green with occasional light green epidote-chlorite veinlets,	4573	125.88	127.10	1.22		880	1.5	1151	78	0.021
			minor quartz veinlets and pyrite.	4574	127.10	128.50	1.49		1010	3.8	3762	108	0.028
				4575	128.59	130.10	1.51		119	.5	475	81	
107.95	116.98		Granite porphyry, pink, highly chloritic disseminated pyrite 5-8%	4576	130.10	131.37	1.27		122	.5	402	80	
			throughout.	4577	131.37	132.30	0.93		131	.3	273	116	
				4578	132.30	133.81	1.51		142	.6	512	108	
116.98	117.80		Granite porphyry as above, cut by pink-grey quartz-feldspar veins 1-3m	4579	133.81	134.71	0.90		520	.5	420	107	
			across with low angles to core axis. Disseminated and vein pyrite 10%.	4580	134.71	136.20	1.49		186	.3	189	83	
				4581	136.20	137.72	1.52		505	1.7	1183	181	
117.80	120.50		Granite porphyry as above to 117.80m cut by grey quartz veinlets, dis-	4582	137.72	139.10	1.38		1150	.6	159	117	0.034
			seminated pyrite 4%.	4583	139.10	139.70	0.60		870	1.1	1065	126	0.027
				4584	139.70	140.36	0.66		92300	15.0	2714	57	2.940
120.50	121.30		Granite porphyry as above, highly silicified by grey quartz, disseminated	4585	140.36	141.11	0.75		1780	3.2	728	53	0.053
			and bleb pyrite 15%.	4586	141.11	141.61	0.50		15270	9.8	10892	117	0.522
				4587	141.61	142.20	0.59		39500	23.0	2551	92	1.076
121.30	122.43		Granite porphyry as above, inclusions of dark green mafic volcanic, grey	4588	142.20	143.82	1.62		265	.3	101	100	
			quartz veinlets and irregular quartz patches abundant, pyrite 8-10%.	4589	167.05	168.24	1.19		175	.4	273	101	
				4590	168.24	169.74	1.50		35	.2	93	119	
122.43	123.70		Granite porphyry cut by 1cm wide quartz vein along the core.	4591	169.74	171.26	1.52		57	.5	273	94	
				4592	171.26	172.82	1.56		34	.2	167	79	
123.70	124.70		Dark green mafic volcanic, disseminated pyrite 3-5%.	4593	172.82	174.34	1.52		60	1.0	1093	112	
124.70	125.88		Grey, foliated and sheared granite porphyry, pyrite bands and blebs 2-3%.	4594	174.34	175.77	1.43		90	.6	606	96	
125.88	131.37		Granite porphyry, pink and dark green, disseminated pyrite throughout,										
			average pyrite content 5%, locally 10-15%.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			From 127.10 to 128.59m pyrite content 12%.										
131.37	134.71		Grey andesitic volcanic, bleached, silicified, cut by grey and white quartz veinlets.										
			From 131.37 to 132.30m silicification and pyrite content higher than average.										
134.71	139.10		Andesitic volcanic, grey and dark grey, chloritic, disseminated pyrite 5% minor quartz veinlets.										
139.10	141.11		Andesitic volcanic, cut but a system of irregular grey quartz-pyrite veinlets with abundant pyrite averaging 5-8%. A system of grey quartz veinlets in a form of stockwork throughout.										
			From 139.10 to 140.36m pyrite 10%.										
			From 140.36 to 141.11m pyrite 5%.										
141.11	143.82		Same as above but with lesser pyrite content. Average pyrite in this section 3%.										
143.82	156.08		Andesitic volcanic, grey, fine grained, bleached, sericitic groundmass and phenocrysts of altered plagioclase throughout.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			From 145.10 to 145.60m sheared, blocky core.										
			From 146.60 to 147.00m sheared, blocky core.										
			From 153.00 to 155.00m green, chloritic section.										
156.08	167.05		Grey diorite porphyry with local sections of pink granitic porphyry.										
			Granitic porphyry has numerous dark green chlorite filled fractures.										
167.05	175.77		Dark green highly chloritic granitic porphyry with numerous pink, K-spar										
			rich sections. Disseminated pyrite 2-3% epidote abundant along the										
			fractures.										
175.77	181.97		Grey and pink granite porphyry, bleached, rare quartz veinlets, no visible										
			sulphides. Consists of quartz-plagioclase groundmass and large plagioclase										
			phenocrysts and minor quartz grains. Foot of hole.										
			Sperry-Sun Tests:										
			Depth: Dip: Azimuth:										
			57.00m -54°30' 041°*										
			117.96m -56°00' 045°										
			178.92m -56°00' 052°										
			*Readings not reliable due to presence of magnetic rocks in the hole.										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : DDH 25
COMMENCED: September 2, 1987
COMPLETED: September 5, 1987
OBJECTIVE:

LOCATION : West Drill Grid
LOC. : 3 + 40E/1 + 18S
ELEV. :
CORE SIZE: BQ
Azimuth :

CORRECT DIP: -55°
TRUE BRG : 045°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 254.81m

LOGGED BY : R. Pesalj
DATE : September 2/87
CORE STORED : At the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
0.00	12.19		Overburden, fragments of mafic volcanic, BW casing.	4595	80.56	81.23	0.67		12	.2	48	139	
				4596	81.23	81.99	0.76		24	1.9	362	111	
12.19	28.70		Green and pink andesitic volcanic, highly sheared, epidote rich, numerous	4597	100.88	102.00	1.12		28	.3	31	51	
			dykelets of pink granitic intrusive, badly broken core, shear zone.	4598	102.58	103.02	0.44		90	1.4	235	28	
				4599	107.29	107.54	0.25		81	.3	13	26	
28.70	32.00		Grey and pink diorite, porphyry, occasional pink granitic dykes.	4600	114.16	114.76	0.60		5	.3	8	31	
				4601	122.63	124.05	1.42		23	.2	73	114	
32.00	34.14		Same as above, sheared, broken core.	4602	124.05	125.67	1.62		30	.2	221	97	
				4603	125.67	126.40	0.73		375	.8	400	88	
34.14	37.80		Fault zone, fragments of highly bleached granitic porphyry mixed with grey	4604	126.40	127.80	1.40		82	.8	664	106	
			fault gouge.	4605	127.80	128.62	0.82		325	.7	849	94	0.008
				4606	128.62	128.90	0.28		350	.8	879	105	0.011
37.80	59.80		Green andesitic volcanic, fine grained, massive, non-magnetic, occasional	4607	128.90	129.45	0.55		105	.5	708	100	0.008
			white quartz veinlets, fractured, broken core. Local narrow, 1-2 ft,	4608	129.45	130.15	0.70		49	.4	411	86	0.002
			bleached sections and white quartz veinlets, rare disseminated pyrite.	4609	130.15	131.30	1.15		285	.3	266	74	0.006
				4610	131.30	132.90	1.60		305	.4	512	108	
59.80	68.00		Light grey, bleached, kaolinized diorite porphyry, blocky core, no	4611	132.90	134.40	1.50		33	.2	188	101	
			sulphides.	4612	134.40	136.00	1.60		315	.6	295	92	
				4613	136.00	137.76	1.76		80	.2	459	100	
68.00	72.10		Highly sheared diorite porphyry, minor fault gouge in this section, no	4614	137.76	139.29	1.53		195	.1	119	58	
			sulphides.	4615	139.29	140.81	1.52		48	.3	300	90	
				4616	140.81	142.34	1.53		27	.4	185	99	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
72.10	80.56		Bleached mafic volcanic of andesitie composition, rare white quartz	4617	142.34	143.64	1.30		55	.5	123	105	
			veinlets.	4618	143.64	144.94	1.30		360	2.3	154	81	
80.56	81.99		Green, chloritic, slightly bleached andesitic volcanic, minor quartz vein-	4619	144.94	145.39	0.45		78	1.6	74	117	
			lets, no sulphides.	4620	145.39	146.38	0.99		35	.3	36	122	
				4621	146.38	147.70	1.32		36	.2	47	102	
81.99	93.62		Same as above to 81.99m, no quartz veinlets, no sulphides. At the contact	4622	147.70	148.64	0.94		85	.2	59	136	
			with porphyry 1.5m wide chloritic zone, sheared, foliated at 35°.	4623	148.64	149.14	0.50		350	.4	293	89	
				4624	149.14	150.44	1.30		1650	1.4	1055	115	0.009
93.62	100.88		Grey diorite porphyry with minor pink K-spar rich zones, inclusions of mafic	4625	150.44	150.77	0.33		285	.4	502	153	0.007
			volcanic. Lower contact at 30° to core axis.	4626	150.77	151.60	0.83		950	.6	403	107	0.024
				4627	160.80	161.20	0.40		29	.3	555	152	
100.88	103.02		Volcanic inclusions in porphyry, bleached, sheared, minor quartz veining	4628	161.20	162.15	0.95		41	.2	159	92	
			from 100.88 to 102.00m and 102.58 to 103.02m.	4629	162.15	163.68	1.53		61	.5	313	114	
				4630	163.68	165.20	1.52		325	.1	271	109	
103.02	110.49		Grey, bleached, kaolinized, sericitized diorite porphyry with occasional	4631	165.20	166.40	1.20		295	.5	215	137	
			quartz veinlets and little sulphides.	4632	166.40	167.33	0.93		320	1.0	631	109	
				4633	167.33	167.90	0.57		250	.9	6449	114	
110.49	112.10		Dark green andesitic volcanic, massive, fine grained, very weakly magnetic.	4634	167.90	168.65	0.75		5490	.7	69	85	0.148
				4635	168.65	169.30	0.65		240	.7	678	105	
112.10	114.76		Grey diorite porphyry as above at 110.49m.	4636	169.30	170.05	0.75		420	1.4	1134	121	
				4637	170.05	171.60	1.55		230	.5	584	72	
114.76	118.35		Mafic volcanic of andesitic composition as above to 112.10m.	4638	171.60	172.05	0.45		180	.4	541	37	
				4639	172.05	172.70	0.65		160	.8	381	99	
118.35	122.63		Grey diorite porphyry, large plasioclase laths to 10mm in length, trace	4640	172.70	173.34	0.64		65	.4	271	94	
			disseminated pyrite.	4641	173.34	174.90	1.56		111	.9	478	116	
				4642	174.90	175.87	0.97		52	.3	228	98	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
122.63	127.80		Dark green, chloritic andesitic volcanic, bands of porphyry throughout,	4643	175.87	176.57	0.70		77	.7	229	72	
			disseminated pyrite 5 - 8%, local quartz veining. From 125.67 to 126.40m	4644	176.57	177.07	0.50		116	.9	104	73	
			quartz veinlets 1-5mm, disseminated pyrite 8-10%.	4645	177.07	177.77	0.70		72	.2	179	73	
				4646	177.77	178.38	0.61		54	.5	91	75	
127.80	128.62		Andesite, cut by bluish quartz veinlets in irregular fashion, disseminations	4647	178.38	179.22	0.84		119	.4	212	844	
			and blebs of pyrite 10%.	4648	179.22	180.07	0.85		360	1.7	688	121	
				4649	180.07	180.80	0.73		175	.7	313	117	
128.62	128.90		Andesite as above to 128.62m, less quartz veinlets, pyrite 5%.	4650	180.80	181.80	1.00		114	.4	263	87	
				4651	181.80	182.30	0.50		65	.5	136	95	
128.90	129.45		Andesite, dark green, chloritic, bluish quartz throughout, pyrite 12%.	4652	182.30	183.82	1.52		52	.1	108	71	
				4653	183.82	185.34	1.52		81	.3	276	118	
129.45	130.15		Andesite as above to 129.45, minor bluish quartz veinlets, pyrite 5%.	4654	185.34	186.60	1.26		48	.2	134	129	
				4655	186.60	188.06	1.26		66	.5	250	103	
130.15	146.38		Andesite, dark green, chloritic cut by hairline quartz veinlets, dis-	4656	188.06	188.47	0.41		75	.6	528	90	0.002
			seminated pyrite throughout, minor veinlet pyrite. Average pyrite content	4657	188.47	189.25	0.78		78	.4	379	70	0.001
			3-5%.	4658	189.25	190.35	1.10		225	.8	441	64	0.007
				4659	190.35	190.90	0.55		179	.4	486	59	0.006
146.38	147.70		Andesite as above to 146.38m cut by white quartz veinlets and stringers of	4660	190.90	191.50	0.60		2150	1.9	1949	91	0.049
			epidote.	4661	198.42	199.94	1.52		50	.4	162	79	
				4662	199.94	201.46	1.52		165	1.1	228	91	
147.70	148.64		Same as above to 147.70m.	4663	201.46	202.46	1.00		101	.6	148	82	
				4664	202.46	203.90	1.44		98	.4	188	78	
148.64	149.14		Andesite, light green, epidote rich section, disseminated pyrite 5-8%, a	4665	205.80	207.32	1.52		695	.6	64	105	
			narrow 0.5cm quartz veins cutting the volcanic at 45° and 85°.	4666	207.32	208.82	1.50		99	.2	19	99	
				4667	208.82	210.34	1.52		106	.1	82	97	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
149.14	150.44		Dark green, highly chloritic and esitic volcanic, fractured and cemented by	4668	214.38	215.90	1.52		97	.1	180	98	
			bluish-grey quartz. Disseminated pyrite and pyrite specks 15-20%.	4669	215.90	216.70	0.80		495	.3	152	92	
				4670	216.70	218.20	1.50		41	.1	23	127	
150.44	150.77		Dark green andesite as above, minor bluish-grey quartz veinlets, dis-	4671	218.20	220.06	1.86		38	.1	15	139	
			seminated pyrite 3-5%.	4672	220.06	221.59	1.53		26	.1	12	147	
				4673	221.59	223.00	1.41		56	.1	12	125	
150.77	151.60		Same as above to 150.44m.	4674	223.00	224.64	1.64		31	.1	29	135	
				4675	224.64	225.48	0.84		57	.1	80	124	
151.60	160.80		Grey diorite porphyry with numerous pink sections of granitic composition	4676	225.48	226.16	0.68		51	.1	52	121	
			throughout the unit. Occasional inclusions of andesitic volcanic and thin	4677	226.16	227.69	1.53		42	.1	74	111	
			quartz veinlets. Rare sections of disseminated pyrite.	4678	227.69	229.21	1.52		61	.1	150	146	
				4679	229.30	229.80	0.50		56	.1	192	103	0.001
				4680	229.80	230.13	0.33		42	.1	84	83	0.001
160.80	161.20		Andesite, disseminated pyrite 3%.	4681	230.13	230.46	0.33		260	.1	184	82	0.005
				4682	230.46	231.10	0.64		695	.3	241	89	
161.20	162.15		Andesite, dykelets of porphyry, white quartz veins, minor disseminated	4683	231.10	231.95	0.85		99	.1	87	83	
			pyrite.	4684	231.95	232.45	0.50		41	.1	53	74	
				4685	232.45	234.00	1.55		71	.1	190	88	
162.15	163.68		Same as above.	4686	239.10	239.87	0.77		88	.3	595	62	
				4687	240.40	241.30	0.90		121	.1	663	79	
163.68	167.90		Andesite, light grey, bleached, disseminated pyrite throughout, minor quartz	4688	241.70	242.70	1.00		71	.3	241	76	
			veinlets. Pyrite content 5%.	4689	243.30	244.60	1.30		131	.2	289	81	
				4690	244.60	246.20	1.60		105	.2	507	51	
167.90	168.65		Andesite, high epidote content, some grey quartz veinlets, disseminated	4691	246.20	246.65	0.45		25	.1	65	27	
			pyrite 5-8%.	4692	246.65	247.25	0.60		235	.4	1059	76	
				4693	247.25	248.34	1.09		235	.4	938	110	

From	To	Syb	Description	Smp. No.	From	To	Lgth.	Rec.	Analysis				
Meters					Meters				Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
168.65	176.57		Andesite, light grey, bleached, minor disseminated pyrite and white quartz	4694	248.34	248.95	0.61		335	.7	1792	99	
			veinlets. From 172.82 to 173.64m green, chloritic section with 8% dis-	4695	248.95	249.80	0.85		645	.5	1725	73	0.017
			seminated pyrite and minor quartz veinlets.	4696	249.80	250.43	0.63		39	.1	151	47	
176.57	177.07		White quartz vein in bleached andesitic volcanic, sheared.										
177.07	178.38		Light grey, bleached andesitic volcanic with minor quartz veining, dis-										
			seminated pyrite 1%.										
178.38	180.07		Dark green, chloritic andesite cut by white quartz veins, disseminated										
			pyrite 8%.										
180.07	188.06		Dark green and light grey, locally bleached andesite cut by white quartz										
			veinlets 1-5mm across. Disseminated pyrite 3-5%.										
188.06	188.47		Dark green andesite, fine grained, massive, cut by greyish quartz-pyrite										
			veinlets at irregular stockwork. Disseminated pyrite 8%.										
188.47	189.25		As above to 188.47m, disseminated pyrite 3-5%.										
189.25	190.35		As above to 188.47m, disseminated pyrite 10%.										
190.35	190.90		As above to 188.47m, bleached, less quartz veinlets.										
190.90	191.50		As above to 188.47m, bleached, pyrite content 10%.										

TAKLA-RAINBOW PROPERTY
DDH 25

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
191.50	198.35		Pink granite porphyry, bleached in the section between 191.50 and 196.90m.										
			Consists of greyish matrix and large phenocrysts of plagioclase.										
198.35	203.90		Andesite, dark green, massive, fine grained, not magnetic, epidote specks throughout, minor disseminated and veinlet pyrite.										
203.90	205.10		Diorite porphyry, grey, hematite veinlets abundant.										
205.10	208.82		Andesite, dark green and reddish, hematite veinlets throughout, minor disseminated pyrite.										
208.82	213.50		Andesite, dark green, locally bleached, epidote patches throughout, minor thin quartz veinlets, not magnetic.										
213.50	216.70		Andesite, light grey, bleached, kaolinized, foliated at 45° to core axis locally, occasional bands of massive pyrite and thin quartz veins.										
216.70	227.69		Andesite, dark green, fine to medium grained, massive, numerous veinlets and irregular patches of epidote throughout the unit. Not magnetic. Disseminated pyrite.										
227.69	229.21		Andesite as above, not magnetic, cut by minor grey quartz veinlets. Epidote abundant in contact areas with veins. Disseminate pyrite 8%.										
229.21	229.80		Andesite as above, but with higher quartz veinlet content, disseminated pyrite and veinlet pyrite 10%.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
229.80	230.13		Andesite as above to 229.80m but with few quartz veinlets, pyrite less than 2%.										
230.13	230.46		Andesite as above to 229.80m.										
230.46	231.10		Andesite as above to 230.13m.										
231.10	234.20		Andesite, dark green, chloritic, massive, medium grained, disseminated and veinlet pyrite 5-8%, rare thin quartz veinlets.										
234.20	239.10		Grey, bleached, kaolinized dioritic intrusive cut by white quartz veinlets. Disseminated pyrite less than 1%.										
239.10	246.20		Dark green chloritic dioritic intrusive with narrow bleached sections. Disseminated pyrite 1-3%. From 244.60m to 246.20m abundant epidote.										
246.20	246.65		Diorite porphyry grey, trace pyrite.										
246.65	247.25		Diorite, dark green, chloritic, disseminated pyrite 8%, magnetic.										
247.25	248.95		Diorite as above to 247.25m, trace pyrite, magnetic.										
248.95	249.80		Diorite, dark green, chloritic, grey quartz veinlets and disseminated pyrite in the second half of the interval. Pyrite content 8%. The unit is magnetic.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
249.80	252.46		Pink granitic dyke, medium grained, massive, sericite filled fractures										
			throughout, rare quartz veinlets.										
252.46	254.81		Diorite, dark green, chloritic, medium to fine grained, magnetic, pyrite										
			content less than 1%. Foot of hole.										
			Sperry-Sun Tests:										
			Depth: Dip: Azimuth:										
			68.88m -55°00' 041°										
			129.84m -56°30' 042°										
			190.80m -58°00' 047°										
			251.76m -60°00' 049°										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : DDH 26
COMMENCED: September 5, 1987
COMPLETED: September 7, 1987
OBJECTIVE:

LOCATION : West Drill Grid
LOC. : 3 + 87E/1 + 38S
ELEV. :
CORE SIZE: BQ

CORRECT DIP: -55°
TRUE BRG : 045°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 50.90m

PAGE : 1 of 1
LOGGED BY : R. Pesalj
DATE : September 14/87
CORE STORED : At the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
0.00	7.32		Overburden, fragments of mafic volcanic of andesitic composition, BW casing.										
7.32	15.75		Andesite, dark green, medium grained, massive, cut by numerous epidote filled fractures. Disseminated pyrite 1-2%, not magnetic.										
15.75	33.66		Diorite porphyry, grey, numerous inclusions of mafic volcanic, trace pyrite.										
			From 27.36 to 27.45m pyrite content 8%, grey quartz vein.										
33.66	38.71		Fault zone, crushed diorite porphyry, no fault gouge. Core recovery 50%.										
38.71	40.76		Andesite, dark green, chloritic, massive, trace pyrite.										
40.76	47.85		Diorite porphyry, grey, fractured, trace pyrite.										
47.85	50.90		Fault zone, crushed bleached diorite porphyry, no fault gouge.										
			Hole abandoned.										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : DDH26A
COMMENCED: September 14, 1987
COMPLETED: September 18, 1987
OBJECTIVE:

LOCATION : West Drill Grid
LOC. : 3 + 87E/1 + 35S
ELEV. :
CORE SIZE: BQ

CORRECT DIP: - 55°
TRUE BRG : 045°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 331.01m

PAGE : 1 of 10
LOGGED BY : R.Pesalj/D.Gorc
DATE : September 18/87
CORE STORED : At the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
0.00	9.75		Overburden. Fragments of bleached porphyry. BW casing.	4901	10.84	11.24	0.40		3790	2.9	27	56	0.106
				4902	55.10	56.10	1.00		132	.6	272	113	
9.75	29.26		Diorite porphyry, grey, occasional bands of pink porphyry, trace pyrite, no	4903	63.40	64.92	1.52		64	.2	21	104	
			quartz veining. Blocky core, shear zone. From10.84 to 11.24m minor white	4904	64.92	66.14	1.22		65	.2	37	99	
			quartz vein cutting diorite.	4905	66.14	67.51	1.37		55	.4	69	87	
29.26	30.78		Dark green, fine grained mafic volcanic of andesitic to basaltic composi-	4906	67.51	68.84	1.33		85	.3	153	97	
			tion, non-magnetic, trace disseminated pyrite.	4907	75.35	76.66	1.31		66	.1	19	76	
				4908	76.66	78.00	1.34		68	.2	14	97	
30.78	42.97		Diorite porphyry, grey with pink sections throughout, blocky core, shear	4909	78.00	78.88	0.88		67	.3	16	98	
			zone.	4910	78.88	80.40	1.52		48	.1	20	105	
				4911	80.40	81.38	0.98		76	.1	91	113	
42.97	43.43		Fault, highly sheared fragments of diorite porphyry mixed with fault gouge.	4912	81.38	82.75	1.37		44	.2	42	89	
				4913	82.75	83.19	0.44		68	.3	39	74	
43.43	52.27		Diorite porphyry, minor quartz veinlets, trace disseminated pyrite.	4914	83.19	84.10	0.91		35	.1	63	63	
				4915	84.10	84.83	0.73		144	.3	81	76	
52.27	63.40		Andesite, dark green, fine grained, massive, non-magnetic, trace dis-	4916	84.83	85.95	1.12		126	.7	696	85	
			seminated pyrite, minor dykeletts of granitic porphyry.	4917	85.95	87.48	1.53		63	.4	409	74	
				4918	87.48	88.97	1.49		29	.1	146	60	
			From 59.55 to 60.05m shear zone, badly broken core.	4919	88.97	90.53	1.56		33	.1	14	49	
				4920	95.70	97.06	1.36		27	.2	23	50	
			From 55.10 to 56.10m epidote rich zone, minor disseminated pyrite.	4921	100.38	100.95	1.57		44	.5	264	66	
				4922	101.95	103.52	1.57		122	1.0	856	100	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
63.40	67.51		Andesite, dark green, cut by numerous pink granite porphyry dykelettes,	4923	104.22	105.82	1.60		345	.6	456	82	
			abundant epidote alteration, trace pyrite, no quartz veining.	4924	115.21	116.01	0.80		57	.5	490	55	
				4925	116.01	116.89	0.88		103	.5	483	54	
67.51	68.84		Andesite as above to 67.51m cut by think 0.5cm quartz veinlet running along	4926	116.89	118.50	1.61		56	.3	80	51	
			the core.	4927	118.50	119.48	0.98		240	.4	67	51	
				4928	119.48	121.01	1.53		30	.3	45	103	
				4929	121.01	121.75	0.74		124	.9	22	116	
68.84	75.35		Andesite, dark green, chloritic, minor epidote and quartz veinging, trace	4930	121.75	122.53	0.78		39	.4	165	116	
			pyrite.	4931	122.53	123.90	1.37		23	.3	120	110	
				4932	123.90	124.45	0.55		37	.3	48	105	
75.35	82.75		Granitic porphyry, pink and green, chloritic, sections of grey diorite	4933	124.45	125.57	1.12		19	.3	33	97	
			porphyry, disseminated pyrite 2-3%, rare quartz veinlets.	4934	125.57	127.10	1.53		94	.5	269	106	
				4935	127.10	127.90	0.80		59	.2	105	134	
82.75	83.19		Quartz vein in porphyry disseminated pyrite 3%, contacts at 60° to core	4936	127.90	128.52	0.62		23	.1	18	50	
			axis.	4937	128.52	130.15	1.63		35	.8	79	117	
				4938	130.25	131.98	1.73		87	.1	13	44	
83.19	92.40		Granite porphyry, dark and light green and pink, epidote rich section,	4939	131.98	133.50	1.52		9	.3	7	47	
			disseminated pyrite 5%, rare quartz veinlets.	4940	133.50	134.72	1.22		8	.2	7	27	
				4941	134.72	136.25	1.53		45	.4	114	66	
92.40	95.70		Dark green, fine grained mafic volcanic of andesitic composition, trace	4942	136.25	137.69	1.44		83	.6	215	50	
			pyrite and quartz veinlets.	4943	145.00	146.00	1.0		32	.6	104	102	
				4944	146.00	147.22	1.22		29	.5	130	91	
95.70	97.06		Pink granitic porphyry with white quartz veinlets 1-5mm across throughout,	4945	147.22	148.44	1.22		50	.4	118	110	
			trace pyrite.	4946	156.68	158.20	1.52		19	.1	13	23	
				4947	158.20	159.72	1.52		120	.3	8	36	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
97.06	98.66		Dark green andesite with pink bands of granitic porphyry, minor white quartz	4948	159.72	160.76	1.04		22	.1	10	36	
			veinlets, trace pyrite.	4949	185.01	185.41	0.4		12	.2	4	46	
98.66	100.38		Granite porphyry, grey and pink, cut by minor quartz veinlets.	4950	189.03	189.43	0.4		4	.1	6	60	
				4951	189.43	191.11	1.68		11	.6	253	129	
100.38	101.95		Granite porphyry as above to 100.38m but quartz veining more abundant.	4952	191.11	192.63	1.52		9	.1	6	60	
				4953	192.63	194.30	1.67		13	.2	4	47	
101.95	104.22		Andesite, light and dark green, massive, cut by numerous quartz veinlets	4954	202.08	203.55	1.47		1	.1	6	87	
			throughout, some jasperoid mauve coloured, trace pyrite.	4955	203.55	204.52	0.97		11	.2	13	97	
				4956	206.35	208.18	1.83		42	.6	253	129	
104.22	105.82		Andesite as above to 104.22m but with numerous quartz veinlets.	4957	213.87	215.10	1.23		9	.1	3	60	
				4958	215.10	215.55	0.45		560	.4	89	33	0.022
105.82	107.52		Andesite, dark green, chloritic, minor white quartz veinlets, trace pyrite.	4959	215.55	217.01	1.46		76	.6	434	80	
				4960	217.01	218.54	1.53		42	.3	282	52	
107.52	115.21		Andesite, light grey, bleached, trace pyrite and fine quartz veinlets.	4961	218.54	219.50	0.96		40	.2	63	60	
				4962	219.50	221.01	1.51		96	.4	350	86	
115.21	116.89		Andesite as above, quartz veinlets at 30° to core axis, pyrite 2%.	4963	221.01	222.69	1.68		39	.2	59	73	
				4964	222.69	223.24	0.55		152	.1	15	119	
116.89	123.90		Andesite as above to 104.22m.	4965	223.24	223.89	0.65		132	.4	67	153	
				4966	223.89	224.64	0.75		66	.1	70	112	
123.90	124.45		Andesite, dark green, chloritic, cut by numerous quartz veinlets, pyrite	4967	224.64	226.16	1.52		112	.5	302	107	
			content 8%, brecciated locally.	4968	226.16	227.69	1.53		107	.6	432	93	
				4969	227.69	228.96	1.27		122	.7	497	62	
124.45	127.90		Andesite as above to 124.45m, minor quartz and pyrite.	4970	228.96	230.73	1.77		82	.4	205	84	
				4971	230.73	232.25	1.52		1	.4	160	103	
127.90	130.15		Diorite porphyry, light grey, bleached, minor white quartz veinlets.	4972	232.25	233.78	1.53		11	.3	84	99	
				4973	233.78	235.08	1.30		108	.4	218	69	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
130.15	130.25		Fault gouge, grey, unconsolidated.	4974	236.60	237.70	1.10		16	.3	46	35	
				4975	237.70	238.60	0.90		6	.1	29	30	
130.25	131.98		Diorite porphyry as above to 130.15m.	4976	260.11	261.91	1.80		43	.5	376	28	
				4977	261.91	262.10	0.70		64	.6	383	39	
131.98	137.69		Diorite porphyry, grey bleached, cut by a stockwork of white quartz veinlets	4978	262.61	262.91	0.30		127	.9	715	43	
				4979	266.00	267.40	1.40		62	.5	186	37	
137.69	145.00		Granite porphyry, pink and dark green, chloritic, few quartz veinlets, epi-	4980	267.40	268.90	1.50		21	.3	301	48	
			dote, trace pyrite.	4981	268.90	270.36	1.46		32	.4	135	47	
				4982	270.36	271.70	1.34		20	.1	87	47	
145.00	146.00		Granite porphyry as above with higher epidote disseminated pyrite 5%.	4983	271.70	273.11	1.41		18	.2	95	41	
				4984	273.11	274.51	1.4		13	.2	79	31	
146.00	148.44		Andesite, light grey-green, cut by white quartz veinlets, disseminated	4985	274.51	276.00	1.49		14	.1	52	39	
			pyrite 8%.	4986	276.00	277.20	1.20		18	.2	39	36	
				4987	277.20	279.00	1.80		5	.2	81	40	
148.44	158.20		Light grey diorite porphyry, kaolinized, soft, rare concentrations of	4988	279.00	280.40	1.40		28	.1	206	42	
			pyrite.	4989	280.40	282.20	1.80		102	.5	180	29	
				4990	286.60	287.25	0.65		15	.4	195	33	
			From 156.68 to 158.20m pyrite content 5%.	4991	287.25	288.20	0.95		5	.1	209	33	
				4992	288.20	288.65	0.45		22	.4	328	48	
158.20	160.76		Andesite, light grey, bleached, kaolinized, quartz-pyrite veinlets through-	4993	288.65	290.05	1.40		6	.2	53	45	
			out. Pyrite content 8-10%.	4994	293.00	293.64	0.64		18	.2	151	43	
				4995	293.64	294.34	0.70		6	.1	10	41	
160.76	185.01		Diorite porphyry, grey, slightly bleached, rare quartz veinlets, trace	4996	294.34	296.44	2.10		90	.4	178	41	
			pyrite.	4997	296.44	297.29	0.85		11	.4	82	88	
				4998	297.29	298.59	1.30		4	.5	36	95	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
185.01	185.41		Diorite porphyry as above, cut by white quartz vein 2cm wide running along	4999	298.59	300.09	1.50		1	.5	378	112	
			the core.	5000	310.55	311.35	0.80		1	.4	333	128	
185.41	189.03		Diorite porphyry as above to 185.01m.	7001	321.00	322.00	1.00		72	.5	140	148	
				7002	328.60	330.60	2.00		13	.4	23	108	
189.03	194.30		Diorite porphyry, grey with occasional pink sections, abundant epidote										
			alteration throughout the unit.										
194.30	202.08		Granite porphyry, grey and pink, grey groundmass f.g. pink feldspar pheno-										
			crysts to 10mm in length, trace disseminated pyrite.										
202.08	204.52		Granite porphyry, pink, epidote rich section.										
204.52	206.35		Granite porphyry, minor epidote alteration.										
206.35	208.18		Mafic volcanic of andesitic composition, cut by pyrite-epidote veinlets.										
			Disseminated and vein pyrite 5%.										
208.18	213.87		Granite porphyry as above to 206.35m.										
213.87	215.10		Granite porphyry with higher epidote content, trace pyrite.										
215.10	215.55		Granite porphyry chloritic, cut by 5cm wide quartz vein, trace pyrite.										
215.55	222.69		Granite porphyry, dark green, chloritic, epidote throughout, occasional										
			thin gypsum veinlets 3-5mm cutting porphyry at 30-60° to core axis.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
222.69	223.24		A contact zone between porphyry above and mafic volcanic below. The section										
			is foliated at 45°-60° to core axis, minor pyrite, abundant epidote										
			alteration.										
223.24	224.64		Same as above to 223.89m.										
224.64	232.25		Andesite, dark green, highly chloritic, epidote throughout, occasional										
			higher concentration of pyrite, average pyrite 5-8%.										
			From 227.69 to 228.96m pyrite veinlets and disseminations 10%.										
232.25	235.08		Granite porphyry, pink, disseminated pyrite 3-5% epidote abundant.										
235.08	236.60		Granite porphyry, trace pyrite.										
236.60	237.70		Highly silicified granite porphyry, grey, massive, trace pyrite.										
237.70	238.60		Breccia, fragments of porphyry ranging in size from 1 to 3cm cemented by										
			grey silica. Trace pyrite.										
238.60	246.99		Granite porphyry, grey and light grey, bleached.										
246.99	249.55		Diorite porphyry, grey and light grey, bleached.										
249.55	254.20		Granite porphyry, grey matrix, locally hematite rich, trace pyrite.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			From 251.44 to 254.20m hematitic zone, numerous red hematitic fractures.										
254.20	271.70		Granite porphyry, pink and grey. White plagioclase phenocrysts throughout, minor quartz veining, trace pyrite.										
			260.1m - predominantly dark grey matrix; 5 to 10% contain pinkish colouration; pinkish areas are irregular in shape; randon concentrations; trace feldspar phenocrysts; trace pyrite; minor quartz and pyrite veining 1m to 5m quartz veinlets at 0° to 45° core angle; approximately 1 per metre.										
			262.51 - 262.71m - slightly brecciated 2% disseminated pyrite with hematite, slightly magnetic.										
			265.2 - 271.6m - slightly fractured; characterized by abundant thin calcite veinlets at 0° to 30° core angle; more pinkish colouration (K-spar), more disseminated pyrite (1%).										
			266.0m - 2m - (0.25cm thick) quartz veins at 15° core angle; veins are cut by fractures at 0° core angle which have faulted the vein 10cm.										
			270.0 - 271.6m - several epidote fractures with associated 3-5cm wide zones of K-spar alteration along side.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
271.70	276.0		Diorite Porphyry										
			Matrix is light grey to medium grey; white feldspar phenocrysts to 3mm;										
			finer texture than granite porphyry. Occasional quartz eyes to 0.5cm;										
			moderately fractured; cut by calcite and chlorite veinlets at all core										
			angles; about 1 quartz vein every 2m; trace pyrite.										
276.0	288.25		Granite Porphyry										
			Predominantly greyish matrix with 5-10% of core patches of pink K-spar;										
			large white feldspar phenos to 1cm; trace pyrite.										
			276.0 - 279.0m - slightly fractured; occasional chlorite-quartz veinlets;										
			40% pink K-spar matrix; abundant thin epidote veinlets; rare patches of 3%										
		.	disseminated pyrite; occasional 10cm partially silicified zones.										
			286.6 - 288.25m - K-spar alteration; pinkish tinge.										
288.25	296.44		Diorite Porphyry										
			Light grey matrix; white feldspar phenocrysts to 0.25cm; occasional dark										
			greenish patches.										
			288.2 - 290.0m - dark green; 0.5% disseminated pyrite.										
			293.0 - 293.64m - dark green.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			294.0 - 296.0 - bleached white.										
296.44	331.01		Diorite										
			Fine textured; dark greenish matrix; abundant small white feldspar phenos to 3mm; moderately fractured; cut by abundant calcite veinlets and occasional quartz veinlets, rare epidote veinlets; patchy hematite.										
			305.0 - 310.0m - high hematite alteration; bright brick red colouration.										
			310.7 - 1cm quartz vein with minor pyrite at 65° core angle.										
			311.0m - 1cm quartz-chlorite vein at 20° core angle.										
			318.0 - 319.5m - minor epidote.										
			321.2 - 3cm thick quartz vein at 35° core angle.										
			321.6m - 1cm quartz vein.										
			327.0 - 328.0m - moderate hematite alteration.										
			326.8 - 5cm quartz vein at 35° core angle.										
			END OF HOLE										

From	To	Syb	Description	Smp. No.	From	To	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			Sperry Sun Tests										
			Depth: Azimuth: Inclination:										
			60.96m 041° 54°00'										
			121.92m 045° 55°00'										
			182.88m 047°30' 55°30'										
			243.84m 049° 56°30'										
			327.96m 051°30' 57°00'										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : DDH 27
COMMENCED: September 7, 1987
COMPLETED: September 10, 1987
OBJECTIVE:

LOCATION :
LOC. : 4 + 40E/1 + 05S
ELEV. :
CORE SIZE: BQ

CORRECT DIP: -55°
TRUE BRG : 045°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 258.17m

PAGE : 1 of 7
LOGGED BY : R. Pesalj
DATE : September 8/87
CORE STORED : At the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
0.00	14.02		Overburden, fragments of diorite porphyry, BW casing.	4697	39.00	39.60	0.60		45	.5	25	148	
				4698	54.93	55.23	0.30		102	1.8	9	84	
14.02	34.00		Diorite porphyry, grey groundmass, fine grained, white and pink plagioclase	4699	58.34	58.90	0.56		785	.5	10	40	0.022
			laths 1-5mm in length. Occasional white quartz veinlets. From 21.60m to	4700	58.90	59.45	0.55		420	1.3	13	47	
			23.10m sheared, blocky core.	4701	59.45	60.30	0.85		720	2.8	6	18	0.017
				4702	63.20	63.40	0.20		480	.3	29	33	
34.00	34.44		Fault, finely crushed fragments of dioritic porphyry.	4703	84.10	84.67	0.57		112	.1	10	46	
				4704	97.02	97.42	0.40		88	.5	5	23	
34.44	36.10		Diorite porphyry as above to 34.00m, blocky core, shear zone.	4705	99.32	99.85	0.53		720	.8	8	35	0.018
				4706	104.47	104.77	0.30		605	.8	10	32	0.015
36.10	42.00		Dark green andesitic volcanic, medium grained, non-magnetic. From 36.28 to	4707	105.64	106.12	0.48		86	.1	11	36	
			37.80m, sheared, broken core. From 39.00 to 39.60m disseminated pyrite 3%.	4708	106.12	107.64	1.52		25	.2	10	33	
				4709	107.64	109.16	1.52		18	.1	10	37	
42.00	45.10		Pink and green, chloritic, granite porphyry.	4710	109.16	110.52	1.36		10	.2	10	35	
				4711	110.52	111.20	0.68		345	.3	138	111	
45.10	58.34		Diorite porphyry, grey, occasional bands of pink granitic porphyry, inclu-	4712	111.20	111.90	0.70		49	.1	32	100	
			sions of fine grained volcanic.	4713	119.15	120.99	1.84		275	.4	281	88	
				4714	120.99	121.28	0.29		87	.4	274	86	
			From 54.93 to 55.23m narrow quartz vein 0.5cm wide. Specks of epidote	4715	121.28	122.37	1.09		59	.2	127	46	
			throughout the unit, rare thin quartz veinlets, no sulphides visible.	4716	122.37	123.22	0.85		113	.4	214	89	
				4717	123.22	124.10	0.88		195	.3	227	88	
58.34	60.30		Diorite porphyry cut by white quartz veins 1-5cm wide running mainly along	4718	125.57	127.15	1.58		127	.3	212	94	
			the core. No visible sulphides or only trace amount of pyrite present.	4719	127.15	127.80	0.65		100	.4	64	79	
				4720	127.80	128.50	0.70		82	.1	42	83	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
60.30	63.20		Diorite porphyry, grey, fresh.	4721	128.50	129.40	0.90		90	.1	60	105	
				4722	129.40	130.34	0.94		133	.4	66	132	
63.20	63.40		Diorite porphyry cut by pink quartz-feldspar vein, disseminated and band	4723	130.34	131.12	0.86		97	.2	80	122	
			pyrite 6-8%.	4724	131.12	131.52	0.40		121	.5	292	109	
				4725	131.52	132.30	0.78		114	.6	218	166	
63.40	84.10		Grey diorite porphyry, fractured, slightly chloritized, no quartz veinlets,	4726	132.30	132.92	0.62		29	.1	30	140	
			trace pyrite.	4727	132.92	134.44	1.52		85	.3	109	100	
				4728	134.44	135.14	0.70		94	.1	241	113	
84.10	84.67		White quartz vein, massive, no sulphides visible. The upper contact at 25°	4729	135.14	135.67	0.53		86	.1	87	97	
			to core axis.	4730	135.67	137.12	0.45		92	.2	207	102	
				4731	187.12	138.55	1.43		87	.1	164	105	
84.67	104.47		Grey diorite porphyry, slightly chloritic, plagioclase laths up to 10mm in	4732	138.55	139.70	1.15		52	.4	279	118	
			length set in greyish fine grained matrix.	4733	139.70	140.05	0.35		195	1.0	586	129	
				4734	140.05	140.90	0.85		81	.4	285	125	
104.47	104.77		Light grey, bleached, diorite porphyry cut by pink quartz feldspar veinlets.	4735	140.90	142.34	1.44		280	.9	472	137	
				4736	142.34	142.54	0.20		179	.9	514	95	
104.77	105.64		Diorite porphyry, light grey, bleached, trace pyrite.	4737	142.54	143.86	1.32		134	.6	120	83	
				4738	143.86	144.83	0.97		9	.5	178	87	
105.64	106.12		Diorite porphyry as above to 105.64m cut by white quartz veins.	4739	144.83	145.18	0.35		202	1.1	65	65	
				4740	145.18	145.72	0.54		610	2.0	952	92	0.017
106.12	110.52		Diorite porphyry as above to 105.64m.	4741	145.72	146.77	1.05		240	.8	678	92	
				4742	146.77	148.10	0.33		560	1.0	89	75	0.015
110.52	111.90		Diorite porphyry, dark green, chloritic, inclusions of mafic volcanics 40%,	4743	148.10	148.80	0.70		187	.1	321	57	
			disseminated pyrite 5-8%.	4744	148.80	149.45	0.65		79	.3	95	71	
				4745	149.45	150.00	0.55		104	.4	112	79	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
111.90	119.15		Diorite porphyry, grey-green, epidote concentrations locally, disseminated	4746	150.00	151.48	0.48		97	.6	244	61	
			pyrite 1-2%.	4747	151.48	152.15	0.67		86	.2	122	94	
				4748	152.15	153.15	1.00		67	.1	95	44	
119.15	121.27		Diorite porphyry, grey and green, epidote rich section, disseminated pyrite	4749	158.95	160.35	1.40		163	.4	1344	93	
			3-5%.	4750	160.35	161.38	1.03		230	.3	141	60	
				4751	161.38	162.18	0.80		134	.4	277	644	
121.27	122.37		Diorite porphyry, as above to 119.15m.	4752	162.18	163.37	1.19		138	.5	184	68	
				4753	163.37	163.90	0.53		47	.8	267	68	
122.37	123.22		Diorite porphyry as above to 121.27m.	4754	163.90	165.42	1.52		162	.1	23	37	
				4755	170.64	170.94	0.30		280	.4	20	43	
123.22	125.57		Diorite porphyry as above to 119.15m.	4756	170.94	171.91	0.97		25	.1	9	56	
				4757	171.91	172.21	0.31		22	.1	7	444	
125.57	127.15		Fault zone, crushed and pulverized fragments of diorite porphyry.	4758	172.21	173.02	0.81		35	.1	299	48	
				4759	173.02	173.62	0.60		111	.2	27	67	
127.15	134.44		Diorite porphyry, green, chloritic, numerous inclusions of mafic chloritic	4760	173.62	174.80	1.18		86	.1	130		
			volcanic, occasional quartz veinlets, disseminated pyrite 5%.	4761	190.64	190.84	0.20		320	.1	76	38	
				4762	195.80	196.55	0.75		35	.6		81	
134.44	144.83		Andesite, dark green, massive, fine grained, not magnetic, dissemnated	4763	196.55	197.65	1.10		39	.9	331	84	
			pyrite 2%.	4764	197.65	199.05	1.40		24	.4	156	9?	
				4765	199.05	199.55	0.50		114	.8	274	94	
144.83	145.18		Light and dark green, epidote rich mafic volcanic of andesitic composition	4766	199.55	199.88	0.33		23	.1	123	94	
			cut by quartz-pyrite-epidote veinlets. Pyrite content 15-18%.	4767	199.88	200.82	0.94		90	.5	265	95	
				4768	200.82	202.15	1.33		110		416		
145.18	146.77		Andesite, dark green, chloritic, disseminated pyrite 10-15%, cut by veinlets	4769	202.15	204.43	2.28		33	.7	162	72	
			of grey quartz throughout.	4770	204.43	206.15	1.72		22	.6	345	70	
				4771	206.15	207.65	1.50		125	.7	240	99	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
146.77	148.10		Andesite, dark green, chloritic, minor quartz veinlets, disseminated	4772	207.65	208.95	1.30		113	.4	149	99	
			pyrite 5%.	4773	208.95	209.70	0.75		55	.5	104	93	
				4774	209.70	210.60	0.90		83	.4	100	103	
148.10	148.80		Andesite as above to 148.10m, but more grey quartz veinlets. Disseminated	4775	210.60	211.80	1.20		35	.3	59	112	
			pyrite.	4776	211.80	212.90	1.10		58	.1	137	98	
				4777	212.90	213.90	1.00		26	.4	189	68	
148.80	150.00		Andesite, dark green, chloritic, cut by grey quartz veinlets throughout,	4778	213.90	215.50	1.60		51	.3	209	107	
			disseminated pyrite 8%.	4779	215.50	217.02	1.52		53	.2	162	98	
				4780	217.02	218.20	1.18		23	.3	143	79	
150.00	151.48		Diorite porphyry, disseminated pyrite 2%.	4781	218.20	219.06	0.86		1150	.6	295	91	0.027
				4782	219.06	219.66	0.60		250	.7	422	80	
151.48	152.15		Andesite, dark green, chloritic, disseminated pyrite 8%, grey quartz vein-	4783	219.66	220.16	0.50		48	.3	186	93	
				4784	220.16	220.63	0.47		92	.4	338	95	
152.15	158.95		Grey diorite porphyry, occasional epidote rich stringers, trace pyrite.	4785	220.63	221.13	0.50		61	.5	303	944	
				4786	221.13	222.19	1.06		128	.5	352	10	
158.95	163.37		Dark green, chloritic andesitic volcanic, fine grained, not magnetic, cut	4787	222.19	223.71	1.52		85	.3	232	87	
			by light green, epidote-quartz-pyrite veinlets. Pyrite content 8%.	4788	223.71	225.31	1.60		64	.2	73	98	
				4789	225.31	225.91	0.60		160	.2	116	97	
163.37	163.90		Same as above to 163.37m, disseminated and veinlet pyrite 12%.	4790	225.91	226.77	0.86		143	.5	109	110	
				4791	226.71	227.69	0.98		117	.5	134	78	
163.90	170.64		Diorite porphyry, grey, occasional light green epidote veinlets, rare white	4792	227.69	228.64	0.95		230	.5	706	160	
			quartz veinlets.	4793	228.64	229.36	0.72		7	.1	32	61	
				4794	229.36	230.16	0.80		6	.1	58	70	
170.64	170.94		Light green, epidote rich diorite porphyry, pyrite stringers 10%, grey	4795	230.16	231.06	0.90		44	.2	217	52	
			quartz veinlets throughout.	4796	231.06	232.56	1.50		35	.1	92	65	
				4797	241.35	241.91	0.56		17	.1	20	47	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
170.94	173.02		Diorite porphyry, local epidote rich sections, inclusions of dark chloritic	4798	242.93	243.83	0.90		106	5.6	6038	35	
			volcanic, disseminated pyrite 3%.	4799	243.83	24.53	0.70		102	3.7	4186	40	
				4800	256.32	257.22	0.90		32	.2	750	64	
173.02	179.20		Diorite porphyry, grey, minor disseminated pyrite and epidote concentra-										
			tions locally.										
179.20	187.66		Grey and pink granite porphyry, fresh large plagioclase phenocrysts set in										
			grey fine grained matrix.										
187.66	190.64		Pink, grey and green granitic intrusive, plagioclase phenocrysts preserved										
			locally, epidote veinlets throughout, disseminated pyrite 1-3%.										
190.64	190.84		Same as above with higher epidote and quartz veinlets at 30° to core axis.										
190.84	195.80		Same as above to 190.64m, disseminated pyrite 1-3%.										
195.80	196.55		Andesite, dark green, cut by numerous light green epidote veinlets, dis-										
			seminated pyrite 5-8%.										
196.55	199.55		Same as above, with pyrite content 3-5%.										
199.55	202.15		Andesite, dark green, epidote rich, disseminated pyrite 1-3%, non-magnetic.										
202.15	207.70		Dark green and pink andesitic volcanic cut by granitic dykelets throughout,										
			disseminated pyrite 1-2%.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
207.70	208.95	*	Andesite as above to 202.15m cut by grey quartz veinlets. Disseminated pyrite 2%.										
208.95	228.64		Andesite, dark green, epidote rich, disseminated pyrite 1-5%.										
			From 209.70 to 210.60m epidote content higher, pyrite 6%.										
			From 219.06 to 219.66m pyrite content 8%.										
			From 225.91 to 228.64m grey quartz veinlets cutting andesite, disseminated pyrite 8-10%.										
228.64	230.16		Dyke of dioritic composition, medium grained, massive, non-magnetic. Contacts with porphyry sharp at 30° and 65°. Upper contact bleached over 0.72m.										
230.16	232.56		Diorite porphyry, sheared, chloritized, occasional quartz-hematite veinlets, disseminated and veinlet pyrite 3-5%, epidote abundant.										
232.56	242.93		Diorite porphyry, grey, rare quartz veinlets, epidote specks throughout.										
			From 241.35 to 241.91m grey quartz vein, epidote abundant.										
242.93	258.17		Diorite porphyry cut by grey quartz-pyrite chalcopyrite veinlet 0.5-2cm wide running along the core, chloritic blebs in vein to 3cm across. Pyrite content 8%.										

From	To	Syb	Description	Smp. No.	From	To	Lgth.	Rec.	Analysis				
Meters					Meters				Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			From 256.32 to 257.22m minor quartz veinlet 5mm across. Foot of hole.										
			Sperry-Sun Tests:										
			Depth: Dip: Azimuth:										
			60.04m -55°00' 042°										
			121.00m -56°00' 046°										
			181.96m -56°30' 046°										
			242.92m -58°00' 049°										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : DDH 28
COMMENCED: September 10, 1987
COMPLETED: September 12, 1987
OBJECTIVE:

LOCATION : West Drill Grid
LOC. : 7 + 37E/1 + 20S
ELEV. :
CORE SIZE: BQ

CORRECT DIP: -50°
TRUE BRG : 225°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 221.59m

LOGGED BY : R. Pesalj
DATE : September 10/87
CORE STORED : At the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
0.00	3.65		Overburden, fragments of mafic volcanic, BW casing.	4801	9.62	9.95	0.33		1040	2.8	730	95	0.030
				4802	28.80	29.32	0.52		3200	3.4	1577	101	0.090
3.65	9.62		Mafic volcanic of basaltic composition, fine grained, massive, occasional	4803	49.75	50.70	0.95		47	.5	355	143	
			white quartz veinlets, no visible sulphides, slightly magnetic. At 5.90m	4804	62.76	63.09	0.33		49	.1	51	78	
			narrow fault, crushed and pulverized basalt, stained by iron oxides.	4805	63.09	63.35	0.26		62	.4	82	78	
				4806	63.35	64.20	0.85		53	1.1	117	76	
9.62	9.95		Basalt, light green, bleached, cut by thin 1-5mm quartz veinlets.	4807	64.20	65.72	1.52		29	.5	46	170	
				4808	65.72	66.10	0.48		23	.9	121	185	
9.95	28.80		Basalt as above to 9.62m.	4809	66.10	66.30	0.20		46	1.4	481	167	
				4810	66.30	66.83	0.53		57	.9	202	160	
28.80	29.32		White quartz veinlets cutting basalt, disseminated pyrite 8%.	4811	66.83	67.30	0.47		72	1.2	211	177	
				4812	67.30	67.76	0.46		92	2.2	1236	180	
29.32	49.75		Basalt, dark green, chloritic, fine grained, occasional quartz-epidote	4813	67.76	69.08	1.32		23	.8	254	156	
			veinlets and irregular patches. The unit is slightly magnetic.	4814	69.08	70.40	1.32		19	.7	192	163	
				4815	73.61	74.57	0.96		695	1.9	365	237	0.018
49.75	50.70		Basalt, light and dark green, epidote rich section, trace disseminated	4816	74.57	76.50	1.93		245	1.0	176	245	
			pyrite.	4817	76.50	77.20	0.70		21	.3	43	122	
				4818	79.58	80.38	0.80		18	.6	293	140	
50.70	62.76		Basalt, dark green, medium to fine grained, massive, non-magnetic, rare	4819	82.60	83.20	0.60		92	.4	142	116	
			quartz veinlets, trace pyrite, abundant epidote.	4820	85.25	85.75	0.50		86	1.5	766	133	
				4821	85.75	87.27	1.52		27	.6	155	165	

TAKLA-RAINBOW PROPERTY
DDH 28

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
62.76	64.20		Quartz vein, white and grey cutting basalt in irregular fashion, vugs with	4822	87.27	88.10	0.83		11	.4	28	153	
			calcite crystals in white quartz veins common, disseminated pyrite mainly	4823	88.10	89.20	1.10		3	.2	14	120	
			in grey quartz 2-3%.	4824	89.20	90.72	1.52		55	1.6	753	176	
64.20	65.72		Dark green andesite with minor quartz veinlets, epidote stringers	4825	90.72	91.67	0.95		82	.9	257	133	
			throughout.	4826	93.30	93.77	0.47		3170	3.1	1459	183	0.055
				4827	93.77	94.99	1.22		28	.4	129	157	
65.72	66.83		Basalt cut by numerous green quartz-epidote veinlets.	4828	98.54	98.94	0.40		91	1.0	433	132	
				4829	98.94	99.67	0.73		52	.9	295	102	
66.83	67.76		Basalt cut by grey quartz veinlets throughout, disseminated pyrite 5-8%.	4830	99.67	100.37	0.70		12	.7	210	216	
				4831	100.37	101.29	0.92		16	.5	86	112	
67.76	70.40		Basalt, epidote stringers and specks throughout, minor quartz veinlets and	4832	129.45	130.85	1.50		7	.4	92	175	
			pyrite.	4833	133.10	134.30	1.20		98	.4	8	175	
				4834	148.44	149.96	1.52		2	.2	13	62	
70.40	73.61		Basalt, dark green, fine grained, massive, rare quartz veinlets.	4835	149.96	150.46	0.50		1	.1	38	57	
				4836	159.20	159.50	0.30		17	.2	11	84	
73.61	74.57		Basalt as above to 73.61m cut by grey quartz veinlets. Disseminated	4837	169.97	170.32	0.35		97	3.2	2045	58	
			pyrite 5%.	4838	181.20	182.06	0.86		4	.2	23	81	
				4839	182.06	183.00	0.94		59	.3	18	83	
74.57	90.72		Basalt, dark green, fine grained, slightly magnetic, cut by epidote rich	4840	186.08	186.43	0.35		12	.5	404	102	
			veinlets, rare quartz veining.	7675	8.23	9.62	1.39		109	.2	23	149	
				7676	9.95	11.07	1.12		62	.1	29	200	
90.72	91.67		White quartz vein cutting mafic volcanic, contacts bleached, cut by thin	7677	27.28	28.80	1.52		206	.5	214	176	
			veinlets, trace pyrite.	7678	29.32	30.84	1.52		7	.2	142	131	
				7683	91.67	99.30	7.63		17	.2	49	156	
91.67	93.30		Dark green, fine grained basaltic volcanic of basaltic composition, trace										
			pyrite.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
93.30	93.77		Basalt cut by grey quartz vein 15cm wide and thin veinlets at the lower contact. Disseminated pyrite 5-8%.										
93.77	94.99		Basalt, epidote and thin quartz veinlets throughout.										
94.99	98.54		Basalt, dark green, fine grained, massive, rare epidote-quartz veinlets.										
98.54	98.94		Fault, crushed basaltic rock over 20cm, no fault gouge.										
98.94	99.67		Basalt, epidote and iron oxide rich section.										
99.67	100.37		Fault, crushed and highly sheared basalt, minor fault gouge.										
100.37	101.29		Epidote rich basalt, quartz vein 4cm wide cutting the unit at 60° to core axis.										
101.29	121.50		Basalt, dark green, massive, fine grained, not magnetic to locally slightly magnetic. Epidote veinlets throughout the unit, trace pyrite, rare white quartz veinlets.										
121.50	129.45		Andesite, dark green, medium grained, massive, occasional white quartz veinlets 1-5mm across at 75°-90° to core axis.										
129.45	130.85		Andesite, dark green and reddish, hematite stained, numerous white and reddish jasperoid veinlets throughout the unit. The veinlets are cutting volcanic at 45°-60° to core axis.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
130.85	133.10		Andesite, dark green, massive, rare thin quartz veinlets.										
133.10	134.30		Andesite, light grey, bleached, cut by white quartz veinlets.										
134.30	148.44		Andesite, dark green, chloritic, cut by occasional white quartz veinlets, locally bleached, slightly magnetic.										
148.44	149.96		Andesite, red hematite stained, few quartz veins.										
149.96	150.46		Light green, highly foliated and sheared andesite with white quartz veinlets parallel to foliation at 45° to core axis.										
150.46	159.20		Andesite, green to dark green, fine grained, massive, non-magnetic, rare quartz veinlets, no visible sulphides.										
159.20	159.50		Light grey, bleached andesite cut by white quartz veinlets at 85°-90° to core axis. Hairline quartz veinlets throughout the section.										
159.50	169.97		Andesite, as above to 159.50m.										
169.97	170.32		Grey quartz vein cutting andesite, epidote veinlets abundant.										
170.32	181.20		Andesite, grey-green, massive, medium grained, occasional epidote veinlets.										
181.20	183.00		Grey, bleached andesite cut by white quartz veins ranging from 1mm to 10cm in width. No visible sulphides.										

TAKLA-RAINBOW PROPERTY
DDH 28

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
183.00	186.08		Andesite, as above to 181.20m.										
186.08	186.43		Andesite, reddish hematite stained, cut by white quartz veinlets.										
186.43	218.04		Andesite, dark grey-green, massive, fine grained, non-magnetic, cut by numerous epidote veinlets, contact with porphyry sharp with no chilled margin at 45° to core axis.										
218.04	221.59		Granite porphyry, grey fine grained matrix with plagioclase phenocrysts to 10mm in length, few white quartz veinlets. Foot of hole. Hole making water (63 l/min or 14 gal/min). 3.65m of BW casing left in hole.										
			Sperry-Sun Tests:*										
			Depth: Dip: Azimuth:										
			63.09m -51°00' 229°										
			124.05m -51°00' 228°										
			185.01m -52°00' 230°										
			*Readings not reliable due to presence of magnetic rocks in the hole.										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : DDH 29
COMMENCED: September 12, 1987
COMPLETED: September 14, 1987
OBJECTIVE:

LOCATION :
LOC. : 4 + 40E/0 + 55S
ELEV. :
CORE SIZE: BQ

CORRECT DIP: -55°
TRUE BRG : 045°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 154.53m

LOGGED BY : R. Pesalj
DATE : September 13/87
CORE STORED : At the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
0.00	11.58		Overburden, fragments of porphyry, BW casing.	4841	21.33	23.20	1.87		1180	.3	159	85	0.034
				4842	23.20	24.60	1.40		1380	.1	253	119	0.040
11.58	21.33		Diorite porphyry, light grey, bleached, fairly soft, consists of fine	4843	24.60	25.35	0.75		6080	.7	435	119	0.177
			grained matrix and plagioclase and minor quartz phenocrysts.	4844	25.35	26.52	1.17		270	.5	266	114	
				4845	29.46	31.09	1.63		350	.1	100	68	
21.33	24.60		Light green and grey andesitic volcanic, fine grained, massive, locally	4846	31.09	32.81	1.72		146	.1	91	107	
			bleached. At 23.57m quartz veinlet at 30° to core axis. Thin white quartz	4847	32.81	33.51	0.70		310	.4	62	61	
			veinlets from 21.33 to 24.60m, trace pyrite.	4848	36.88	37.68	0.80		490	.9	120	83	
				4849	37.68	38.08	0.40		65	.1	20	38	
24.60	25.35		Andesite cut by white quartz veins, fragments of bleached andesite cemented	4850	38.08	38.40	0.32		230	.1	28	27	
			by quartz. Pyrite content less than 1%.	4851	55.47	56.39	0.92		51	.1	156	82	
				4852	56.39	57.30	0.91		78	.1	139	69	
25.35	29.46		Andesite, dark green, massive, trace pyrite, rare quartz veinlets.	4853	57.30	57.70	0.40		47	.1	88	72	
				4854	57.70	58.83	1.13		40	.1	278	78	
29.46	37.68		Granite porphyry, pink and dark green, chloritic, minor disseminated pyrite	4855	58.83	59.80	0.97		59	.1	146	94	
			and quartz veining.	4856	59.80	61.56	1.76		81	.1	206	73	
				4857	61.56	63.09	1.53		56	.1	185	78	
			From 32.81 to 33.51m white quartz vein 1.5cm wide along the core. Dis-	4858	63.09	64.61	1.52		38	.1	151	45	
			seminated pyrite in vein 3-5%.	4859	64.61	66.14	1.53		73	.2	238	58	
				4860	66.14	67.21	1.07		340	.9	558	103	
			From 36.88 to 3768m white quartz vein 1cm wide along the core. Minor dis-	4861	67.21	68.60	1.39		156	.2	320	81	
			seminated pyrite.	4862	68.60	70.10	1.50		118	.2	237	101	
				4863	70.10	71.00	0.90		370	.8	74	107	
				4864	71.00	72.29	1.29		390	.5	113	57	

TAKLA-RAINBOW PROPERTY
DDH 29

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
37.68	56.47		Diorite porphyry, grey, plagioclase phenocrysts to 1cm in length in grey,	4865	72.29	72.99	0.70		550	.6	22	29	
			fine grained matrix.	4866	88.39	89.09	0.70		28	.1	119	57	
				4867	91.02	91.52	0.50		96	.3	80	52	
			From 38.08 to 38.40m white quartz vein 2cm wide along the core.	4868	91.52	93.05	1.53		64	.1	185	85	
				4869	93.05	93.80	0.75		98	.3	100	72	
			Occasional inclusions of mafic volcanic, minor disseminated pyrite.	4870	97.30	98.82	1.52		40	.1	251	72	
				4871	98.82	100.34	1.52		42	.1	283	54	
56.47	67.21		Granite porphyry, pink and dark green, highly chloritic, disseminated	4872	100.34	101.24	0.90		53	.1	132	62	
			pyrite 3%.	4873	101.24	102.35	1.11		33	.1	69	91	
				4874	102.35	103.80	1.45		31	.1	45	94	
67.21	70.10		Andesite, grey-green, chloritic, disseminated pyrite 3%.	4875	103.80	105.86	2.06		28	.2	118	83	
				4876	105.86	106.23	0.37		96	.7	583	61	
70.10	72.29		Andesite cut by white and grey quartz vein with pyrite cubes throughout.	4877	106.23	106.98	0.75		36	.2	90	112	
			The vein is 1-3cm wide, running along the core.	4878	106.98	108.53	1.55		57	.3	92	151	
				4879	108.53	110.03	1.50		43	.2	45	113	
72.29	72.99		Granite porphyry, pink, cut by white quartz veinlets, disseminated	4880	110.03	111.67	1.64		48	.4	110	132	
			pyrite 2%.	4881	111.67	113.20	1.53		60	.4	143	138	
				4882	113.20	114.68	1.48		56	.3	164	110	
72.99	81.00		Diorite porphyry, inclusions of green mafic volcanics throughout the	4883	114.68	116.20	1.52		47	.2	30	131	
			section.	4884	116.20	117.96	1.76		46	.4	68	90	
				4885	117.96	119.48	1.52		79	.2	93	76	
81.00	97.30		Granite porphyry, pink and green, chloritic, disseminated pyrite 1-3%.	4886	119.48	121.00	1.52		39	.2	23	121	
				4887	121.00	122.52	1.52		69	.1	26	114	
97.30	101.24		Granite porphyry, light grey, bleached, kaolinized, soft, fragmented core.	4888	122.52	124.05	1.53		51	.1	84	116	
				4889	124.05	125.58	1.53		39	.1	59	137	
			From 98.30 to 98.50m fault, crushed porphyry, no gouge.	4890	125.58	127.10	1.52		49	.2	38	139	
				4891	127.10	128.62	1.52		48	.2	29	88	

TAKLA-RAINBOW PROPERTY
DDH 29

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
101.24	132.46		Granite porphyry, pink and green, chloritized, disseminated pyrite 1-2%.	4892	128.62	130.15	1.53		55	.1	18	78	
				4893	130.15	132.46	2.31		38	.2	26	84	
			From 105.86 to 106.23m chlorite-epidote rich section, foliated at 45° to	4894	132.46	133.60	1.14		96	.3	70	119	
			core axis. Disseminated pyrite 2-3%.	4895	133.60	134.20	0.60		49	.1	18	62	
			Local hematite zones, epidote throughout.	4896	134.20	135.25	1.05		51	.6	311	138	
				4897	135.25	136.24	0.99		72	.6	221	134	
132.46	133.60		Dark green andesitic volcanic medium grained, massive, minor quartz-chlorite	4898	136.24	137.76	1.52		41	.2	29	127	
			veinlets. Disseminated pyrite 5-8%.	4899	137.76	139.15	1.39		71	.2	52	148	
				4900	139.15	140.35	1.20		220	.6	40	45	
133.60	134.20		Grey quartz vein in andesitic volcanic at 30° to core axis. Disseminated										
			pyrite in vein and wall rock 8%.										
134.20	139.15		Andesite, dark green, chloritic, disseminated pyrite 5%, rare chlorite-										
			quartz veinlets, epidote as specks and veinlts, pyrite increasing in epidote										
			rich sections.										
139.15	140.35		White quartz vein 2-3cm wide running along the core, cutting dioritic										
			intrusive. Minor disseminated pyrite and pyrite cubes in the vein.										
140.35	150.95		Diorite porphyry, grey, plagioclase phenocrysts to 10mm in length set in										
			grey matrix. Trace pyrite, no quartz veining.										
150.95	154.53		Diorite, dark green, chloritic, medium grained, massive. Rare white quartz										
			veinlets, no sulphides. Foot of hole.										
			Sperry-Sun Tests:										
			Depth: Dip: Azimuth:										
			63.09m -57°00' 042°										
			124.05m -56°00' 043°										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : DDH-30
COMMENCED: September 18, 1987
COMPLETED: September 21, 1987
OBJECTIVE:

LOCATION : West Drill Grid
LOC. : 5 + 35E/1 + 10S
ELEV. :
CORE SIZE: BQ

CORRECT DIP: - 55°
TRUE BRG : 045°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 269.14m

LOGGED BY : D. Gorc
DATE : September 21/87
CORE STORED : Campsite
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
0.00	9.75		Casing.	7003	12.50	14.02	1.52		3	.1	6	31	
				7004	17.50	19.00	1.50		3	.1	8	51	
9.75	21.80		Diorite Porphyry	7005	19.00	20.20	1.20		8	.1	9	59	
			Light grey matrix; abundant white feldspar phenocrysts to 0.25cm; 5-10%	7006	20.20	21.80	1.60		7	.1	5	54	
			mafics chloritized; occasional quartz veins at 30°-45° core angle (less	7007	21.80	23.20	1.40		44	.3	15	304	
			than 1 per metre); 0.5 to 1% disseminated pyrite in 10-20cm patches but	7008	23.20	24.70	1.50		58	.3	16	157	
			overall only trace pyrite; local hematitic seams; some sections are dark	7009	24.70	26.00	1.30		42	.4	12	148	
			green chloritic; occasional feldspar phenocrysts are sericitized.	7010	26.00	27.70	1.70		80	.4	22	199	
				7011	27.70	28.25	0.55		52	.2	38	135	
			15.0 - 16.45m - slightly bleached.	7012	28.25	28.90	0.65		94	.4	81	150	
				7013	28.90	29.57	0.67		106	.8	242	241	
21.80	27.70		Andesite	7014	29.57	29.87	0.30		79	.4	27	375	
			Fine porphyritic texture; medium grey to greenish grey matrix; 1-3% dis-	7015	29.87	31.37	1.50		80	.4	21	231	
			seminated pyrite; occasional 1cm silicified patches but rare; occasional	7016	31.37	32.61	1.24		340	.5	20	181	
			spotty epidote but rare.	7017	32.61	33.61	1.00		57	.1	18	99	
				7018	33.61	34.61	1.00		103	.4	93	82	
			26.6m - 1cm quartz - pyrite vein at 25° core angle.	7019	34.61	36.50	1.89		50	.1	96	50	
				7020	36.50	37.50	1.00		57	.4	104	98	
27.70	29.25		Granite Porphyry	7021	37.50	38.71	1.21		25	.3	74	73	
			Pinkish brown matrix; large white feldspar phenocrysts to 1cm.	7022	38.71	40.30	1.59		17	.4	32	106	
				7023	40.30	41.76	1.46		30	.2	25	73	
				7024	41.76	43.26	1.50		32	.3	48	128	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
29.25	33.61		Andesite	7025	43.26	44.76	1.50		52	.7	106	156	
			Same as above, slightly more epidote.	7026	44.76	45.50	0.74		39	.1	28	104	
				7027	45.50	47.35	1.85		78	.3	105	118	
			29.65 - 29.75m - greyish silica with moderate epidote.	7028	47.35	48.80	1.45		47	.4	78	117	
				7029	48.80	50.80	2.00		66	.8	17	107	
			32.50 to 32.75m - pinkish alteration, K-spar, hematite.	7030	50.80	51.70	0.90		230	.3	21	53	
				7031	51.70	52.70	1.00		140	.5	146	72	
33.61	36.50		Granite Porphyry	7032	52.70	53.95	1.25		260	.5	194	98	
			Highly sheared, much of original textured obliterated; grey matrix with	7033	53.95	55.70	1.75		34	.1	60	100	
			occasional pinkish K-spar patches, large feldspar phenos to 1cm cut by	7034	55.70	56.60	0.90		295	.4	102	102	
			abundant thin calcite veinlets (1mm to 2mm) at 40° core angle.	7035	56.60	57.50	0.90		240	.8	427	128	
				7036	57.50	58.60	1.10		170	.3	30	43	
36.5	57.50		Andesite	7037	58.60	59.90	1.30		290	.9	636	106	
			Fine, porphyry, dark green to dark greenish grey, matrix, 3-5% disseminated	7038	59.90	61.25	1.35		28	.3	26	36	
			pyrite; 5-6 quartz veins per metre at 30° to 45° at core angle. Occasional	7039	61.25	62.48	1.23		16	.3	14	44	
			10-30cm wide patches with light green epidote alteration; 1 to 2 patches	7040	62.48	64.31	1.83		27	.1	6	40	
			per metre; generally only slight epidote but more epidote than previous	7041	64.31	65.53	1.22		43	.1	6	40	
			andesite; quartz veinlets at 30°-35° core angle.	7042	65.53	66.20	0.67		21	.2	26	37	
				7043	66.20	68.58	2.38		141	.4	23	44	
			45.10 - 45.40m - high epidote alteration, 8% disseminated pyrite, thin quart	7044	68.58	71.93	3.35		2	.4	5	58	
			veinlets at 40° core angle.	7045	71.93	73.46	1.53		1	.1	15	32	
				7046	73.46	74.68	1.22		7	.3	26	38	
			50.90 - fault gouge - small amount.	7047	74.68	75.60	0.92		5	.1	9	50	
				7048	75.60	76.52	0.92		49	.2	17	31	
			50.90 - 51.70m - medium grey slightly bleached, slightly silicified,	7049	76.52	77.90	1.38		1	.2	21	28	
			moderately fractured.	7050	77.90	78.50	0.60		36	.3	7	38	
				7051	78.50	79.30	0.80		4	.3	7	35	
				7052	79.30	81.38	2.08		19	.1	10	55	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			51.70 - 52.70 - highly fractured and brecciated; grey to whitish in colour;	7053	81.38	83.67	2.29		6	.4	12	41	
			5% disseminated pyrite quartz and calcite veins at 30° to 35° core angle.	7054	83.67	84.10	0.43		10	.2	9	49	
				7055	84.10	85.30	1.20		34	.3	8	81	
			52.70 - 53.95 - slightly fractured, some calcite veinlets.	7056	85.30	86.80	1.50		29	.3	10	101	
				7057	86.80	88.30	1.50		204	.9	68	75	
			55.70 - 57.50 - 10% disseminated pyrite cut by abundant bluish quartz vein-	7058	88.30	89.80	1.50		113	.4	38	40	
			lets 2-3m thick, quartz veinlets are fractured; one thin quartz-pyrite	7059	89.80	91.86	2.06		36	.3	6	34	
			veinlets along core; dark greenish grey rock is siliceous at least	7060	91.86	92.96	1.10		32	.3	69	6	
			partially silicified but not intense silicification.	7061	92.96	94.20	1.24		44	.5	144	8	
				7062	94.20	96.15	1.95		168	1.5	1666	3	
			55.70 - 55.80m - high epidote.	7063	96.15	97.62	1.47		170	.2	119	28	
				7064	97.62	99.00	1.38		61	.1	16	38	
			56.90 - 57.15m - dark green high chlorite minor silica.	7065	99.00	100.58	1.58		83	.2	92	48	
				7066	100.58	101.60	1.02		63	.1	56	37	
57.50	58.60		Granite Porphyry	7067	101.60	103.00	1.40		29	.2	5	38	
			Intermixed pinkish and greyish matrix; irregular mixture predominantly pink,	7068	103.00	104.10	1.10		38	.3	6	34	
			some thin pink K-spar envelopes (0.25cm) to some fractures; 2% disseminated	7069	104.10	105.77	1.67		18	.1	4	35	
			pyrite.	7070	105.77	106.90	1.13		8	.2	4	34	
				7071	106.90	108.40	1.50		9	.1	9	34	
			58.20 - 58.60 - highly fractured and brecciated.	7072	108.40	109.30	0.90		225	.1	16	34	
				7073	109.30	111.00	1.70		18	.2	8	33	
			Lower contact sharp at 30° core angle; perhaps fault contact.	7074	111.00	112.25	1.25		45	.1	14	27	
				7075	119.40	120.80	1.40		19	.2	8	26	
58.60	59.90		Andesite	7076	120.80	122.20	1.40		55	.1	9	38	
			Fine porphyry; medium grey to dark grey matrix; moderately fractured. 3-5%	7077	122.20	123.70	1.50		69	.3	46	38	
			disseminated pyrite a few bluish quartz veins but minor; small amounts of	7078	127.40	129.00	1.60		40	.1	9	31	
			chlorite and epidote but only minor amounts.	7082	129.00	130.00	1.00		42	.3	141	92	
				7083	130.00	131.65	1.65		78	.2	12	32	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			59.90m - small fault at 35° core angle.	7084	131.65	133.20	1.55		355	.3	17	36	
				7085	133.20	134.75	1.55		178	.3	9	45	
59.90	73.46		Granite Porphyry	7086	134.75	136.35	1.60		21	.1	19	27	
			Moderately altered and bleached, much of original texture obliterated, 1-2%	7087	126.35	137.75	1.40		73	.6	366	96	
			disseminated pyrite; moderately fractured, core is broken up, only a few	7088	137.75	138.60	0.85		79	.7	268	128	
			quartz veins.	7089	138.60	139.80	1.20		36	.2	17	52	
				7090	139.80	141.30	1.50		55	.2	33	29	
			61.40m - small fault.	7091	141.30	141.85	0.55		45	.1	31	34	
				7092	141.85	143.30	1.45		95	.1	24	78	
			68.00 - 73.46 - fault zone; fault gouge at 68.00, 69.00, 11.50 - 91.00.	7093	143.30	144.80	1.50		75	.2	20	61	
			30% core recovery	7094	144.80	145.90	1.10		35	.3	20	63	
				7095	151.00	151.49	0.49		165	.1	8	45	
73.46	75.60		Andesite	7096	151.49	152.89	1.40		129	.3	8	45	
			Dark green to brownish green, 2-3% disseminated pyrite, minor epidote,	7097	152.89	154.53	1.64		42	.3	18	46	
			slightly fractured.	7098	154.53	155.73	1.20		140	.3	16	57	
				7099	155.73	156.73	1.00		250	.3	13	34	
			74.70m - fault - (gouge).	7100	156.73	158.30	1.57		71	.4	14	48	
				7101	165.90	166.70	0.80		27	.3	172	41	
75.60	84.10		Diorite Porphyry	7102	171.60	172.82	1.22		29	.3	32	64	
			Highly altered and bleached, most of original texture obliterated; only	7103	172.82	173.82	1.00		20	.1	8	35	
			trace disseminated pyrite; a few bluish quartz veins at 5° to 30° core	7104	173.82	174.40	0.58		48	.4	10	23	
			angle; on 77.90 - 78.50m - 1cm quartz beins along core; 83.38 - 83.67 -	7105	174.40	175.60	1.20		47	.3	143	51	
			fault zone gouge.	7106	175.60	176.30	0.70		41	.4	227	79	
				7107	176.30	177.10	0.80		19	.4	111	95	
84.10	91.86		Andesite	7108	177.10	178.50	1.40		33	.2	53	94	
			Fine porphyry intermixed medium grey brownish grey and dark green;	7109	178.50	180.40	1.90		58	.3	68	87	
			moderately fractured, approximately 3 quartz veinlets (0.2cm) per metre;	7110	180.40	181.05	0.65		360	.4	80	26	
			at 30°-40° core angle.	7111	181.05	181.27	0.22		107	.2	65	18	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
91.86	96.20		Basalt	7112	181.27	182.40	1.13		45	.1	27	50	
			Dark greenish grey; cut by very thin epidote veinlets; only minor pyrite.	7113	182.40	184.20	1.80		31	.1	18	33	
				7114	184.20	185.00	0.80		81	.2	91	63	
				7115	185.00	186.10	1.10		67	.4	84	54	
			94.20 - 96.20 - moderately fractured; quartz filled fractures at 15° core	7116	186.10	187.00	0.90		63	.3	100	86	
			angle.	7117	189.90	191.40	1.50		95	.3	101	90	
				7118	191.40	192.70	1.30		2160	.5	111	67	0.003
96.20	99.00		Andesite	7119	192.70	194.16	1.46		103	.3	34	77	
			Highly silicified; fine grained brownish grey, highly siliceous matrix;	7120	194.16	195.30	1.14		153	.4	20	70	
			locally brecciated low disseminated pyrite <1%.	7121	195.30	196.40	1.10		138	.3	43	121	
				7122	196.40	198.00	1.60		57	.2	22	120	
99.00	101.50		Andesite	7123	198.00	198.90	0.90		164	.2	40	113	
			Fine porphyry; mottled dark grey, dark green, pink and epidote green	7124	198.90	199.30	0.40		52	.1	31	143	
			irregular epidote alteration random - 5cm areas; occasional 5cm patches	7125	199.30	200.00	0.70		730	.9	466	107	
			of K-spar alteration - 3-5% disseminated pyrite.	7126	200.00	200.20	0.20		49800	14.7	19439	172	1.269
				7127	200.20	200.65	0.45		1570	1.9	2041	132	0.045
101.50	112.35		Diorite Porphyry	7128	200.65	201.35	0.70		450	.5	489	92	
			Highly siliceous medium grey matrix; much of original texture obliterated;	7129	201.35	202.00	0.65		290	.5	660	103	
			occasional zones with 0.5cm feldspar phenocrysts; trace epidote; 1-2% dis-	7130	202.00	203.00	1.00		220	.5	989	132	
			seminated pyrite.	7131	203.00	204.10	1.10		280	.5	511	98	
				7132	204.10	204.70	0.60		320	.5	579	98	
			108.40 - 109.30m - high epidote, a bluish quartz vein with pyrite from	7133	204.70	205.60	0.90		97	.2	105	49	
			109.20 - 109.30m sharp contacts at 30° core angle.	7134	205.60	206.35	0.75		94	.7	215	88	
				7135	206.35	206.85	0.50		81	.5	247	87	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
112.35	119.40		Diorite Porphyry	7136	206.85	208.40	1.55		98	.5	310	93	
			Dark grey matrix; abundant large white feldspar phenocrysts to 1cm;	7137	208.40	209.40	1.00		184	.2	111	79	
			occasional slight silicification along some fractures but rare; no quartz	7138	209.40	210.00	0.60		230	.3	77	53	
			eyes. No pyrite; fresh appearance.	7139	210.00	211.30	1.30		205	.1	105	37	
			Sharp upper contact at 70° core angle.	7140	226.20	226.80	0.60		84	.1	11	20	
				7141	226.80	227.95	1.15		29	.2	19	24	
			Sharp lower contact at 70° core angle.	7142	227.95	229.10	1.15		18	.1	20	22	
				7143	229.10	230.50	1.40		23	.3	187	92	
119.40	127.40		Diorite Porphyry	7144	236.60	237.20	0.60		118	.3	10	28	
			Silicified; medium grey highly siliceous matrix; much of original texture	7145	238.00	238.60	0.60		64	.2	42	28	
			obliterated, remnants of feldspar phenocrysts to 1cm; occasional 5cm	7146	249.00	249.20	0.20		2	.2	48	38	
			sections of epidote alteration; 1-2% disseminated pyrite.	7147	259.20	259.90	0.70		19	.3	60	67	
				7148	259.90	261.20	1.30		115	.6	205	88	
			Sharp lower contact at 15° core angle.	7149	261.20	262.00	0.80		1	.1	17	70	
				7150	262.00	263.10	1.10		38	.3	171	95	
127.40	130.00		Andesite	7151	263.10	264.70	1.60		50	.3	26	99	
			Very fine grained porphyry; dark green matrix; 5-10% epidote along fractures	7152	264.70	265.40	0.70		1	.5	21	78	
			and irregular patches; only 0.5% disseminated pyrite.										
130.00	131.65		Diorite Porphyry										
			Medium grey silaceous matrix; texture partially obliterated; minor amounts										
			of epidote and pink K-spar alteration; 2-4% disseminated pyrite.										
131.65	134.75		Andesite										
			Possibly altered intrusive, fine grained, brownish-red, highly silaceous										
			matrix; 2-6% disseminated pyrite; minor amounts of epidote.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
134.75	136.35		**Diorite Porphyry**										
			Medium grey matrix; large 1cm feldspar phenos partially obliterated,										
			partially silicified 2-4%.										
136.35	138.60		Andesite, same as above.										
138.60	141.85		**Diorite Porphyry**										
			Identical to above.										
141.85	145.90		**Andesite**										
			Fine porphyry; dark green, to greenish grey matrix; minor amounts of epidote										
			2-4% disseminated pyrite.										
145.90	174.40		**Diorite Porphyry**										
			Light grey silaceous matrix; texture partially obliterated, trace epidote;										
			feldspar phenos to 0.5cm; trace to 0.5% disseminated pyrite.										
			151.00 - short 1cm to 2cm partially silicified, start at 2 to 5% dis-										
			seminated pyrite, occasional patches of epidote and K-spar but few in										
			number.										
			158.30m - end of 2-5% disseminated pyrite, return to trace to 0.5% pyrite.										
			165.90 - 166.70m - 15 thin bluish quartz veins, some with pyrite; up to 1cm										
			thick, 60° core angle.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			169.70m - start of occasional patches (1-5cm) of K-spar, occasional slight bleaching.										
			171.60 - 174.40m - rock is partially bleached and sericitized.										
174.40	185.00		Basalt Very fine grained, dark green to near black matrix; not pyritic; but by stockwork of white quartz veinlets, 10-20 quartz veinlets per metre, very thin <0.5cm thick; no pyrite in veinlets; 2-4% disseminated pyrite, no epidote alteration, occasional greyish bleaching along some fractures.										
			174.40 - 175.60m - bleached to light grey.										
			178.00 - 178.30m - granite porphyry dyke at 25° core angle.										
			179.10m - 3cm white quartz-pyrite vein at 45° core angle.										
			180.40 - 181.05m - 5-10% disseminated pyrite with greyish silicification, framboidal pyrite.										
			180.05 - 181.27m - 2-5% disseminated pyrite.										
			181.27 - 182.40m - bleached to light grey.										
			182.40- 186.00m - fault zone highly shattered, altered rock; greenish grey to light grey.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
185.00	191.40		**Diorite Porphyry**										
			Light grey matrix; finer texture than usual; phenocrysts are less than										
			0.25cm; occasional small amounts of chlorite, occasional chlonte veins; cut										
			by stockwork of white quartz veins to 1cm thick; occasional pyrite in veins,										
			occasional patches of K-spar but not abundant.										
191.40	200.20		**Basalt**										
			Dark green matrix; occasional patches of greenish K-spar and epidote										
			(5cm of 30cm thick) approximately 1-2 patches per metre, occasional										
			slighly bleached zones; cut by quartz stockwork; most veins at 0° to 50°										
			core angle; minor pyrite in veins; white quartz 2-4% disseminated pyrite.										
			198.90 - 199.30m - Dikelet of diorite porphyry.										
			199.30 - 200.00m - fault zone										
			- highly brecciated										
			- predominantly white quartz with minor grey quartz 2-5%										
			disseminated pyrite.										
			200.00 - 200.200m - 10% disseminated pyrite.										
200.20	203.00		**Diorite Porphyry**										
			Fine grained, medium grey textured, moderately altered; 3-8% disseminated										
			pyrite; occasional white quartz and grey quartz veinlets. 0.1% disseminated										
			pyrite to 0.5% disseminated pyrite.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
203.00	210.00		Andesite										
			Bleached to grey, altered; highly fractured, cut by stockwork of white										
			quartz veinlets to 0.5cm thick, random orientation and 3-8% disseminated										
			pyrite, minor chlorites epidote.										
210.00	229.10		Altered Granite Porphyry										
			Remnant feldspar phenos to 1cm; phenos all altered to green sericite; matrix										
			is light green, soft, overall only trace pyrite to 05% except 210.0- 211.3										
			where there is 1% disseminated pyrite.										
			215.50 - 217.00m - highly fractured, brecciated.										
			221.60 - 227.90m - highly fractured, brecciated.										
			226.80 - 279.90m - small amounts of greyish quartz.										
229.10	230.50		Andesite										
			Bleached, grey, fine grained cut by stockwork of white quartz veinlets 2-4%										
			disseminated pyrite.										
230.50	249.20		Diorite Porphyry										
			Medium grey to brownish-grey matrix; large white feldspar phenocrysts for										
			1cm, minimal alteration; occasional 10cm patches of pink K-spar altera-										
			tion but not common; occasional quartz vein along core; slight bleaching										
			along quartz veins.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			236.60 - 237.20m - quartz vein along core (2cm).										
			238.00 - 238.40m - quartz vein along core (2cm).										
			247.60m - fault.										
249.20	259.20		Granite Porphyry										
			Large feldspar phenocrysts to 1cm, predominantly pinkish matrix; with minor										
			sections of greyish matrix, trace pyrite.										
259.20	265.40		Basalt										
			Black, very fine grained, cut by abundant white quartz veinlets, 2-4%										
			disseminated pyrite, first metre is bleached light grey.										
			259.60m - 2cm quartz vein at 15° core angle.										
265.40	269.14		Granite Porphyry										
			Same as previous granite porphyry.										
			End of hole										
			Sperry Sun Tests:										
			Depth Azimuth Inclination										
			60.96m 040° 56°00'										
			121.92m 042° 57°15'										
			182.88m 044° 58°30'										
			266.09m 049° 59°15'										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : DDH-31
COMMENCED: September 21, 1987
COMPLETED: September 24, 1987
OBJECTIVE:

LOCATION : West Drill Grid
LOC. : 8 + 16E/1 + 45S
ELEV. :
CORE SIZE: BQ

CORRECT DIP: - 55°
TRUE BRG : 045°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 268.83m

LOGGED BY : D. Gorc
DATE : September 24/87
CORE STORED : At the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
0.00	9.75		Casing.	7153	13.20	13.8	0.60		14	1.5	1079	159	
				7154	21.70	22.97	1.27		25	.2	149	153	
9.75	12.60		Andesite	7155	32.50	33.50	1.00		95	.1	98	119	
			Highly weathered, soft, strong reddish-brown iron staining.	7156	33.50	34.40	0.90		63	.7	504	150	
				7157	39.40	40.05	0.65		25	.3	92	131	
12.60	22.90		Andesite	7158	40.05	40.80	0.75		1	.2	122	114	
			Fine porphyry; dark green matrix; clasts less than 2mm; occasional slight	7159	41.70	42.80	1.10		280	1.0	557	138	
			greyish bleaching but very minor; occasional epidote along fractures and in	7160	44.80	45.80	1.00		146	.3	59	159	
			small patches along 5-15cm lengths of core but only minor amounts; approxi-	7161	47.85	48.95	1.10		90	.4	14	183	
			mately 1-2 epidote patches per 10m, only trace pyrite at best; mostly no	7162	50.90	52.00	1.10		98	.3	247	184	
			pyrite; unit is magnetic; occasional quartz and calcite veinlets but only	7163	53.10	53.70	0.60		40	.2	83	159	
			1-3 per 3 metres.	7164	54.60	55.10	0.50		41	.8	614	187	
				7165	58.10	59.30	1.20		98	.6	450	178	
			13.00m - 1cm greyish quartz chalcopyrite vein at 15° core angle cut by	7166	59.30	60.35	1.05		112	.6	68	162	
			white, barren quartz.	7167	60.35	61.20	0.85		137	.1	31	154	
				7168	61.20	62.05	0.85		32	.8	481	152	
			13.20- 13.80m - moderate epidote alteration; 1% pyrite; trace chalcopyrite.	7169	66.40	67.50	1.10		37	.6	285	74	
				7170	70.20	71.90	1.70		71	.3	71	127	
			18.80m - calcite vein at 10° core angle, slight bleaching for 10cm	7171	74.30	75.30	1.00		96	.4	40	161	
			on either side.	7172	82.70	84.00	1.30		7650	2.0	137	262	0.229
				7173	88.20	89.00	0.80		28	.2	197	168	
				7174	89.00	90.40	1.40		34	.3	47	142	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			21.70 - 22.90m - moderate epidote alteration. Sharp lower contact at 45°	7175	90.40	91.40	1.00		1	.4	8	47	
			core angle.	7176	91.40	93.20	1.80		1	.2	7	42	
				7177	99.57	100.77	1.20		23	.2	30	149	
22.90	26.40		Basalt	7178	102.90	104.10	1.20		140	.9	227	154	
			Very fine grained textured, very dark green, near black matrix; very	7179	104.10	104.70	0.60		24	.2	51	138	
			magnetic, trace pyrite.	7180	111.20	112.30	1.10		14	.5	167	125	
				7181	112.30	113.00	0.70		5	.3	13	151	
26.40	90.40		Andesite	7182	113.00	114.50	1.50		3	.2	2	105	
			Fine porphyry; 26.40m - 35.00m somewhat coarser porphyry with porphytic	7183	114.50	115.15	0.65		5	.3	4	132	
			clasts to 3mm; dark greenish grey matrix; occasional epidote veinlets and	7184	118.50	118.50	0.45		191	.4	35	203	
			10-15 zones of disseminated epidote but such horizons are not common;	7185	121.80	122.30	0.50		59	1.1	782	108	
			occasional horizons of fine grained tuff.	7186	123.40	124.40	1.00		61	.6	136	177	
				7187	124.40	125.20	0.80		11	.4	166	119	
			27.00 - 27.30m - quartz vein along core.	7188	125.20	126.50	1.30		61	.2	71	128	
				7189	126.50	127.10	0.60		49	.4	53	132	
			28.20 - 28.60m - quartz vein along core; only trace disseminated pyrite; un	7190	127.10	128.60	1.50		18	.1	208	123	
			is sporadically magnetic.	7191	128.60	129.60	1.00		2050	.4	34	98	0.065
				7192	129.60	131.35	1.75		285	.1	118	124	
			32.50 - 35.20m - moderate epidote alteration.	7193	131.35	132.60	1.25		149	.6	563	151	
				7194	132.60	133.80	1.20		8	.1	59	80	
			33.50 - 34.40m - includes 3 quartz veins at 30° to 80° core angles, white	7195	133.80	135.70	1.90		23	.2	133	136	
			quartz.	7196	140.12	141.12	1.00		12	.5	503	115	
				7197	147.80	149.30	1.50		9	.2	48	148	
			35.00m - predominantly fine porphyry, clasts are less than 2mm.	7198	151.20	152.60	1.40		10	.7	355	96	
				7199	153.40	155.00	1.60		31	.3	157	160	

From	To	Syb	Description	Smp. No.	From	To	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			39.60 - 40.50m - low epidote alteration in patches 0.5 to 1% disseminated	7200	158.10	159.70	1.60		10	.1	12	127	
			pyrite.	7201	161.10	162.40	1.30		1	.1	2	146	
				7202	162.40	163.70	1.30		2	.1	4	162	
			39.95m - 2cm vuggy quartz-epidote vein at 45° core angle.	7203	166.80	167.70	0.90		1	.4	38	133	
				7204	170.20	171.20	1.00		6	.1	70	111	
			41.70 - 42.20m - 1cm quartz-chlorite vein at 5° core angle; minor pyrite;	7205	176.50	177.60	1.10		1	.4	154	89	
			2-4% disseminated pyrite alongside.	7206	177.60	170.30	0.70		1	.2	27	91	
				7207	185.00	185.90	0.90		1	.1	24	64	
			42.50 - 42.80m - vuggy quartz vein along core; 2-4% disseminated pyrite	7208	187.20	188.60	1.40		1	.2	6	86	
			alongside.	7209	188.60	189.20	0.60		1	.4	5	60	
				7210	189.20	190.00	0.80		1	.3	9	53	
			45.00 - 45.80m - 1cm vuggy quartz vein along core with minor chlorte pyrite;	7211	190.00	191.10	1.10		1	.3	19	54	
			2-4% disseminated pyrite alongside vein.	7212	191.10	192.50	1.40		28	.3	31	60	
				7213	192.50	194.00	1.50		3	.2	15	67	
			48.00 - 48.40m- 0.25cm vuggy quartz chlorte vein at 5° core angle.	7214	194.00	195.40	1.40		27	.3	33	98	
				7215	195.40	196.40	1.00		52	1.0	510	133	
			51.20m - 1cm of greyish quartz with pyrite; a few more additional 1cm zones	7216	201.55	202.95	1.40		1	.4	20	77	
			of greyish quartz to 51.70m.	7217	207.45	209.20	1.75		8	.2	37	138	
				7218	209.20	209.80	0.60		16	.5	71	122	
			51.20 - 51.70m - 3-5% disseminated pyrite; trace chalcopyrite.	7219	209.80	210.80	1.00		34	.3	41	87	
				7220	210.80	212.10	1.30		69	.4	250	67	
			53.10 - 53.70m - high chlorte; 2% disseminated pyrite.	7221	212.10	214.00	1.90		7	.1	90	90	
				7222	214.00	215.50	1.50		66	.2	105	56	
			54.60 - 55.10m - low epidote; 2% disseminated pyrite.	7223	215.50	216.90	1.40		7	.2	121	71	
				7224	221.00	221.60	0.60		33	.3	150	84	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			58.10 - 61.90m - 1-3% disseminated pyrite; cut by numerous thin white quartz	7225	221.60	222.20	0.60		8190	14.2	75	46	0.272
			veins at 45° and 55° core angle.	7226	222.90	223.40	0.50		22	.1	89	69	
				7227	223.40	224.00	0.60		145	.8	453	62	
			63.50m - start of greyish green bleaching with occasional slightly purplish	7228	239.60	240.30	0.70		260	.6	74	65	
			sections slightly brecciated appearance, only trace pyrite.	7229	240.30	240.80	0.50		770	1.6	86	56	0.026
				7230	240.80	241.40	0.60		1570	3.1	43	18	0.049
			67.50m - end of zone; 0.5cm pyrite vein at 45° core angle at 67.50m.	7231	241.40	242.30	0.90		8	.1	12	17	
				7232	251.01	251.50	0.50		10	.3	98	65	
			70.40 - 71.80m - completely bleached zone, light grey to greenish grey;	7233	257.60	258.00	0.40		1	.1	127	116	
			possible fault zone.	7234	261.60	262.20	0.60		5	.1	57	61	
				7779	81.38	82.90	1.52		42	.1	18	203	
			75.150 - 75.30m - 1cm quartz-chlorite vein at 5° core angle; 5cm zone of 3%	7780	84.13	85.65	1.52		19	.4	52	189	
			disseminated pyrite alongside vein.	7781	222.20	222.95	0.75		22	.1	141	61	
			82.70 - 84.00m - 1-2% disseminated pyrite includes 1cm quartz-calcite vein										
			at 30° core angle at 83.2m.										
			88.20 - 90.40m - 2% disseminated pyrite; minor epidote.										
90.40	99.57		Granite Porphyry										
			Matrix is dark grey; abundant large feldspar to 1cm; most of feldspar phenos										
			are at least partially altered to pink K-spar; occasional3cm wide K-spar										
			alteration haloes around fractures at 20° core angle, only trace pyrite;										
			could perhaps be labelled as diorite porphyry.										
			Sharp lower contact at 60° core angle.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
99.57	136.00		Andesite										
			Fine porphyry - small clasts less than 2mm; dark grey to dark green matrix;										
			occasional minor epidote veinlets or patches; occasional patches of pink										
			K-spar alteration; only trace pyrite; occasional 1m horizons of black,										
			fine grained tuff.										
			99.57 - 100.77m - 1-2% disseminated pyrite.										
			102.90 - 104.70m - 1cm quartz veins, vuggy, along core.										
			111.20 - 119.00m - abundant patches of moderate epidote alteration; approxi-										
			mately 50% of core affected by epidote alteration; at 111.60m there is a 1cm										
			quartz veinlet with chalcopyrite at 30° core angle; at 113.50m there is a										
			3cm quartz vein at 35° core angle.										
			144.75m - 1cm quartz vein at 5° core angle.										
			115.00m - unit is cut by abundant thin calcite veinlets at all angles.										
			121.80 - 122.30 - moderate epidote alteration, trace chalcopyrite.										
			125.20 - 127.10 - fault zone; core completely weathered, soft, very broken u										
			127.10 - 130.00m - well fractured moderate epidote; several thin quartz and										
			calcite veinlets, trace pyrite.										
			132.60 - 133.80m - completely bleached to light grey;										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			132.90m - 10cm quartz vein at 45° core angle.										
			133.20 - 133.60m - quartz-calcite vein at 45° core angle; minor pyrite.										
136.00	153.00		Andesite										
			Coarse porphyry; slightly coarser texture; abundant clasts 1mm to 2mm; dark										
			green to near black matrix; occasional patches of epidote; only minor										
			epidote. Occasional 5-15cm horizons of modederate epidote but few in										
			number. Only trace pyrite; some pyrite along epidote veinlets; core is very										
			magnetic.										
			151.20 - 152.60m - moderate epidote lower contact at 45° core angle.										
153.00	176.50		Andesite										
			Interbedded fine grained black basalt tuff and coarse andesite porphyry										
			with clasts to 3mm; alternating horizons of 1-3mm; similar pattern to										
			epidote as above; only trace pyrite.										
			163.07m - small fault.										
			167.10m - small fault.										
176.5	207.45		Diorite										
			Medium grey to dark grey matrix; equigranular mixture of white feldspar;										
			15-20% mafics, phenocrysts to white feldspar to 2mm trace pyrite; rare										
			chalcopyrite along some quartz veinlets; minor number of veinlets; core										
			is not magnetic.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			185.80m - 1cm quartz vein with trace chalcopyrite at 60° core angle.										
			185.90m - start of moderate greyish bleaching, note flecks of hematite.										
			187.20 - 187.60m - 0.25cm quartz vein along core.										
			188.60 - 189.20m - fault zone; minor silica; highly weathered, soft, altered										
			190.00 - 190.90m - 1cm quartz vein along core.										
			192.20 - 192.50m - several irregular thin quartz veinlets along core and cross cutting.										
			193.25 - 193.85m - fault zone.										
			194.00 - 195.40m - quartz breccia zone along core.										
			195.40m - end of greyish bleaching.										
207.45	209.80		**Andesite ?**										
			Fine porphyry; dark green matrix; moderate epidote; trace pyrite at best, occasional, slightly pink horizons.										
209.80	229.70		**Diorite**										
			Dark grey, greenish grey and brownish grey matrix; crowded small feldspar phenocrysts to 2mm; 10-15% mafics; trace pyrite.										

From	To	Syb	Description	Smp. No.	From	To	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			209.80 - 215.50m - highly bleached zone containing fault zone and fault goug										
			212.10 - 214.00m - fault; completely weathered gouge.										
			221.70 - 222.00m - 5cm quartz-pyrite vein along core.										
			230.10m - 1cm quartz vein at 30° core angle; 10cm of bleaching alongside.										
229.70	241.40		Andesite										
			Coarse porphyry with a few thin (less than 1m) horizons of black fine grained andesite tuff; clasts to 3mm; no pyrite; no epidote; unit is magnetic.										
			223.30 - 223.90m - white quartz vein at 25° core angle.										
			240.30 - 240.80m - 1cm quartz-chlorite vein along core.										
			240.80 - 241.10m - quartz-pyrite vein at 20° core angle.										
241.10	243.30		Diorite										
			Same as above.										
243.30	268.83		Andesite										
			Same as previous Andesite except minor amounts of epidote.										

From	To	Syb	Description	Smp. No.	From	To	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			251.00 - 251.50m - 5 thin quartz veins at 60° core angle, slight bleaching.										
			257.75m - 1cm quartz vein at 60° core angle; 10cm of slight bleaching										
			alongside.										
			261.60 - 262.20m - moderate(+) epidote alteration. End of hole.										
			Sperry Sun Tests:										
			Depth Azimuth Dip										
			60.96m 046°30' 56°00'										
			121.92m 051° 56°30'										
			182.88m 051° 57°30'										
			266.09m 065° 59°30'										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : DDH-32
COMMENCED: September 26, 1987
COMPLETED: September 28, 1987
OBJECTIVE:

LOCATION : West Drill Grid
LOC. : 8 + 16E/1 + 46S
ELEV. :
CORE SIZE: BQ

CORRECT DIP: - 50°
TRUE BRG : 225°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 228.6m

PAGE : 1 of 9
LOGGED BY : D. Gorc
DATE : September /87
CORE STORED : Campsite
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
0.00	4.68		Casing.	7235	4.68	51.18	0.50		37	.5	68	81	
				7236	5.18	60.80	0.90		120	.8	39	71	
4.68	7.50		Andesite	7237	60.80	7.50	1.42		166	.5	21	83	
			Fine porphyry; slightly bleached to brownish grey; 1-2% disseminated	7238	7.50	8.50	1.00		35	.3	28	107	
			pyrite.	7239	8.50	8.90	0.40		33	.3	39	89	
				7240	11.80	13.00	1.20		38	.4	136	201	
			5.00m - 2cm quartz vein at 60° core angle.	7241	13.00	14.33	1.33		37	.4	50	236	
				7242	14.33	15.23	0.90		99	1.2	151	371	
			7.20m - 2-1cm quartz veins at 75° core angle.	7243	23.75	24.50	0.75		91	.9	83	745	
				7244	24.50	25.00	0.50		216	.8	116	287	
7.50	23.75		Andesite	7245	25.00	25.50	0.50		145	1.1	127	492	
			Fine porphyry; dark greenish grey matrix, clasts less than 2mm, only very	7246	26.32	26.82	0.50		25	.5	115	241	
			minor patchy epidote; minor chlorite filled fractures; unit is cut by	7247	32.61	33.01	0.40		81	.6	79	191	
			numerous thin calcite veinlets, unit is magnetic; trace pyrite.	7248	33.01	33.90	0.89		48	.5	192	165	
				7249	34.40	35.30	0.90		46	.5	96	153	
			8.60m - 0.5cm quartz veins at 5° and 80° core angle, minor pyrite.	7250	37.60	38.50	0.90		40	.5	236	214	
				7251	38.50	39.10	0.60		195	1.8	883	181	
			11.80 - 130.00m - pinkish brown bleaching; 5cm quartz vein at 12.40m.	7252	39.10	40.10	1.00		95	.8	141	160	
				7253	40.10	40.90	0.80		89	.4	24	235	
			13.00 - 14.33m - 0.5 to 1% disseminated pyrite.	7254	42.25	42.65	0.40		240	3.4	2672	349	
				7255	42.65	43.50	0.85		32	.5	178	245	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			14.33 - 15.23m - 1% disseminated pyrite plus minor epidote along some	7256	43.50	44.00	0.50		330	1.4	197	155	
			fractures.	7257	44.00	44.50	0.50		124	1.1	87	254	
				7258	44.50	45.20	0.70		445	1.3	170	256	
			20.50 - 20.750m - slight greyish bleaching.	7259	45.20	46.40	1.20		56	.7	54	263	
				7260	46.40	47.55	1.15		180	2.0	291	168	
			22.50m - 1cm quartz vein at 60° core angle.	7261	47.55	48.10	0.55		37	.4	52	110	
				7262	48.10	48.80	0.70		1	.4	12	113	
23.75	25.50		Andesite	7263	55.90	56.60	0.70		9	.4	8	139	
			Similar to above except with 5-8% disseminated pyrite.	7264	56.60	57.30	0.70		1	.3	5	106	
				7265	57.30	58.70	1.40		3	.3	24	61	
25.50	57.00		Andesite	7266	58.70	59.90	1.20		1	.7	100	97	
			Similar to andesite from 7.50 to 23.75m; fine porphyry; still only trace	7267	61.64	62.64	1.00		33	.1	5	77	
			pyrite; local 1cm to 0.5m sections with 1% disseminated pyrite but not	7268	62.64	62.94	0.30		215	.4	7	112	
			numerous.	7269	62.94	63.84	0.90		205	.9	126	165	
				7270	86.75	87.25	0.50		43	.4	325	113	
			26.32 - 26.82m - 1% disseminated pyrite.	7271	100.15	100.65	0.50		70	.3	14	132	
				7272	107.00	107.40	0.40		14	.2	8	84	
			Epidote filled fractures are common, often associated with thin pinkish	7273	107.40	107.80	0.40		1	.3	8	84	
			alteration alongside fracture.	7274	107.80	108.60	0.80		560	.4	6	124	0.020
				7275	111.80	112.20	0.40		1	.2	5	121	
			32.61 - 33.01m - 2-4% disseminated pyrite.	7276	112.20	113.50	1.30		2	.1	8	77	
				7277	113.50	114.90	1.40		56	.2	28	51	
			33.01 - 33.9m - 0.5 to 1% disseminated pyrite.	7278	114.90	116.40	1.50		43	.5	457	51	
				7279	116.40	117.60	1.20		9	.3	20	86	
			34.80m - 1cm quartz vein; minor pyrite at 80° core angle.	7280	123.14	124.70	1.06		10	.1	37	59	
				7281	124.20	125.50	1.30		1	.2	45	71	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			34.40 - 35.30m - 0.5 to 1% disseminated pyrite; ore 1cm area of greyish	7282	125.50	125.80	0.30		56	3.7	2885	76	
			silica.	7283	125.80	126.90	1.10		5	.1	81	58	
			37.60 - 38.50m - cut by abundant epidote and lesser chlorite filled frac-	7284	131.25	132.30	1.05		11	.3	286	109	
			tures - patching 0.5 to 2% disseminated pyrite.	7285	133.70	134.70	1.00		1	.4	22	83	
				7286	139.30	140.40	1.10		51	.2	29	70	
			38.50 - 38.55m - quartz calcite filled structure at 40° core angle.	7287	145.27	145.47	0.20		24	.3	5	49	
				7288	159.15	159.90	0.75		16	.1	20	64	
			38.55 - 40.10m - brecciated and bleached zone; bleached to dark greenish	7289	159.90	160.65	0.75		14	.6	378	63	
			grey; small amounts of epidote; characterized by patchy greyish quartz and	7290	169.10	169.80	0.70		8	.1	61	131	
			patchy 1% to 6% disseminated pyrite; small amounts of chalcopyrite including	7291	169.80	171.00	1.20		14	.1	67	97	
			a 1cm wide concentration.	7292	172.70	173.00	0.30		215	.1	22	49	
				7293	173.90	174.30	0.40		785	1.7	78	74	0.023
			40.10 - 40.90m - 0.5% disseminated pyrite.	7294	187.70	189.00	1.30		26	.1	65	64	
				7295	189.00	190.00	1.00		220	.7	422	47	
			42.25 - 42.65m - 1% to 8% disseminated pyrite with minor chalcopyrite	7296	207.90	208.50	0.60		23	.1	106	99	
			includes 5cm section of 8% disseminated pyrite at 50° core angle.	7297	208.50	209.10	0.60		2	.1	36	58	
			42.65 - 43.50m - 1-2% disseminated pyrite, minor quartz veining.										
			43.50 - 44.00m - bleached grey; abundant, greyish silica; brecciated; 10%										
			disseminated pyrite.										
			44.05 - 45.00m - cut by quartz stockwork; most common orientation at 75°										
			core angle, small amounts of pyrite in veins, unit contains 2-3% dis-										
			seminated and fracture pyrite.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			Note: quartz pyrite fractures at 75° core angle and along core; set										
			along core is less prominent.										
			45.00 - 46.40m - same as above except 1-2% disseminated pyrite; some										
			chlorite along fractures.										
			46.40 - 48.80m - highly fractured, bleached to light grey; occasional										
			greyish quartz veins with pyrite but few in number; 0.5 to 1% disseminated										
			pyrite.										
			47.65 - 47.95m - quartz-filled structure at 35° core angle, vuggy quartz.										
			55.90 - 56.60m - brownish bleaching, trace pyrite.										
			56.60 - 57.00m - breccia zone, including quartz filled structures at 35° cor										
			angle.										
57.00	62.94		Diorite Porphyry										
			Fine grained textured feldspar, phenocrysts to 1mm; highly fractured; cut										
			cut by abundant thin quartz and calcite veinlets; variably altered;										
			occasional completely altered; variable colouration from intermixed dark										
			green, reddish brown and light brown; only trace pyrite but locally some 1cm										
			patches of 1% disseminated pyrite; patches are not abundant; minor pinkish										
			jasper patches.										
			62.64 - 62.94m - fault zone at 30° core angle, highly weathered, soft.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
62.94	87.00		Basalt										
			Black; very fine grained matrix; unit is cut by abundant fine epidote filled										
			fractures, some 1cm to 2cm patches of epidote. Only trace pyrite; unit is										
			magnetic.										
			62.94 - 63.74m - abundant pinkish brown bleaching.										
			75.00m - start to get occasional 10cm to 1m horizon of fine to medium										
			porphyry.										
			87.00m - 0.3cm quartz-chalco vein at 85° core angle.										
87.00	131.25		Andesite										
			Fine porphyry, dark green matrix; clasts less than 1mm; abundant thin										
			calcite veinlets at allangles but predominantly at 75-85° core angle; trace										
			pyrite; unit is magnetic; no epidote veinlets; small amounts of finely dis-										
			seminated epidote.										
			92.00m - 3cm quartz vein at 30° core angle.										
			91.00 - 93.00m - red hematite alteration along fractures and in irregular										
			patches.										
			100.20 - 100.50m - moderate epidote 0.5% disseminated pyrite.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			105.60m - quartz veinlets at 80-90° core angle. Start to get 10-20cm										
			patches of light brown bleaching. Start of zone of stockwork of quartz										
			veins; approximately 20 per metre, white quartz.										
			107.60m - 5cm quartz-pyrite vein at 30° core angle.										
			107.00 - 108.60m - associated patching, light grey bleaching.										
			111.87 - 117.90m - zone of pinkish alteration and greyish bleaching, very										
			irregular and patchy; mottled appearance; trace pyrite; hematite along										
			fractures and in small flecks; unclear whether pink is K-spar or hematite?										
			117.90 - 126.70m - zone of white bleaching; very intense. Some slightly										
			pinkish patches; common hematite fractures and small hematite flecks; no										
			pyrite; very minor quartz veining.										
			125.70m - 3cm quartz chalcopyrite vein at 50° core angle.										
131.25	159.90		**Diorite Porphyry**										
			Sharp contact at 50° core angle.										
			Variable colouration from dark green to light grey to brownish grey to										
			cream matrix; small white feldspar phenos to 2mm; occasional 5cm to 15cm										
			pinkish zones alongside fractures; a few zones of moderate quartz veining										
			with trace pyrite; overall no pyrite in unit except in quartz veins.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			131.25 - 132.30m - moderate quartz veining at 70-85° core angle.										
			133.70 - 134.70m - moderate quartz veining at 15-50° core angle; greyish bleaching alongside.										
			139.30 - 140.40m - moderate quartz veining at 50° to 85° core angle; predominantly at 85°; trace pyrite in quartz; whitish and greyish quartz.										
			143.90m - Fault Zone Upper contact at 40° core angle; rock is completely weathered, altered, soft, bleached to light grey; most of rock is highly brecciated.										
			145.27 - 145.47m - silaceous zone.										
			145.41m - diorite porphyry now has light grey matrix; slightly bleached and altered; trace pyrite.										
159.90	168.90		Andesite Completely bleached to light grey, moderately fractured; relatively soft, no pyrite.										
			165.35m - small fault.										
			167.25m - 10cm intrusive dikelet; bright pink fine grained matrix; dark green phenocrysts to 1cm sharp contact at 45° core angle.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			166.50m - bleaching diminishes, becomes much more patchy, 10cm to 1m;										
			horizons of andesite are unbleached andesite, fine grained tuff.										
168.90	171.00		Pink Intrusive Porphyry										
			Fine grained bright pink matrix with occasional dark grey sections, large										
			dark green phenos to 1cm; has appearance of granite porphyry, perhaps feld-										
			spar phenos have been altered to dark green mineral, no pyrite.										
			Sharp contacts at 45° core angle.										
171.00	208.50		Andesite										
			Same as previous andesite, patchy irregular greyish bleaching approximately										
			75% of rock is bleached, no pyrite.										
			Occasional 5cm to 10cm sections of greyish silica, some with 2-3% dis-										
			seminated pyrite.										
			172.80 - 172.90m - greyish silica in rock.										
			174.00 - 174.10m - irregular patches of grey silica with 5% disseminated										
			pyrite.										
			180.00m - bleaching almost non-existent after 180.0m; dark green fine										
			porphyry; no pyrite; red hematite common along fracture surfaces.										
			187.60 - 189.90m - core very broken up, abundant red hematite.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			189.90m - fault.										
			207.90 - 208.50m - high epidote, no pyrite.										
208.50	218.80		Diorite Porphyry										
			Dark grey matrix; large white feldspar phenocrysts to 1cm; occasional										
			pinkish tinge or rim to phenocrysts; small black amphibole phenocrysts to										
			2mm; not abundant; trace pyrite.										
			Rare epidote veinlets with 1cm zone of pink K-spar alongside.										
218.80	228.60		Basalt										
			Fine grained, dark green to black matrix; characterized by thin epidote										
			veinlet; no pyrite. End of hole.										
			Sperry Sun Tests:										
			Depth Azimuth Dip										
			60.96m 233° 51°30'										
			121.92m 232°30' 52°00'										
			182.88m 239° 52°45'										
			228.60m 243° 53°30'										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : DDH-33
COMMENCED: September 29, 1987
COMPLETED: October 3, 1987
OBJECTIVE:

LOCATION : West Drill Grid
LOC. : 9 + 20E/0 + 00
ELEV. :
CORE SIZE: BQ

CORRECT DIP: - 55°
TRUE BRG : 045°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 462.99m

LOGGED BY : D. Gorc
DATE : October 4, 1987
CORE STORED : Campsite
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
0.00	5.50		Casing.	7298	6.50	7.40	0.90		87	.5	233	212	
				7299	7.40	7.90	0.50		1	.1	11	38	
5.50	7.40		Andesite	7300	11.80	13.20	1.40	50%	147	4.4	3894	227	
			Very fine porphyry; dark green to black matrix; clasts less than 1mm; a	7301	13.20	14.60	1.40		76	7.9	6086	157	
			few thin quartz veinlets at 45° to 80° core angle; trace pyrite.	7302	16.50	16.90	0.40		980	2.1	94	66	0.027
				7303	16.90	17.80	0.90		230	.3	51	122	
7.40	11.80		Diorite Porphyry	7304	45.20	45.70	0.50		8	.1	101	35	
			Light grey to medium grey matrix; occasional brownish tinge; large white	7305	47.65	47.90	0.25		110	.3	30	39	
			feldspar phenocrysts to 1cm; trace pyrite.	7306	47.90	48.40	0.50		12	.1	92	56	
				7307	53.55	53.95	0.40		1	.1	105	93	
11.80	14.60		Fault Zone (bleached andesite)	7308	58.10	58.60	0.50		22	.2	31	77	
			Abundant orange limonite; core very broken up; iregular silica fracture	7309	58.60	59.20	0.60		16	.4	459	125	
			infilling; silica contains pyrite and some chalcopyrite; only 50% core	7310	59.20	59.60	0.40		1	.1	116	108	
			recovery.	7311	59.60	60.15	0.55		34	.7	123	105	
				7312	60.15	61.10	0.95		216	13.8	4740	148	
14.60	21.10		Andesite	7313	61.10	62.00	0.90		5260	5.8	1857	158	0.151
			Coarse porphyry; dark green matrix; abundant clasts 1cm to 3mm; trace	7314	62.00	62.40	0.40		140	.3	167	125	
			pyrite; units is not magnetic.	7315	69.70	70.40	0.70		36	.2	59	319	
				7316	70.40	71.00	0.60		90	.5	118	207	
			16.50 - 17.80m - 3 thin 1cm quartz-pyrite (1cm thick) veins running along	7317	102.80	103.30	0.50		22	.7	113	165	
			core; vuggy; white quartz; crosscutting quartz veins at 60° to core angle;	7318	103.70	104.30	0.60		1	.1	68	100	
			some chalcopyrite.	7319	123.80	124.20	0.40		93	.5	40	88	
				7320	124.20	124.60	0.40		360	.5	14	32	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
21.10	58.20		Diorite Porphyry	7321	124.60	125.00	0.40		470	.2	40	76	
			Perhaps diorite matrix is variable from medium brown; medium grey;	7322	127.60	129.00	1.40		25	.3	18	174	
			occasional sections are slightly bleached; occasional 1cm zones of brownish	7323	141.60	142.10	0.50		31	.1	13	152	
			bleaching along fractures; no pyrite; very minor quartz veining; veining	7324	145.70	146.10	0.40		6	.1	5	152	
			at 80° core angle.	7325	148.60	149.35	0.75		260	1.0	750	161	
				7326	149.35	149.85	0.50		15	.1	55	168	
			A crowded porphyry; abundant small white feldspar phenos less than 2mm;	7327	149.85	150.50	0.65		162	1.5	1362	179	
			lesser even smaller mafic phenocrysts.	7328	150.50	137.50	1.00		43	.2	186	95	
				7329	151.50	153.10	1.60		23	.4	158	132	
			21.10 - 29.80m - slight brownish bleaching.	7330	153.10	153.60	0.50		134	2.0	1461	222	
				7331	153.60	154.50	0.90		29	.4	153	196	
			29.30m - small fault.	7332	163.70	164.90	1.20		9	.1	15	71	
				7333	164.90	165.40	0.50		12	.1	15	109	
			34.00m - unit begins to have fresher, less altered appearance; approximately	7334	165.40	166.70	1.30		25	.2	30	210	
			15-20% dark mafic minerals.	7335	166.70	168.40	1.70		29	.7	502	164	
				7336	168.40	169.80	1.40		5	.3	76	182	
			35.70m - small fault.	7337	169.80	170.40	0.60		2	.4	82	200	
				7338	170.40	171.40	1.00		2	.3	220	158	
			35.50 - 36.50m - brownish bleaching, slight alteration; K-spar alteration??	7339	174.60	175.60	1.00		22	.4	180	125	
				7340	187.90	189.40	1.50		7	.1	39	149	
			45.20 - 45.70m - slight brownish bleaching 1-2 quartz veinlets with pyrite.	7341	189.40	190.70	1.30		6	.3	72	148	
				7342	192.55	193.00	0.45		10	.1	44	82	
			47.80 - 47.850m - greyish quartz with pyrite at 40% core angle.	7343	194.70	196.10	1.40		18	.2	79	100	
				7344	196.10	197.40	1.30		65	1.2	408	97	
			48.25m - 0.25 quartz vein at 40° core angle; minor pyrite; wcm of pink	7345	197.40	198.90	1.50		22	.5	439	99	
			K-spar alteration alongside.	7346	198.90	200.15	1.25		4	.1	20	147	
				7347	200.50	201.45	1.30		7	.1	87	121	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			53.55 - 53.65m - several thin quartz veinlets at 45-50° core angle.	7348	210.25	210.80	0.55		40	1.4	1133	81	
				7349	214.80	215.20	0.40		38	1.9	1381	142	
			56.00 - 58.20m - slight greyish bleaching.	7350	218.90	219.90	1.00		41	.7	237	170	
				7351	227.90	229.20	1.30		4	.1	18	124	
58.20	122.30		Andesite	7352	235.91	236.83	0.92		14	.6	77	80	
			Very fine porphyry; dusts to 1mm but generally less; fine sugary	7353	236.83	237.60	0.77		295	4.2	1339	113	
			appearance; dark green to black matrix; only trace pyrite; unit is mag-	7354	237.60	238.90	1.30		34	.9	226	49	
			netic; minor quartz veining; rare epidote.	7355	238.90	239.80	0.90		95	1.3	488	132	
				7356	240.40	241.90	1.50		21	.8	447	62	
			2cm quartz vein with minor pyrite at contact with above diorite porphyrys.	7357	241.90	242.40	0.50		22	.5	184	109	
				7358	242.40	244.30	2.40		65	.9	349	149	
			59.60 - 62.40m - *shear-breccia zone; shearing at 15° core angle; intermixed	7359	244.00	245.00	0.20		30	.3	23	88	
			strong shearing and brecciated zone; breccia cemented, by white and grey	7360	244.90	249.30	0.40		68	.5	226	149	
			quartz with small amounts of pyrite and chalcopyrite.	7361	249.30	250.70	1.40		32	.4	116	117	
				7362	250.70	252.10	1.40		6	.2	203	96	
			59.60 - 60.150m - 2% disseminated pyrite; 1cm quartz vein with pyrite at 15°	7363	252.10	253.60	1.50		13	.9	403	125	
			core angle; no greyish quartz silicification.	7364	253.60	254.40	0.80		22	.5	184	125	
				7365	256.40	257.00	0.60		32	.8	364	141	
			60.15 - 61.10m - 2-8% disseminated pyrite with minor chalcopyrite. Several	7366	257.00	257.80	0.80		46	.4	105	153	
			1-2cm patches of silica with pyrite and chalcopyrite; 10-15% of core is	7367	265.30	265.80	0.50		28	.4	183	113	
			greyish silica.	7368	268.00	269.00	1.00		131	.3	105	113	
				7369	281.50	281.90	0.40		14	.2	147	72	
			61.10 - 62.00m - 1-2% disseminated pyrite with 3-4 1cm quartz veins with	7370	286.40	287.20	0.80		63	.1	60	133	
			pyrite and chalcopyrite; 5% of core is greyish silica.	7371	287.20	288.50	1.30		4	.1	89	82	
				7372	289.90	290.50	0.60		3	.1	15	107	

From	To	Syb	Description	Smp. No.	From	To	Lgth.	Rec.	Analysis				
Meters					Meters				Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			62.00 - 62.40m - 1% disseminated pyrite; a few very thin quartz veins with	7373	290.50	290.90	0.40		22	.7	435	81	
			pyrite.	7374	293.00	294.30	1.30		25	.3	202	118	
				7375	297.00	297.80	0.80		22	.4	522	110	
			70.00m - 2cm quart vein at 40° core angle; minor pyrite.	7376	298.80	300.00	1.20		20	.4	479	91	
				7377	300.00	300.80	0.80		29	.2	37	106	
			70.70m - 0.25cm quartz vein with chalcopyrite at 20° core angle.	7378	300.80	301.40	0.60		24	.1	97	123	
				7379	301.40	302.20	0.80		31	.1	318	75	
			81.40m - vuggy quartz vein at 5° core angle.	7380	302.20	303.40	1.20		46	.1	127	111	
				7381	303.40	304.10	0.70		17	.1	18	47	
			84.40m - start to get 10-30cm zones of moderate disseminated and fracture	7382	304.10	305.60	1.50		43	.1	37	94	
			epidote; approximately 1 zone every 3 metres.	7383	305.60	307.30	1.70		10	.1	142	115	
				7384	307.30	308.80	1.50		19	.1	69	116	
			84.40m - start to get .50m to 1m horizon of black fine grained andesite	7385	308.80	309.10	0.30		45	.1	75	115	
			tuff; minor amounts.	7386	309.10	311.60	2.50		225	.3	101	125	
				7387	311.60	313.00	1.40		275	.3	151	65	
			84.30m - small fault; at 40° core angle.	7388	313.00	314.50	1.50		225	.2	53	111	
				7389	314.50	316.00	1.50		225	.1	32	135	
			83.80 - 84.80m - slightly fractured; minor bleaching.	7390	316.00	317.30	1.30		84	.1	119	79	
				7391	317.30	318.70	1.40		45	.1	77	49	
			101.30m - small fault; gouge 10-20cm of brown alteration alongside.	7392	318.70	320.00	1.30		33	.1	9	56	
				7393	320.00	321.50	1.50		49	.2	92	58	
			102.82 - 103.30m - thin 0.25m quartz vein along core; minor chalcopyrite.	7394	321.50	322.90	1.40		48	.1	18	69	
				7395	322.90	324.40	1.50		29	.1	13	63	
			103.70 - 104.30m - fault zone cemented by greyish quartz; no pyrite.	7396	324.40	325.20	1.20		57	.1	16	67	
				7397	325.20	326.80	1.60		56	.1	32	61	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
122.30	136.00		Andesite	7398	326.80	328.30	1.50		31	.1	12	50	
			Coarse porphyry; abundant clasts to 3mm; dark greenish grey matrix; unit is	7399	328.30	330.20	1.90		47	.1	8	61	
			magnetic; trace pyrite; occasional 1m horizons of fine porphyry with clasts	7400	330.20	331.30	1.10		39	.1	13	58	
			less than 1mm.	7401	331.30	333.00	1.70		22	.1	15	62	
				7402	333.00	334.40	1.40		65	.1	47	87	
			124.30 - 124.60m - quartz vein at 30° core angle.	7403	334.40	335.70	1.30		34	.1	67	55	
				7404	335.70	337.10	1.40		12	.1	18	58	
			127.60 - 129.00m - 0.5% disseminated pyrite.	7405	337.10	338.60	1.50		3	.1	19	51	
				7406	338.60	340.40	1.80		31	.6	120	130	
136.00	156.70		Andesite	7407	340.40	341.90	1.50		21	.4	114	113	
			Fine porphyry; clasts less than 1mm; very dark green matrix; minor spotty	7408	341.90	343.30	1.40		32	.4	86	107	
			epidote; disseminated and fractured epidote; trace pyrite; unit is magnetic.	7409	343.30	344.70	1.40		60	.1	104	79	
				7410	344.70	346.30	1.60		34	.2	43	92	
			141.60 - 142.10m - 0.5 disseminated pyrite; 8 thin quartz veinlets at 50° to	7411	346.30	346.80	0.50		156	1.0	591	84	
			80° core angle.	7412	346.80	347.40	0.60		126	1.5	1028	98	
				7413	347.40	348.40	1.00		38	.3	105	78	
			145.80 - 145.90m - abundant thin quartz veinlets at 75° core angle.	7414	348.40	349.60	1.20		48	.1	38	70	
				7415	349.60	350.00	0.40		98	1.2	1061	49	
			148.60 - 149.35m - 2.5% disseminated pyrite; slightly brecciated; minor	7416	350.00	351.00	1.00		44	.4	110	86	
			greyish quartz and quartz veinlets.	7417	351.00	352.00	1.00		56	.6	446	74	
				7418	352.00	352.70	0.70		118	1.1	861	60	
			149.35 - 149.85m - trace pyrite.	7419	352.70	353.40	0.70		106	.6	531	51	
				7420	353.40	354.00	0.60		320	.9	806	41	
			149.85 - 150.5m - 2-5% disseminated pyrite; trace chalcopyrite; moderate	7421	354.00	354.90	0.90		160	.9	783	43	
			epidote and chlorite, (pale true green).	7422	354.90	355.70	0.80		24	.1	80	50	
				7423	355.70	357.55	1.85		17	.1	19	47	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			150.50 - 153.10m - 0.25% to 0.5% disseminated pyrite; trace chalcopyrite;	7424	357.85	358.75	0.90		47	.1	16	46	
			moderate epidote and chlorite; core has occasional slight pinkish tinge.	7425	358.75	359.10	0.35		16	.1	19	58	
				7426	359.10	360.80	1.70		56	.1	39	43	
			153.60 - 154.50m - 0.5% to 10% pyrite.	7427	360.80	361.10	0.30		340	1.0	1132	32	
				7428	361.10	361.50	0.40		67	.4	39	35	
156.70	165.40		**Diorite Porphyry**	7429	361.50	361.80	0.30		103	.4	82	39	
			Very dark grey matrix; abundant large feldspar phenos to 1cm; rare epidote	7430	361.80	363.50	1.70		58	.1	40	49	
			and chlorite veinlets; no pyrite; rare pinkish K-spar alongside some	7431	363.50	364.50	1.00		38	.1	72	60	
			fractures.	7432	364.50	365.50	1.00		210	.6	172	41	
				7433	365.50	366.40	0.90		169	.4	122	47	
			165.40m - small fault?	7434	366.40	367.60	1.20		41	.1	42	54	
				7435	367.60	368.20	0.60		36	.1	24	50	
			163.70 - 164.90m - pinkish K-spar alteration; spotty 1% disseminated pyrite;	7436	368.20	369.30	1.10		45	.3	91	54	
			4 thin quartz veinlets.	7437	369.30	369.60	0.30		510	1.4	382	45	0.015
				7438	369.60	370.20	0.60		400	.9	306	40	
			164.90 - 165.40m - bleached to light grey.	7439	370.20	370.80	0.60		54	.2	96	50	
				7440	370.80	372.30	1.50		61	.1	79	52	
165.40	229.20		**Andesite**	7441	372.30	372.80	0.50		54	.1	80	48	
			Fine porphyry; similar to previous fine porphyry.	7442	372.80	373.90	1.10		8	.1	119	87	
				7443	373.90	375.10	1.20		14	.2	208	81	
			165.40 - 166.70m - 2-3% disseminated pyrite.	7444	375.10	376.10	1.00		41	.4	340	63	
				7445	376.10	376.50	0.40		12	.1	76	29	
			166.70 - 168.40m - 0.25-0.5% disseminated pyrite, some chalcopyrite at	7446	376.50	378.20	0.70		18	.1	78	59	
			167.6m.	7447	378.20	379.30	0.90		22	.1	35	38	
			168.40 - 169.80m - 0.5-1% disseminated pyrite; predominantly along thin	7448	379.30	380.00	0.70		21	.1	18	25	
			fractures.	7449	380.00	381.50	1.50		25	.1	31	34	
				7450	381.50	382.80	1.30		25	.1	90	33	

From	To	Syb	Description	Smp. No.	From	To	Lgth.	Rec.	Analysis				
Meters					Meters				Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			169.80m - start of moderate epidote alteration; variable concentrations	7451	382.80	383.40	0.60		35	.1	58	46	
			of epidote; most of core has some epidote; mottled light green and dark	7452	383.40	383.90	0.50		13	.1	15	48	
			green appearance; epidote is disseminated and occurs as irregular patches;	7453	383.90	384.80	0.90		125	.1	19	39	
			only trace pyrite; occasional 4cm zones of 1% pyrite along some fractures	7454	384.80	386.20	1.40		34	.1	24	35	
			but not abundant; minor patches of pinkish alteration; occasional rare	7455	386.20	387.60	1.40		21	.1	11	53	
			speck of chalcopyrite.	7456	387.60	389.20	1.60		31	.1	15	46	
			174.60 - 199.60m - 1% disseminated pyrite.	7457	389.20	390.20	1.00		57	.1	11	45	
				7458	390.20	391.30	1.10		26	.1	67	37	
			187.90 - 190.70m - 0.5-1% disseminated pyrite.	7459	391.30	392.30	1.00		92	.4	360	70	
				7460	392.30	393.20	0.90		65	.1	340	61	
			192.60m - 1cm quartz vein; trace pyrite at 25° core angle.	7461	393.20	394.60	1.40		69	.3	465	71	
				7462	394.60	395.30	0.80		31	.3	92	71	
			192.70m - 1cm quartz vein; trace pyrite at 25° core angle.	7632	395.33	396.78	1.45		50	.1	84	79	
				7633	396.78	398.20	1.42		88	.5	451	82	
			194.70 - 201.45m - 1% disseminated pyrite.	7634	398.20	399.40	1.20		69	.3	87	70	
				7635	399.40	399.60	0.20		115	.8	280	69	
			201.45m - start of trace(+) disseminated pyrite; occasional 0.25%; rarely	7636	399.60	401.10	1.50		57	.2	274	68	
			0.5% pyrite.	7637	401.10	402.50	1.40		49	.2	117	59	
				7638	402.50	404.00	1.50		45	.2	124	65	
			205.30 - 207.00m - black very fine grained andesite tuff.	7639	404.00	405.40	1.40		41	.2	58	69	
				7640	405.40	406.85	1.45		44	.1	88	73	
			210.30 - 210.70m - greyish quartz along core; irregular twisting vein; minor	7641	406.85	408.25	1.40		22	.3	158	69	
			pyrite.	7642	408.25	409.05	0.80		100	.3	160	74	
				7643	409.05	410.05	1.00		11	.1	199	80	
			214.90 - 215.10m - irregular greyish quartz with minor pyrite.	7644	410.05	411.10	1.05		44	.4	229	96	
				7645	411.10	411.80	0.70		63	.5	313	81	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			218.90 - 219.90m - 0.5-1% disseminated pyrite and fracture.	7646	411.80	412.85	1.05		39	.1	97	79	
				7647	412.85	413.61	0.76		18	.2	31	58	
			228.70 - 227.00m - dikelet of granite porphyry.	7648	413.61	415.01	1.40		132	.4	357	102	
				7649	415.01	415.56	0.55		76	1.0	384	43	
229.20	231.70		Granite Porphyry	7650	415.56	416.66	1.10		176	.8	438	91	
			Irregular patchy pinkish to dark greenish matrix; predominantly pink;	7651	416.66	418.11	1.45		81	.3	302	53	
			large white feldspar phenocrysts to 1cm; highly fractured, cut by minor	7652	418.11	419.50	1.39		59	.4	179	76	
			quartz veining; trace pyrite.	7653	419.50	420.45	0.95		93	.2	140	73	
				7654	420.45	421.69	1.24		146	.5	194	70	
231.70	245.00		Basalt	7655	421.69	422.76	1.07		131	.3	206	75	
			Black very fine grained; no clasts; unit is magnetic.	7656	422.76	423.85	1.09		98	.4	257	70	
				7657	425.80	427.08	1.28		1250	.1	109	73	0.044
			234.00 - 235.90m - 1cm to 20cm zone of pale brown bleaching along fractures	7658	427.08	427.82	0.74		149	.3	146	111	
				7659	427.82	429.15	1.33		106	.3	292	89	
			235.91 - 238.9m - Fault zone at 20° core angle, highly altered;	7660	429.15	430.35	1.20		59	.2	105	97	
			weathered; soft; pale green; abundant quartz veining (white); regular veins	7661	430.35	431.90	1.55		70	.2	30	80	
			at 20° core angle and irregular concentrations.	7662	431.90	432.80	0.90		128	.7	249	77	
				7663	438.20	438.65	0.45		99	.6	703	42	
			238.90 - 239.80m - greyish bleaching; includes 5cm of irregular pyrite quart	7664	438.65	441.04	2.39		42	.2	41	93	
			with trace chalcopyrite; 2% disseminated pyrite.	7665	441.04	441.49	0.45		66	.6	152	85	
				7666	441.49	443.16	1.67		74	.3	146	115	
			240.40 - 245.00m - 1% disseminated pyrite.	7667	443.16	444.67	1.51		67	.3	81	90	
				7668	444.67	446.23	1.56		105	.2	118	88	
245.00	248.90		Granite Porphyry	7669	446.23	447.45	1.22		124	.1	195	80	
			Pale reddish matrix; large white feldspar phenocrysts to 1cm; feldspar	7670	447.45	448.96	1.51		88	.6	613	77	
			phenos are occasionally slightly sericitized; trace pyrite; minor quartz	7671	448.96	449.90	0.94		67	.3	240	77	
			veining.	7672	449.90	450.33	0.43		720	2.8	2687	108	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
				7673	450.33	451.93	1.60		67	.4	217	112	
			Upper contact at 25° core angle, lower contact at 60° core angle.	7674	451.93	453.50	1.57		123	.5	337	97	
248.90	270.00		**Andesite**										
			Very fine porphyry; clasts 4mm; very dark green matrix; mottled with light green disseminated epidote and patches of epidote, most of core has some epidote; concentration varies; overall low epidote alteration; 1-2% disseminated pyrite; unit is not magnetic.										
			254.00m - less epidote; low epidote.										
			254.40m - end of 1-2% disseminated pyrite.										
			256.40 - 257.80m - 1-2% disseminated and fractured pyrite; slightly brecciated.										
			257.80 - 262.20m - 0.25% disseminated pyrite.										
			265.30 - 265.80m - 1% disseminated and fractured pyrite.										
270.00	303.40		**Andesite**										
			Medium to coarse porphyry; clasts 1m to 3m; low epidote.										
			265.80m - only trace pyrite after 265.80m except where note; occasional slight, fractured zones with 0.5% fractured pyrite.										
			268.00 - 269.00m - 1% fractured pyrite.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			281.60 - 281.70m - quartz vein at 45° core angle; trace pyrite; bleached										
			grey for wcm on either side of vein.										
			282.00m - start of very patchy pyrite, numerous sections of 1-2% dis-										
			seminated and fractured pyrite separated by zones of trace pyrite; overall										
			pyrite content is low 0.25%.										
			287.20 - 287.45m - quartz filled fault.										
			287.10 - 288.50m - highly fractured and bleached grey, cut by numerous white										
			quartz veins.										
			290.80m - 1cm quartz vein at 45° core angle with chalcopyrite.										
			289.90 - 290.90m - 1% disseminated and fractured pyrite.										
			293.00 - 294.30m - 1% disseminated and fractured pyrite.										
			298.80m - start of 2-4% disseminated and fractured pyrite.										
303.40	304.10		**Diorite**										
			Fractured, bleached; 10cm zones of pinkish K-spar alteration; several quartz										
			veinlets with pyrite.										
304.10	354.70		**Andesite**										
			Same as above; note occasional pinkish K-spar alteration along some frac-										
			tures, but not abundant;high chlorite, epidote with pink K-spar alteration.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			309.00m - start of 3-6% disseminated and fractured pyrite.										
			328.30m - start of 2-4% pyrite; disseminated and fractured pyrite.										
			346.50m - start to get 10-30cm sections with 10% or more pyrite; occasional 5cm of massive pyrite.										
			346.50 - 347.00m - 10% pyrite.										
			349.60 - 350.00m - 10% pyrite.										
			350.00m - start of 4-8% pyrite.										
			352.00m - start to get rare 3-5cm patches of white quartz with pyrite; some pyrite seams have pinkish K-spar alongside.										
354.70	359.10		Diorite Abundant small white feldspar phenocrysts; crowded; dark grey matrix; cut by thin epidote veinlets, K-spar alongside epidote veinlets; 2-4% disseminated and fractured pyrite.										
359.10	372.80		Andesite Fine to medium porphyry; clasts 1m to 4m; dark grey matrix; only small amounts of epidote, generally along thin veinlets; associated with K-spar; alteration and pyrite; pyrite 2-4%; disseminated and fractured but predominantly along fractures; local 10-20cm sections of 15-20% pyrite contains thin dikelets of diorite.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			360.80 - 361.10m - 20% pyrite.										
			361.50 - 361.80m - 20% pyrite.										
			369.50 - 369.60m - massive pyrite.										
			369.60 - 370.10m - 10% disseminated and fractured pyrite.										
			Sharp lower contact at 15° core angle.										
372.40	378.20		**Brecciated Diorite**										
			Mottled, medium grey to light grey matrix; highly fractured with abundant white quartz fracture infilling in all directions; less than 1% pyrite; perhaps diorite porphyry.										
			376.40m - fault - 20cm of gouge.										
378.20	390.20		**Altered Diorite**										
			Perhaps diorite porphyry or bright pinkish matrix; intense K-spar alteration, 1-3% disseminated pyrite; minor quartz veining.										
390.20	391.30		**Granite Porphyry**										
			Pink to pinkish brown matrix; large white feldspar phenos to 1cm; slight alteration to feldspar phenos; 0.25% disseminated pyrite.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
391.30	395.33		**Andesite Tuff**										
			Very fine grained black matrix; 3-6% disseminated pyrite.										
395.33	408.25		Dark green, fine grained mafic volcanic of andesitic composition with intro-										
			duced pink K-spar rich component. The unit is highly chloritic with epidote										
			blebs throughout. Minor white quartz veinlets. Disseminated pyrite 8-10%.										
			From 408.00 to 408.25m bleached.										
408.25	409.05		Light grey, bleached andesite cut by pyrite stringers at 50° to core axis										
			over 10cm length. White quartz veinlets at the same angle.										
409.05	411.80		Light grey, bleached, andesite, minor quartz veinlets and disseminated										
			pyrite, grading into green chloritic andesite with epidote concentration										
			along the quartz veinlets, trace disseminated pyrite.										
411.80	412.85		Light grey, bleached, massive, fine grained andesite cut by white quartz										
			veinlets. Disseminated pyrite 2-3%.										
412.85	413.61		Andesite breccia, angular fragments of bleached andesite cemented by white										
			quartz cement. Pyrite stringers throughout.										
413.61	415.01		Andesite, as above to 412.85m.										
415.01	415.56		Andesite breccia, as above to 413.61m.										
415.56	441.04		Andesite, dark green, massive, chloritized, epidote specks throughout. Dis-										
			seminated and stringer pyrite 5-8%, foliation locally at 60° to core axis.										
			Grey quartz veinlets 1-3mm throughout.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			From 427.08 to 427.82m grey quartz veinlets in bleached andesite.										
			From 430.35 to 431.90m grey quartz veinlets to 1cm across, disseminated pyrite 8-10%.										
			Higher concentration of epidote from 438.20 to 438.65m. The unit is not magnetic.										
441.04	441.49		Andesite as above, cut by white quartz-chalcopyrite veinlet 1cm across at 45° to core axis.										
441.49	443.16		Andesite, minor grey quartz veinlets, disseminated pyrite 3-5%.										
443.16	449.90		Andesite, dark and light green, abundant epidote alteration along the system of fractures at 45°-60° to core axis. Disseminated pyrite 2-3%.										
449.90	450.33		Andesite cut by grey quartz veinlets. Disseminated pyrite and minor stringer pyrite 8-10%.										
450.33	453.50		Andesite cut by quartz veinlets, disseminated pyrite 2-3%.										
453.50	462.38		Andesite, dark green, minor quartz veinlets and specks of epidote, minor disseminated pyrite. Quartz veinlets 1-2mm often along the core. The unit is not magnetic.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
462.38	462.99		Diorite, dark green, porphyritic, with inclusions of dark green, highly chloritic mafic volcanic.										
			Foot of Hole.										
			Sperry-Sun Test:										
			Depth: Dip: Azimuth:										
			60.96m -55°30' 039°										
			121.92m -56°30' 040°										
			182.88m -57°00' 043°										
			243.84m -57°30' 048°										
			304.80m -58°30' 049°										
			392.27 -59°00' 050°										
			459.94m -57°00' 044°										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : DDH-34
COMMENCED: October 4, 1987
COMPLETED: October 11, 1987
OBJECTIVE:

LOCATION : West Drill Grid
LOC. : 3 + 40E/1 +18S
ELEV. :
CORE SIZE: BQ

CORRECT DIP: - 70°
TRUE BRG : 045°
SURVEY AT :
% RECOVERY :
LENGTH : 456.29m

PAGE : 1 of 11
LOGGED BY : D.Gorc/R.Pesalj
DATE : October 11/87
CORE STORED : At the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
0.00	4.88		Overburden. Fragments of andesite, soil. BW casing.	7463	4.88	6.25	1.37	5%	11	.2	27	128	
				7464	6.25	7.62	1.37		40	.6	348	61	
4.88	58.00		Andesite. The core is very broken up to a depth of 60m; some sections have	7465	7.62	8.53	0.91	50%	39	.8	740	141	
			very poor core recovery.	7466	8.53	9.40	0.87		21	.5	178	151	
				7467	9.40	10.37	0.97		22	.3	27	161	
			Very fine grained matrix. Core is so broken up that the texture is dif-	7468	10.37	11.28	0.91		11	.4	22	145	
			ficult to decipher; dark green matrix mottled with light green epidote; low	7469	11.28	13.11	1.83	90%	8	.2	58	132	
			to moderate disseminated epidote; very fractural and brecciated; 4-8% dis-	7470	13.11	15.55	2.44	40%	23	.1	25	53	
			seminated pyrite; only very minor quartz veining. Unit is magnetic.	7471	15.55	18.29	2.74	25%	51	.5	32	101	
				7472	18.29	19.81	1.52		82	.7	244	116	
			6.25m - fault gouge.	7473	19.81	21.49	1.68		69	.4	160	105	
				7474	21.49	22.20	0.71		79	.6	453	112	
			13.11 - 18.29m - fault zone (30% core recovery).	7475	22.20	22.60	0.40		1185	4.2	1556	73	0.028
				7476	22.60	23.00	0.40		385	1.8	2015	43	
			21.65 - 21.75m - whitish quartz with 10% pyrite, minor K-spar.	7477	23.00	23.70	0.70		101	.5	299	130	
				7478	23.70	24.84	1.14		71	.7	160	100	
			22.20 - 23.00m - silicified zone at 5° core angle; whitish to greyish	7479	24.84	25.90	1.06		103	.3	289	103	
			silica with 15% pyrite; minor quartz veins with chalcopyrite.	7480	25.90	27.43	1.53		32	.3	27	102	
				7481	27.43	29.57	2.14	25%	45	.1	31	108	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			23.00m - start of zone with very minor epidote; rare patches of pinkish	7482	29.57	30.40	0.83		64	.2	124	80	
			alteration (K-spar).	7483	30.40	31.70	1.30		67	.3	110	83	
				7484	31.70	32.30	0.60		52	.2	36	87	
			25.00m - 0.5cm quartz vein with pyrite at 15° core angle.	7485	32.30	34.00	1.70	75%	62	.5	98	86	
				7486	34.00	35.05	1.05	75%	91	.3	223	107	
			27.43 - 29.57m - core very broken up.	7487	35.05	36.27	1.22		88	.5	304	108	
				7488	36.27	36.80	0.53		143	.5	497	101	
			29.57 - 30.40m - Fault zone - sheared appearance; much silica infilling;	7489	36.80	38.10	1.30		42	.1	88	49	
			trace pyrite.	7490	38.10	39.78	1.68		51	.4	54	109	
				7491	39.78	40.53	0.75		36	.2	31	90	
			31.00 - 35.00m - core is very broken up.	7492	40.53	41.15	0.62		38	.1	22	70	
				7493	41.15	42.67	1.52		59	.2	8	32	
			37.00 - 48.70m - core is very broken up.	7494	42.67	43.59	0.92		30	.1	9	28	
				7495	43.59	44.80	1.21		1	.1	17	75	
			37.00 - 48.70m - core is very broken up.	7496	44.80	46.33	3.47		59	.2	33	100	
				7497	53.95	55.20	1.25		14	.1	6	47	
			42.00 - 44.00m - local 10cm zones are silicified.	7498	55.20	57.00	1.80		46	.2	28	44	
				7499	57.00	58.00	1.00		2	.2	49	47	
			45.72 - 46.33m - Fault Zone	7500	58.00	58.80	0.80		43	.1	19	42	
				7501	58.80	60.10	1.30		37	.1	4	43	
			46.33m - start of lower pyrite contact; 1-3% pyrite.	7502	65.60	66.00	0.40		86	.5	146	41	
				7503	74.90	75.20	0.30		25	.2	82	38	
			51.50 - 60.50m - core is highly broken up; short sections are silicified.	7504	77.10	77.40	0.30		3	.2	8	43	
				7505	78.00	78.80	0.80		38	.1	55	40	
58.00	106.20		Diorite Porphyry - grey, porphyritic; grey matrix; large white feldspar	7506	83.50	84.30	0.80		88	.2	20	50	
			phenos to 1cm; rock is altered to light grey; alteration is not intense,	7507	87.30	88.30	1.00		33	.4	70	47	
			but rock is completely altered; 0.5% disseminated pyrite to 1% disseminated	7508	89.30	89.90	0.60		35	.3	24	43	
			pyrite; very minor quartz veining; some pyrite with quartz veining.	7509	89.90	90.20	0.30	70%	39	.1	27	38	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			65.70m - 2cm quartz vein at 20° core angle; minor pyrite.	7510	91.30	93.30	2.00		38	.2	12	39	
				7511	93.30	94.70	1.40	70%	225	.3	11	42	
			67.00m - start of only trace pyrite.	7512	100.70	102.10	1.40	70%	17	.1	10	30	
				7513	102.10	102.60	0.50	70%	31	.1	9	31	
			75.00m - 2 2cm quartz veins at 30° core angle; trace pyrite.	7514	102.60	103.30	0.70	70%	101	.1	8	33	
				7515	103.30	104.70	1.40	70%	46	.1	10	27	
			77.20 - 77.30m - several quartz veins at 30° to 50° core angle.	7516	104.70	105.80	1.10	70%	28	.1	7	30	
				7517	105.80	106.20	0.40	70%	160	.4	18	38	
			78.00 - 78.80m - 10 thin (0.25cm) quartz veins at 30° core angle; 1% dis-	7518	106.20	107.30	1.10	70%	54	.4	31	92	
			seminated pyrite.	7519	108.80	109.90	1.10		46	.1	11	38	
				7520	109.90	110.90	1.00		53	.2	13	78	
			83.70 - 84.30m - vuggy 0.25cm quartz veins along core; minor pyrite.	7521	110.90	111.90	1.00		47	.6	15	65	
				7522	111.90	113.30	1.40		162	.3	23	68	
			85.90 - 90.90m - 1-2 quartz veins per metre at 45° core angle; 1cm to 2cm	7523	113.30	114.40	1.10		29	.1	11	70	
			thick; minor pyrite.	7524	114.40	115.40	1.00		76	.3	22	82	
				7525	115.40	116.60	1.20		82	.2	12	85	
			90.00 - 90.20m - 0.25cm quartz chlorite vein along core.	7526	116.60	117.50	0.90		114	.5	183	77	
				7527	117.50	118.60	1.10		97	.3	14	69	
			91.30 - 92.30m - core very broken.	7528	118.60	120.10	1.50		320	.2	23	59	
				7529	120.10	120.60	0.50		240	.2	73	67	
			100.70 - 104.70m - bleached; altered; brecciated; cut by stockwork of brec-	7530	123.60	124.30	0.50		37	.1	22	115	
			ciated white to greyish quartz veins at all angles; 2% disseminated pyrite.	7531	124.30	125.70	1.40		52	.6	21	106	
				7532	125.70	127.10	1.40		790	.2	29	101	0.020
			104.70 - 106.20m - slightly brecciated and altered, local pinkish alteration	7533	127.10	128.60	1.50		49	.1	69	91	
			2% disseminated pyrite.	7534	128.60	130.00	0.40		65	.5	123	96	
				7535	130.00	131.50	1.50		75	.2	100	110	
				7556	131.50	132.80	1.30		56	.5	137	90	
				7537	132.80	134.20	1.40		28	.1	33	83	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
106.2	107.30		Andesite - Black; fine grained matrix; 3-5% pyrite; no epidote.	7538	134.20	135.85	1.65		61	.2	62	85	
				7539	135.85	137.15	0.30		1	.1	10	36	
107.30	109.90		Diorite Porphyry - Light grey matrix; large white feldspar phenos to 1cm;	7540	181.10	182.15	1.05		1335	3.8	7586	77	0.036
			slightly altered; edges of phenocrysts are fuzzy; 1-2% disseminated pyrite.	7541	182.15	182.45	0.30		550	3.4	6915	52	0.012
				7542	211.50	212.95	1.45		132	.2	73	41	
			108.80- 109.90m - patchy pink K-spar alteration.	7543	212.95	214.45	1.50		221	.5	211	48	
				7544	214.45	215.75	1.30		265	.5	749	57	
109.90	113.30		Andesite - Fine to medium porphyry clasts 1mm to 2mm; very minor; local	7545	215.75	216.85	1.10		70	.2	53	47	
			patches of epidote; occasional pinkish alteration along some fractures;	7546	216.85	217.45	0.60		205	.6	232	58	
			3-6% disseminated pyrite.	7547	217.45	218.40	0.95		350	.7	556	91	
				7548	218.40	219.30	0.90		105	.5	511	84	
113.30	115.40		Diorite Porphyry - Dark grey matrix; large feldspar phenocrysts to 0.5cm;	7549	219.30	220.50	1.20		58	.3	58	79	
			trace epidote; 2% disseminated pyrite; occasional 1cm K-spar alteration	7550	225.80	226.52	0.72		245	.6	417	95	
			zones along fractures.	7551	226.52	227.12	0.60		540	.8	957	93	0.011
				7552	227.12	227.69	0.57		205	.6	477	87	
115.40	135.85		Andesite - (with dikelets of Diorite Porphyry) Fine to medium porphyry;	7553	227.69	228.69	1.00		250	.2	300	100	
			clasts to 1mm; occasionally 2mm; low epidote; zone sections of moderate	7554	149.96	151.49	1.53		49	.3	84	43	
			epidote; 3-6% disseminated pyrite; occasional pinkish K-spar alteration	7555	151.49	153.01	1.52		70	.1	38	50	
			along some fractures; may include dikelets of diorite porphyry?? YES from	7556	153.01	154.53	1.52		41	.1	161	69	
			5cm to 30cm thick.	7557	154.53	156.06	1.53		58	.1	69	55	
				7558	156.06	157.58	1.52		74	.3	87	47	
			115.60 - 115.75m - 10-15% pyrite with moderate epidote.	7559	157.58	158.42	0.84		48	.1	263	65	
				7560	158.42	159.94	1.52		44	.1	24	71	
			117.00 - 117.30m - 10-15% pyrite with moderate epidote.	7561	159.94	160.94	1.00		97	.3	229	81	
				7562	160.94	162.99	2.05		114	.1	114	63	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			121.00 - 123.50m - predominantly grey diorite porphyry can be difficult to	7563	162.99	164.51	1.52		101	.1	16	52	
			decipher andesite from intrusive.	7564	164.51	166.12	1.61		139	.1	19	50	
				7565	166.12	167.64	1.52		189	.1	19	48	
135.85	149.96		**Granite Porphyry** - Pale pinkish brown to light grey matrix; most of rock is	7566	167.64	169.25	1.61		102	.1	32	54	
			slightly sericitized; locally greenish sericite appearance to rock large	7567	169.25	170.69	1.44		320	.4	2336	75	
			feldspar phenos to 1cm; most of feldspar phenos altered to sericite;	7568	175.00	176.00	1.00		48	.2	18	24	
			prominent quartz eyes to 0.5cm. No pyrite.	7569	176.00	176.53	0.53		106	.1	261	34	
				7570	176.53	177.43	0.90		33	.2	57	32	
149.96	158.42		Granitic intrusive, light grey, medium grained, equigranular, cut by	7571	182.45	183.97	1.52		210	1.0	902	44	
			numerous quartz veinlets, specks of pyrite throughout, disseminated pyrite	7572	183.97	185.40	1.43		142	.1	99	106	
			3-5%. Toward the bottom the unit gets coarser grained, locally porphyritic.	7573	185.40	186.92	1.52		125	.2	79	119	
				7574	186.92	187.91	0.99		93	.2	97	134	
158.42	170.69		Diorite porphyry, light grey, cut by numerous quartz veinlets, blebs and	7575	187.91	189.43	1.52		62	.3	18	123	
			disseminations of pyrite 3-5%, local sections of highly chloritic intrusive.	7576	189.43	191.03	1.60		42	.1	47	120	
			White plagioclase phenocrysts throughout.	7577	191.03	193.06	2.03		54	.4	76	101	
				7578	193.06	194.58	1.52		68	.5	219	106	
170.69	176.00		Light grey diorite porphyry, very minor pyrite, no quartz veining present.	7579	194.58	195.58	1.00		71	.2	25	117	
			Light brecciation with chlorite filled fractures common.	7580	195.58	197.10	1.52		134	.3	102	101	
				7581	197.10	197.80	0.70		1	.1	12	143	
176.00	176.53		Diorite porphyry, green, chloritic, brecciated, disseminated pyrite and	7582	197.80	198.73	0.93		41	.9	376	142	
			minor chalcopyrite 8-10%.	7583	203.30	204.00	0.70		74	.5	26	112	
				7584	204.00	204.40	0.40		55	.3	216	124	
176.53	177.43		Diorite porphyry as above to 176.53, pyrite less than 3%.	7585	204.40	205.30	0.90		129	.2	13	42	
				7586	222.20	223.11	0.91		290	.3	421	70	
177.43	180.10		Diorite porphyry, light grey and white, bleached section.	7587	223.11	224.30	1.19		440	.5	379	79	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
180.10	182.15		Diorite porphyry, green, chloritic, cut by quartz-pyrite-chalcopyrite vein-	7588	224.30	225.10	0.80		240	.2	81	67	
			lets. Pyrite content 8-10%, chalcopyrite trace.	7589	225.10	225.80	0.70		187	.5	148	56	
				7590	228.69	229.79	1.10		220	.1	161	93	
182.15	183.97		Diorite porphyry as above, rare pyrite, chloritic.	7591	229.79	230.35	0.56		300	.1	267	75	
				7592	230.35	231.50	1.15		380	.3	204	68	
187.91	191.66		Diorite porphyry, less chloritic than above, disseminated pyrite 5-8%.	7596	259.15	260.38	1.23		38	.5	173	61	
				7597	260.38	261.76	1.38		35	.44	69	73	
191.66	195.58		Andesitic volcanic, green, chloritic, disseminated pyrite 8%.	7598	268.22	269.46	1.24		345	.9	2047	76	
				7599	269.46	270.50	1.04		86	.1	175	56	
195.58	197.10		Andesitic volcanic, light grey, bleached, disseminated pyrite 8%.	7600	270.50	271.92	1.42		224	.1	668	83	
				7601	271.92	272.40	0.48		36	.5	368	96	
197.10	197.80		Andesitic, volcanic, light green, bleached, soft, cut by white quartz	7602	316.30	317.90	1.60		153	.1	356	78	
			veinlets.	7603	317.90	318.97	1.07		176	.1	321	65	
				7604	318.97	320.42	1.45		128	.1	271	75	
197.80	198.73		Andesitic, volcanic as above, cut by white quartz veinlets, well foliated	7605	337.94	339.30	1.36		181	18.0	244	73	
			at 25-30° to core axis.	7606	339.30	340.20	0.90		114	1.6	197	61	
				7607	340.20	340.76	0.56		51	.3	114	74	
198.73	204.40		Andesitic, volcanic, light green, bleached, minor quartz-chalcopyrite	7608	340.76	342.28	1.52		52	.4	70	62	
			veinlets from 204.00 to 204.40m.	7609	342.28	343.80	1.52		25	.1	9	37	
				7610	347.20	348.72	1.52		260	.1	162	43	
204.40	216.85		Diorite porphyry, light grey, bleached, no veining, trace pyrite. Local	7611	348.72	349.60	0.88		1630	.1	109	42	0.047
			shear zone, broken core.	7612	349.60	350.25	0.65		235	.1	47	63	
				7613	350.25	350.85	0.60		86	.1	64	31	
216.85	218.40		Diorite porphyry, light grey, bleached, cut by pyrite stringers with	7614	350.85	351.29	0.44		385	.2	379	45	
			minor quartz. Disseminated and stringer pyrite 15%.	7615	351.29	351.95	0.66		185	.2	136	49	
				7616	381.49	382.43	0.94		51	.4	209	85	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
218.40	220.50		Diorite porphyry as above, disseminated and stringer pyrite 1-3%.	7617	426.68	428.03	1.35		99	.4	711	77	
				7618	428.03	429.44	1.41		96	.3	599	82	
220.50	222.20		Andesitic, volcanic, grey and green, occasional white quartz veinlets,	7619	429.44	430.95	1.51		73	.5	565	77	
			trace pyrite.	7620	430.95	431.90	0.95		70	.5	780	89	
				7621	431.90	432.60	0.70		255.	1.5	865	68	
222.20	225.10		Granitic intrusive, pink and green, numerous inclusions of andesitic,	7622	432.60	433.07	0.47		47	.6	455	72	
			volcanic, disseminated and veinlet pyrite 5-8%, some white quartz veinlets.	7623	433.07	434.90	1.83		125	.7	454	67	
225.10	225.80		Pink granitic intrusive as above, trace pyrite.	7624	434.90	435.80	0.90		72	.4	605	84	
				7625	435.80	437.55	1.75		39	.4	353	69	
225.80	228.69		Granitic intrusive as above to 225.10m, disseminated pyrite 5-8%.	7626	437.55	439.07	1.52		41	.1	457	82	
				7627	439.07	440.74	1.67		51	.3	190	63	
228.69	231.50		Granitic intrusive as above to 225.10m, disseminated pyrite 1-2%.	7628	446.11	447.19	1.08		65	.9	720	72	
				7629	447.19	447.83	0.64		88	.9	694	84	
231.50	239.88		Granitic porphyry, pink matrix, white plagioclase phenocrysts, minor pyrite	7630	447.83	448.66	0.83		16	.4	117	47	
			and quartz veinlets. The unit is bleached locally.	7631	448.66	449.66	1.00		13	.3	124	74	
239.88	241.40		Andesite, bleached, disseminated pyrite 5%.										
241.40	245.30		Andesite, trace pyrite, white quartz veinlets throughout.										
245.30	248.90		Diorite porphyry, light grey, white quartz veinlets throughout. From 248.10										
			to 248.90m disseminated pyrite 2%, white quartz veinlets abundant.										
248.90	249.90		Fault, broken and finely crushed fragments of porphyry, grey, no fault										
			gouge.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
249.90	259.15		Granite porphyry, pink, occasional pyrite-chloritic veinlets. From 254.50 to 259.15m the unit is highly sheared, badly broken core.										
259.15	261.76		Granite porphyry, highly hematitic, numerous bands of brick red iron oxide rich material at 45-60° to core axis. The section is well foliated.										
261.76	270.50		Granite porphyry, pink, trace pyrite, occasional pyrite-chlorite veinlets. From 268.22 to 269.46m disseminated pyrite and stringer pyrite 15%.										
270.50	271.92		Granite porphyry, intensely brecciated, silicified, disseminated and stringer pyrite 12%. The rock is hard with contact with massive porphyry below at 45° to core axis.										
271.92	282.55		Andesite, medium grained, massive, occasional quartz veinlets along core, trace disseminated pyrite, foliations locally at 45° to core axis.										
282.55	316.30		Andesite, dark green, homogeneous, probably thick flow. The unit is massive, dark green, with high hematite content as veinlets and fracture filling. Occasional white quartz veinlets at irregular fashion, no visible sulphides. At 313.64m foliation at 40° to core axis, heavy hematite banding. Local sections of reddish hematitic diorite. At 325.47m pyrite beb 3cm across.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
316.30	337.94		Mafic volcanic of andesitic composition cut by thin quartz veinlets with epidote blebs throughout. The unit is slightly magnetic, highly chloritized. From 317.90 to 318.97m pyrite content 8%.										
337.94	340.76		Granite porphyry, pink, cut by quartz veinlets throughout. From 340.20 to 340.75m pyrite content 3-5%, highly chloritic.										
340.76	342.28		Breccia, grey, bleached granite porphyry fragments, angular, 1-5cm across, cemented by grey silica and pyrite content. Pyrite in cement is very fine grained, disseminated in silica and crushed porphyry. The lower contact of the unit is sharp at 20° to core axis.										
342.28	348.72		Granite porphyry, pink fine grained matrix with white plagioclase phenocrysts 1-5mm. Rare quartz veinlets, no pyrite.										
348.72	349.60		Granite porphyry as above, cut by grey quartz-pyrite veins up to 20cm wide and minor 1-5cm wide veinlets throughout. Disseminated and stringer pyrite 8-10%.										
349.60	350.25		Same as above to 349.60m. From 349.60 to 349.80m broken core, shear zone.										
350.35	350.85		Granite porphyry as above to 348.72m.										
350.85	351.29		Granite porphyry cut by grey quartz-pyrite veinlets. Disseminated and stringer pyrite 10%.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
351.29	368.65		Granite porphyry, pink, locally cut by quartz-sericite veinlets to 1cm across. Vuggs with idiomorphic quartz crystals with veins common. Core angles of the veins between 0° and 25°, local chlorite rich sections.										
368.65	381.49		Dark green, massive, medium grained dioritic intrusive, locally cut by white quartz veinlets. Epidote stringers common, trace pyrite.										
381.49	382.43		Andesite, dark green, fine grained, chloritic, cut by white and pink quartz veinlets. A speck of chalcopyrite in the middle of the unit in a 1cm wide veinlet.										
382.43	386.46		Andesite, dark grey, bleached, but by white quartz veinlets, no pyrite. Contact with porphyry below sharp at 40° to core axis.										
386.46	394.87		Granite porphyry, pink, minor white quartz veinlets, no pyrite visible.										
394.87	412.39		Dark green, highly chloritic, mafic diorite porphyry. The unit consists of mafic, fine grained groundmass and white phenocrysts of plagioclase.										
412.39	426.53		Pink granite porphyry with occasional sections of the unit above. Minor white quartz veinlets, no visible pyrite, rare epidote concentration over 5-15cm lengths.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
426.53	456.29		Diorite, dark green, highly chloritic, massive to porphyritic in texture, numerous white quartz veinlets at random orientation to core axis, local blebs of pyrite, disseminated pyrite 3-5%. The unit is coarse grained with local sections to 10cm long having porphyritic texture. Occasionally the unit is bleached, pink in colour in the areas cut by white quartz veinlets.										
			Foot of hole.										
			Sperry-Sun Tests:										
			Depth: Dip: Azimuth:										
			60.04m 70°00' 045°										
			121.00m 70°30' 047°										
			181.96m 71°00' 050°										
			242.92m 72°00' 052°										
			303.88m 73°00' 053°										
			364.84m 74°00' 056°										
			425.80m 74°30' 056°										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : DDH-35
COMMENCED: October 13, 1987
COMPLETED: October 19, 1987
OBJECTIVE:

LOCATION : West Drill Grid
LOC. : 11 + 20E/0 + 05N
ELEV. :
CORE SIZE: BQ

CORRECT DIP: - 55°
TRUE BRG : 045°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 455.98m

PAGE : 1 of 7
LOGGED BY : R.Pesalj
DATE : October 19/87
CORE STORED : At the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
0.00	9.91		Overburden. Angular fragments of andesitic volcanics, talus, soil. BW	7684	131.00	132.70	1.70		26	.3	278	194	
			casing.	7685	134.40	135.33	0.93		15	.5	127	173	
				7686	135.33	136.85	1.52		51	2.0	895	229	
9.91	18.44		Andesitic volcanic fragments, rusty coloured, oxidized, badly broken core,	7687	136.85	137.80	0.95		220	1.9	623	1603	
			shear zone. Core recovery only 20%. Trace disseminated pyrite, no quartz	7688	137.80	138.47	0.67		66	1.0	445	512	
			veining.	7689	138.47	139.40	0.93		57	.9	428	312	
				7690	139.40	140.35	0.95		67	2.1	1123	374	
18.44	42.80		Andesitic volcanic, green, fine grained, massive, badly broken core, shear	7691	140.35	141.58	1.20		29	.6	507	126	
			zone. Epidote occasionally along the fractures, trace pyrite, no quartz	7692	141.58	142.68	1.10		24	1.2	666	140	
			veining, minor epiodte along fractures.	7693	197.30	198.47	1.17		10	.1	274	137	
				7694	198.47	199.95	1.48		3	.1	98	138	
42.80	47.00		Diorite porphyry, grey groundmass, white plagioclase phenocrysts	7695	239.65	241.42	1.77		11	.3	98	137	
			throughout. Few large K-spar phenocrysts to 15mm across. Slight altera-	7696	270.26	270.60	0.34		3	.3	277	64	
			tion in form of bleaching at the lower contact. No pyrite visible.	7697	283.00	284.00	1.00		490	7.6	466	116	0.015
				7698	291.93	292.83	0.90		10	.5	198	148	
47.00	50.60		Andesite, dark green, chloritic, massive to porphyryritic, epidote along	7699	292.83	293.11	0.28		26	.6	37	71	
			fractures, no sulphides visible. The core is moderately broken.	7700	293.11	293.46	0.35		13	.3	86	77	
				7701	305.50	306.60	1.10		5	.2	51	114	
				7702	363.45	364.97	1.52		142	.7	122	91	
50.60	84.65		Andesite, dark green, chloritic, badly broken core, shear zone. Occasional	7703	374.08	374.48	0.40		9	.2	159	80	
			epidote coated fragments. The core is moderately magnetic.	7704	387.30	387.89	0.59		3	.2	225	54	
				7705	390.50	392.10	1.60		48	.5	327	71	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
84.65	88.70		Dark green, highly chloritic diorite porphyry or porphyritic diorite.	7706	394.55	396.15	1.60		16	.1	56	87	7
			Occasional epidote coated fractures, no sulphide visible.	7707	398.14	399.64	1.50		26	.7	209	35	6
				7708	403.75	404.05	0.30		2	.1	10	16	3
88.70	131.00		Dark green, porphyritic andesitic volcanic with light green pseudomorphs	7709	404.05	404.50	0.45		22	.6	43	20	7
			of plagioclase grains. The rock is slightly magnetic. Occasional epidote	7710	404.50	405.10	0.60		12	.3	46	22	8
			coated fractures, trace disseminated pyrite. Minor pink quartz-K-spar	7711	415.40	416.25	0.85		56	.4	112	73	8
			veinlets to 1cm across. No visible sulphides.	7712	437.90	438.25	0.35		1	.4	14	76	8
				7713	446.84	448.24	1.40		2	.2	43	76	5
131.00	132.70		Andesite, dark green to light grey, bleached, cut by thin quartz veinlets	7714	451.93	452.93	1.00		6	.5	153	79	6
			at 70° to 90° to core axis. No sulphides visible in this section.										
132.70	134.40		Andesite, slightly bleached, brecciated, no sulphides visible.										
134.40	140.35		Andesite, light grey, bleached, cut by white quartz veinlets at various										
			angles to core axis.										
140.35	142.68		Andesite, green, coarse grained, massive, cut by epidote and quartz vein-										
			lets, no pyrite visible.										
142.68	151.18		Andesite as above, very minor quartz veining.										
151.18	175.26		Andesite, dark green, highly broken core, shear zone. Epidote coated frac-										
			tures throughout, some iron oxide filled fractures, trace pyrite. The unit										
			is slightly magnetic. Highly fragmented core.										
175.26	177.00		Dioritic intrusive, dark green, coarse grained, massive.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
177.00	181.70		Andesitic volcanic, dark green, fine grained, cut by numerous epidote veinlets.										
181.70	186.60		Dioritic intrusive, dark green, coarse grained, massive. Contact with volcanics sharp at 60°. No chilled margin.										
186.60	200.65		Basalt, dark green, fine grained, massive, cut by hairline quartz veinlets. Local epidote concentrations in form of irregular patches or along fractures. The unit is magnetic.										
200.65	203.40		Dioritic intrusive, dark green, medium grained, massive, slightly hematitic. From 202.70 to 203.00m fault, broken diorite and fault gouge. At 203.00m foliation at 20° to core axis.										
203.40	239.65		Andesite, dark green, medium grained, massive, occasional epidote concentration along fractures, minor quartz veinlets, no pyrite.										
239.65	241.42		Andesite, grey and green, bleached, cut by numerous quartz veinlets, silicified, no pyrite visible.										
241.42	270.26		Andesite, dark green, mottled, chloritic, epidote specks throughout. Not magnetic; rare pyrite veinlets, trace disseminated pyrite.										
270.26	270.60		Andesite, light grey, silicified, bleached, cut by thin 1-3mm veinlets, no pyrite.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
270.60	283.00		Andesite, dark green, chloritic, medium grained, massive, rare quartz veinlets, abundant epidote, no pyrite. From 277.15 to 278.00m bleached, few quartz veinlets, sheared.										
283.00	284.00		Andesite, light grey, bleached, cut by white quartz veinlets at 25-30°.										
284.00	290.70		Andesite, light grey, bleached, soft, kaolinized.										
290.70	291.93		Diorite porphyry, grey, bleached, kaolinized, soft.										
291.93	292.83		Same as above to 291.93m.										
292.83	293.11		Same as above to 291.93m.										
293.11	294.40		Diorite porphyry, light grey, bleached, foliated at 35° to core axis.										
294.40	305.50		Andesite, light and dark green, massive, abundant epidote in irregular patches or along the core. Minor thin 1-3mm quartz veinlets.										
305.50	306.60		Andesite, as above, cut by white quartz veinlets, mainly along the core.										
306.60	314.24		Andesite, dark and light green, numerous narrow sections of pink K-spar rich intrusive, abundant epidote throughout.										
314.24	318.00		Andesite, grey and reddish, bleached, hematitic, massive, medium grained. Minor quartz veinlets throughout.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
318.00	325.58		Pink granitic intrusive, massive, medium grained, numerous dark green inclu-										
			sions of mafic volcanic throughout.										
325.58	333.00		Andesite as above to 314.24m.										
333.00	387.30		Andesite, mottled dark green with light green epidote spots throughout.										
			Occasional white quartz veinlets, no sulphides visible.										
			From 354.40 to 356.50m - disseminated pyrite 2%.										
			Rare quartz veinlets at 30-40° to core axis, hematite filled fractures.										
			From 363.45 to 364.97m - thin quartz veinlets throughout.										
387.30	387.89		Light grey, bleached, andesite cut by white quartz vein, no pyrite.										
387.89	389.90		Andesite, dark green, coarse grained, massive, occasional white quartz										
			veinlets, not magnetic.										
389.90	399.64		Andesite, light grey, bleached, massive, cut by white quartz veinlets. From										
			390.50 to 392.10m higher concentration of veinlets. From 394.55 to 396.15m										
			quartz veinlets throughout. From 398.14 to 399.64m heavy white quartz and										
			pyrite veining. Pyrite content 3%.										
399.64	403.75		Diorite porphyry, light grey, bleached, no quartz veining, minor pyrite										
			stringers.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
403.75	405.10		Diorite porphyry as above cut by white quartz veinlets to 5cm across, trace pyrite.										
405.10	405.50		Diorite porphyry as above, no quartz veining.										
405.50	415.40		Andesite, dark green, highly chloritic, massive, medium grained, epidote abundant, trace pyrite, not magnetic.										
415.40	416.25		White quartz vein cutting andesite at 0° to 60° to core axis. Minor disseminated pyrite in andesite.										
416.25	437.90		Andesite, dark green, chloritic, massive, medium grained, disseminated pyrite 3-5%, no quartz veining except 1-3mm veinlets at large intervals. Epidote specks abundant.										
437.90	438.25		White quartz veinlets cutting andesite at 30° to core axis. No pyrite present.										
438.25	446.84		Andesite, light green, epidote rich, disseminated pyrite 5-8%, no quartz veining, occasional pink K-spar rich sections, abundant epidote alteration.										
446.84	448.24		Light grey, bleached andesite, cut by white quartz veinlets at low angles to core axis.										
448.24	448.64		Andesite as above, no veining, no pyrite.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
448.64	451.93		Andesite, dark green, massive, disseminated pyrite 3-5%, rare white quartz veinlets.										
451.93	452.93		Andesite, as above to 448.24m.										
452.93	455.98		Andesite, grey, bleached, massive, no pyrite, rare white quartz veinlets.										
			Foot of Hole.										
			Sperry-Sun Tests:										
			Depth: Dip: Azimuth:										
			87.17m 55°00' 035°										
			178.61m 56°00' 035°										
			270.05m 58°00' 036°										
			361.49m 59°00' 039°										
			452.93m 59°00' 040°										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : DDH-36
COMMENCED: October 19, 1987
COMPLETED: October 25, 1987
OBJECTIVE:

LOCATION : West Drill Grid
LOC. : 11 + 20E/0 + 05N
ELEV. :
CORE SIZE: BQ

CORRECT DIP: - 50°
TRUE BRG : 225°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 480.67m

PAGE : 1 of 8
LOGGED BY : R.Pesalj
DATE : October 25/87
CORE STORED : At the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
0.00	18.90		Overburden. Fragments of mafic volcanics, soil, talus. BW casing.	7715	54.30	55.30	1.00		34	.1	24	151	
				7716	55.30	56.39	1.09		7	.1	58	124	
18.90	32.41		Mafic volcanic of basaltic composition. The rock is fine grained, massive,	7717	56.39	57.69	1.30		8	.1	33	139	
			chloritic, cut by few white quartz veinlets. Epidote in form of specks	7718	65.50	66.35	0.85		5	.3	239	66	
			and fracture filling throughout. Disseminated pyrite less than 1%. The	7719	75.20	76.20	1.00		76	.4	107	90	
			unit is magnetic.	7720	139.70	140.65	0.95		3	.1	60	109	
				7721	140.65	141.53	0.88		4	.1	12	158	
32.41	42.33		Granite porphyry, pink and dark green, plagioclase phenocrysts throughout.	7722	143.38	144.78	1.40		175	.3	106	162	
			The upper contact sharp at 30°. Minor white quartz veinlets, no sulphides	7723	144.78	145.78	1.00		57	.2	96	91	
			visible. From 42.00 to 42.33m soft, bleached, fault contact.	7724	158.98	159.48	0.50		58	.5	73	494	
				7725	167.66	169.01	1.35		6	.2	61	239	
42.33	65.50		Andesite, dark green, medium grained, massive, chloritic, minor epidote	7726	181.82	183.49	1.67		11	.2	56	275	
			filled fractures, not magnetic.	7727	183.49	184.49	1.00		1	.1	17	204	
				7728	184.49	185.69	1.20		112	.3	73	153	
65.50	66.35		Andesite, grey, cut by thin quartz veinlets, minor epidote, no pyrite.	7729	185.69	187.25	1.56		26	.5	135	93	
				7730	194.70	195.98	1.28		4	.1	6	116	
66.35	75.20		Andesite, grey-green, fine grained, massive, epidote fractures and specks	7731	196.90	198.30	1.40		2	.1	10	86	
			throughout, no pyrite.	7732	265.89	266.29	0.40		104	1.2	1065	123	
				7733	274.47	276.55	2.08		2	.2	149	90	
75.20	76.20		Andesite, grey, bleached, cut by thin quartz veinlets, no pyrite.	7734	276.55	277.45	0.90		3	.2	95	120	
				7735	292.85	294.25	1.40						
76.20	85.95		Andesite, as above to 75.20m.	7736	301.50	302.76	1.26						
				7737	302.76	303.88	1.12						

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
85.95	139.70		Sheared andesite, dark green with light green epidote coated fractures	7738	303.88	305.40	1.52		3	.1	100	111	
			throughout, badly broken, blocky core.	7739	305.40	306.88	1.48		6	.1	170	74	
				7740	306.88	307.93	1.05		2	.1	78	65	
139.70	141.53		Andesite, light grey, bleached, cut by white quartz veins 5-10cm wide,	7741	326.23	327.75	1.52		3	.2	85	90	
			veinlets throughout.	7742	327.75	329.27	1.52		1	.3	67	101	
				7743	329.27	330.79	1.52		5	.1	33	122	
141.53	143.38		Andesite, grey, fine grained, massive, rare quartz veinlets.	7744	350.46	350.66	0.20		42	1.5	21	84	
				7745	350.66	351.26	0.60		3	.1	38	75	
143.38	145.78		Andesite, grey, bleached, white quartz veinlets throughout, no pyrite	7746	360.80	361.80	1.00		6	.1	90	82	
			visible.	7747	361.80	362.70	0.90		11	.1	231	93	
				7748	362.70	363.42	0.72		12	.2	23	151	
145.78	150.18		Andesite, grey, slightly bleached, rare quartz veinlets.	7749	363.42	364.85	1.43		17	.1	46	116	
				7750	364.85	366.06	1.21		79	.4	55	39	
150.18	167.66		Andesite, dark green, fine grained, massive, chloritic, rare quartz and	7751	366.06	368.30	2.24		2	.2	45	31	
			epidote veinlets. From 154.53m shear zone, badly broken, blocky core. From	7752	368.30	370.00	0.70		35	.2	67	37	
			158.98 to 159.48m disseminated pyrite in quartz veinlets cutting andesite.	7753	370.00	371.00	1.00		18	.3	36	40	
			Pyrite content 8-10%.	7754	371.00	371.90	0.90		375	.8	105	58	
				7755	371.90	373.05	1.15		11	.2	14	43	
167.66	169.01		Andesite, grey-green, cut by white quartz veinlets, vuggy, from 167.66 to	7756	389.62	390.74	1.12		16	.2	76	41	
			167.80m quartz in vug, minor disseminated pyrite.	7757	390.74	392.27	1.53		2	.1	45	44	
				7758	392.27	393.50	1.23		82	.2	62	48	
169.01	181.82		Andesite, grey-green, massive, fine grained, cut by minor quartz veinlets,	7759	396.77	397.77	1.00		216	.5	144	47	
			badly broken core from 169.01 to 176.00m.	7760	397.77	398.97	1.20		186	.4	266	54	
				7761	419.10	420.35	1.25		179	.2	31	42	
181.82	187.25		Andesite as above, cut by white quartz veinlets 1-3mm wide, broken core.	7762	422.35	424.00	1.65		16	.1	31	39	

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
187.25	194.70		Andesite, dark green, massive, fine grained, epidote veinlets throughout,	7763	433.42	435.15	1.73		13	.3	23	74	
			minor quartz veinlets.	7764	435.15	435.55	0.40		13	.7	50	49	
				7765	435.55	436.47	0.92		2	.2	18	66	
194.70	195.98		Andesite, green-grey, cut by thin quartz veinlets, no pyrite visible.	7766	436.47	438.20	1.73		1	.2	20	59	
				7767	438.20	439.42	1.22		1	.1	17	31	
195.98	196.90		Andesite, rare quartz veinlets, no visible pyrite.	7768	439.42	440.32	0.90		2	.1	8	43	
				7769	446.60	447.45	0.85		14	.5	53	68	
196.90	198.30		Andesite, grey, bleached, cut by white quartz veinlets, no pyrite visible.	7770	459.65	461.35	1.70		87	.3	113	84	
				7771	464.20	465.00	0.80		228	.2	163	134	
198.30	221.40		Andesite, green, epidote and rare white quartz veinlets, no visible pyrite.	7772	465.00	466.40	1.40		77	.5	583	78	
			At 210.40m white quartz vein 4cm wide, no sulphides visible.	7773	466.40	467.92	1.52		34	.4	231	89	
				7774	470.50	471.10	0.60		126	.7	569	72	
221.40	225.40		Diorite porphyry, dark green, chloritic, white plagioclase phenocrysts set	7775	473.30	474.80	1.50		206	.3	182	96	
			in fine grained, chloritic matrix.	7776	476.10	477.10	1.00		245	.2	152	116	
				7777	477.10	478.20	1.10		450	.9	436	134	
225.40	234.50		Granite porphyry, pink, white plagioclase phenocrysts set in K-spar rich	7778	479.30	479.70	0.40		420	.3	18	204	
			matrix. Minor white quartz veinlets, no visible pyrite.										
234.50	265.89		Andesite, grey-green, chloritic, fine grained, massive, cut by occasional										
			quartz veinlets, no pyrite visible. The unit is not magnetic. Epidote in										
			form of veinlets and narrow bands throughout.										
265.89	266.29		Andesite, cut by white quartz veinlets, no pyrite visible.										
266.29	274.47		Andesite, dark green, chloritic, cut by white quartz veinlets.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
274.47	292.85		Andesite, dark green, chloritic, cut by few quartz veinlets, no visible pyrite in core. The unit is slightly magnetic.										
292.85	294.25		Andesite as above, cut by quartz veinlets running mostly along the core. The unit is slightly magnetic.										
294.25	301.50		Andesite, dark green, chloritic, rare quartz veinlets, trace pyrite, slightly magnetic.										
301.50	306.93		Andesite, light grey, bleached, cut by a network of thin quartz veinlets, no visible pyrite.										
306.93	326.23		Andesite, green-grey, slightly bleached, fine grained, massive, not magnetic. Numerous epidote and rare quartz veinlets throughout.										
326.23	330.79		Andesite as above to 326.23m but with higher epidote content.										
330.79	350.46		Andesite, dark green, chloritic, cut by hairline epidote veinlets, no pyrite visible.										
350.46	350.66		Andesite, dark green, chloritic, cut by 1cm wide quartz-pyrite veinlet at 25° to core axis.										
350.66	351.26		Andesite, light green, epidote veinlets throughout.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
351.26	360.80		Andesite, dark green, chloritice, fine grained, occasional epidote veinlets, rare quartz veinlets, trace pyrite, slightly magnetic.										
360.80	373.05		Andesite, light grey, bleached, silicified, cut by a stockwwork of white quartz veinlets throughout. From 360.80 to 366.06m and 370.00 to 373.05m quartz veinlets more common. Pyrite not frequent.										
373.05	389.62		Basalt, dark green, very fine grained, massive, highly chloritic, occasional white quartz veinlets, slightly or non-magnetic unit.										
389.62	393.50		Basalt, light grey, bleached, silicified, cut by a stockwork of thin quartz veinlets, trace pyrite.										
393.50	396.77		Basalt, green, chloritic, massive, fine grained, rare quartz veinlets.										
396.77	398.87		Basalt, light grey, bleached, fine grained cut by white quartz and minor pyrite veinlets. Pyrite content 1-2%.										
398.87	419.10		Basalt, dark green, chloritic, rare pyrite veinlets, trace pyrite, occasional sections of K-spar rich pink material.										
419.10	420.35		Basalt, light grey, bleached, cut by white quartz veinlets, no visible pyrite.										
420.35	422.35		Basalt, dark green, chloritic, fine grained.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
422.35	424.00		Basalt, light grey, bleached, cut by white quartz veinlets, trace pyrite.										
			Foliation locally at 55° to core axis.										
424.00	427.00		Basalt, dark green, fine grained, massive, chloritic, slightly magnetic,										
			epidote specks throughout.										
427.00	428.30		Andesite, light grey and maroon, hematatic, trace pyrite.										
428.30	435.15		Basalt, dark green, chloritic, light green epidote veinlets and specks										
			throughout, rare quartz veinlets, pyrite trace. From 433.42 to 435.15m										
			pink K-spar bands.										
435.15	435.55		Pink and white quartz vein cutting basalt at 50° to core axis. Minor pyrite										
			at lower contact.										
435.55	440.32		Basalt, dark green, fractured, minor quartz veining, fractures mostly										
			chlorite filled. Trace pyrite, minor epidote.										
440.32	446.60		Basalt, dark green, epidote rich, trace pyrite and quartz.										
446.60	447.45		Basalt as above to 446.60m. Minor quartz veining and pyrite, abundant										
			epidote.										
447.45	451.40		Basalt as above to 446.60m.										

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
451.40	457.90		Light grey and green granite porphyry, very fine grained, K-spar rich groundmass with light green epidote after plagioclase phenocrysts.										
457.90	459.65		Basalt, dark green, chloritic, epidote veinlets, no quartz.										
459.65	461.35		Andesite, light green-grey, cut by light green epidote veinlets. Minor pyrite stringers, no quartz.										
461.35	480.67		Andesite, dark green, chloritic epidote throughout, pyrite concentration locally.										
			From 464.20 to 465.00m - disseminated pyrite 8%.										
			From 470.50 to 471.10m - disseminated pyrite 10%.										
			From 473.30 to 474.80m - disseminated pyrite 15%.										
			The unit is weakly magnetic.										
			From 474.80 to 476.10m - hematite vein along core.										
			From 476.10 to 478.20m - pyrite 5%, epidote abundant.										

From	To	Syb	Description	Smp. No.	From	To	Lgth.	Rec.	Analysis				
Meters					Meters				Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
			From 179.30 to 479.70m - pyrite and quartz veinlets throughout. Pyrite										
			content 8-10%. Foot of hole.										
			Sperry-Sun Tests:										
			Depth: Dip: Azimuth:										
			90.53m 50°30' 226°										
			181.96m 52°00' 223°										
			273.40m 54°00' 237°										
			364.84m 55°00' 237°										
			456.29m 49°00'* 247°*										
			*Readings not reliable due to presence of magnetic rocks in the hole.										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow
HOLE NO. : DDH-37
COMMENCED: October 26, 1987
COMPLETED: October 28, 1987
OBJECTIVE:

LOCATION : West Drill Grid
LOC. : 3 +42E/0 + 59S
ELEV. :
CORE SIZE: BQ

CORRECT DIP: - 45°
TRUE BRG : 045°
SURVEY AT :
% RECOVERY : 100%
LENGTH : 168.25m

LOGGED BY : R.Pesalj
DATE : October 26/87
CORE STORED : At the camp
UNUSUAL FEAT.:

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
0.00	10.67		Overburden, angular fragments of mafic volcanics and porphyry. BW casing.	7782	21.70	23.20	1.50		644	.2	49	80	
				7783	23.20	24.30	1.10		26	.5	72	65	
10.67	23.20		Granite porphyry, pink and green, chloritic, disseminated pyrite less than	7784	24.30	25.82	1.52		54	.3	31	92	
			1%, rare white quartz veinlets, minor specks of epidote.	7785	29.00	30.52	1.52		186	.4	63	66	
				7786	30.52	31.42	0.90		146	.2	26	55	
23.20	24.30		Granite porphyry as above to 22.30m cut by white-grey quartz veinlet running	7787	31.42	32.65	1.23		72	.3	94	114	
			along core. Disseminated pyrite 2-3%.	7788	36.73	38.35	1.62		122	.2	17	100	
				7789	38.35	38.60	0.25		23	.3	31	34	
24.30	29.00		Granite porphyry, dark green and pink, rare quartz veinlets, trace pyrite.	7790	38.60	40.60	2.00		76	.2	77	116	
				7791	44.10	45.60	1.50		68	.3	19	109	
29.00	30.52		Granite porphyry cut by grey quartz vein, sheared, badly broken core, trace	7792	45.60	46.60	1.00		82	.1	62	159	
			pyrite.	7793	46.60	47.55	0.95		121	1.0	819	112	
				7794	47.55	49.00	1.45		84	.3	72	137	
30.52	38.35		Granite porphyry, pink and light green, abundant epidote specks throughout,	7795	49.00	49.70	0.70		97	.2	46	109	
			trace pyrite.	7796	53.95	54.86	0.91		650	.6	25	101	0.019
				7797	59.75	60.96	1.21		66	.2	10	66	
38.35	38.60		White quartz vein, brecciated, trace pyrite.	7798	60.96	62.48	1.52		176	.4	41	93	
				7799	62.48	64.16	1.68		99	.3	61	66	
				7800	64.16	64.96	0.80		95	.2	69	66	
38.60	44.80		Andesitic volcanic, dark green, massive. From 44.10 to 44.80m pyrite	7801	64.96	65.83	0.87		43	.2	16	60	
			content 5-8%.	7802	79.00	80.50	1.50		220	.2	201	65	
				7803	80.50	81.32	0.82		1360	.4	243	99	0.036

TAKLA-RAINBOW PROPERTY
DDH-37

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
44.80	49.70		Andesite, dark green, chloritic, fine grained, massive. Disseminated	7804	81.32	81.82	0.50		280	.4	250	87	
			pyrite 5-8%. From 46.60 to 47.55m quartz veinlets abundant, speck of	7805	81.82	82.82	1.00		650	.8	804	54	0.020
			chalcopyrite 1cm across at 44.80m.	7806	82.82	84.12	1.40		730	.6	416	82	0.019
				7807	86.50	87.95	1.45		116	.4	86	64	
49.70	53.95		Andesitic volcanic, grey and green, chloritic, trace pyrite and quartz.	7808	87.95	88.80	0.85		560	.7	33	103	0.018
				7809	88.80	89.20	0.40		45	.2	16	66	
53.95	54.86		Andesitic volcanic as above, disseminated pyrite 5-8%.	7810	89.20	89.85	0.65		99	.3	76	87	
				7811	89.85	90.25	0.40		121	.2	106	86	
54.86	60.96		Andesitic volcanic, grey and pink, chloritic, rare white quartz veinlets,	7812	90.25	91.05	0.80		2440	2.5	494	61	0.073
			trace pyrite.	7813	91.05	92.55	1.50		380	.8	243	49	
				7814	92.55	93.90	1.35		2950	3.4	1573	101	0.082
60.96	62.48		Andesitic volcanic, grey and pink, chloritic, cut by grey quartz-pyrite	7815	93.90	94.40	0.70		550	.8	603	119	0.014
			veinlets at 0° to 30° to core axis. Disseminated pyrite in veinlets and	7816	94.40	96.00	1.60		360	.4	221	45	
			volcanic 8%.	7817	96.00	97.82	1.82		102	.1	128	43	
				7818	97.82	99.00	1.18		1650	2.3	605	52	0.061
62.48	75.00		Andesitic volcanic, grey and pink, trace disseminated pyrite, no quartz	7819	99.00	99.46	0.46		440	.4	54	71	
			veining. From 73.45m badly broken core, shear zone.	7820	99.46	100.26	0.80		360	.6	85	76	
				7821	100.26	100.76	0.50		200	.6	85	76	
75.00	80.50		Granitic porphyry, pink and green, chloritic, disseminated pyrite 1-3%, no	7822	100.76	101.50	0.75		610	.8	312	57	0.017
			quartz veining.	7823	103.90	104.65	0.75		560	.8	909	68	
				7824	102.50	103.75	1.25		330	.5	653	74	
80.50	81.32		Granitic porphyry as above, cut by grey quartz veinlets, disseminated	7825	110.70	112.10	1.40		210	.5	511	51	
			pyrite 3-5%.	7826	112.10	103.30	1.20		510	.7	496	74	
				7827	103.30	114.60	1.30		410	.5	288	97	
81.32	81.82		Granitic porphyry as above to 80.50m.	7828	138.00	138.50	0.50		83	.5	253	89	
				7829	140.00	140.55	0.55		21	.2	54	70	

TAKLA-RAINBOW PROPERTY
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From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
81.82	82.82		Granitic porphyry, quartz veinlets, epidote, disseminated pyrite 5%.	7830	150.62	152.02	1.40		120	.2	124	58	
82.82	87.95		Granitic porphyry as above to 80.50m.										
87.95	89.20		Andesitic volcanic, green, chloritic, cut by grey quartz veinlets, disseminated pyrite 5-8%.										
89.20	91.05		Andesite, grey and green, cut by grey quartz veinlets with disseminated pyrite throughout. Pyrite content 10%.										
91.05	92.55		Andesite, light grey, bleached, disseminated pyrite 3-5%, no quartz veining.										
92.55	93.90		Andesite as above to 92.55m with abundant grey quartz-pyrite veinlets. Pyrite 10-12%.										
93.90	94.40		Andesite, green, chloritic, minor quartz veining, disseminated pyrite less than 5-6%.										
94.40	99.46		Granite porphyry, light grey and pink, bleached, cut by white quartz veinlets, pyrite 5-6%.										
99.46	101.51		Granite porphyry, pink and green, cut by white and grey quartz veinlets. Disseminated and veinlet pyrite 8-10%.										

TAKLA-RAINBOW PROPERTY
DDH-37

From Meters	To Meters	Syb	Description	Smp. No.	From Meters	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Au oz/tn
101.51	117.40		Granite porphyry, pink, disseminated pyrite 1-3%, minor quartz veining.										
			Epidote abundant. From 102.50 to 103.75m grey quartz veinlets throughout.										
117.40	168.25		Diorite, dark green, chloritic, massive, trace disseminated pyrite and										
			quartz veining. Local bleached, soft sections. Silicified, bleached										
			sections with quartz veining but no pyrite:										
			From 130.00 to 130.50m.										
			From 140.00 to 140.55m.										
			From 150.62 to 152.02m.										
			In the upper part of the unit numerous volcanic inclusions or sections of										
			fine grained dioritic intrusive. Downward, the unit becomes coarser										
			grained, massive diorite.										
			Foot of hole										
			Sperry-Sun Tests:										
			Depth: Dip: Azimuth:										
			76.81m 44°30' 045°										
			153.01m 46°00' 052°										