Takla Rainbow 093N/11 822136 July 6, 1988 Jakea Rainbow Cathedral Gold / Rumont 156 km mortheast of Smithers, BC LOCATION all weather gravel road to Manson Creek within 3km SE of property ALCESS 14.2 km 4x4 road to camp. sur 2-post, 9 m 65 clauns (155 units) PROPERTY 2-post under aption from Kengold nues & N. Scafe 109000 option pymte, 7.5 NPI (1.5km) M65 claims - Cathedral Ibld. 1970's mapping, self sampling, soil sampling. for NBC Syndicate Located py-epy min'& Cer soil anomaly along contact of HISTORY Taklavolis & Hogen Batholith. 1971 Falconbridge geoc, geop, DDH 1972 Westrob 1973 Hudson Bay 1981 Newmont guchen An anomaly cornecte a NBC'S Cur anomaly justaked by Stafe Enterren. Mattagami Lake Mines Located anomaloris Au in vole voclis Amer Miles rode sampling values up to 620 ppbAu, 3600ppma 1983 Imperial netals anomalous selts in area - staked Takla & Rainbow claims upl contrued TR claims, widespread An soil anomaly 1984 & 1000 ×400 m Zn 1985 optimed Twin clauss; conducted IP, soil, DDH connudent IP & 1000m×50-100m An anomaly wear contact area, dissipy 138,000 ppbAn, 60 ppm Ag 4 DDH (312m) 0.3-1.98m 1.7-18.29 Au, 2.4-34.6 Ag, .03 - 6.92% Cu. 1986 14 DDH extended stula of min gene to 700m. Month of this wone numerous An I Cu, Ag were located 1987 wad constructed, N20 DDH (5407.16m); Soils; VLF, IP groph mapping TRS 4 DDH (634 Gm) solls

Reserves 200,000 tonnes 13.71 Au veraverage 1.5m width drill indicated and inferred, undilited, uncat cutoff of 3.4g/t (0.10) (armwaving) (Pesalj, R 1488) Geology Au, Aq, a mineralgation is contained within morthwest trending subsertical parallel structurally controlled gones of pyrte-carbonate silica alteration associated with granite per prphyry, near the contact of the Hogen Batholith and Takka Geoup volcanics. nuneralzation consists of purte, chaliopypute, native gold, minor pyrchotite, magnetite, galena, sphalerite and specular hematike contained in graits filled fractures (con = clm wide) Branche prophycy is affected by findure controlled carbonalyation, siluction & chloritization, carbonatyation & epidotization of mafiles. alteration extends from porphyny into volcanic rocks. Strong Dom x 150m pyritic halo surrounds minerabled area.

Comments

Lod exploration prtential - An geochem & geop anomalies not theroryphy tested. Rescues are the second projections too for on brocks made not enough maps to make exploration proposals or comment on validity of those made by Neale & Hawkeas, However it appears that the reserve estimate by Pesal; are not valid ie based on long projections etc.

Still need to know the relationship between hectus and Reymont ... wither way seens to be a weak deal for Jalkla gold, good deal for Cathedral / Inperial

#### Cathedral drilling

VANCOUVER – A \$1-million exploration program involving a minimum 20,000 ft of drilling is planned this year for Cathedral Gold Corp.'s (TSE) Takla Rainbow project 95 miles northeast of Smithers, B.C. Approximately 26,582 ft of drilling in 41 holes has been completed on the property since 1984.

Geological reserves now stand at 471,290 tons grading 0.32 oz gold of which 220,000 tons averaging 0.4 oz are drill-indicated and inferred. Three gold-bearing zones have been delineated thus far and they are open along strike and to depth, the company notes.

GD

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#### CATHEDRAL GOLD CORPORATION (CAT-T)

TAKLA KAINBOW PROPERTY OPTIONED- Pierre B. Lebel.

president, reports that Cathedral Gold Corporation has agreed to option a maximum/ 49% interest in the 100% owned Takla Rainbow property, 110 NE of Smithers, B.C., to an Alberta based syndicate. The syndicate, which intends to assign its option to two junior resource companies, may earn 49% of the property by funding all exploration and other work that may be required to complete a positive feasibility study. In the event that a positive feasibility study has not been completed following the expenditure of \$6,000,000, the syndicate may elect to convene a joint venture in which it will hold a 40% participating interest with Catherdral retaining 60%. The syndicate has agreed to fund a \$1,000,000 surface exploration program to start in the next few weeks. It is hoped that results from this program will lead to a decision to start underground exploration activities in the fall of 1988. The exploration camp at Takla will be winterized in the coming months. Cathedral will remain the operator of the project. (See GCNL No.70 p.1 12Apr88)

\* Separate company Takla Lold. Belmoral nines (Browns) from Hugheshary He market new company & them option from Cathedral 49% of interest option from Cathedral 49% of interest up to \*6 million flow three or & feasibility

CATHEDRAL GOLD CORPORATION

PROJECT: TAKLA RAINBOW COMMODITY: GOLD SUBJECT: EXECUTIVE SUMMARY

#### LOCATION AND ACCESS

North Central British Columbia, approximately 48 km west of Manson Creek. Access by four wheel drive road (9 miles) from the Manson Creek - Takla Landing road. Elevation of the property is 5,200 feet above sea level.

#### HOLDINGS:

150 units, including 6 single claims under option. The property is in good standing to 1997.

#### WORK THAT LED TO DISCOVERY

The region was extensively explored for porphry copper mineralization between 1969 and 1973 including geochemical soil sampling, geophysical surveys and diamond drilling within 0.5 mile of the present drilling. In 1984, an Imperial Metals geologist, following encouraging results from reconnaissance silt and soil sampling during the previous season in the area, traversed the property and took the sample from the trench that returned 0.92 oz/ton Au. A mapping, soil sampling, IP survey and diamond drilling program followed in 1985, with the best intersection out of four short holes yielding 0.53 oz/ton Au over 5.4 feet.

#### ECONOMIC GEOLOGY

In the period 1985-1987, a total of 41 holes (26,582 feet) were completed on the property with excellent results. Current drill indicated and inferred reserves to a depth of 450 feet in two zones are 220,000 tons grading 0.40 oz/ton Au. The potential for increasing these reserves to 1,000,000 tons with relatively small volume of drilling is excellent, since both zones are still open along strike and at depth. The third zone, discovered by drilling in 1987

### TAKLA RAINBON

#### ORE RESERVES

#### SUMMARY

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INDICATED	AV6 WIDTH	AU OPT	TONS		AU OZS
WEST EAST	5.5 4.1	0.414 0.412	127432 42797		52765 17615
	5.1	0.413	170229	•	70380
INFERRED					
WEST EAST	4.5 4.1	0.268 0.437	15394 35667		4121 15579
	4.2	0.386	51061		19700
TOTAL (INDICATED AND INFERRED	) 4.9	0.407	221290		90080
POTENTIAL (WEST, EAST & SOUTH	ZONE)	0.250	250000		62500 
ERAND TOTAL		0.324	471290		152580

INDICATED: HALF WAY TO THE NEXT HOLE OR 100 FT, WHICHEVER IS LESS.

INFERRED: HALF WAY FROM INDICATED BOUNDARY TO THE NEXT HOLE OR 100 FT, WHICHEVER IS LESS.

POTENTIAL: WEST AND EAST ZONES ARE OPEN BEYOND THE BOUNDARIES OF INFERRED ORE. SOUTH ZONE HAS ORE GRADE INTERSECTION NOT INCLUDED IN CALCULATIONS.

CUT OFF: 4 FT @ 0.10 OPT.

FEB.11,1988



#### NEWS RELEASE

TRADING SYMBOL: CAT-T FOR RELEASE: April 11, 1988 CONTACT: Pierre Lebel, President (604) 684-4659 Eric Lavarack, Director of Investor Relations (604) 684-4659

#### CATHEDRAL ANNOUNCES TONNAGE AT TAKLA

A total of 26,582 ft. of drilling in 41 holes have now been completed at the Company's Takla Rainbow Project which has been under active exploration since 1984. At the most recent program, 23 holes measuring 19,823 ft., were completed in the period July through October 1987. Three gold bearing zones which are open along strike and at depth have been delineated. Geological reserves are 152,580 ounces of gold contained within 471,290 tons. Of these, 220,000 tons grading 0.4 oz of gold per ton are drill indicated and inferred.

Most significant assay results are :

HOLE	FROM	<u>T0</u>	<u>FT</u>	<u>Au,oz/t</u>
2	175.1	181.4	6.3	0.201
4	67.8	73.2	5.4	0.526
5	380.6	381.9	1.3	0.272
9	69.2	73.1	3.9	0.110
	328.0	332.2	4.2	1.117
13	68.2	78.9	10.7	0.149
	86.5	96.9	10.4	0.116
	206.4	211.3	4.9	0.690
20	167.7	172.8	5.1	0.107
23	692.7	702.5	9.8	0.168
24	80.4	84.7	4.3	0.312
	137.0	140.0	3.0	1.095
	156.7	163.5	6.8	0.122
	395.3	398.0	2.7	0.291
	458.3	466.5	8.2	1.150
30	656.2	658.3	2.1	0.422
31	271.3	275.6	4.3	0.229
33	200.5	203.5	3.0	0.151

A minimum 20,000 ft. drilling program will be carried out in 1988 at a cost of approximately \$1,000,000. As only one third of the gold bearing structure has been tested to date, the potential for increased reserves and the discovery of new zones is considered excellent.

Pierre B. Lebel President

PBL/il PR#1

# TAKLA RAINBOW

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## GEOLOGY







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	DEPTH	FT	Au - 01/1		
G	68.2 - 74 6	6.4	0.232		
н	87.9 - 97 0	9.1	0.134		
1	206 4 - 211.3	4 9	0.688		

	DEPTH	FT	Au - 02/1
1	56.6 - 58.0	1.4	0.146
3	191.9 - 194.1	22	0.131
:	343.0 - 348.0	5.0	0.096
)	353.0 - 358 0	5.0	0.042
:	363.0 - 368.0	5.0	0.047
	380.6 - 381 9	1.3	0.277



#### REPORT ON THE TAKLA-RAINBOW PROPERTY

Omineca Mining Division, British Columbia NTS 93N/11 55°39.5' Lat., 125°16.7'W

> for REYMONT GOLD MINES LTD. and TAKLA GOLD MINES LTD.

T. Neale, B.Sc. & T.G. Hawkins, P.Geol.

May 26, 1988

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#### SUMMARY

A review of all geological, geochemical, geophysical surveys and drilling from programs carried out in 1984, 1985, 1986, and 1987 has demonstrated considerable exploration potential on the Takla Rainbow project, located in central British Columbia, 48 km west of Manson Creek.

The primary target is the Au-Ag-Cu mineralization of the West, East, and South Zones on the TRW grid. The zones have been partially outlined by 37 diamond-drill holes totalling 7447.23 m. Mineralization is contained within northwest trending subvertical parallel structurally controlled zones of pyrite-carbonate-silica alteration associated with granite porphyry, near to the contact between the Hogem Batholith and Takla Group volcanics. The intersections to date range up to 39.43 g/t Au over 2.5 m.

Three secondary target areas also occur on the property. They have been identified and partially explored with geological, geochemical, and geophysical methods, which were the methods initially used to discover the TRW grid mineralized zones.

The value of the Takla-Rainbow property is estimated at \$1,300,000 based on the costs of past work.

The objectives of the 1988 exploration program are to delineate the size and geometry of the three known mineralized zones, to determine continuity and grade variability of the mineralization, and to explore for extensions of the zones in order that reserves may be estimated. Phase I diamond drilling, trenching, soil geochemistry, and IP surveying is recommended at an estimated cost of \$1,000,000. Should the reserves be of sufficient tonnage and grade, underground exploration is recommended as Phase II at an estimated cost of \$1,500,000.



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#### 1.0 INTRODUCTION

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This report represents the compilation of previous work on the Takla-Rainbow property. It was completed by MPH Consulting Limited at the request of Mr. S. Ford on May 11, 1988, for the purposes of filing with the Alberta Stock Exchange.

#### 2.0 LOCATION, ACCESS, TITLE

3.

The Takla-Rainbow property is located near the headwaters of Twin Creek, approximately 48 km west of Manson Creek and 156 km northeast of Smithers (Drawing No.1). It is centred at about 55<sup>0</sup>39.5'N latitude, 125<sup>0</sup>16.7'W longitude on NTS mapsheet 93N/11. It is located in the Omineca Mining Division of British Columbia.

Access to the property is presently via helicopter. The allweather gravel Manson Creek to Takla Landing road passes within 3 km of the southeast edge of the property. A 14.2 km four wheel drive road branches from the main road onto the Takla-Rainbow property leading to the TRW grid and the main camp.

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The property consists of six 2-post claims and 9 grid claims totalling 155 units, as summarized below and shown in Drawing No.2:

			Anniversary	Year	
Claim	Record No.	Units	Date	Recorded	Group
Twin 1	3956(7)	1	<b>July 22/97</b>	1981	Takla-Rainbow
Twin 2	3957(7)	1	July 22/98	1981	<b>Takla</b> -Rainbow
Twin 3	3958(7)	1	July 22/98	1981 "	Takla-Rainbow
Twin 4	3959(7)	1	July 22/98	1981	Takla-Rainbow
Twin 5	3960 (7)	1	July 22/98	1981	Takla-Rainbow
Twin 6	3961 (7)	1	July 22/98	1981	Takla-Rainbow
Takla	5964 (11)	18	Nov. 14/97	1983	Takla-Rainbow
Rainbow	5965(11)	18	Nov. 14/97	1983	Takla-Rainbow
TRA	6293 ( 6)	18	June 22/98	1984	Takla-Rainbow
TRB	7284 (9)	18	Sept. 9/91	1985	TR
TRC	7113 (7)	18	July 4/98	1985	Takla-Rainbow
TRD	7396 (10)	18	Oct. 31/91	1985	TR
TRE	7378(11)	20	Nov. 1/91	1985	TR
TRF	7377 (11)	20	Nov. 1/91	1985	TR
TRG Fr	7524 (3)	1	Mar. 7/92	1986	TR



14.0



The Twin 1-6 claims are held by Cathedral Gold Corporation under an option agreement with the 100% beneficial owners, Kengold Mines and Neil Scafe, dated March 1, 1985, whereby the vendors are entitled to a total of \$100,000 in option payments to 1990 and will retain a 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 100% by Cathedral Gold Corporation.

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#### 3.0 HISTORY

The general area of the Takla-Rainbow property has been explored since the 1860's, when placer gold was discovered in the Omineca district. Subsequent efforts to locate the source of the gold led to the discovery of many mineral occurrences in and around the Hogem Batholith. It is not known when the mineralization on the property was first discovered, however, exploration was carried out in the early 1970's and 1980's.

the 1970's, the target was porphyry copper. Geological In mapping, silt sampling, and soil sampling on the Twin claims in for N.B.C. Syndicate located pyrite-chalcopyrite . 1970 the mineralization and a Cu soil anomaly in a zone about 1800-2100 m long along the contact of Takla volcanics with the Hogem Batholith. In 1971, Falconbridge Mines carried out geochemical and geophysical surveys and diamond drilling. This was followed by work in 1972 by Wesfrob Mines, and in 1973 by Hudson Bay Mining and Exploration.

No further work is recorded until 1981, when Newmont Mines Ltd. located a geochemical gold anomaly in soils(?) in the same location as N.B.C.'s 1970 Cu anomaly. The claims were allowed to lapse, however, and were restaked, by Lorne Warren and Neil Scafe as the Twin 1-6 claims. Later that year, a property examination by Mattagami Lake Exploration located anomalous Au values in volcanic rocks.

Prospecting and rock sampling carried out by Amir Mines Ltd. on the Twin 1-6 claims in 1983 returned analyses of up to 620 ppb Au and up to 3600 ppm Cu.



In 1983, a regional silt sampling program by Imperial Metals Corporation located an Au-Cu-Zn anomaly in the Twin Creek area, which led to the staking of the Takla and Rainbow claims. The TR series of claims were staked in 1984 to 1986 as exploration of the property proceeded. Soil sampling in 1984 located widespread anomalous Au values and a 1000 m by 400 m Zn anomaly.

The Twin 1-6 claims were optioned in 1985.

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Follow-up work in 1985 including IP surveying, additional soil sampling, and diamond drilling was concentrated mainly on a second grid to the west of the 1984 grid. On the W grid, a gold soil anomaly 1000 m long by 50-100 m wide was located coincident with a 900 m long IP anomaly over the area of the contact of Takla volcanics with the Hogem Batholith. Mineralization exposed in the area consisting of disseminated and veinlet pyrite in altered Takla volcanics ran up to 138,000 ppb Au and 60 ppm Ag. Drilling totalling 312 m in four holes intersected mineralization over a 550 m strike length over widths of 0.30 to 1.98 m assaying 1.7-18.2 g/t Au, 2.4-34.6 g/t Ag, and 0.03-6.92% Cu.

Work in 1986 included additional diamond drilling as well as mapping and soil sampling of the areas north and south of the zone. An additional 14 drill holes totalling 1748 m 1985 extended the known length of the zone to 700 m and yielded intersections of up to 1.5 m of 23.7 g/t Au. Results of mapping and soil sampling north of the zone were not as encouraging as to the south. South of the zone, several Au soil anomalies up to 500 m by 75 m and 450 m by 150 m as well as numerous other small isolated gold anomalies, copper anomalies, and silver anomalies, were located. Abundant quartz vein float found in one area south of the zone returned results of up to 63,000 ppb Au, 35.5 ppm Ag, 31,974 ppm Pb and up to 13,682 ppm Cu.

MPH

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The 1987 program included construction of an access road and further diamond drilling of the TRW grid mineralized zone (5407.16 m in 20 holes), as well as geochemical soil sampling, VLF-EM and IP surveying, detailed geological mapping, and 634.59 m of diamond drilling in 4 holes on the TRS grid to follow up the 1986 geochemical anomaly. The main drilling program resulted in the partial delineation of 3 mineralized zones. The West Zone is 289 m long by 100 m wide (open to depth). The best 1987 result was 39.43 g/t Au over 2.50 m in DDH-24. The East Zone is 183 m long by 130 m wide and is open to depth and to the east. The best 1987 result was 7.85 g/t Au over 1.30 m in DDH-31. The South Zone is about 275 m long by 60 m wide and is open in all The best 1987 result was 5.76 g/t Au over 2.99 m in directions. DDH-23. Work on the TRS grid closed the Au soil geochemical anomaly to the south, located several anomalous IP chargeability zones, which do not appear to have been followed up, and yielded indications of Ag-Cu + Au, Pb, Zn in the drillholes.

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Reserves calculated by Pesalj (1988) for the West and East Zones total 199,562 tonnes (220,000 tons) grading 13.71 g/t Au (0.40 oz/ton) over an average of 1.5 m (5 feet). The reserves are drill indicated and inferred, undiluted, uncut, and were calculated using a cut-off grade of 3.4 g/t Au (0.10 oz/ton).

#### 4.0 REGIONAL GEOLOGY

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#### 4.1 Lithologies

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The Takla-Rainbow property area is underlain by Lower to Middle Mesozoic volcanic and intrusive rocks in the Quesnel Trough, a graben lying between the Pinchi fault zone to the west and the Manson fault zone to the east (Drawing No. 3).

The area west of the Pinchi fault zone is underlain by Permian Cache Creek Group rocks. They consist predominantly of siliceous and argillaceous sediments with lesser amounts of massive limestone. Unit Al consists of blue-grey, massive, commonly completely recrystallized limestone with up to 10% non-calcareous sediments and volcanics. Near the Pinchi fault zone, it may be altered to dolomite. Unit A2 comprises about 50% blue-grey ribbon chert and argillaceous quartzite with up to 30% argillite and slate occurring mainly as partings between chert layers, 15% greenstone in bands and lenses up to 450 m thick, with 5% limestone and conglomerate. It is at least 1500 m thick.

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 an apparently 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 a location on Discovery Creek





11.

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.

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The Hogem Batholith has been divided into three phases of intrusive activity by Garnett (1978). Phase I of the intrusions occurred in Upper Triassic to Lower Jurassic time and is the intrusive equivalent of the Takla Group 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 coarsegrained diorite (Unit 1); plagioclase porphyritic pyroxenebiotite monzodiorite (Unit 3); and plaqioclase porphyritic 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 locally contain grey fine-grained xenoliths.

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 sympite. The main area of Phase II rocks lies to the north of the map area 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.

#### 4.2 Structure

The Pinchi fault zone is the most important structural feature in the region. It is at least 240 km long and forms the western boundary of the Quesnel Trough. The fault zone is locally up to 300 m wide and has had at least 2 periods of movement.

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

#### 4.3 Economic Setting and Mineral Occurrences (Drawing No. 4)

The region was first worked for placer gold. The first placer gold discovery in the area was on Vital Creek (10 km northwest of the Takla-Rainbow property) in 1869. Total recorded gold production from the Omineca Mining Division from 1874 to 1945 is 1,490,362 g Au, the bulk of which came from Germansen and Manson Rivers. Placer gold production from some of the creeks has been reactivated in the past 10 years or so. Placer gold-producing areas near the Takla-Rainbow property include Twin Creek (10), Silver Creek/Kenny Creek (5), 20 Mile Creek (8), and Vital Creek (17). Placer Hg and jade occur, in addition to Au, at Vital Creek.





Numerous mercury deposits/showings occur along the Pinchi fault zone over at least 160 km. Cinnabar occurs in brecciated limestone, serpentinite, and other sediments of the Cache Creek Group as veinlets, blebs, grains, fissure-fillings, or breccia cement. Locally, stibnite may also be present. The larger deposits are all hosted by limestone. 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 from ore grading 0.5-0.75% Hg. Occurrences near the Takla-Rainbow property include Amy (4), Pole (12), Houston North (11), and Takla Mercury Mine (15). The Takla Mercury Mine produced a minor amount of Hg in the 1940's.

Most of the other mineral occurrences in the area are porphyry copper + molybdenum style showings in or near the Hogem Batholith. Much exploration was carried out on several of these showings in the 1970's due to the discovery of significant copper deposits in the Guichon Batholith near Merritt in the 1960's. The Guichon Batholith is similar in age to the Hogem batholith and is also located in the Quesnel Trough. No economic deposits have been located in the Hogem Batholith. The Smoke showing (13), also contains uranium. The Twin showing (6) was the original focus of exploration on the Takla-Rainbow property. Other nearby porphyry-type showings include the Gar (1), Bob (2), Slide (3), Loop (7), Hooey (9), and Lin (16). Garnett (1978) states that porphyry Cu + Mo mineralization in or near the Hogem Batholith is associated mainly with Phase II and Phase III intrusions. Units 1 and 3 of the Phase I intrusion have minor associated pyrite-chalcopyrite-magnetite mineralization, whereas metallic mineralization is essentially absent from Unit 5.



The Lustdust showing (14) is a massive sulphide prospect in Cache Creek Group sediments. Published indicated reserves total 327,226 tonnes grading about 2.6 g/t Au, 55 g/t Ag, 2.7% Zn, as of December 31, 1974 (Minfile).

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#### 5.0 CURRENT WORK AND VALUATION

Results of geological, geochemical, geophysical, and diamond drilling exploration carried out to date on the Takla-Rainbow property have identified four target areas.

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(Table)

The highest priority target comprises the Au-Ag-Cu mineralized zones near the Hogem Batholith-Takla Volcanics contact on the TRW To date 3 zones have been partially outlined by 37 grid. diamond-drill holes totalling 7447.23 m. The West Zone has been explored by 23 drillholes at approximately 50 m spacing; the East Zone by 10 drillholes; and the South Zone by 4 drillholes. A11 require further drilling to adequately delineate their boundaries. A 1.5 km Au soil geochemical anomaly (greater than 50 ppb Au) and a coincident 1.1 km long IP chargeability anomaly occur over the mineralized zones.

mineralization is contained within northwest The trending subvertical parallel zones of microshearing, intense fracturing, pyritization, carbonatization, and silicification within, or close to, granite porphyry. Pyrite, chalcopyrite, native gold, minor pyrrhotite, magnetite, galena, sphalerite, and specular hematite are contained in guartz-filled fractures from a few centimetres to several decimetres wide as well as disseminated in the porphyry and adjacent volcanics. The granite porphyry is affected by strong fracture-controlled carbonatization (mainly dolomite) and silicification with chloritization, carbonatization, and epidotization of mafic minerals. The alteration extends from the porphyry into the volcanic wall rocks. A strong pyritic halo over 1000 m long by 150 m wide surrounds the mineralized areas.



The best intersections from drillholes to date include 2.50 m of 39.43 g/t Au (uncut) in DDH-24 and 1.28 m of 37.00 g/t Au (uncut) from DDH-9, both from the West Zone; 1.30 m of 7.85 g/t Au from DDH-31, from the East Zone; and 2.99 m of 5.76 g/t Au from DDH-23, from the South Zone.

Drawing No. 6 and Table 1 following serve to demonstrate the nature and extent of mineralization outlined to date on Target 1.

Other exploration targets include:

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- A. The southeasterly extension of the Au soil geochemical anomaly from the TRW grid onto the East Grid. The Hogem Batholith-Takla Volcanics contact swings away to the northeast, however, near the northwest end of this target. Mineralized zone(s) may occur if the granite porphyry dykes are not confined only to the contact zone.
- B. A large, locally strong, Au soil geochemical anomaly on the TRS grid. Mineralized float samples have returned analyses of up to 63,000 ppb Au; 31,974 ppm Pb; 35.5 ppm Ag; and 25,100 ppb Au, 13,682 ppm Cu; 14.6 ppm Ag. Limited diamond drilling in 1987 yielded encouraging results of up to 398 ppb Au over 7.75 m, including 1090 ppb Au over 1.52 m, in DDH TRS-3; and 8.20 m of 49.7 ppm Ag, 5686 ppm Zn, 2741 ppm Pb, including 1.00 m of 254.3 ppm Ag, 29,910 ppm Zn, 16,217 ppm Pb, in DDH TRS-4. The Hogem Batholith-Takla Volcanics contact is mapped within 300 m of the southwest edge of the grid and four north to northwest trending granite porphyry dykes are mapped within, or adjacent to, the grid.



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#### TABLE 1

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#### TAKLA-RAINBOW WEST GRID DRILLING SUMMARY 1985-87

							**********		********	*******	=====			
YBAR	ZONB	DDH	LENGTH	HOLE	AZIMUTH	COLLAR	LOCATION	INTER	SECTION	etres)	1	GRA	DE	
		NO.	(metres	s)DIP	i	BASTING	NORTHING	FROM	TO	LENGTH	lAu(g/t)	Ag(ppm)	Cu(ppm)	Zn(ppm)
	=====	=====	*******		=======		*********	========			===================			
						2.00	10.00	1						
1282		1	10.81	L -45	1 360	3+00	12+50	1 42.00	42.30	0.30	1 2.14	54.8	59248	
	¥.	1	/8.33	5 -45	1 360	3+00	12+00	1 53.50	55.30	1.94	1 7.13	10.9	15307	
	¥	3	79.86	5 -45	1 360	5+80	10+00	60.65	61.11	0.46	1 1.65	2.4	29	
	E	4	76.81	-45	1 360	/+00	8+20	20.66	22.30	1.64	1 18.03	34.5	301	
1004	u	ç	110 20	- 55	1 045	2+01	0+770	1 50 50	50 17	0 67	 	0.2	174	114
7300			110.20	-11	1 043	2431	07113	1 10. JU	117 10	7.01	1 1 1 1	- 6 6	129	103
					1			1 104.34	112.10	1.02	1.34	V.0 7 1	373	123
		,	0( 07		1 045	3 . 07	A . 4 0 A	1 110.00	110.4V	0.90	1 2.33	1.1	244	51
		0	30.33	5 - 33	1 045	1016	0.350	ING INTER	SECTION		1			
	¥	1	81.69		1 045	31/6	0+165	INC LATER	SECTION		1			
	Ľ	8	117.35	) -55	1 045	6+69	0+625	38.24	39.01	0.17	1 1.89	1.1	15	11
	E	9	115.21	55	1 045	1+37	0+595	21.10	22.29	1.19	3.50	3.9	92	195
					l			99.97	101.25	1.28	37.00	2.3	93	120
					I			51.17	51.34	0.17	i 5.93	6.4	8	33
	E	10	99.91	-55	1 045	8+16	0+455	13.00	13.80	0.50	2.37	1.8	257	129
					1			26.00	27.00	1.00	3.22	1.4	150	119
	¥	11	117.65	i -55	1 045	1+47	0+76S	INO INTER	SECTION		I			
	ų.	12	191.41	-55	045	1+96	0+985	56.30	56.70	0.40	1.58	2.8	4373	135
					1	-		INUMEROUS	SECTIONS	VITE 20	0-400 PPB	AU SEE	145.39-1	83.18m
	¥.	13	121.31	-55	i 045	2+92	0+275	20.80	24.05	3.25	5.11	1.1	320	114
					1			26.37	29.55	3.18	3.98	3.0	3161	110
					ł			62.90	64.40	1.50	23.66	1.8	591	85
					1			67.00	67.90	0.90	1.65	0.6	606	49
	2	14	167.03	-55	1 225	7+25	0+15	1 127.80	128.40	0.60	2.43	0.2	20	111
	1	15	124.97	-55	1 045	3+86	0+385	1 51.14	52.55	1.41	1.82	0.3	111-	136
	Ŷ	16	154.84	-48	1 225	4+84	0+40	1 26.00	26.70	0.70	3.53	4.5	4573	135
	-	••			1		•••••	1 59.60	89.46	29.86	0.47	0.6	223	78
					1			1 75.56	81.08	5 57	1.01	0.8	471	89
	ų	17	177 #1	-55	i i 225	5+71	0+51	1 56 15	58.95	2 80	1 0.64	1.7	1850	64
		18	107 89	-50	; 225	6175	0+79	INA INTER	RULLUS		!		Tele	
	5	10	101.03	J	1 223	0115	VII)	ian tarar I	38611VB		1			
1987	8	19	262 17	-55	1 045	9+20	20040	1 47 76	47 46	0.20	1 7.41	1.9	113	
1701	с 17	20	102.13	, JJ 1	1 045	7136	01303	1 20 20	11.10	2 20	1 1 17	1.7 7 7	117	
		10	101.37		1 11	2190	01103	1 51 10	52 66	1 56	1 7 67	7 1	1713	
					1			1 70 00	37 75	1.30	1 3.07	0.7	462	
					1			1 116 13	316 17	2.33	1 2.17	0.7	LUF 00	
	u		114 64		1 045	3.46	1.000	1 120 05	121.9/	3.01	1 1.34	0.2	00 300	
	T	11	129.09	-22	1 040	2190	T1002	1 702 34	101.40	1 14	I V.02	V.1	200	
	-	••			1		1.19-	1 200.10	201.80	1.10	1 U.IL	U.6	100	
	Y	12	152.07	- 55	1 045	Z+91	1+275	1 78.20	/7.00	0.80	1 0.15	0.9	315	
		-			1			1 234.70	235.60	0.90	2.16	2.1	525	
	S	23	242.62	2 -50	1 225	9+20	0+915	131.37	132.46	1.09	3.12	2.1	58	
					I			175.37	175.82	0.45	1.2	2.9	646	
					I			211.13	214.12	2.99	1 5.76	0.6	58	
					ł			229.21	229.11	0.56	1 7.51	1.2	43	



YBAR	ZONB	DDH	LENGTH	HOLE	AZINUTH	COLLAR	LOCATION	I INTER	SECTION(	metres)	1	GRA	DE	
		NO.	(metres	)DIP	l	BASTING	NORTHING	FROM	TO	LENGTH	lAu(g/t)	λg(ppm)	Cu(ppm)	Zn(ppm)
::::	=====		*******	=====	=======			========			=======		=======	
					1			1			1			
1987	¥	24	181.97	-55	1 045	3+40	0+685	24.52	25.82	1.30	1 10.7	1.4	277	
					1			41.76	42.66	0.90	37.54	2.2	246	
					1			47.75	49.83	2.08	4.18	7.6	2189	
					I			1 120.50	121.30	0.80	9.98	4.3	2696	
					i			127.10	128.50	1.40	0.96	3.8	3762	
					ł			139.70	142.20	2.50	39.43	12.0	3000	
	Ĩ	25	254.81	-55	i 045	3+40	1+18S	1 150.77	151.50	0.83	0.82	0.6	403	
					l			190.90	191.50	0.60	i 1.68	1.9	1949	
					1			248.95	249.80	0.85	0.58	0.5	1725	
	8	26	50.90	-55	045	3+87	1+385	NO INTER	SECTION		1			
	¥	26X	311.01	-55	045	3+87	1+355	10.84	11.24	0.40	3.63	2.9	27	
					ł			215.10	215.55	0.45	0.75	0.4	39	
	¥	27	258.17	-55	045	4+40	1+055	1 58.34	58.90	0.56	0.75	0.5	10	
					l			1 59.45	60.30	0.85	0.58	2.8	6	
					I			99.32	99.85	0.53	0.62	0.8	8	
					1			1 145.18	145.72	0.54	0.58	2.0	952	
					i			218.20	219.06	0.86	0.93	0.6	295	
	S	28	221.59	-50	225	7+37	1+205	28.80	29.32	0.52	3.09	3.4	1577	
					l			73.61	14.57	0.96	0.62	1.9	365	
	¥	29	154.53	-55	045	4+40	0+555	21.23	23.20	1.97	1.17	0.3	159	
								23.20	24.60	1.40	1.37	0.1	253	
								24.60	25.35	0.75	6.07	0.7	435	
	¥	30	269.14	-55	045	5+35	1+105	200.00	200.65	0.65	14.47	5.8	7394	
	8	31	268.83	-55	045	8+16	1+455	82.70	84.00	1.30	7.85	2.0	137	
								1 128.60	129.60	1.00	2.23	0.4	34	
								221.60	222.20	0.60	9.33	14.2	75	
					i			240.30	241.40	1.10	1.34	2.4	62	
	S	32	228.60	-50	225	8+16	1+465	173.90	174.30	0.40	0.79	1.7	78	
	E	33	462.99	-55	045	9+20	8+60	61.10	62.00	0.90	5.18	5.8	1857	
								425.80	427.08	1.28	1.51	0.1	109	
	7	34	456.29	-70	045	3+40	1+185	22.20	22.60	0.40	0.96	4.2	1556	
				1				181.10	182.15	1.05	1.23	3.8	7586	
								348.72	349.60	0.88	1.61	0.1	109	
	2	35	455.98	-55	045	11+20	0+05	1 283.00	284.00	1.00	0.51	7.6	466	
	\$	36	480.67	-50	225	11+20	0+05	INO INTER	SECTION	1 I	i			
	¥	31	168.25	-45	045	3+42	0+595	80.50	81.32	0.82	1.23	0.4	243	
					1			90.25	91.05	0.80	1 2.5	2.5	494	
				1				92.55	93.90	1.35	2.81	3.4	1573	
								97.32	99.00	1.18	2.09	2.3	605	

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C. A low priority target is defined by isolated Au soil geochemical highs to 290 ppb on the TRN grid, in the vicinity of the Hogem Batholith-Takla Volcanics contact.

#### 5.1 Valuation

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The value of the Takla-Rainbow property is estimated as the total cost of previous exploration programs on the property. Costs incurred from 1983 to 1986 were previously calculated to total \$520,000 (Hawkins, 1987). This was the value of the property used in the prospectus of Cathedral Gold Corp. which was approved by the Toronto Stock Exchange. The list below reproduces the calculations of Hawkins (1987) and adds the cost of the 1987 program by Cathedral Gold Corp. to arrive at the present estimated value of the property.

1983	- Regional geochemical program and staking	\$ 20,000
1984	<ul> <li>- 12.2 km of grid with 445 soil samples at</li> <li>25 m spacing on one grid (East)</li> <li>- 10 days of geological mapping and sampling</li> </ul>	21,000
1985	<ul> <li>10.9 km of grid with 437 soil samples at 25 m spacing on two grids (East; West)</li> <li>4.05 km of pole-dipole induced polarization on East Grid</li> <li>4.75 km of induced polarization on West Grid</li> <li>311.81 m of BQ diamond drilling in 4 holes on the West Grid (see Drillhole Summary) along 550 m of strike length to a methical 20 m depth</li> </ul>	120 000
	vertical 30 m depth	T3 <b>3,</b> 000

1986	- Establishment of three new grids - TRN and TRS and TRS <sub>2</sub> of 20.4, 21 and 13 line-km respectively	
	- Soil sampling of all grids, totalling 1441 soil samples	
	- BQ diamond drilling totalling 1748.5 m in 14 holes on West Grid as extension of 1985 drilling geological mapping and sampling	330,000
	<ul> <li>Additional expenditures related to administration of claims</li> </ul>	10,000
1987	<ul> <li>Extensions to TRS grid (5 line-km)</li> <li>Soil sampling on TRS grid extensions (173 samples) and in other areas (98 samples)</li> </ul>	
	- VLF-EM and IP surveying of parts of the TRS and TRS2 grids (14.6 and 9.5 line-km, respectively)	
	- Geological mapping and prospecting	
	- 5407.16 m of BQ diamond drilling in 20 holes on TRW grid and 634.59 m in 4 holes on TRS grid	
	- Construction of 14.2 km access road	780,456
		\$1,300,456

Initial results suggest that economic grades of gold mineralization over mineable widths may be encountered over sufficient area to provide economic tonnage, and extensive further work is fully justified.

Therefore, fair and reasonable value on the property is estimated at \$1,300,000.

A valuation based on reserves as calculated by Pesalj (1988) is believed to be premature since:

 The reserves blocks do not comprise a single zone, but rather, appear to include numerous short, unconnected, subparallel zones (as indicated on Drawing No. 6).

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2. Each reserves block is based on only one intersection from only one drillhole.

- 3. The width of the reserves blocks appears to have been calculated on the drill-intersection length rather than the true width of the intersected zone.
- 4. Grades are extremely variable. Over 50% of the gold contained in the estimated reserves is included in the three reserves blocks with grades of over 34.3 g/t Au.

Further information, including closed spaced diamond drilling and a longitudinal section prepared using surveyed drill collar locations is required before meaningful reserves estimates can be calculated.



#### 6.0 PROPOSED WORK PROGRAM

#### 6.1 Plan

The 1988 Phase I exploration program on the Takla-Rainbow property is designed to follow up the encouraging results of the 1987 work with trenching, geochemical and geophysical surveys, and diamond drilling, mainly on the TRW grid area.

#### Trenching

Overburden on the TRW grid is known to be quite deep (5 to 10 m), however, an attempt at excavating bulldozer trench(es) over the projected location(s) of the mineralized zone(s) which yielded the best assays from diamond drilling is recommended. A bulldozer will be on site for use in moving drills and will therefore be available at relatively low cost for trenching.

#### Soil Geochemistry

Soil sampling surveys have outlined the mineralized trend with Au geochemical anomalies. A small amount of additional soil sampling is recommended to provide closure of existing anomalies and to test for extensions.

#### Geophysics

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Induced polarization surveys appear to be effective in detecting mineralized zones on the property. Previous surveys over the known zones have been at an oblique angle to the strike of the zones. Several test lines of IP surveying are therefore recommended to be carried out over the TRW grid, which is at right angles to the mineralized zones, to determine the response



associated with known mineralization. Grid extensions to the southeast and northwest will then be IP surveyed to test for extensions of the mineralized zones. The dipole-dipole system of IP surveying is recommended to provide more definitive anomalies than the pole-dipole system which was previously used.

#### Diamond Drilling

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The bulk of the 1988 exploration program will consists of diamond drilling in and around the known mineralized zones in an effort to obtain better definition of their size, continuity, and tenor. A total of 6100 m (approximately 20,000 feet) of diamond drilling in 30 holes in recommended as outlined by Pesalj (1988b). Locations are listed below and shown on Drawing No. 6:

Zone	Section			Feet	Holes
West	2+64E	• • • •		1000	2
	2+91E			1000	2
	3+40E			600	1
	3+87E			800	2
	4+40E			700	1
	4+84E			600	1
	5+35E			1400	2
	fill-in (	between se	ctions)	7000	10
East	8+16E			600	1
	9+20E			600	1
	fill-in (	between se	ctions)	2500	3
South	9+20E			1600	2
	fill-in (	between se	ctions)	1600	2

Contingent upon the delineation of drill indicated reserves of at least 363,000 tonnes (400,000 tons) of ore grading at least 13.7 g/t Au (0.4 oz/ton) by Phase I drilling, a Phase II program of underground exploration and bulk sampling is proposed. The



method of underground exploration (decline/shaft/crosscut) will depend upon the geometry and location of ore zones delineated by Phase I work.

Cost estimates for Phase I and Phase II exploration are provided below.

6.2 Budget

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Phase I

	Total	\$1 =	.,000,000
Contingency		-	127,144
Administration			86,863
Report Costs			8,796
payments, supplies, fuel, e	tc.)		45,500
miscellaneous (nelicopter, in communications test work)	elgnt,		
Diamond Drilling			488,000
Analyses			37,792
Food and Accommodation			22,165
Equipment Rental			23,640
Personnel			130,300
Mob/Demob		\$	29,800

#### **Phase II**

Bulk Sampling	Total	· · · · · · · · ·	200,000
	TOCAL		<b>TTTTTTTTTTTTT</b>



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#### 7.0 CONCLUSIONS

- 1. The Takla Rainbow project, having been the subject of four years and a total of more than \$1,300,000 worth of exploration, demonstrates extensive potential for shearhosted gold mineralization of economic grades over mineable widths.
- 2. Preliminary drilling (50 to 200 m spacing) on the TRW grid has produced results of up to 39.43 g/t Au (uncut) over 2.5 m and has identified three separate zones of Au-Ag-Cu mineralization. The zones are up to 289 m by 100 m in size and have not yet been fully outlined.

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- 3. Future work will be aimed at demonstrating continuity of what appears to be persistent mineralization of variable gold grade and further delineating the size and geometry of the three mineralized zones identified to date on the TRW grid with the goal of gaining sufficient information to calculate reserves estimates.
- 4. Gold values in rock appear to be consistently associated with elevated copper and silver values. Gold is also associated with pyrite, chlorite, epidote, carbonate, hematite, and silica alteration in varying degrees of granite porphyry dyke(s) near the disconformable contact between the Hogem Batholith and the Takla volcanics.
- 5. Definition of drill targets is best accomplished by geological mapping, geochemical (soil) surveying, and geophysical (I.P.) surveying.



- 6. Infill drilling and undercutting, and strike extension drilling is required on the West Zone, East Zone, and South Zone.
- 7. Three additional target areas identified by previous geological, geochemical, and geophysical work are considered to be of secondary importance. With additional exploration one or more of these areas could develop into a primary target.

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#### 8.0 RECOMMENDATIONS

- A total of 6000 m of infill, undercut, and strike length extension drilling is recommended for the West, East, and South Zones.
- 2. Bulldozer trenching is recommended to be carried out over the projected locations of the highest grade mineralized drill intersections, where overburden depth permits, to enable detailed sampling to be carried out.
- 3. Additional IP surveying using the dipole-dipole system over the known mineralized zones as well as to test for southwesterly and northeasterly extensions is recommended.
- -4. Geochemical soil sampling is recommend to be carried out where necessary to provide closure of previous anomalies and to test for extensions.
  - 5. The above Phase I work is recommended at an estimated cost of \$1,000,000.
  - 6. Contingent upon delineation of reserves totalling at least 363,000 tonnes grading at least 13.7 g/t Au by Phase I, Phase II underground exploration and bulk sampling is recommended at an estimated cost of \$1,500,000.

Respectfully submitted, MPH Consulting Limited B.Sc. **Bracory Hawkins** 

May 26, 1988 Vancouver, B.C.

## MPH

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#### CERTIFICATE

I, T. Neale, do hereby certify:

- 1. That I am a graduate in geology of the University of British Columbia (B.Sc. 1978).
- 2. That I have practised as a geologist in exploration for ten years.
- 3. That the opinions, conclusions, and recommendations contained herein are based on a review of reports on field work carried out on the property by previous workers.
- 4. That I own no direct, indirect, or contingent interest in the subject property or shares or securities of Reymont Gold Mines Ltd., Takla Gold Mines Ltd., or associated companies.

1. Male

T. Neale, B.Sc.

Vancouver, B.C. May 26, 1988

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#### CERTIFICATE

- I, T.E. Gregory Hawkins, do hereby certify:
- That I am a Consulting Geologist with business offices at 2406, 555 West Hastings Street, Vancouver, B.C. V6B 4N5.
- 2. That I am a graduate in geology of The University of Alberta, Edmonton (B.Sc. 1973), and of McGill University, Montreal, (M.Sc. 1979).
- 3. That I have practised within the geological profession for the past seventeen years.
- 4. That I am a Fellow of the Geological Association of Canada and a Professional Geologist registered in the Province of Alberta.
- 5. That the opinions, conclusions and recommendations contained herein are based on a review of field work carried out on the property.
- 6. That I own no direct, indirect, or contingent interests in the subject property or shares or securities of Reymont Gold Mines Ltd., Takla Gold Mines Ltd., or associated companies.



May 26, 1988

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Appendix I

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CONVERSION FACTORS FOR METRIC UNITS



#### CONVERSION FACTORS FOR METRIC UNITS

or 2.54 centimetres       (cm)         1 cm       = 0.394 inch         1 foot       = 0.3048 metre       (m)         1 m       = 3.281 feet       (m)         1 m       = 3.281 feet       (km)         1 mile       = 1.609 kilometres       (km)         1 km       = 0.621 mile       (km)         1 acre       = 0.4047 hectares       (ha)         1 ha       = 2.471 acres       (ha)         1 km       = 100 m x 100 m - 10,000 m <sup>2</sup> (g)         1 km       = 100 m x 100 m - 10,000 m <sup>2</sup> (g)         1 km       = 0.032 troy oz       (g)         1 g       = 0.032 troy oz       (g)         1 pound       = 0.454 kilogram       (kg)         1 kg       = 2.20 lb       (t)         1 ton (2000 lb)       = 0.907 tonne       (t)         1 tonne       = 1.102 ton = 2205 lb       (g/t)         1 troy ounce/ton (oz/ton)       = 34.286 grams/tonne       (g/t)         1 g/t       = 0.0292 oz/ton       (pm)         1 ppm       = 1000 parts per billion       (ppb)	l inch	=	25.4 millimetres	(mm)
<pre>1 cm = 0.394 inch 1 foot = 0.3048 metre (m) 1 m = 3.281 feet (m) 1 m = 3.281 feet (m) 1 km = 0.609 kilometres (km) 1 km = 0.621 mile (km) 1 acre = 0.4047 hectares (ha) 1 ha = 2.471 acres (ha) 1 ha = 2.471 acres (ha) 1 ha = 100 m x 100 m - 10,000 m<sup>2</sup> 1 km<sup>2</sup> = 100 ha (g) 1 g = 0.032 troy oz (g) 1 g = 0.454 kilogram (kg) 1 kg = 2.20 lb (kg) 1 ton (2000 lb) = 0.907 tonne (t) 1 tonne = 1.102 ton = 2205 lb (g) 1 troy ounce/ton (oz/ton) = 34.286 grams/tonne (g/t) 1 g/t = 0.0292 oz/ton (g) 1 g/t = 1 part per million (ppm) 1 ppm = 1000 parts per billion (ppb)</pre>	*		or 2.54 centimetres	(cm)
<pre>1 foot = 0.3048 metre (m) 1 m = 3.281 feet 1 mile = 1.609 kilometres (km) 1 km = 0.621 mile 1 acre = 0.4047 hectares (ha) 1 ha = 2.471 acres (ha) 1 ha = 100 m x 100 m - 10,000 m<sup>2</sup> 1 km<sup>2</sup> = 100 ha 1 troy ounce = 31.103 grams (g) 1 g = 0.032 troy oz 1 pound = 0.454 kilogram (kg) 1 kg = 2.20 lb 1 ton (2000 lb) = 0.907 tonne (t) 1 tonne = 1.102 ton = 2205 lb 1 troy ounce/ton (oz/ton) = 34.286 grams/tonne (g/t) 1 g/t = 0.0292 oz/ton 1 g/t = 1 part per million (ppm) 1 ppm = 1000 parts per billion (ppb)</pre>	l cm	=	0.394 inch	
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<pre>1 km<sup>2</sup> = 100 ha 1 troy ounce = 31.103 grams (g) 1 g = 0.032 troy oz 1 pound = 0.454 kilogram (kg) 1 kg = 2.20 lb 1 ton (2000 lb) = 0.907 tonne (t) 1 tonne = 1.102 ton = 2205 lb 1 troy ounce/ton (oz/ton) = 34.286 grams/tonne (g/t) 1 g/t = 0.0292 oz/ton 1 g/t = 1 part per million (ppm) 1 ppm = 1000 parts per billion (ppb)</pre>	l ha	=	100 m x 100 m - 10,000 m <sup>2</sup>	
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1 ppm = 1000 parts per billion (ppb)	l g/t	=	l part per million	(ppm)
	l ppm	=	1000 parts per billion	(ppb)
10,000  g/t = 18	10,000 g/t	=	1%	

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