

GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL

AND DIAMOND DRILLING REPORT

TAKLA-RAINBOW PROPERTY

FILMED

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  
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

16,759

Part 1 of 2

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 occurrences 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 occurrences, 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 porphyry stocks and dykes near the contact between Hogen 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.

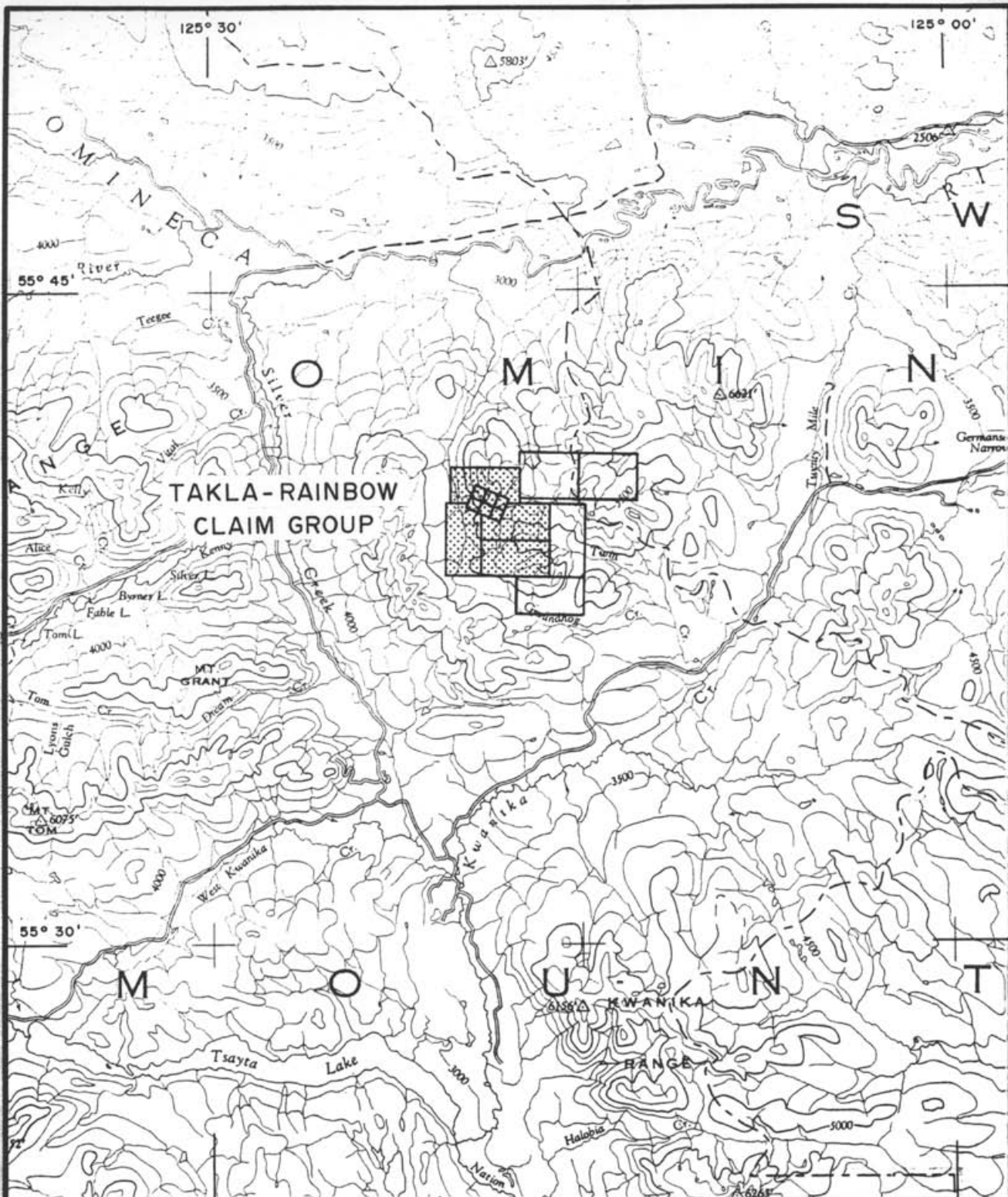
The central part of the property is dominated by a broad Twin Creek valley that rises into mountains to the north and south. Elevations on the property range from 1,450 m at the south to 1,800 m at the north end. Semi-open coniferous forest at the lower reaches and alpine conditions at higher elevations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

### 3.0 THE PROPERTY

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

<u>Claim</u>	<u>Record No.</u>	<u># of Units</u>	<u>Owner of Record</u>	<u>Recorded</u>
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.



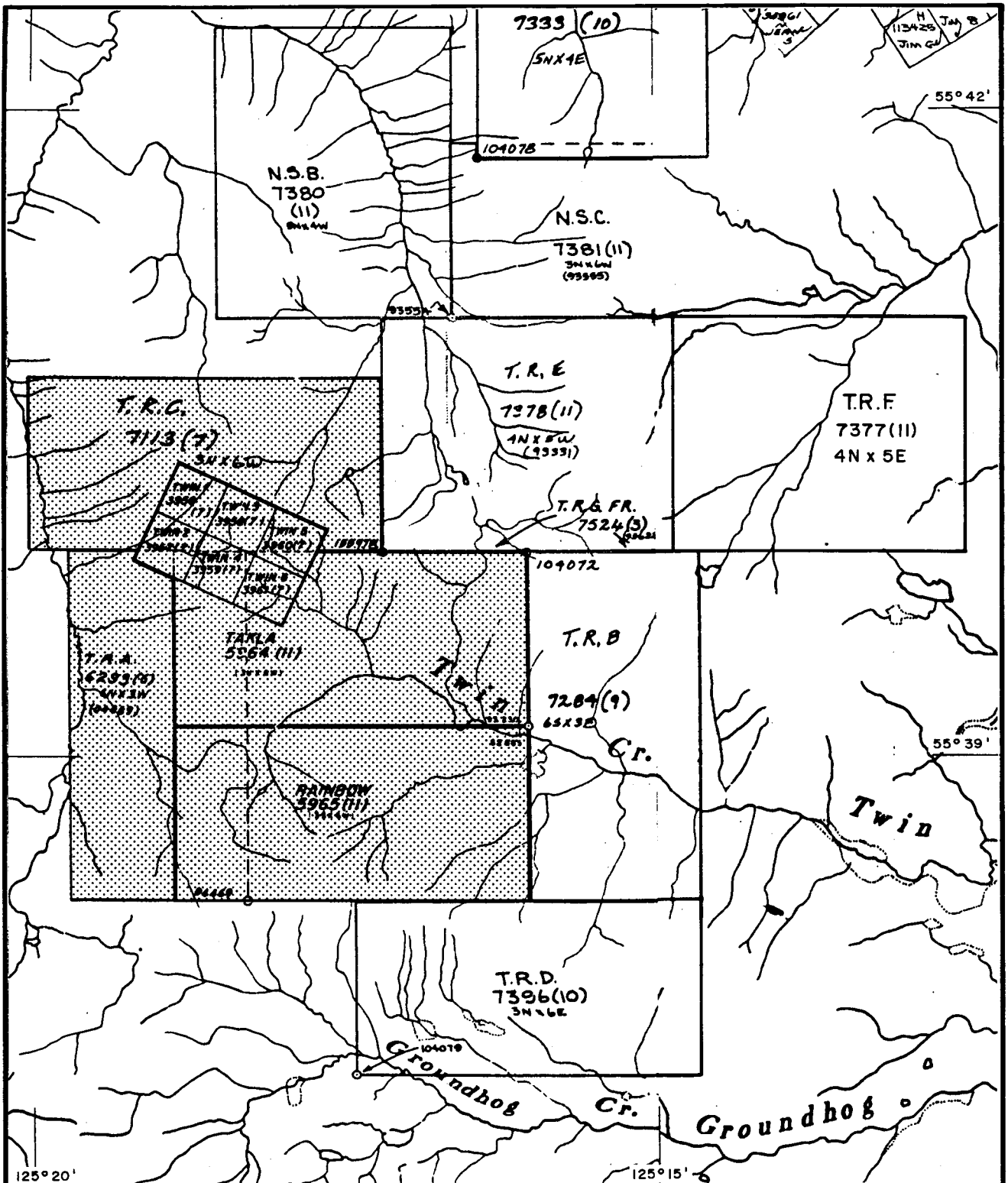
**CATHEDRAL GOLD CORPORATION**  
**TAKLA - RAINBOW**

FIGURE 1 N.T.S. 93N

**LOCATION MAP**

Km 0 5 10

SCALE: 1:250 000 GEOLOGIST: R. PESALJ  
 DATE: DECEMBER 1986 DRAWN BY: S. HAWORTH



CATHEDRAL GOLD CORPORATION

TAKLA - RAINBOW

FIGURE 2

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

# CLAIM MAP



SCALE: 1:50 000

GEOLOGIST: R. PESALJ

DATE: JANUARY 1987

DRAWN BY: S. HAWORTH

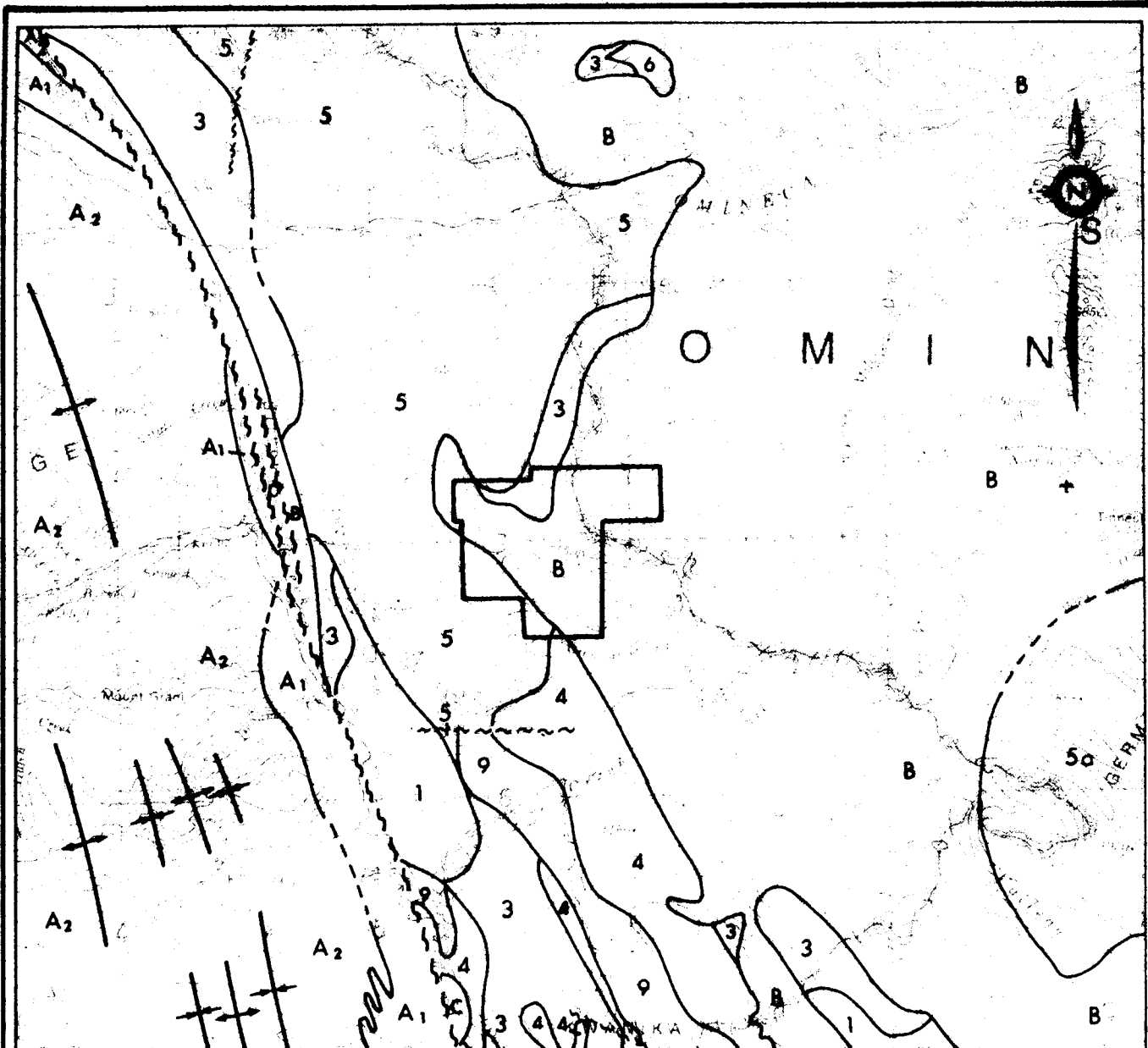
#### 4.0 REGIONAL GEOLOGY

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 Jurassic?) 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 occurred 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; Armstrong, 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

**SYMBOLS**

--- Geological contact (approx., assumed)

~~~~~ Pinchi Fault Zone

~~~~~ Fracture trace (inferred)

⊕ Syncline

⊖ Anticline

0 5 10 km

**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**

**A2** ribbon chert, argillaceous quartzite, argillite, slate, greenstone, limestone

**A1** massive limestone, dolomite; minor gabbro, serpentinite.

**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 occurrences 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 Au, 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 (T<sub>acp</sub>)

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 the 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 occurrence 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 proprietary 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 construction, 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:

| <u>WEST ZONE</u> |                  | <u>EAST ZONE</u> |                  | <u>SOUTH ZONE</u> |                  |
|------------------|------------------|------------------|------------------|-------------------|------------------|
| <u>Hole</u>      | <u>Depth (m)</u> | <u>Hole</u>      | <u>Depth (m)</u> | <u>Hole</u>       | <u>Depth (m)</u> |
| DDH 20           | 181.97           | DDH 19           | 262.13           | DDH 23            | 242.62           |
| DDH 21           | 224.64           | DDH 31           | 268.83           | DDH 28            | 221.59           |
| DDH 22           | 252.07           | DDH 33           | 462.99           | DDH 32            | 228.60           |
| DDH 24           | 181.97           | DDH 35           | <u>462.99</u>    | DDH 32            | <u>228.60</u>    |
| DDH 25           | 254.81           |                  | 1,449.93         |                   | 1,173.48         |
| 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           | <u>168.25</u>    |                  |                  |                   |                  |
|                  | 2,783.75         |                  |                  |                   |                  |

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 |          | INTERSECTION (m) |        | LENGTH | Au (oz/ton) | Ag (ppm) | Cu (ppm) |
|---|--------|-----------|-----|---------|-------------|----------|------------------|--------|--------|-------------|----------|----------|
|   |        |           |     |         | EASTING     | NORTHING | FROM             | TO     |        |             |          |          |
| 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      |          |

| YEAR   | DDH    | DEPTH (m) | DIP | AZIMUTH | COORDINATES |                 | INTERSECTION (m) |        |        | Au (oz/ton) | Ag (ppm) | Cu (ppm) |
|--------|--------|-----------|-----|---------|-------------|-----------------|------------------|--------|--------|-------------|----------|----------|
|        |        |           |     |         | EASTING     | NORTHING        | FROM             | TO     | LENGTH |             |          |          |
| 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     |          |
| 25     | 254.81 | -55       | 045 | 3+40    | 1+18 S      | 139.70          | 142.20           | 2.50   | 1.15   | 12.0        | 3000     |          |
|        |        |           |     |         |             | 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     |          |



| YEAR | DDH    | DEPTH (m) | DIP | AZIMUTH | COORDINATES |                 | INTERSECTION (m) |      | LENGTH | Au (oz/ton) | Ag (ppm) | Cu (ppm) |
|------|--------|-----------|-----|---------|-------------|-----------------|------------------|------|--------|-------------|----------|----------|
|      |        |           |     |         | EASTING     | NORTHING        | FROM             | TO   |        |             |          |          |
| 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 concentration 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 mineralization 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.

## BIBLIOGRAPHY

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STATEMENT OF EXPENDITURES

| <u>PERSONNEL</u> | <u>DATES</u>                           | <u>DAYS</u> | <u>COST</u>      |
|------------------|--|-------------|------------------|
| 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            |
|                  |  |             | <u>\$ 66,390</u> |

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.

FEBRUARY 1988

*Rad. Pesalj*  
\_\_\_\_\_  
Radomir Pesalj

A P P E N D I X     I

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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<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |           | Lgth. | Rec. | Analysis  |           |           |     |    |
|----------------|--------------|-----|--|-------------|-------------------|-----------|-------|------|-----------|-----------|-----------|-----|----|
|                |              |     |  |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Pb<br>ppm |     |    |
| 0.00           | 2.74         |     | Overburden. Angular fragments of andesitic volcanic, beige to rusty in colour. BW casing.  | 4001        | 2.74              | 4.26      | 1.52  |      | 1060      | 15.5      | 2926      | 119 | 8  |
|                |              |     |  | 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 white quartz veinlets cutting the unit at various angles to core axis.   | 4004        | 6.10              | 7.62      | 1.52  |      | 1         | .4        | 72        | 176 | 11 |
|                |              |     |  | 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, angular. Minor calcite with quartz veinlets 1-10mm thick.   | 4006        | 9.14              | 10.67     | 1.53  |      | 4         | .5        | 90        | 78  | 10 |
|                |              |     |  | 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 of plagioclase phenocrysts 1-3mm in length in greenish-grey plagioclase and chlorite groundmass. Thin 1-10mm, quartz-carbonate veinlets cutting the units of various angles to core axis. Plagioclase phenocrysts locally kaolinized, beige in colour. Fragments of the same composition, angular, 1-10cm across throughout the unit. | 4009        | 13.71             | 15.24     | 1.53  |      | 4         | .1        | 14        | 98  | 13 |
|                |              |     |  | 4010        | 15.24             | 16.76     | 1.52  |      | 2         | .1        | 10        | 82  | 11 |
|                |              |     |  | 4011        | 16.76             | 18.89     | 2.13  |      | 4         | .1        | 29        | 78  | 7  |
|                |              |     |  | 4012        | 18.89             | 19.81     | 0.92  |      | 1         | .1        | 13        | 56  | 11 |
|                |              |     |  | 4013        | 19.81             | 21.33     | 1.52  |      | 1         | .2        | 8         | 74  | 6  |
|                |              |     |  | 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 core, occasional clay mixed with andesitic fragments.  | 4016        | 24.38             | 26.30     | 1.92  |      | 4         | .1        | 103       | 94  | 10 |
|                |              |     |  | 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 fragments of porphyritic andesite maroon coloured set in greenish-grey coarse grained groundmass. Minor quartz veinlets and limonite stained  | 4019        | 28.05             | 29.60     | 1.55  |      | 1         | .2        | 39        | 72  | 13 |
|                |              |     |  | 4020        | 29.60             | 30.55     | 0.95  |      | 1         | .1        | 19        | 83  | 6  |
|                |              |     |  | 4021        | 30.55             | 32.00     | 1.45  |      | 51        | .2        | 12        | 73  | 10 |



## TAKLA-RAINBOW PROPERTY

TRS87/1

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| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |           |
|----------------|--------------|-----|---|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-----------|
|                |              |     |   |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Pb<br>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. andesitic 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 plagioclase 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 plagioclase     | 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        |



TAKLA-RAINBOW PROPERTY

TRS87/1

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| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From<br>Meters | To<br>Meters | Lgth. | Rec. | Analysis  |           |           |           |           |  |  |
|----------------|--------------|-----|---|-------------|----------------|--------------|-------|------|-----------|-----------|-----------|-----------|-----------|--|--|
|                |              |     |   |             |                |              |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Pb<br>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 quartz 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 87-3  
 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<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |           | Lgth. | Rec. | Analysis  |           |           |     |     |
|----------------|--------------|-----|--|-------------|-------------------|-----------|-------|------|-----------|-----------|-----------|-----|-----|
|                |              |     |  |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Pb<br>ppm |     |     |
| 0.00           | 6.10         |     | Overburden, fragments of granitic intrusive, bleached, kaolinized, BW casing.  | 4061        | 21.65             | 24.70     | 3.05  |      | 1         | .1        | 8         | 40  | 15  |
|                |              |     |  | 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 large 1-10mm phenocrysts of greenish plagioclase, grey quartz and pink K-spar set in a grey quartz-feldspathic groundmass. Contact with lower volcanic unit at 40° to core axis. The unit is bleached and kaolinized with sections of broken core indicating shear zone from 21.65 - 26.60m. Limonite coated fractures very common throughout the sheared section. | 4064        | 41.86             | 43.28     | 1.42  |      | 10        | .3        | 90        | 52  | 14  |
|                |              |     |  | 4065        | 43.28             | 44.30     | 1.02  |      | 50        | .2        | 58        | 102 | 18  |
|                |              |     |  | 4066        | 44.30             | 44.83     | 0.53  |      | 270       | .6        | 41        | 92  | 24  |
|                |              |     |  | 4067        | 49.18             | 49.63     | 0.45  |      | 1         | .3        | 3         | 170 | 10  |
|                |              |     |  | 4068        | 59.22             | 60.75     | 1.53  |      | 12        | .5        | 239       | 54  | 14  |
|                |              |     |  | 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 quartz veinlets to 1 cm thick cutting the unit at 45°-50° to core axis.   | 4071        | 83.03             | 84.43     | 1.40  |      | 15        | .1        | 18        | 55  | 35  |
|                |              |     |  | 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 altered, bleached and kaolinized and silicified andesite. The upper contact of the vein is at 40° to core axis. The lower contact at 20°.  | 4079        | 93.57             | 95.00     | 1.43  |      | 23        | .2        | 12        | 52  | 8   |
|                |              |     |  | 4080        | 95.00             | 96.32     | 1.32  |      | 72        | .3        | 16        | 58  | 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  |





TAKLA-RAINBOW PROPERTY

TRS87-3

Page 3 of 3

| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From<br>Meters | To<br>Meters | Lgth. | Rec. | Analysis  |           |           |           |           |  |  |  |
|----------------|--------------|-----|---|-------------|----------------|--------------|-------|------|-----------|-----------|-----------|-----------|-----------|--|--|--|
|                |              |     |   |             |                |              |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Pb<br>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<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |       | Lgth. | Rec. | Analysis  |           |           |           |           |
|----------------|--------------|-----|---|-------------|-------------------|-------|-------|------|-----------|-----------|-----------|-----------|-----------|
|                |              |     |   |             |                   |       |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Pb<br>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 oxides throughout the section, soft, weathered section of the bedrock.   | 4099        | 25.37             | 25.97 | 0.60  |      | 14        | 70.0      | 134.0     | 2431      | 960       |
|                |              |     |   | 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 section. Locally sheared and faulted, minor green, altered plagioclase crystals. Fine grained pyrite along the fractures, pyrite <1%. At 11.68m fault gouge 5cm.                                      | 4102        | 29.04             | 30.26 | 1.22  |      | 31        | 4.4       | 99.0      | 208       | 74        |
|                |              |     |   | 4103        | 32.61             | 34.14 | 1.53  |      | 20        | 3.1       | 77.0      | 201       | 80        |
|                |              |     |   | 4104        | 41.45             | 43.12 | 1.67  |      | 6         | 3.8       | 41.0      | 332       | 70        |
|                |              |     |   | 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, sheared sections with iron and manganese oxides along the fractures. Pyrite concentrated along the joints, overall content less than 1%. Minor quartz-calcite veinlets 1-5mm wide at 45° to core axis. | 4107        | 44.96             | 46.02 | 1.06  |      | 7         | 4.1       | 51.0      | 1085      | 442       |
|                |              |     |   | 4108        | 46.02             | 47.39 | 1.37  |      | 3         | 1.9       | 85.0      | 770       | 144       |
|                |              |     |   | 4109        | 47.39             | 48.80 | 1.41  |      | 10        | 6.4       | 75.0      | 796       | 595       |
|                |              |     |   | 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 pyrite 3%.  | 4112        | 51.35             | 53.30 | 1.95  |      | 2         | 1.7       | 125.0     | 138       | 20        |
|                |              |     |   | 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. Disseminated and veinlet pyrite 5-8%.  | 4115        | 59.60             | 60.50 | 0.90  |      | 26        | 3.0       | 217.0     | 1082      | 341       |
|                |              |     |   | 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       |









## 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<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |           | Lgth. | Rec. | Analysis  |           |             |     |       |
|----------------|--------------|-----|--|-------------|-------------------|-----------|-------|------|-----------|-----------|-------------|-----|-------|
|                |              |     |  |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Au<br>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, iron oxides along the fractures.                                | 4137        | 29.77             | 31.28     | 1.51  |      | 8         | .4        | 171         | 185 |       |
|                |              |     |  | 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 bleached, trace pyrite, abundant epidote along the fractures. | 4140        | 38.05             | 38.61     | 0.56  |      | 205       | .5        | 165         | 92  |       |
|                |              |     |  | 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 filled fractures, locally limonite coated fractures.              | 4143        | 52.43             | 53.40     | 0.97  |      | 11        | .3        | 256         | 155 |       |
|                |              |     |  | 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 chloritized volcanic material.   | 4146        | 66.00             | 66.45     | 0.45  |      | 8         | .4        | 44          | 105 |       |
|                |              |     |  | 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 veinlets. Contact with volcanics sharp at 40°-60°.               | 4151        | 75.05             | 75.85     | 0.80  |      | 4         | .1        | 29          | 115 |       |
|                |              |     |  | 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 visible sulphides.  | 4154        | 119.90            | 121.45    | 1.55  |      | 11        | .2        | 36          | 170 |       |
|                |              |     |  | 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 veinlets at various angles to core axis.                          | 4158        | 124.50            | 126.70    | 1.20  |      | 8         | .9        | 645         | 216 |       |
|                |              |     |  | 4159        | 129.05            | 129.95    | 0.90  |      | 3         | .1        | 26          | 132 |       |













## DRILL RECORD

## IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow

LOCATION : West Drill Grid

CORRECT DIP: -55°

PAGE : 1 of 5

HOLE NO. : DDH 20

LOC. : 2 + 46E/0 + 58S

TRUE BRG : 045°

LOGGED BY : R. Pesalj

COMMENCED: August 20, 1987

ELEV. :

SURVEY AT :

DATE : August 22, 1987

COMPLETED: August 22, 1987

CORE SIZE: BQ

% RECOVERY : 100%

CORE STORED : At the camp

OBJECTIVE:

LENGTH : 181.97m

UNUSUAL FEAT.:

| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |       | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|---|-------------|-------------------|-------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |   |             |                   |       |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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, massive, epidote blebs and irregular patches throughout, disseminated pyrite 3-5%. The unit consists of K-spar, chlorite and epidote. | 4169        | 18.74             | 20.12 | 1.38  |      | 31        | .4        | 279       | 127       |             |
|                |              |     |   | 4170        | 20.12             | 21.64 | 1.52  |      | 76        | .2        | 59        | 79        |             |
|                |              |     |   | 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 throughout, at 18.95m quartz vein, banded, 3cm wide, cutting volcanic at 60° to core axis.   | 4173        | 24.38             | 25.90 | 1.52  |      | 171       | .2        | 13        | 90        |             |
|                |              |     |   | 4174        | 25.90             | 27.90 | 2.00  |      | 28        | .1        | 7         | 80        |             |
|                |              |     |   | 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 inclusions of highly chloritized volcanic. The rock consists of K-spar epidote and chlorite, but no quartz.                                   | 4177        | 31.90             | 32.30 | 0.40  |      | 62        | .3        | 15        | 119       |             |
|                |              |     |   | 4178        | 32.30             | 34.14 | 1.84  |      | 98        | .3        | 287       | 108       |             |
|                |              |     |   | 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 veins 1cm wide with disseminated pyrite. Core recovery in this section is 30%.   | 4181        | 36.40             | 37.79 | 1.39  |      | 43        | .1        | 27        | 121       |             |
|                |              |     |   | 4182        | 37.79             | 39.30 | 1.51  |      | 54        | .3        | 99        | 170       |             |
|                |              |     |   | 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 pyrite 1-2%, abundant epidote.  | 4185        | 41.60             | 43.28 | 1.68  |      | 94        | .4        | 346       | 76        |             |
|                |              |     |   | 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, disseminated pyrite 5-8%.   | 4188        | 45.01             | 46.18 | 1.17  |      | 39        | .2        | 34        | 70        |             |
|                |              |     |   | 4189        | 46.18             | 47.45 | 1.27  |      | 89        | .5        | 227       | 58        |             |
|                |              |     |   | 4190        | 47.45             | 48.50 | 1.05  |      | 320       | .8        | 491       | 132       |             |

## TAKLA-RAINBOW PROPERTY

DDH 20

Page 2 of 5

| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |       | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|-------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |       |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |
| 32.30          | 40.54        |     | Pink and green granitic intrusive, coarse grained, equigranular, highly chloritized, disseminated and veinlet pyrite 3%, epidote throughout.   | 4191        | 48.50             | 50.20 | 1.70  |      | 670       | .6        | 353       | 148       |             |
|                |              |     |  | 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 disseminated pyrite.   | 4198        | 55.47             | 57.00 | 1.53  |      | 370       | .6        | 368       | 123       |             |
|                |              |     |  | 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 unit is very fine grained, massive and locally cut by pink granitic intrusive. High concentration of disseminated pyrite locally, average 3%, minor magnetite. | 4201        | 68.28             | 69.55 | 1.27  |      | 93        | .1        | 43        | 49        |             |
|                |              |     |  | 4202        | 69.55             | 70.45 | 0.90  |      | 980       | 1.9       | 13        | 44        | 0.028       |
|                |              |     |  | 4203        | 70.45             | 72.24 | 1.79  |      | 74        | .2        | 22        | 60        |             |
|                |              |     |  | 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 pyrite 3%.   | 4208        | 77.52             | 78.80 | 1.28  |      | 250       | .2        | 26        | 164       |             |
|                |              |     |  | 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 disseminated pyrite, no quartz veining, abundant epidote.   | 4211        | 80.45             | 81.20 | 0.75  |      | 485       | .2        | 83        | 149       | 0.013       |
|                |              |     |  | 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 mainly along the core. Disseminated pyrite 5%, quartz veinlets 1-2%.   | 4214        | 82.75             | 84.20 | 1.45  |      | 165       | 3.2       | 2 97      | 152       |             |
|                |              |     |  | 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

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |
| 72.24          | 76.81        |     | Pink and green granitic intrusive as above to 69.55m, disseminated pyrite 5%, no quartz veining.   | 4217        | 87.08             | 88.53  | 1.45  |      | 124       | .3        | 234       | 112       |             |
|                |              |     |  | 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 volcanic of andesitic composition. Disseminated fine grained pyrite in both, intrusive and volcanic. Light grey magnesite (?) veinlets cutting the volcanic. Pyrite content 10-15%. | 4220        | 91.35             | 92.67  | 1.32  |      | 245       | .1        | 184       | 127       |             |
|                |              |     |  | 4221        | 92.67             | 94.10  | 1.43  |      | 240       | .1        | 189       | 133       |             |
|                |              |     |  | 4222        | 94.10             | 95.25  | 1.15  |      | 395       | .4        | 482       | 119       |             |
|                |              |     |  | 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 magnesite (?) veinlets, disseminated pyrite 10-15%. The rock is not magnetic.   | 4225        | 98.15             | 99.67  | 1.52  |      | 330       | .4        | 365       | 139       |             |
|                |              |     |  | 4226        | 99.67             | 101.19 | 1.52  |      | 215       | .2        | 269       | 117       |             |
|                |              |     |  | 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-work system throughout the section. Disseminated pyrite 15-20%, quartz 40-50%.  | 4229        | 103.44            | 105.00 | 1.56  |      | 104       | .1        | 32        | 135       |             |
|                |              |     |  | 4230        | 108.81            | 110.33 | 1.52  |      | 72        | .1        | 77        | 120       |             |
|                |              |     |  | 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 pyrite mineralization. Pyrite content 5-8%, quartz 10-20%.   | 4233        | 113.38            | 114.76 | 1.38  |      | 114       | .1        | 22        | 137       |             |
|                |              |     |  | 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 pyrite and minor veinlet pyrite 8%.   | 4236        | 117.96            | 119.47 | 1.51  |      | 1215      | 1.6       | 137       | 94        | 0.033       |
|                |              |     |  | 4237        | 119.47            | 121.01 | 1.54  |      | 129       | .3        | 165       | 120       |             |
|                |              |     |  | 4238        | 121.01            | 122.41 | 1.40  |      | 42        | .2        | 34        | 137       |             |
|                |              |     |  | 4239        | 122.41            | 123.90 | 1.49  |      | 57        | .2        | 106       | 105       |             |
| 82.75          | 85.63        |     | Andesitic volcanic with occasional dykes of granitic intrusive. Disseminated pyrite 5%.  | 4240        | 123.90            | 125.27 | 1.37  |      | 93        | .2        | 120       | 103       |             |
|                |              |     |  | 4241        | 125.27            | 126.60 | 1.33  |      | 132       | .3        | 190       | 126       |             |







## 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<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |       | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|-------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |       |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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 grained plagioclase rich matrix. | 4269        | 32.61             | 33.46 | 0.85  |      | 185       | .5        | 299       | 126       |             |
|                |              |     |  | 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%, abundant epidote alteration.       | 4274        | 83.40             | 84.85 | 1.45  |      | 71        | .1        | 9         | 119       |             |
|                |              |     |  | 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 pyrite 2-3%.                        | 4277        | 86.35             | 86.90 | 0.55  |      | 365       | .2        | 8         | 126       |             |
|                |              |     |  | 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 coated with iron oxide.           | 4280        | 88.50             | 89.08 | 0.58  |      | 190       | .3        | 118       | 123       |             |
|                |              |     |  | 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 core, shear zone.                           | 4283        | 91.00             | 92.53 | 1.53  |      | 67        | .3        | 73        | 92        |             |
|                |              |     |  | 4284        | 92.53             | 94.10 | 1.57  |      | 46        | .2        | 10        | 57        |             |
|                |              |     |  | 4285        | 94.10             | 96.62 | 2.52  |      | 124       | .2        | 16        | 75        |             |

## TAKLA-RAINBOW PROPERTY

DDH 21

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| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|---|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |   |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |
| 38.40          | 43.90        |     | Dark green andesitic volcanic as above to 33.46m trace sulphides, minor epidote.  | 4286        | 96.62             | 98.15  | 1.53  |      | 114       | .2        | 15        | 65        |             |
|                |              |     |   | 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 epidote veinlets. The unit is not magnetic. Local narrow zones with disseminated pyrite and epidote. | 4290        | 102.72            | 104.24 | 1.52  |      | 91        | .3        | 76        | 76        |             |
|                |              |     |   | 4291        | 104.24            | 105.77 | 1.53  |      | 79        | .1        | 43        | 43        |             |
|                |              |     |   | 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, pyrite content 5-8%.   | 4294        | 108.81            | 110.34 | 1.53  |      | 83        | .1        | 29        | 29        |             |
|                |              |     |   | 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 pyrite 5-8%.  | 4297        | 113.38            | 114.91 | 1.53  |      | 32        | .1        | 89        | 89        |             |
|                |              |     |   | 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 volcanic, disseminated and stringer pyrite 8-10%.  | 4300        | 117.96            | 119.48 | 1.52  |      | 83        | .1        | 8         | 8         |             |
|                |              |     |   | 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 veinlets. From 113.00 - 113.38m fault, fragments of porphyry 0.5-2.0cm across, angular, no fault gouge. | 4303        | 122.53            | 124.50 | 1.97  |      | 131       | .2        | 12        | 12        |             |
|                |              |     |   | 4304        | 124.50            | 125.87 | 1.37  |      | 405       | .1        | 48        | 48        |             |
|                |              |     |   | 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 veinlets, epidote.  | 4307        | 129.05            | 129.85 | 0.80  |      | 860       | .4        | 447       | 447       | 0.026       |
|                |              |     |   | 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

Page 3 of 5

| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|---|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |   |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |
| 124.50         | 129.05       |     | Green, highly chloritic andesitic volcanic with discreet bands of K-spar rich material found locally. Disseminated pyrite 1-2%, minor quartz veining. | 4310        | 132.00            | 132.80 | 0.80  |      | 520       | .3        | 120       | 120       |             |
|                |              |     |   | 4311        | 132.80            | 134.40 | 1.60  |      | 215       | .1        | 80        | 80        |             |
|                |              |     |   | 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 average 3-5%, locally to 10% over narrow widths.                                 | 4314        | 136.85            | 137.92 | 1.07  |      | 360       | .1        | 174       | 138       |             |
|                |              |     |   | 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. Disseminated pyrite concentrated around veinlets in two separate sections.    | 4317        | 140.36            | 141.27 | 0.91  |      | 285       | 1.0       | 1525      | 126       |             |
|                |              |     |   | 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 pyrite.   | 4320        | 143.56            | 144.30 | 0.74  |      | 305       | .2        | 71        | 130       |             |
|                |              |     |   | 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, disseminated pyrite 23%.   | 4326        | 148.30            | 149.10 | 0.80  |      | 445       | .1        | 61        | 168       |             |
|                |              |     |   | 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. Disseminated pyrite 2-3%.   | 4333        | 154.80            | 155.30 | 0.50  |      | 84        | .2        | 15        | 123       |             |
|                |              |     |   | 4334        | 174.65            | 175.30 | 0.65  |      | 60        | .2        | 18        | 91        |             |
|                |              |     |   | 4335        | 178.00            | 178.50 | 0.50  |      | 112       | .1        | 16        | 124       |             |





## DRILL RECORD

## IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow

LOCATION : West Drill Grid

CORRECT DIP: -55°

PAGE : 1 of 6

HOLE NO. : DDH 22

LOC. : 2 + 91E/1 + 27S

TRUE BRG : 045°

LOGGED BY : R. Pesalj

COMMENCED: August 22, 1987

ELEV. :

SURVEY AT :

DATE : August 26, 1987

COMPLETED: August 26, 1987

CORE SIZE: BQ

% RECOVERY : 100%

CORE STORED : At the camp

OBJECTIVE:

LENGTH : 252.07m

UNUSUAL FEAT.:

| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |           | Lgth. | Rec. | Analysis  |           |             |     |       |
|----------------|--------------|-----|--|-------------|-------------------|-----------|-------|------|-----------|-----------|-------------|-----|-------|
|                |              |     |  |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Au<br>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, not magnetic. Limonite coated fractures.  | 4353        | 18.70             | 19.07     | 0.37  |      | 36        | .3        | 79          | 132 |       |
|                |              |     |  | 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, occasional quartz phenocrysts. From 13.30 to 14.30m bleached.                          | 4356        | 26.70             | 27.80     | 1.10  |      | 3         | .2        | 71          | 149 |       |
|                |              |     |  | 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 quartz veinlets and higher pyrite concentrations. From 21.64 to 23.04m                | 4359        | 37.18             | 38.71     | 1.53  |      | 15        | .7        | 77          | 138 |       |
|                |              |     | quartz vein 1cm along the core, pyrite 3-5%. From 26.70 to 29.05m pyrite   | 4360        | 55.17             | 56.17     | 1.00  |      | 13        | .2        | 61          | 74  |       |
|                |              |     | 5-8%.  | 4361        | 76.81             | 78.20     | 1.39  |      | 33        | .2        | 59          | 103 |       |
|                |              |     |  | 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 disseminated pyrite. Locally core broken, sheared. At 70.41m quartz vein 5cm along the core. | 4370        | 124.05            | 125.57    | 1.52  |      | 59        | .2        | 15          | 89  |       |
|                |              |     |  | 4371        | 125.57            | 127.10    | 1.53  |      | 48        | .2        | 7           | 85  |       |
|                |              |     |  | 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  |       |

## TAKLA-RAINBOW PROPERTY

DDH 22

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| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|---|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |   |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |
| 75.10          | 78.20        |     | Andesitic volcanic, massive, fine grained trace pyrite, rare quartz veinlets.   | 4375        | 133.20            | 135.03 | 1.83  |      | 81        | .1        | 13        | 141       |             |
|                |              |     |   | 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 inclusions, thin quartz veinlets.  | 4380        | 145.39            | 147.22 | 1.83  |      | 295       | .4        | 191       | 109       |             |
|                |              |     |   | 4381        | 147.22            | 147.87 | 0.65  |      | 29        | .3        | 36        | 71        |             |
|                |              |     |   | 4382        | 147.87            | 148.85 | 0.98  |      | 150       | .3        | 74        | 90        |             |
|                |              |     |   | 4383        | 148.85            | 149.96 | 1.11  |      | 560       | 1.1       | 322       | 119       |             |
| 104.80         | 127.96       |     | Granite porphyry green and pink, massive, mixed with dark green, highly chloritic inclusions of mafic volcanic, minor epidote veinlets, rare disseminated pyrite.                           | 4384        | 149.96            | 150.88 | 0.92  |      | 37        | .4        | 179       | 125       |             |
|                |              |     |   | 4385        | 150.88            | 152.09 | 1.21  |      | 36        | .2        | 234       | 133       |             |
|                |              |     |   | 4386        | 152.09            | 152.39 | 0.30  |      | 505       | 1.4       | 828       | 121       |             |
|                |              |     |   | 4387        | 152.39            | 152.95 | 0.56  |      | 395       | 1.1       | 927       | 160       |             |
|                |              |     |   | 4388        | 152.95            | 154.00 | 1.05  |      | 345       | 1.0       | 1150      | 132       |             |
|                |              |     |   | 4389        | 154.00            | 154.45 | 0.45  |      | 150       | .8        | 707       | 162       |             |
|                |              |     | From 104.80 to 106.68m disseminated pyrite 8%.  | 4390        | 154.45            | 156.69 | 2.24  |      | 67        | .7        | 573       | 126       |             |
|                |              |     |   | 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 in size from 1-10mm cemented by porphyritic, chloritized matrix. Disseminated pyrite 3-5% throughout the unit. | 4393        | 158.82            | 159.95 | 1.13  |      | 75        | .3        | 111       | 126       |             |
|                |              |     |   | 4394        | 159.95            | 160.90 | 0.95  |      | 95        | .3        | 141       | 97        |             |
|                |              |     |   | 4395        | 166.00            | 167.18 | 1.18  |      | 165       | .1        | 145       | 168       |             |
|                |              |     |   | 4396        | 167.18            | 168.55 | 1.37  |      | 150       | .1        | 301       | 183       |             |
|                |              |     |   | 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 veinlets throughout, disseminated pyrite 3%.  | 4399        | 169.82            | 170.22 | 0.40  |      | 148       | .8        | 765       | 154       |             |
|                |              |     |   | 4400        | 170.22            | 171.14 | 0.92  |      | 116       | .5        | 504       | 189       |             |
|                |              |     |   | 4401        | 171.14            | 172.42 | 1.28  |      | 137       | .4        | 295       | 128       |             |



## TAKLA-RAINBOW PROPERTY

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| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|---|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |   |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |
| 135.03         | 137.10       |     | Mafic volcanic of basaltic composition, fine grained, massive, slightly magnetic.   | 4402        | 182.70            | 183.88 | 1.18  |      | 150       | .2        | 118       | 135       |             |
|                |              |     |   | 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, abundant epidote. Disseminated pyrite 5-8%.  | 4405        | 190.30            | 191.70 | 1.40  |      | 108       | .5        | 619       | 135       |             |
|                |              |     |   | 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 quartz veinlets, highly chloritic section.   | 4408        | 194.50            | 195.83 | 1.33  |      | 98        | .1        | 124       | 104       |             |
|                |              |     |   | 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 white quartz veinlets ranging in width from 1-15mm. The veinlets show brecciation, cementing the fragments of the country rock. | 4411        | 198.73            | 200.25 | 1.52  |      | 76        | .1        | 121       | 109       |             |
|                |              |     |   | 4412        | 200.25            | 201.38 | 1.13  |      | 70        | .1        | 239       | 126       |             |
|                |              |     |   | 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 running along the core. Disseminated pyrite 3-5%.   | 4415        | 209.40            | 210.10 | 0.70  |      | 315       | .5        | 527       | 93        |             |
|                |              |     |   | 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 pyrite 5-10%.   | 4422        | 226.88            | 227.68 | 0.80  |      | 111       | .1        | 79        | 81        |             |
|                |              |     |   | 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       |







## 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<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |       | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|-------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |       |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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 cut by thin quartz veinlets. Fractures coated by iron oxides. The unit is locally slightly magnetic in the sections with more mafic minerals. | 4435        | 25.77             | 26.23 | 0.46  |      | 126       | 4.5       | 2192      | 174       |             |
|                |              |     |  | 4436        | 26.23             | 27.05 | 0.82  |      | 59        | 1.5       | 733       | 190       |             |
|                |              |     |  | 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 zones with narrow quartz veins, changing to pinkish colour.  | 4439        | 28.75             | 29.15 | 0.40  |      | 11        | .1        | 92        | 118       |             |
|                |              |     |  | 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 disseminated pyrite.  | 4450        | 41.26             | 41.76 | 0.50  |      | 35        | .1        | 23        | 67        |             |
|                |              |     |  | 4451        | 49.68             | 49.98 | 0.30  |      | 240       | 1.0       | 117       | 147       |             |

## TAKLA-RAINBOW PROPERTY

DDH 23

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| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|---|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |   |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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            | 102.17 | 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       |             |









## 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<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |           | Lgth. | Rec. | Analysis  |           |             |     |       |
|----------------|--------------|-----|---|-------------|-------------------|-----------|-------|------|-----------|-----------|-------------|-----|-------|
|                |              |     |   |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Au<br>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 magnetic, minor quartz veinlets, patches of epidote.                   | 4481        | 20.22             | 21.00     | 0.78  |      | 315       | .4        | 31          | 86  |       |
|                |              |     |   | 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 1-2%, no quartz veining.  | 4484        | 22.07             | 23.00     | 0.93  |      | 650       | .5        | 107         | 63  |       |
|                |              |     |   | 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 pyrite at 40° to core axis. Pyrite content higher than above, average 3-5%. | 4487        | 25.82             | 26.82     | 1.00  |      | 150       | .4        | 270         | 95  |       |
|                |              |     |   | 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-pyrite grains.  | 4490        | 27.92             | 28.87     | 0.95  |      | 450       | 1.0       | 493         | 99  |       |
|                |              |     |   | 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 magnetic.   | 4495        | 34.92             | 35.36     | 0.44  |      | 29        | .3        | 126         | 83  |       |
|                |              |     |   | 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

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| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |       | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|---|-------------|-------------------|-------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |   |             |                   |       |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |
| 30.78          | 32.81        |     | Andesite with abundant quartz veinlets running along the core, pyrite content average 3%, slightly magnetic.  | 4498        | 40.69             | 41.76 | 1.07  |      | 92        | .6        | 90        | 114       |             |
|                |              |     |   | 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 mainly along the core, minor sulphides-pyrite.                                      | 4501        | 43.16             | 43.96 | 0.80  |      | 840       | .8        | 724       | 90        |             |
|                |              |     |   | 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 composition, moderately magnetic.  | 4503        | 45.20             | 45.72 | 0.52  |      | 104       | .8        | 371       | 151       |             |
|                |              |     |   | 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 at irregular fashion. Disseminated pyrite in veins and andesite 10%, quartz 20%. | 4508        | 53.45             | 54.05 | 0.60  |      | 108       | .3        | 77        | 116       |             |
|                |              |     |   | 4509        | 54.05             | 54.61 | 0.56  |      | 123       | .4        | 62        | 140       |             |
|                |              |     |   | 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 pyrite 3%.   | 4516        | 61.88             | 63.40 | 1.52  |      | 75        | .1        | 24        | 115       |             |
|                |              |     |   | 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 pyrite and vein pyrite 8%.  | 4521        | 69.49             | 71.02 | 1.53  |      | 215       | .8        | 653       | 119       |             |
|                |              |     |   | 4522        | 71.02             | 71.56 | 0.54  |      | 750       | 1.9       | 781       | 157       |             |
|                |              |     |   | 4523        | 71.56             | 72.24 | 0.68  |      | 150       | .8        | 280       | 142       |             |

## TAKLA-RAINBOW PROPERTY

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| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |           | Lgth. | Rec. | Analysis  |           |             |     |       |
|----------------|--------------|-----|---|-------------|-------------------|-----------|-------|------|-----------|-----------|-------------|-----|-------|
|                |              |     |   |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |     |       |
| 49.83          | 53.45        |     | Andesite, dark green with epidote patches throughout, minor quartz veinlets, trace pyrite.  | 4524        | 72.24             | 72.84     | 0.60  |      | 985       | .6        | 232         | 118 | 0.026 |
| 53.45          | 58.50        |     | Andesite as above, with higher quartz veinlet content and disseminated pyrite concentrated in areas with quartz-epidote veining. Average pyrite content 8-10%.  | 4525        | 72.84             | 73.46     | 0.62  |      | 350       | .3        | 124         | 100 |       |
|                |              |     |   | 4526        | 73.46             | 74.06     | 0.60  |      | 295       | .3        | 160         | 127 |       |
|                |              |     |   | 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 veinlets, local concentration of epidote.   | 4529        | 76.81             | 78.33     | 1.52  |      | 68        | .2        | 50          | 107 |       |
|                |              |     |   | 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 15%.   | 4532        | 81.38             | 82.78     | 1.40  |      | 77        | .1        | 19          | 111 |       |
|                |              |     |   | 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 irregular patches throughout the unit, disseminated pyrite and minor blebs and veinlets 5-8%, rare quartz veinlets. The unit is not magnetic. | 4543        | 94.28             | 95.25     | 0.97  |      | 106       | .2        | 159         | 88  |       |
|                |              |     |   | 4544        | 95.25             | 95.90     | 0.65  |      | 129       | .3        | 167         | 86  |       |
|                |              |     |   | 4545        | 95.90             | 96.60     | 0.70  |      | 96        | .2        | 124         | 121 |       |
|                |              |     |   | 4546        | 96.60             | 98.14     | 1.54  |      | 94        | .5        | 251         | 125 |       |

## TAKLA-RAINBOW PROPERTY

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |           | Lgth. | Rec. | Analysis  |           |             |     |       |
|----------------|--------------|-----|--|-------------|-------------------|-----------|-------|------|-----------|-----------|-------------|-----|-------|
|                |              |     |  |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |     |       |
| 91.74          | 92.34        |     | Andesite, dark green, chlorite-epidote throughout, grey quartz and pyrite stringers at 70° to core axis. Pyrite content 5-8%.        | 4547        | 98.14             | 99.00     | 0.86  |      | 1040      | 1.3       | 409         | 88  | 0.027 |
|                |              |     |  | 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, long, minor pyrite and quartz.                            | 4552        | 103.45            | 104.25    | 0.80  |      | 121       | .1        | 95          | 81  |       |
|                |              |     |  | 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 granitic material abundant. Pyrite content 8-10%.          | 4559        | 111.95            | 112.20    | 0.25  |      | 82        | .1        | 55          | 85  |       |
|                |              |     |  | 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. Disseminated pyrite 3-5% quartz veinlet at 25° to core axis. | 4565        | 116.98            | 117.80    | 0.82  |      | 870       | .6        | 352         | 42  |       |
|                |              |     |  | 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 disseminated pyrite 5%, rare bands of massive pyrite.     | 4570        | 122.43            | 123.70    | 1.27  |      | 290       | .3        | 85          | 74  |       |
|                |              |     |  | 4571        | 123.70            | 124.70    | 1.00  |      | 173       | .6        | 432         | 112 |       |
|                |              |     |  | 4572        | 124.70            | 125.88    | 1.18  |      | 280       | 1.0       | 829         | 94  |       |









DRILL RECORD

IMPERIAL METALS CORPORATION

|                              |                            |                   |                           |
|------------------------------|----------------------------|-------------------|---------------------------|
| PROPERTY : Takla-Rainbow     | LOCATION : West Drill Grid | CORRECT DIP: -55° | PAGE : 1 of 8             |
| HOLE NO. : DDH 25            | LOC. : 3 + 40E/1 + 18S     | TRUE BRG : 045°   | LOGGED BY : R. Pesalj     |
| COMMENCED: September 2, 1987 | ELEV. :                    | SURVEY AT :       | DATE : September 2/87     |
| COMPLETED: September 5, 1987 | CORE SIZE: BQ              | % RECOVERY : 100% | CORE STORED : At the camp |
| OBJECTIVE:                   | Azimuth :                  | LENGTH : 254.81m  | UNUSUAL FEAT.:            |

| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|---|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |   |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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 dykelets of pink granitic intrusive, badly broken core, shear zone.   | 4597        | 100.88            | 102.00 | 1.12  |      | 28        | .3        | 31        | 51        |             |
|                |              |     |   | 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 fault gouge.   | 4604        | 126.40            | 127.80 | 1.40  |      | 82        | .8        | 664       | 106       |             |
|                |              |     |   | 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 white quartz veinlets, fractured, broken core. Local narrow, 1-2 ft, bleached sections and white quartz veinlets, rare disseminated pyrite. | 4607        | 128.90            | 129.45 | 0.55  |      | 105       | .5        | 708       | 100       | 0.008       |
|                |              |     |   | 4608        | 129.45            | 130.15 | 0.70  |      | 49        | .4        | 411       | 86        | 0.002       |
|                |              |     |   | 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 sulphides.   | 4611        | 132.90            | 134.40 | 1.50  |      | 33        | .2        | 188       | 101       |             |
|                |              |     |   | 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 sulphides.   | 4614        | 137.76            | 139.29 | 1.53  |      | 195       | .1        | 119       | 58        |             |
|                |              |     |   | 4615        | 139.29            | 140.81 | 1.52  |      | 48        | .3        | 300       | 90        |             |
|                |              |     |   | 4616        | 140.81            | 142.34 | 1.53  |      | 27        | .4        | 185       | 99        |             |

## TAKLA-RAINBOW PROPERTY

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| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |           | Lgth. | Rec. | Analysis  |           |             |     |       |
|----------------|--------------|-----|---|-------------|-------------------|-----------|-------|------|-----------|-----------|-------------|-----|-------|
|                |              |     |   |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |     |       |
| 72.10          | 80.56        |     | Bleached mafic volcanic of andesitic composition, rare white quartz veinlets.   | 4617        | 142.34            | 143.64    | 1.30  |      | 55        | .5        | 123         | 105 |       |
|                |              |     |   | 4618        | 143.64            | 144.94    | 1.30  |      | 360       | 2.3       | 154         | 81  |       |
| 80.56          | 81.99        |     | Green, chloritic, slightly bleached andesitic volcanic, minor quartz veinlets, no sulphides.  | 4619        | 144.94            | 145.39    | 0.45  |      | 78        | 1.6       | 74          | 117 |       |
|                |              |     |   | 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 with porphyry 1.5m wide chloritic zone, sheared, foliated at 35°. | 4622        | 147.70            | 148.64    | 0.94  |      | 85        | .2        | 59          | 136 |       |
|                |              |     |   | 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 volcanic. Lower contact at 30° to core axis.                   | 4625        | 150.44            | 150.77    | 0.33  |      | 285       | .4        | 502         | 153 | 0.007 |
|                |              |     |   | 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 from 100.88 to 102.00m and 102.58 to 103.02m.                      | 4628        | 161.20            | 162.15    | 0.95  |      | 41        | .2        | 159         | 92  |       |
|                |              |     |   | 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 quartz veinlets and little sulphides.                              | 4631        | 165.20            | 166.40    | 1.20  |      | 295       | .5        | 215         | 137 |       |
|                |              |     |   | 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 disseminated pyrite.  | 4640        | 172.70            | 173.34    | 0.64  |      | 65        | .4        | 271         | 94  |       |
|                |              |     |   | 4641        | 173.34            | 174.90    | 1.56  |      | 111       | .9        | 478         | 116 |       |
|                |              |     |   | 4642        | 174.90            | 175.87    | 0.97  |      | 52        | .3        | 228         | 98  |       |

## TAKLA-RAINBOW PROPERTY

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |           | Lgth. | Rec. | Analysis  |           |             |     |       |
|----------------|--------------|-----|--|-------------|-------------------|-----------|-------|------|-----------|-----------|-------------|-----|-------|
|                |              |     |  |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Au<br>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  |       |

## TAKLA-RAINBOW PROPERTY

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From<br>Meters | To<br>Meters | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|----------------|--------------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                |              |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |
| 149.14         | 150.44       |     | Dark green, highly chloritic and esitic volcanic, fractured and cemented by bluish-grey quartz. Disseminated pyrite and pyrite specks 15-20%.  | 4668        | 214.38         | 215.90       | 1.52  |      | 97        | .1        | 180       | 98        |             |
|                |              |     |  | 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, disseminated pyrite 3-5%.   | 4671        | 218.20         | 220.06       | 1.86  |      | 38        | .1        | 15        | 139       |             |
|                |              |     |  | 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 throughout the unit. Occasional inclusions of andesitic volcanic and thin quartz veinlets. Rare sections of disseminated pyrite. | 4676        | 225.48         | 226.16       | 0.68  |      | 51        | .1        | 52        | 121       |             |
|                |              |     |  | 4677        | 226.16         | 227.69       | 1.53  |      | 42        | .1        | 74        | 111       |             |
|                |              |     |  | 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 pyrite.   | 4683        | 231.10         | 231.95       | 0.85  |      | 99        | .1        | 87        | 83        |             |
|                |              |     |  | 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 veinlets. Pyrite content 5%.  | 4688        | 241.70         | 242.70       | 1.00  |      | 71        | .3        | 241       | 76        |             |
|                |              |     |  | 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 pyrite 5-8%.   | 4691        | 246.20         | 246.65       | 0.45  |      | 25        | .1        | 65        | 27        |             |
|                |              |     |  | 4692        | 246.65         | 247.25       | 0.60  |      | 235       | .4        | 1059      | 76        |             |
|                |              |     |  | 4693        | 247.25         | 248.34       | 1.09  |      | 235       | .4        | 938       | 110       |             |













## 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<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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 quartz veining. Blocky core, shear zone. From 10.84 to 11.24m minor white quartz vein cutting diorite. | 4903        | 63.40             | 64.92  | 1.52  |      | 64        | .2        | 21        | 104       |             |
|                |              |     |  | 4904        | 64.92             | 66.14  | 1.22  |      | 65        | .2        | 37        | 99        |             |
|                |              |     |  | 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 composition, non-magnetic, trace disseminated pyrite.   | 4906        | 67.51             | 68.84  | 1.33  |      | 85        | .3        | 153       | 97        |             |
|                |              |     |  | 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 zone.   | 4909        | 78.00             | 78.88  | 0.88  |      | 67        | .3        | 16        | 98        |             |
|                |              |     |  | 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 disseminated pyrite, minor dykelets of granitic porphyry.   | 4916        | 84.83             | 85.95  | 1.12  |      | 126       | .7        | 696       | 85        |             |
|                |              |     |  | 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       |             |

## TAKLA-RAINBOW PROPERTY

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| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|---|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |   |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |
| 63.40          | 67.51        |     | Andesite, dark green, cut by numerous pink granite porphyry dykelettes, abundant epidote alteration, trace pyrite, no quartz veining. | 4923        | 104.22            | 105.82 | 1.60  |      | 345       | .6        | 456       | 82        |             |
|                |              |     |   | 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 thick 0.5cm quartz veinlet running along the core.   | 4926        | 116.89            | 118.50 | 1.61  |      | 56        | .3        | 80        | 51        |             |
|                |              |     |   | 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 veining, trace pyrite.  | 4930        | 121.75            | 122.53 | 0.78  |      | 39        | .4        | 165       | 116       |             |
|                |              |     |   | 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 porphyry, disseminated pyrite 2-3%, rare quartz veinlets.      | 4933        | 124.45            | 125.57 | 1.12  |      | 19        | .3        | 33        | 97        |             |
|                |              |     |   | 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 axis.   | 4936        | 127.90            | 128.52 | 0.62  |      | 23        | .1        | 18        | 50        |             |
|                |              |     |   | 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, disseminated pyrite 5%, rare quartz veinlets.                  | 4939        | 131.98            | 133.50 | 1.52  |      | 9         | .3        | 7         | 47        |             |
|                |              |     |   | 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 pyrite and quartz veinlets.                                   | 4942        | 136.25            | 137.69 | 1.44  |      | 83        | .6        | 215       | 50        |             |
|                |              |     |   | 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, trace pyrite.  | 4945        | 147.22            | 148.44 | 1.22  |      | 50        | .4        | 118       | 110       |             |
|                |              |     |   | 4946        | 156.68            | 158.20 | 1.52  |      | 19        | .1        | 13        | 23        |             |
|                |              |     |   | 4947        | 158.20            | 159.72 | 1.52  |      | 120       | .3        | 8         | 36        |             |

## TAKLA-RAINBOW PROPERTY

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| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|---|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |   |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |
| 97.06          | 98.66        |     | Dark green andesite with pink bands of granitic porphyry, minor white quartz veinlets, trace pyrite.                              | 4948        | 159.72            | 160.76 | 1.04  |      | 22        | .1        | 10        | 36        |             |
|                |              |     |   | 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 throughout, some jasperoid mauve coloured, trace pyrite. | 4954        | 202.08            | 203.55 | 1.47  |      | 1         | .1        | 6         | 87        |             |
|                |              |     |   | 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 content 8%, brecciated locally.                          | 4967        | 224.64            | 226.16 | 1.52  |      | 112       | .5        | 302       | 107       |             |
|                |              |     |   | 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        |             |

## TAKLA-RAINBOW PROPERTY

DDH26A

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| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|---|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |   |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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-<br>dote, trace pyrite.        | 4980        | 267.40            | 268.90 | 1.50  |      | 21        | .3        | 301       | 48        |             |
|                |              |     |   | 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<br>pyrite 8%.                      | 4985        | 274.51            | 276.00 | 1.49  |      | 14        | .1        | 52        | 39        |             |
|                |              |     |   | 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<br>pyrite.                          | 4988        | 279.00            | 280.40 | 1.40  |      | 28        | .1        | 206       | 42        |             |
|                |              |     |   | 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-<br>out. Pyrite content 8-10%. | 4993        | 288.65            | 290.05 | 1.40  |      | 6         | .2        | 53        | 45        |             |
|                |              |     |   | 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<br>pyrite.                         | 4996        | 294.34            | 296.44 | 2.10  |      | 90        | .4        | 178       | 41        |             |
|                |              |     |   | 4997        | 296.44            | 297.29 | 0.85  |      | 11        | .4        | 82        | 88        |             |
|                |              |     |   | 4998        | 297.29            | 298.59 | 1.30  |      | 4         | .5        | 36        | 95        |             |















## 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<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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 laths 1-5mm in length. Occasional white quartz veinlets. From 21.60m to 23.10m sheared, blocky core. | 4699        | 58.34             | 58.90  | 0.56  |      | 785       | .5        | 10        | 40        | 0.022       |
|                |              |     |  | 4700        | 58.90             | 59.45  | 0.55  |      | 420       | 1.3       | 13        | 47        |             |
|                |              |     |  | 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 37.80m, sheared, broken core. From 39.00 to 39.60m disseminated pyrite 3%.                            | 4707        | 105.64            | 106.12 | 0.48  |      | 86        | .1        | 11        | 36        |             |
|                |              |     |  | 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, inclusions of fine grained volcanic.   | 4712        | 111.20            | 111.90 | 0.70  |      | 49        | .1        | 32        | 100       |             |
|                |              |     |  | 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 throughout the unit, rare thin quartz veinlets, no sulphides visible.                                      | 4715        | 121.28            | 122.37 | 1.09  |      | 59        | .2        | 127       | 46        |             |
|                |              |     |  | 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 the core. No visible sulphides or only trace amount of pyrite present.                                | 4718        | 125.57            | 127.15 | 1.58  |      | 127       | .3        | 212       | 94        |             |
|                |              |     |  | 4719        | 127.15            | 127.80 | 0.65  |      | 100       | .4        | 64        | 79        |             |
|                |              |     |  | 4720        | 127.80            | 128.50 | 0.70  |      | 82        | .1        | 42        | 83        |             |

## TAKLA-RAINBOW PROPERTY

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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<br>pyrite 6-8%.                                 | 4723        | 130.34            | 131.12 | 0.86  |      | 97        | .2        | 80        | 122       |             |
|                |              |     |  | 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,<br>trace pyrite.                             | 4726        | 132.30            | 132.92 | 0.62  |      | 29        | .1        | 30        | 140       |             |
|                |              |     |  | 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°<br>to core axis.                              | 4729        | 135.14            | 135.67 | 0.53  |      | 86        | .1        | 87        | 97        |             |
|                |              |     |  | 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<br>length set in greyish fine grained matrix. | 4732        | 138.55            | 139.70 | 1.15  |      | 52        | .4        | 279       | 118       |             |
|                |              |     |  | 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%,<br>disseminated pyrite 5-8%.                 | 4743        | 148.10            | 148.80 | 0.70  |      | 187       | .1        | 321       | 57        |             |
|                |              |     |  | 4744        | 148.80            | 149.45 | 0.65  |      | 79        | .3        | 95        | 71        |             |
|                |              |     |  | 4745        | 149.45            | 150.00 | 0.55  |      | 104       | .4        | 112       | 79        |             |

## TAKLA-RAINBOW PROPERTY

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |
| 111.90         | 119.15       |     | Diorite porphyry, grey-green, epidote concentrations locally, disseminated pyrite 1-2%.  | 4746        | 150.00            | 151.48 | 0.48  |      | 97        | .6        | 244       | 61        |             |
|                |              |     |  | 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 3-5%.  | 4749        | 158.95            | 160.35 | 1.40  |      | 163       | .4        | 1344      | 93        |             |
|                |              |     |  | 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 volcanic, occasional quartz veinlets, disseminated pyrite 5%. | 4760        | 173.62            | 174.80 | 1.18  |      | 86        | .1        | 130       |           |             |
|                |              |     |  | 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, disseminated pyrite 2%.   | 4763        | 196.55            | 197.65 | 1.10  |      | 39        | .9        | 331       | 84        |             |
|                |              |     |  | 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 cut by quartz-pyrite-epidote veinlets. Pyrite content 15-18%. | 4766        | 199.55            | 199.88 | 0.33  |      | 23        | .1        | 123       | 94        |             |
|                |              |     |  | 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 of grey quartz throughout.                                  | 4769        | 202.15            | 204.43 | 2.28  |      | 33        | .7        | 162       | 72        |             |
|                |              |     |  | 4770        | 204.43            | 206.15 | 1.72  |      | 22        | .6        | 345       | 70        |             |
|                |              |     |  | 4771        | 206.15            | 207.65 | 1.50  |      | 125       | .7        | 240       | 99        |             |

## TAKLA-RAINBOW PROPERTY

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |
| 146.77         | 148.10       |     | Andesite, dark green, chloritic, minor quartz veinlets, disseminated pyrite 5%.  | 4772        | 207.65            | 208.95 | 1.30  |      | 113       | .4        | 149       | 99        |             |
|                |              |     |  | 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 pyrite.  | 4775        | 210.60            | 211.80 | 1.20  |      | 35        | .3        | 59        | 112       |             |
|                |              |     |  | 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, disseminated pyrite 8%.   | 4778        | 213.90            | 215.50 | 1.60  |      | 51        | .3        | 209       | 107       |             |
|                |              |     |  | 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 by light green, epidote-quartz-pyrite veinlets. Pyrite content 8%. | 4787        | 222.19            | 223.71 | 1.52  |      | 85        | .3        | 232       | 87        |             |
|                |              |     |  | 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 quartz veinlets.   | 4792        | 227.69            | 228.64 | 0.95  |      | 230       | .5        | 706       | 160       |             |
|                |              |     |  | 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 quartz veinlets throughout.   | 4795        | 230.16            | 231.06 | 0.90  |      | 44        | .2        | 217       | 52        |             |
|                |              |     |  | 4796        | 231.06            | 232.56 | 1.50  |      | 35        | .1        | 92        | 65        |             |
|                |              |     |  | 4797        | 241.35            | 241.91 | 0.56  |      | 17        | .1        | 20        | 47        |             |









## 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

PAGE : 1 of 5  
 LOGGED BY : R. Pesalj  
 DATE : September 10/87  
 CORE STORED : At the camp  
 UNUSUAL FEAT.:

| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |       | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|---|-------------|-------------------|-------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |   |             |                   |       |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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 white quartz veinlets, no visible sulphides, slightly magnetic. At 5.90m narrow fault, crushed and pulverized basalt, stained by iron oxides. | 4803        | 49.75             | 50.70 | 0.95  |      | 47        | .5        | 355       | 143       |             |
|                |              |     |   | 4804        | 62.76             | 63.09 | 0.33  |      | 49        | .1        | 51        | 78        |             |
|                |              |     |   | 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 veinlets and irregular patches. The unit is slightly magnetic.   | 4813        | 67.76             | 69.08 | 1.32  |      | 23        | .8        | 254       | 156       |             |
|                |              |     |   | 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 pyrite.  | 4816        | 74.57             | 76.50 | 1.93  |      | 245       | 1.0       | 176       | 245       |             |
|                |              |     |   | 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 quartz veinlets, trace pyrite, abundant epidote.  | 4819        | 82.60             | 83.20 | 0.60  |      | 92        | .4        | 142       | 116       |             |
|                |              |     |   | 4820        | 85.25             | 85.75 | 0.50  |      | 86        | 1.5       | 766       | 133       |             |
|                |              |     |   | 4821        | 85.75             | 87.27 | 1.52  |      | 27        | .6        | 155       | 165       |             |









## 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

PAGE : 1 of 3  
 LOGGED BY : R. Pesalj  
 DATE : September 13/87  
 CORE STORED : At the camp  
 UNUSUAL FEAT.:

| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |           | Lgth. | Rec. | Analysis  |           |             |     |       |
|----------------|--------------|-----|--|-------------|-------------------|-----------|-------|------|-----------|-----------|-------------|-----|-------|
|                |              |     |  |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Au<br>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 grained matrix and plagioclase and minor quartz phenocrysts.   | 4843        | 24.60             | 25.35     | 0.75  |      | 6080      | .7        | 435         | 119 | 0.177 |
|                |              |     |  | 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 bleached. At 23.57m quartz veinlet at 30° to core axis. Thin white quartz veinlets from 21.33 to 24.60m, trace pyrite. | 4846        | 31.09             | 32.81     | 1.72  |      | 146       | .1        | 91          | 107 |       |
|                |              |     |  | 4847        | 32.81             | 33.51     | 0.70  |      | 310       | .4        | 62          | 61  |       |
|                |              |     |  | 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 by quartz. Pyrite content less than 1%.  | 4850        | 38.08             | 38.40     | 0.32  |      | 230       | .1        | 28          | 27  |       |
|                |              |     |  | 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 and quartz veining.  | 4855        | 58.83             | 59.80     | 0.97  |      | 59        | .1        | 146         | 94  |       |
|                |              |     |  | 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. Disseminated pyrite in vein 3-5%.  | 4858        | 63.09             | 64.61     | 1.52  |      | 38        | .1        | 151         | 45  |       |
|                |              |     |  | 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 37.68m white quartz vein 1cm wide along the core. Minor disseminated pyrite.   | 4861        | 67.21             | 68.60     | 1.39  |      | 156       | .2        | 320         | 81  |       |
|                |              |     |  | 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

Page 2 of 3

| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|---|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |   |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |
| 37.68          | 56.47        |     | Diorite porphyry, grey, plagioclase phenocrysts to 1cm in length in grey,<br>fine grained matrix.                           | 4865        | 72.29             | 72.99  | 0.70  |      | 550       | .6        | 22        | 29        |             |
|                |              |     |   | 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<br>pyrite 3%.   | 4872        | 100.34            | 101.24 | 0.90  |      | 53        | .1        | 132       | 62        |             |
|                |              |     |   | 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.<br>The vein is 1-3cm wide, running along the core. | 4877        | 106.23            | 106.98 | 0.75  |      | 36        | .2        | 90        | 112       |             |
|                |              |     |   | 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<br>pyrite 2%.  | 4880        | 110.03            | 111.67 | 1.64  |      | 48        | .4        | 110       | 132       |             |
|                |              |     |   | 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<br>section.  | 4883        | 114.68            | 116.20 | 1.52  |      | 47        | .2        | 30        | 131       |             |
|                |              |     |   | 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        |             |



## 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

PAGE : 1 of 11  
 LOGGED BY : D. Gorc  
 DATE : September 21/87  
 CORE STORED : Campsite  
 UNUSUAL FEAT.:

| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |       | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|-------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |       |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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% mafics chloritized; occasional quartz veins at 30°-45° core angle (less than 1 per metre); 0.5 to 1% disseminated pyrite in 10-20cm patches but overall only trace pyrite; local hematitic seams; some sections are dark green chloritic; occasional feldspar phenocrysts are sericitized. | 7006        | 20.20             | 21.80 | 1.60  |      | 7         | .1        | 5         | 54        |             |
|                |              |     |  | 7007        | 21.80             | 23.20 | 1.40  |      | 44        | .3        | 15        | 304       |             |
|                |              |     |  | 7008        | 23.20             | 24.70 | 1.50  |      | 58        | .3        | 16        | 157       |             |
|                |              |     |  | 7009        | 24.70             | 26.00 | 1.30  |      | 42        | .4        | 12        | 148       |             |
|                |              |     |  | 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% disseminated pyrite; occasional 1cm silicified patches but rare; occasional spotty epidote but rare.   | 7015        | 29.87             | 31.37 | 1.50  |      | 80        | .4        | 21        | 231       |             |
|                |              |     |  | 7016        | 31.37             | 32.61 | 1.24  |      | 340       | .5        | 20        | 181       |             |
|                |              |     |  | 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       |             |

## TAKLA-RAINBOW PROPERTY

DDH-30

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |       | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|-------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |       |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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        |             |

## TAKLA-RAINBOW PROPERTY

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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        |             |

TAKLA-RAINBOW PROPERTY  
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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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        |     | <b>Granite Porphyry</b>  | 7086        | 134.75            | 136.35 | 1.60  |      | 21        | .1        | 19        | 27        |             |
|                |              |     | Moderately altered and bleached, much of original texture obliterated, 1-2% disseminated pyrite; moderately fractured, core is broken up, only a few quartz veins.   | 7087        | 126.35            | 137.75 | 1.40  |      | 73        | .6        | 366       | 96        |             |
|                |              |     |  | 7088        | 137.75            | 138.60 | 0.85  |      | 79        | .7        | 268       | 128       |             |
|                |              |     |  | 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        |     | <b>Andesite</b>  | 7096        | 151.49            | 152.89 | 1.40  |      | 129       | .3        | 8         | 45        |             |
|                |              |     | Dark green to brownish green, 2-3% disseminated pyrite, minor epidote, slightly fractured.   | 7097        | 152.89            | 154.53 | 1.64  |      | 42        | .3        | 18        | 46        |             |
|                |              |     |  | 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        |     | <b>Diorite Porphyry</b>  | 7102        | 171.60            | 172.82 | 1.22  |      | 29        | .3        | 32        | 64        |             |
|                |              |     | Highly altered and bleached, most of original texture obliterated; only trace disseminated pyrite; a few bluish quartz veins at 5° to 30° core angle; on 77.90 - 78.50m - 1cm quartz veins along core; 83.38 - 83.67 - fault zone gouge. | 7103        | 172.82            | 173.82 | 1.00  |      | 20        | .1        | 8         | 35        |             |
|                |              |     |  | 7104        | 173.82            | 174.40 | 0.58  |      | 48        | .4        | 10        | 23        |             |
|                |              |     |  | 7105        | 174.40            | 175.60 | 1.20  |      | 47        | .3        | 143       | 51        |             |
|                |              |     |  | 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        |     | <b>Andesite</b>  | 7108        | 177.10            | 178.50 | 1.40  |      | 33        | .2        | 53        | 94        |             |
|                |              |     | Fine porphyry intermixed medium grey brownish grey and dark green; moderately fractured, approximately 3 quartz veinlets (0.2cm) per metre; at 30°-40° core angle.   | 7109        | 178.50            | 180.40 | 1.90  |      | 58        | .3        | 68        | 87        |             |
|                |              |     |  | 7110        | 180.40            | 181.05 | 0.65  |      | 360       | .4        | 80        | 26        |             |
|                |              |     |  | 7111        | 181.05            | 181.27 | 0.22  |      | 107       | .2        | 65        | 18        |             |

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| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|---|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |   |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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 angle.  | 7116        | 186.10            | 187.00 | 0.90  |      | 63        | .3        | 100       | 86        |             |
|                |              |     |   | 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; locally brecciated low disseminated pyrite <1%.   | 7120        | 194.16            | 195.30 | 1.14  |      | 153       | .4        | 20        | 70        |             |
|                |              |     |   | 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; occasional zones with 0.5cm feldspar phenocrysts; trace epidote; 1-2% disseminated pyrite. | 7129        | 201.35            | 202.00 | 0.65  |      | 290       | .5        | 660       | 103       |             |
|                |              |     |   | 7130        | 202.00            | 203.00 | 1.00  |      | 220       | .5        | 989       | 132       |             |
|                |              |     |   | 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        |             |















## DRILL RECORD

## IMPERIAL METALS CORPORATION

PROPERTY : Takla-Rainbow

LOCATION : West Drill Grid

CORRECT DIP: - 55°

PAGE : 1 of 9

HOLE NO. : DDH-31

LOC. : 8 + 16E/1 + 45S

TRUE BRG : 045°

LOGGED BY : D. Gorc

COMMENCED: September 21, 1987

ELEV. :

SURVEY AT :

DATE : September 24/87

COMPLETED: September 24, 1987

CORE SIZE: BQ

% RECOVERY : 100%

CORE STORED : At the camp

OBJECTIVE:

LENGTH : 268.83m

UNUSUAL FEAT.:

| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |           | Lgth. | Rec. | Analysis  |           |             |     |       |
|----------------|--------------|-----|---|-------------|-------------------|-----------|-------|------|-----------|-----------|-------------|-----|-------|
|                |              |     |   |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Au<br>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 |       |

## TAKLA-RAINBOW PROPERTY

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |           |
|----------------|--------------|-----|--|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-----------|
|                |              |     |  |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Pb<br>ppm |
|                |              |     | 21.70 - 22.90m - moderate epidote alteration. Sharp lower contact at 45°<br>core angle.  | 7175        | 90.40             | 91.40  | 1.00  |      | 1         | .4        | 8         | 47        |           |
|                |              |     |  | 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<br>magnetic, trace pyrite.  | 7179        | 104.10            | 104.70 | 0.60  |      | 24        | .2        | 51        | 138       |           |
|                |              |     |  | 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<br>clasts to 3mm; dark greenish grey matrix; occasional epidote veinlets and | 7183        | 114.50            | 115.15 | 0.65  |      | 5         | .3        | 4         | 132       |           |
|                |              |     | 10-15 zones of disseminated epidote but such horizons are not common;<br>occasional horizons of fine grained tuff.                                   | 7184        | 118.50            | 118.50 | 0.45  |      | 191       | .4        | 35        | 203       |           |
|                |              |     |  | 7185        | 121.80            | 122.30 | 0.50  |      | 59        | 1.1       | 782       | 108       |           |
|                |              |     |  | 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<br>is sporadically magnetic.   | 7190        | 127.10            | 128.60 | 1.50  |      | 18        | .1        | 208       | 123       |           |
|                |              |     |  | 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<br>quartz.   | 7195        | 133.80            | 135.70 | 1.90  |      | 23        | .2        | 133       | 136       |           |
|                |              |     |  | 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       |           |

## TAKLA-RAINBOW PROPERTY

DDH-31

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |           |
|----------------|--------------|-----|--|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-----------|
|                |              |     |  |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Pb<br>ppm |
|                |              |     | 39.60 - 40.50m - low epidote alteration in patches 0.5 to 1% disseminated pyrite.                                      | 7200        | 158.10            | 159.70 | 1.60  |      | 10        | .1        | 12        | 127       |           |
|                |              |     |  | 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; 2-4% disseminated pyrite alongside.          | 7205        | 176.50            | 177.60 | 1.10  |      | 1         | .4        | 154       | 89        |           |
|                |              |     |  | 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 alongside.                                     | 7208        | 187.20            | 188.60 | 1.40  |      | 1         | .2        | 6         | 86        |           |
|                |              |     |  | 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 chlorite pyrite; 2-4% disseminated pyrite alongside vein. | 7211        | 190.00            | 191.10 | 1.10  |      | 1         | .3        | 19        | 54        |           |
|                |              |     |  | 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 chlorite 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 of greyish quartz to 51.70m.               | 7216        | 201.55            | 202.95 | 1.40  |      | 1         | .4        | 20        | 77        |           |
|                |              |     |  | 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 chlorite; 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        |           |















## 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<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |           | Lgth. | Rec. | Analysis  |           |             |     |  |
|----------------|--------------|-----|---|-------------|-------------------|-----------|-------|------|-----------|-----------|-------------|-----|--|
|                |              |     |   |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Au<br>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 pyrite.  | 7238        | 7.50              | 8.50      | 1.00  |      | 35        | .3        | 28          | 107 |  |
|                |              |     |   | 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 minor patchy epidote; minor chlorite filled fractures; unit is cut by numerous thin calcite veinlets, unit is magnetic; trace pyrite. | 7246        | 26.32             | 26.82     | 0.50  |      | 25        | .5        | 115         | 241 |  |
|                |              |     |   | 7247        | 32.61             | 33.01     | 0.40  |      | 81        | .6        | 79          | 191 |  |
|                |              |     |   | 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 |  |

## TAKLA-RAINBOW PROPERTY

DDH-32

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| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |           | Lgth. | Rec. | Analysis  |           |             |     |       |
|----------------|--------------|-----|---|-------------|-------------------|-----------|-------|------|-----------|-----------|-------------|-----|-------|
|                |              |     |   |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |     |       |
|                |              |     | 14.33 - 15.23m - 1% disseminated pyrite plus minor epidote along some fractures.  | 7256        | 43.50             | 44.00     | 0.50  |      | 330       | 1.4       | 197         | 155 |       |
|                |              |     |   | 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 pyrite; local 1cm to 0.5m sections with 1% disseminated pyrite but not numerous. | 7267        | 61.64             | 62.64     | 1.00  |      | 33        | .1        | 5           | 77  |       |
|                |              |     |   | 7268        | 62.64             | 62.94     | 0.30  |      | 215       | .4        | 7           | 112 |       |
|                |              |     |   | 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 alteration alongside fracture.  | 7273        | 107.40            | 107.80    | 0.40  |      | 1         | .3        | 8           | 84  |       |
|                |              |     |   | 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  |       |

















## 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

PAGE : 1 of 15  
 LOGGED BY : D. Gorc  
 DATE : October 4, 1987  
 CORE STORED : Campsite  
 UNUSUAL FEAT.:

| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |           | Lgth. | Rec. | Analysis  |           |             |     |       |
|----------------|--------------|-----|--|-------------|-------------------|-----------|-------|------|-----------|-----------|-------------|-----|-------|
|                |              |     |  |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Au<br>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 few thin quartz veinlets at 45° to 80° core angle; trace pyrite. | 7301        | 13.20             | 14.60     | 1.40  |      | 76        | 7.9       | 6086        | 157 |       |
|                |              |     |  | 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 feldspar phenocrysts to 1cm; trace pyrite.                      | 7305        | 47.65             | 47.90     | 0.25  |      | 110       | .3        | 30          | 39  |       |
|                |              |     |  | 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; irregular 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 pyrite; units is not magnetic.                                     | 7314        | 62.00             | 62.40     | 0.40  |      | 140       | .3        | 167         | 125 |       |
|                |              |     |  | 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  |       |



## TAKLA-RAINBOW PROPERTY

DDH-33

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From<br>Meters | To<br>Meters | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|----------------|--------------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                |              |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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       |             |

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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       |             |

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| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |           | Lgth. | Rec. | Analysis  |           |             |     |  |
|----------------|--------------|-----|---|-------------|-------------------|-----------|-------|------|-----------|-----------|-------------|-----|--|
|                |              |     |   |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |     |  |
|                |              |     | 62.00 - 62.40m - 1% disseminated pyrite; a few very thin quartz veins with pyrite.                                      | 7373        | 290.50            | 290.90    | 0.40  |      | 22        | .7        | 435         | 81  |  |
|                |              |     |   | 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 chalcopryrite 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 epidote; approximately 1 zone every 3 metres. | 7382        | 304.10            | 305.60    | 1.50  |      | 43        | .1        | 37          | 94  |  |
|                |              |     |   | 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 tuff; minor amounts.                            | 7385        | 308.80            | 309.10    | 0.30  |      | 45        | .1        | 75          | 115 |  |
|                |              |     |   | 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 chalcopryrite.  | 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  |  |

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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        |             |

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|----------------|--------------|-----|--|-------------|-------------------|-----------|-------|------|-----------|-----------|-------------|----|-------|
|                |              |     |  |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Au<br>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       |     | <b>Diorite Porphyry</b>  | 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       |     | <b>Andesite</b>  | 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 |       |

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |           | Lgth. | Rec. | Analysis  |           |             |    |  |
|----------------|--------------|-----|--|-------------|-------------------|-----------|-------|------|-----------|-----------|-------------|----|--|
|                |              |     |  |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Au<br>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 |  |

## TAKLA-RAINBOW PROPERTY

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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       |     | <b>Granite Porphyry</b>  | 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       |     | <b>Basalt</b>  | 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       |     | <b>Granite Porphyry</b>  | 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       |             |

















## 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<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |           | Lgth. | Rec. | Analysis  |           |             |     |       |
|----------------|--------------|-----|--|-------------|-------------------|-----------|-------|------|-----------|-----------|-------------|-----|-------|
|                |              |     |  |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Au<br>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 very poor core recovery.  | 7465        | 7.62              | 8.53      | 0.91  | 50%  | 39        | .8        | 740         | 141 |       |
|                |              |     |  | 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 difficult to decipher; dark green matrix mottled with light green epidote; low to moderate disseminated epidote; very fractural and brecciated; 4-8% disseminated pyrite; only very minor quartz veining. Unit is magnetic. | 7468        | 10.37             | 11.28     | 0.91  |      | 11        | .4        | 22          | 145 |       |
|                |              |     |  | 7469        | 11.28             | 13.11     | 1.83  | 90%  | 8         | .2        | 58          | 132 |       |
|                |              |     |  | 7470        | 13.11             | 15.55     | 2.44  | 40%  | 23        | .1        | 25          | 53  |       |
|                |              |     |  | 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 silica with 15% pyrite; minor quartz veins with chalcopyrite.  | 7479        | 24.84             | 25.90     | 1.06  |      | 103       | .3        | 289         | 103 |       |
|                |              |     |  | 7480        | 25.90             | 27.43     | 1.53  |      | 32        | .3        | 27          | 102 |       |
|                |              |     |  | 7481        | 27.43             | 29.57     | 2.14  | 25%  | 45        | .1        | 31          | 108 |       |

## TAKLA-RAINBOW PROPERTY

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |       | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|-------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |       |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |
|                |              |     | 23.00m - start of zone with very minor epidote; rare patches of pinkish alteration (K-spar).   | 7482        | 29.57             | 30.40 | 0.83  |      | 64        | .2        | 124       | 80        |             |
|                |              |     |  | 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; trace pyrite.   | 7489        | 36.80             | 38.10 | 1.30  |      | 42        | .1        | 88        | 49        |             |
|                |              |     |  | 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 phenos to 1cm; rock is altered to light grey; alteration is not intense, | 7506        | 83.50             | 84.30 | 0.80  |      | 88        | .2        | 20        | 50        |             |
|                |              |     | but rock is completely altered; 0.5% disseminated pyrite to 1% disseminated  | 7507        | 87.30             | 88.30 | 1.00  |      | 33        | .4        | 70        | 47        |             |
|                |              |     | pyrite; very minor quartz veining; some pyrite with quartz veining.  | 7508        | 89.30             | 89.90 | 0.60  |      | 35        | .3        | 24        | 43        |             |
|                |              |     |  | 7509        | 89.90             | 90.20 | 0.30  | 70%  | 39        | .1        | 27        | 38        |             |



## TAKLA-RAINBOW PROPERTY

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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        |             |

## TAKLA-RAINBOW PROPERTY

DDH-34

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>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; slightly altered; edges of phenocrysts are fuzzy; 1-2% disseminated pyrite.  | 7540        | 181.10            | 182.15 | 1.05  |      | 1335      | 3.8       | 7586      | 77        | 0.036       |
|                |              |     |  | 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 patches of epidote; occasional pinkish alteration along some fractures; 3-6% disseminated pyrite.  | 7545        | 215.75            | 216.85 | 1.10  |      | 70        | .2        | 53        | 47        |             |
|                |              |     |  | 7546        | 216.85            | 217.45 | 0.60  |      | 205       | .6        | 232       | 58        |             |
|                |              |     |  | 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; trace epidote; 2% disseminated pyrite; occasional 1cm K-spar alteration zones along fractures.   | 7549        | 219.30            | 220.50 | 1.20  |      | 58        | .3        | 58        | 79        |             |
|                |              |     |  | 7550        | 225.80            | 226.52 | 0.72  |      | 245       | .6        | 417       | 95        |             |
|                |              |     |  | 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; clasts to 1mm; occasionally 2mm; low epidote; zone sections of moderate epidote; 3-6% disseminated pyrite; occasional pinkish K-spar alteration along some fractures; may include dikelets of diorite porphyry?? YES from 5cm to 30cm thick. | 7553        | 227.69            | 228.69 | 1.00  |      | 250       | .2        | 300       | 100       |             |
|                |              |     |  | 7554        | 149.96            | 151.49 | 1.53  |      | 49        | .3        | 84        | 43        |             |
|                |              |     |  | 7555        | 151.49            | 153.01 | 1.52  |      | 70        | .1        | 38        | 50        |             |
|                |              |     |  | 7556        | 153.01            | 154.53 | 1.52  |      | 41        | .1        | 161       | 69        |             |
|                |              |     |  | 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        |             |

## TAKLA-RAINBOW PROPERTY

DDH-34

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |
|                |              |     | 121.00 - 123.50m - predominantly grey diorite porphyry can be difficult to decipher andesite from intrusive.   | 7563        | 162.99            | 164.51 | 1.52  |      | 101       | .1        | 16        | 52        |             |
|                |              |     |  | 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 slightly sericitized; locally greenish sericite appearance to rock large feldspar phenos to 1cm; most of feldspar phenos altered to sericite; prominent quartz eyes to 0.5cm. No pyrite. | 7566        | 167.64            | 169.25 | 1.61  |      | 102       | .1        | 32        | 54        |             |
|                |              |     |  | 7567        | 169.25            | 170.69 | 1.44  |      | 320       | .4        | 2336      | 75        |             |
|                |              |     |  | 7568        | 175.00            | 176.00 | 1.00  |      | 48        | .2        | 18        | 24        |             |
|                |              |     |  | 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 numerous quartz veinlets, specks of pyrite throughout, disseminated pyrite 3-5%. Toward the bottom the unit gets coarser grained, locally porphyritic.  | 7571        | 182.45            | 183.97 | 1.52  |      | 210       | 1.0       | 902       | 44        |             |
|                |              |     |  | 7572        | 183.97            | 185.40 | 1.43  |      | 142       | .1        | 99        | 106       |             |
|                |              |     |  | 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 disseminations of pyrite 3-5%, local sections of highly chloritic intrusive. White plagioclase phenocrysts throughout.  | 7575        | 187.91            | 189.43 | 1.52  |      | 62        | .3        | 18        | 123       |             |
|                |              |     |  | 7576        | 189.43            | 191.03 | 1.60  |      | 42        | .1        | 47        | 120       |             |
|                |              |     |  | 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. Light brecciation with chlorite filled fractures common.  | 7579        | 194.58            | 195.58 | 1.00  |      | 71        | .2        | 25        | 117       |             |
|                |              |     |  | 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 minor chalcopyrite 8-10%.  | 7582        | 197.80            | 198.73 | 0.93  |      | 41        | .9        | 376       | 142       |             |
|                |              |     |  | 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        |             |

## TAKLA-RAINBOW PROPERTY

DDH-34

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| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |           | Lgth. | Rec. | Analysis  |           |             |    |       |
|----------------|--------------|-----|---|-------------|-------------------|-----------|-------|------|-----------|-----------|-------------|----|-------|
|                |              |     |   |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |    |       |
| 180.10         | 182.15       |     | Diorite porphyry, green, chloritic, cut by quartz-pyrite-chalcopyrite veinlets. Pyrite content 8-10%, chalcopyrite trace. | 7588        | 224.30            | 225.10    | 0.80  |      | 240       | .2        | 81          | 67 |       |
|                |              |     |   | 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 veinlets.   | 7602        | 316.30            | 317.90    | 1.60  |      | 153       | .1        | 356         | 78 |       |
|                |              |     |   | 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 at 25-30° to core axis.                         | 7605        | 337.94            | 339.30    | 1.36  |      | 181       | 18.0      | 244         | 73 |       |
|                |              |     |   | 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 veinlets from 204.00 to 204.40m.                    | 7608        | 340.76            | 342.28    | 1.52  |      | 52        | .4        | 70          | 62 |       |
|                |              |     |   | 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 shear zone, broken core.                          | 7611        | 348.72            | 349.60    | 0.88  |      | 1630      | .1        | 109         | 42 | 0.047 |
|                |              |     |   | 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 minor quartz. Disseminated and stringer pyrite 15%.  | 7614        | 350.85            | 351.29    | 0.44  |      | 385       | .2        | 379         | 45 |       |
|                |              |     |   | 7615        | 351.29            | 351.95    | 0.66  |      | 185       | .2        | 136         | 49 |       |
|                |              |     |   | 7616        | 381.49            | 382.43    | 0.94  |      | 51        | .4        | 209         | 85 |       |













## 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<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|---|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |   |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |
| 0.00           | 9.91         |     | Overburden. Angular fragments of andesitic volcanics, talus, soil. BW casing.   | 7684        | 131.00            | 132.70 | 1.70  |      | 26        | .3        | 278       | 194       |             |
|                |              |     |   | 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, shear zone. Core recovery only 20%. Trace disseminated pyrite, no quartz veining.  | 7687        | 136.85            | 137.80 | 0.95  |      | 220       | 1.9       | 623       | 1603      |             |
|                |              |     |   | 7688        | 137.80            | 138.47 | 0.67  |      | 66        | 1.0       | 445       | 512       |             |
|                |              |     |   | 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 zone. Epidote occasionally along the fractures, trace pyrite, no quartz veining, minor epidote along fractures.                | 7691        | 140.35            | 141.58 | 1.20  |      | 29        | .6        | 507       | 126       |             |
|                |              |     |   | 7692        | 141.58            | 142.68 | 1.10  |      | 24        | 1.2       | 666       | 140       |             |
|                |              |     |   | 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 throughout. Few large K-spar phenocrysts to 15mm across. Slight alteration in form of bleaching at the lower contact. No pyrite visible. | 7695        | 239.65            | 241.42 | 1.77  |      | 11        | .3        | 98        | 137       |             |
|                |              |     |   | 7696        | 270.26            | 270.60 | 0.34  |      | 3         | .3        | 277       | 64        |             |
|                |              |     |   | 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 porphyritic, epidote along fractures, no sulphides visible. The core is moderately broken.  | 7699        | 292.83            | 293.11 | 0.28  |      | 26        | .6        | 37        | 71        |             |
|                |              |     |   | 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 epidote coated fragments. The core is moderately magnetic.   | 7703        | 374.08            | 374.48 | 0.40  |      | 9         | .2        | 159       | 80        |             |
|                |              |     |   | 7704        | 387.30            | 387.89 | 0.59  |      | 3         | .2        | 225       | 54        |             |
|                |              |     |   | 7705        | 390.50            | 392.10 | 1.60  |      | 48        | .5        | 327       | 71        |             |















## 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<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |           | Lgth. | Rec. | Analysis  |           |             |     |  |
|----------------|--------------|-----|--|-------------|-------------------|-----------|-------|------|-----------|-----------|-------------|-----|--|
|                |              |     |  |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Au<br>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, chloritic, cut by few white quartz veinlets. Epidote in form of specks and fracture filling throughout. Disseminated pyrite less than 1%. The unit is magnetic. | 7717        | 56.39             | 57.69     | 1.30  |      | 8         | .1        | 33          | 139 |  |
|                |              |     |  | 7718        | 65.50             | 66.35     | 0.85  |      | 5         | .3        | 239         | 66  |  |
|                |              |     |  | 7719        | 75.20             | 76.20     | 1.00  |      | 76        | .4        | 107         | 90  |  |
|                |              |     |  | 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. The upper contact sharp at 30°. Minor white quartz veinlets, no sulphides visible. From 42.00 to 42.33m soft, bleached, fault contact.                          | 7722        | 143.38            | 144.78    | 1.40  |      | 175       | .3        | 106         | 162 |  |
|                |              |     |  | 7723        | 144.78            | 145.78    | 1.00  |      | 57        | .2        | 96          | 91  |  |
|                |              |     |  | 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 filled fractures, not magnetic.  | 7726        | 181.82            | 183.49    | 1.67  |      | 11        | .2        | 56          | 275 |  |
|                |              |     |  | 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 throughout, no pyrite.   | 7731        | 196.90            | 198.30    | 1.40  |      | 2         | .1        | 10          | 86  |  |
|                |              |     |  | 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  |      |           |           |             |     |  |

## TAKLA-RAINBOW PROPERTY

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| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|---|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |   |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |
| 85.95          | 139.70       |     | Sheared andesite, dark green with light green epidote coated fractures throughout, badly broken, blocky core.   | 7738        | 303.88            | 305.40 | 1.52  |      | 3         | .1        | 100       | 111       |             |
|                |              |     |   | 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, veinlets throughout.   | 7741        | 326.23            | 327.75 | 1.52  |      | 3         | .2        | 85        | 90        |             |
|                |              |     |   | 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 visible.  | 7746        | 360.80            | 361.80 | 1.00  |      | 6         | .1        | 90        | 82        |             |
|                |              |     |   | 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 epidote veinlets. From 154.53m shear zone, badly broken, blocky core. From 158.98 to 159.48m disseminated pyrite in quartz veinlets cutting andesite. Pyrite content 8-10%. | 7751        | 366.06            | 368.30 | 2.24  |      | 2         | .2        | 45        | 31        |             |
|                |              |     |   | 7752        | 368.30            | 370.00 | 0.70  |      | 35        | .2        | 67        | 37        |             |
|                |              |     |   | 7753        | 370.00            | 371.00 | 1.00  |      | 18        | .3        | 36        | 40        |             |
|                |              |     |   | 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 167.80m quartz in vug, minor disseminated pyrite.   | 7756        | 389.62            | 390.74 | 1.12  |      | 16        | .2        | 76        | 41        |             |
|                |              |     |   | 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, badly broken core from 169.01 to 176.00m.  | 7759        | 396.77            | 397.77 | 1.00  |      | 216       | .5        | 144       | 47        |             |
|                |              |     |   | 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        |             |















## 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

PAGE : 1 of 4  
 LOGGED BY : R.Pesalj  
 DATE : October 26/87  
 CORE STORED : At the camp  
 UNUSUAL FEAT.:

| From<br>Meters | To<br>Meters | Syb | Description   | Smp.<br>No. | From To<br>Meters |           | Lgth. | Rec. | Analysis  |           |             |     |       |
|----------------|--------------|-----|---|-------------|-------------------|-----------|-------|------|-----------|-----------|-------------|-----|-------|
|                |              |     |   |             | Au<br>ppb         | Ag<br>ppm |       |      | Cu<br>ppm | Zn<br>ppm | Au<br>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 1%, rare white quartz veinlets, minor specks of epidote. | 7784        | 24.30             | 25.82     | 1.52  |      | 54        | .3        | 31          | 92  |       |
|                |              |     |   | 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 along core. Disseminated pyrite 2-3%.                  | 7787        | 31.42             | 32.65     | 1.23  |      | 72        | .3        | 94          | 114 |       |
|                |              |     |   | 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 pyrite.   | 7792        | 45.60             | 46.60     | 1.00  |      | 82        | .1        | 62          | 159 |       |
|                |              |     |   | 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, trace pyrite.   | 7795        | 49.00             | 49.70     | 0.70  |      | 97        | .2        | 46          | 109 |       |
|                |              |     |   | 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 content 5-8%.  | 7801        | 64.96             | 65.83     | 0.87  |      | 43        | .2        | 16          | 60  |       |
|                |              |     |   | 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

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| From<br>Meters | To<br>Meters | Syb | Description  | Smp.<br>No. | From To<br>Meters |        | Lgth. | Rec. | Analysis  |           |           |           |             |
|----------------|--------------|-----|--|-------------|-------------------|--------|-------|------|-----------|-----------|-----------|-----------|-------------|
|                |              |     |  |             |                   |        |       |      | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | Zn<br>ppm | Au<br>oz/tn |
| 44.80          | 49.70        |     | Andesite, dark green, chloritic, fine grained, massive. Disseminated pyrite 5-8%. From 46.60 to 47.55m quartz veinlets abundant, speck of chalcopyrite 1cm across at 44.80m. | 7804        | 81.32             | 81.82  | 0.50  |      | 280       | .4        | 250       | 87        |             |
|                |              |     |  | 7805        | 81.82             | 82.82  | 1.00  |      | 650       | .8        | 804       | 54        | 0.020       |
|                |              |     |  | 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, trace pyrite.  | 7812        | 90.25             | 91.05  | 0.80  |      | 2440      | 2.5       | 494       | 61        | 0.073       |
|                |              |     |  | 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 veinlets at 0° to 30° to core axis. Disseminated pyrite in veinlets and volcanic 8%.                 | 7815        | 93.90             | 94.40  | 0.70  |      | 550       | .8        | 603       | 119       | 0.014       |
|                |              |     |  | 7816        | 94.40             | 96.00  | 1.60  |      | 360       | .4        | 221       | 45        |             |
|                |              |     |  | 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 veining. From 73.45m badly broken core, shear zone.  | 7819        | 99.00             | 99.46  | 0.46  |      | 440       | .4        | 54        | 71        |             |
|                |              |     |  | 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 quartz veining.   | 7822        | 100.76            | 101.50 | 0.75  |      | 610       | .8        | 312       | 57        | 0.017       |
|                |              |     |  | 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 pyrite 3-5%.   | 7825        | 110.70            | 112.10 | 1.40  |      | 210       | .5        | 511       | 51        |             |
|                |              |     |  | 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        |             |



