VICTORIA GROUP

NTS 93M/4E

OMINECA M.D.

D. GROOT LOGGING LTD.

MINERALS EXPLORATION

SMITHERS, B.C.

D.C. PLECASH - GEOLOGIST

NOVEMBER 1983

GEOLOGICAL BRANCH ASSESSMENT REPORT

11,513

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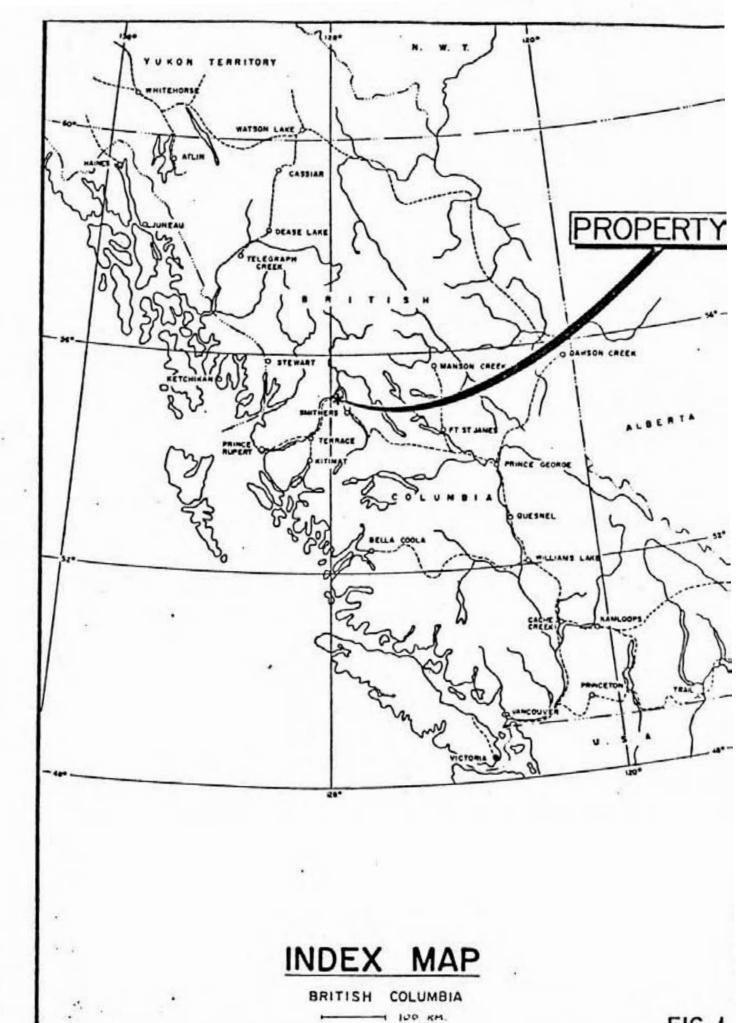


FIG. 1

#### VICTORIA, ROUCHER DEBOULE & ARMAGOSA GROUPS

#### ROUCHER DEBOULE MOUNTAINS

HAZELTON, B.C.

#### INTRODUCTION:

The Victoria, Roucher Deboule and Armagosa properties comprise a contiguous group of reverted crown grants and mineral claims located on the western flank of Roucher Deboule Mountain of Hazelton, B.C.

Numerous mineralized veins are known to occur on the property, from the Scheelite veins in the Armagosa Creek area adjacent to Cominco's Red Rose property, to the Roucher Deboule mine area and thence to the Victoria area.

This report deals with the Victoria No. 2 vein which was diamond drilled, in part, this season.

#### CONCLUSION:

The diamond drilling on the Victoria No. 2 vein showed that the Feldspar Porphyry structure does exist at lower elevations. Through the interpretation of the diamond drill logs, the structure still seems to strike east - west at depth but the dip appears to be a little flatter than what shows on the surface. The dip averages out to a minus 56° in both of the deeper diamond drill holes.

Diamond drill hole V83-1A intersected the Feldspar Porphyry at one hundred and thirty metres below surface at elevation 1796 metres. Diamond drill hole V83-2 intersected the Feldspar Porphyry at sixty one metres below surface at elevation 1733 metres. Neither of these two diamond drill holes had any Gold in them throughout the Feldspar Porphyry zone as did appear in the structure on surface.

In studying the other veins on the property between the Victoria No. 1 vein structure and over to the veins in the Armagosa Creek area, the mineral occurrences appear to be in pods or lens' and not in a uniform continuous structure of any length. If this theory is correct then a diamond drill program of closely spaces holes would have to be implemented to pick up any metal occurrences.

D.C. Plecash GEOLOGIST

#### LOCATION AND ACCESS:

The area of interest being that of the Victoria Group is 11 km. south of the settlement of South Hazelton, B.C. on which the often very steep western slope of the Roucher Deboule Range at about 1220m. above sea level to about 1950m above sea level.

Access to the Victoria Group is via a steep narrow bush road that branches off Comeau Ranch Road and traverses up the mountain side for a distance of  $8.0\ km$ .

NAME OF CLAIM	LOT #	RECORD #	RECORDING DATE	EXPIRY DATE
Hazelton View	3299	401	August 1976	August 25, 1993
Lead Pick	3300	402		н
Moose	3301	403		n .
Elk	3302	404		
Delta Fraction	604	455	October 1976	October 26, 1993
Joe Fraction	533	456		и
Juniper	2400	457		и
Balsam	2401	458		
Jack Pine	2402	459		
Timber Line	4203	460		. n
Iowa	2404	461	n n	.0
Log Cabin	2405	462		
Balsam Fraction	2406	463		
Pie Fraction	2407	464		
Third Fraction	2408	465		
Victoria	3303	466		u .
Belle	3304	467		и
View Fraction	3305	468		
Belle Fraction	3306	469		N.
Mammoth	3307	470		n .
Tiger	3308	471		н
Bowl Fraction	3315	472		
Summit	605	555	April 1977	April 5, 1993
Great Ohio	702	556	н	
Pilot	704	557		- W-
Summit Fraction	1318	582	n	April 6, 1993

NAME OF CLAIM	<u>LOT #</u>	RECORD #	RECORDING DATE	EXPIRY DATE
Waterfall Fraction	( <del>=</del> /	583	April 1977	April 22, 1993
Coral Queen	532	616	June 1977	June 21, 1993
Lucky Jack	603	617	n .	н
Islander	710	618		п
Golden Fleece	1001	619	u	л.
Happy Jack	1003	620	и	u
Zig Zag Fraction	1005	621		
Balmoral	1002	622		, "
Highland Boy	1000	623		
Independance Fraction	4275	687	July 1977	July 25, 1993
Red Cross	3310	1372	Sept 1977	Sept 13, 1993
Balmoral Fraction		4413	July 1982	July 1993
Leo 1-20	-	3110	August 1980	August 1993
Star 1-10		3986	August 1981	August 7, 1993
July 1-6	7	3987	August 1981	August 7, 1993

#### HISTORY:

The Victoria property was apparently discovered in the same year as the Roucher Deboule property. Most of the work was done on the No. 1 vein, which had hand sorted ore shipped over the period of years from 1918 to 1941. Total production from the Victoria No. 1 vein was 90 tons grading 3.62 oz. Au.; 0.3 oz. Ag.; 24.76% As.; 20.00% Mo.; and 2.73% Co.

The No. 2 vein had only a few cuts put on it. This was probably due to the fact that accessibility to the area was very limited, because the area is characterized by precipitous slopes that are regularly swept by snow slides during the winter and by avalanches after heavy snow falls and during the spring melt.

In 1982 a considerable amount of time was spent on the property in prospecting, sampling and studying the structure and lithology of the rocks.

Two diamond drill holes were drilled on the higher elevations of the property in 1983.

#### GEOLOGY - REGIONAL:

The Roucher Deboule Range lies within the Intermountain Belt of the Western Cordillera and forms a segment of the Hazelton Mountains. The passively emplaced Roucher Deboule stocks forms the mountain core and is surrounded on all sides by predominantly Skeena Group volcanics and sediments. Three minor N-S striking faults cut both the stock and the surrounding strata.

The stock is composed primarily of Porphyryitic Granodiorite with a younger Quartz Monzonite phase.

Mineralization in the mountain range consists, for the most part, of fissure veins and shear zone replacements although a Moly Porphyry is being explored at the south end of the range.

Structurally the veins are relatively simple, striking generally east - west and dipping north on the western flank of the stock and north - south with a westerly dip on the eastern flank.

Mineralogically the veins are complex with several phases of mineralization documented. Eight major east - west striking north dipping veins spaced approximatly 300 m. apart occur on the Victoria and Roucher Deboule property. The veins are predominantly developed within the Roucher Deboule stock but have been traced westerly into the intruded volcanics and sediments.

The progress of events resulting in the formation of veins appear to be as follows:

- Intrusion and cooling of the Roucher Deboule stock.

 Intrusion and cooling of north - east trending Quartz Monzonite dykes.

- Fracturing along present vein channels.

 Intrusion of acid to intermediate Porphyritic dykes along Victoria's No. 1 and No. 2 and Roucher Deboule No. 3 vein fractures.

- Renewed movement along the veins and introduction of Horneblende - Quartz - Feldspar Pegmatites together with Scheelite, Molyb-

denite and Uraninite.

 Further shearing along the veins and shattering of the Victoria No. 2 dyke followed by the introduction of Chalcopyrite, a tin metal? and glassy Quartz or Arsenopyrite, Safflorite, Cobaltite, Glaucodot, Pyrrhotite and Gold. (Victoria and to a lesser extent Roucher Deboule.)

- Renewed movement and the local introduction of Tetrahedrite,

Sphalerite, Galena and Pyrite (Victoria No. 3?)

- Faulting along north north-west and north north-east axes and the intrusion of fine grained Diorite dykes.

In spite of the number of periods of movement that have apparently taken place, offsets are generally less than 30 m. and more typically less than 5 m.

Victoria No. 2 vein consists of a Feldspar Porphyry dyke, that, throughout its known length has been fractured and sheared. Subsequent hydrothermal activity has resulted in the introduction of Horneblende - Feldspar Pegmatites, Quartz and Sulphides as fracture fillings and as replacements.

This system has been traced from the 1460 m. elevation which is 180 m west of the Granodiorite - volcanic contact that is at the 1570 m. elevation, then eastward for 380 m. to the shovel cut at 1827 m. elevation. From the shovel cut the vein continues eastward for 137 m. where it crosses the ridge into a boulder field at the 1900 m. elevation. The vein was located 238 m. across the boulder field at the 1879 m. elevation and then followed for another 60 m. to the 1865 m. elevation.

The western two thirds of the known vein - dyke system is presently not exposed, except for intermediate shears of Quartz with Arsenopyrite and Cobaltite on the south wall of the avalanche chute which occupies the trace of the system in this area. The wall and Quartz - Sulphide shears both strike almost due east and dip 50° to 60° to the north. The outcrops which previously showed the northern contact of the dyke and the old pits on the western end of the footwall vein were buried by a landslide in the fall

of 1978.

Sharply angular blocks of mineralized Horneblende Pegmatite within the avalanche debris in the chute affirm to the presence of the system beneath the Detritus. A 0.5 m. sample across the face of one block assayed 23.32g/T and 62.8 g./T. As.

The full width of the vein dyke system is only exposed at the top of the above mentioned avalanche chute where the system crosses a small ridge or spine into the next chute (shovel cut area). Here the heaviest mineralization (Victoria No. 2 vein) is on the dyke hanging wall and consists of shears and lens' of Arsenopyrite and Cobaltite with some Horneblende and Quartz along the sheared dyke stock contact. The shearing and mineralization both strike at  $90^{\circ}$  to  $95^{\circ}$  and dip  $50^{\circ}$  to  $60^{\circ}$  north. Subsidiary mineralized veins of fractured and sheared Porphyry and Horneblende Pegmatite striking  $\pm 125^{\circ}$  and dipping  $60^{\circ}$  splay off of the hanging wall vein into the Porphyry dyke. The Porphyry itself is also fractured with thin films and veinlets of Arsenopyrite filling the fractures where it has not yet been weathered out.

Between the new cut which is 8 m. east of the shovel cut and the top of the ridge the vein dyke system is predominantly masked by a thin veneer of Granite boulders in an avalanche chute. Several of the old pits shown on Mr. Jaspers map are partially visible but are filled with boulders.

Near the top of the steep slope where the mineralized system crosses the mountain ridge on the south wall of a boulder filled saddle the hanging wall mineralization appears to split with a branch following the contact and the other splaying north into the Granodiorite.

Further to the east on the eastern side of the large boulder field the vein dyke system was observed on the steep sloping south wall of a ridge that slopes down toward the Juniper Creek area. A large amount of Horneblende up to 1.4 m. thick was observed along the hanging wall of the vein dyke system but did not carry any amount of mineralization. The vein dyke system seems to have more Iron Pyrite as it progresses eastward as the rocks are fairly well stained from oxidization

Around the shovel cut area and eastward where the vein dyke system structure has increased in width to about 2 times the normal width, a slight folding of the vein dyke system must have occurred to give a minor synclinal through. The theory was postulated from detailed studies of the area.

#### REFERENCES:

J.S. Stevenson, 1949 pp 82-93; E.D. Kindle, 1954 pp 84-89; A. Sutherland Brown, 1960, Bull 43; Minister of Mines, B.C. Ann. Repts. 1916 pp 114-115, 1917 pp 103-104, 1918 pp 112-113, 1925 pp 134, 1927 pp 132-133, 1928 pp 140, 1940 pp 76, 1941 pp 41,1948 pp 80-82, 1950 pp 99; J.J. O'Neill 1919 pp 20-23; M.W. Jasper M.E. 1951, 1952, 1953 Reports; G. Ford 1979 Report; D.C. Plecash 1981, 1982 Reports.

#### BRITISH COLUMBIA

#### OMINECA M.D. 93M/4E

#### ROUCHER DEBOULE PROPERTY

#### VICTORIA GROUP

Between August 15th, 1983 and October 15th, 1983, D. Groot Logging Ltd. of Smithers, B.C. did work on the Victoria Group, that comprised of contracting out a diamond drill program on the Victoria No. 2 vein. Due to the precipitous slopes, unstable talus and inclement weather, the diamond drill program was not completed.

Two diamond drill holes were completed. The first one was on top of the ridge at 1926.0 m. elevation. The other diamond drill hole was collared 171.0 m. west of the first hole and at an elevation of 1794.0 m. Both of these diamond drill holes were put in to intersect the Feldspar Porphyry dyke at a lower elevation and to try and pick up the mineral occurances that are found on the surface exposures.

Three additional diamond drill holes were needed to be drilled at the 1794.0 m. elevation to complete the program, and to determine if a possible ore occurance of any size does exist.

D.C. Plecash GEOLOGIST Between August 15th, 1983 and October 15th, 1983, a diamond drill program was initiated on the Victoria No. 2 vein area. Three diamond drill sites were laid out and diamond drill platforms were then constructed. All of the work was totally supported by a helicopter.

Diamond drill hole V83-1 was collared at the 1926.0 metre elevation and 78.0 metres due north of the hanging wall contact of the Feldpsar Porphyry. The diamond drill hole had a dip of -90°. The purpose of this diamond drill hole was to intersect the Feldspar Porphyry at depth and to see if the Gold content did continue also at depth. This diamond drill hole went to a depth of 46.02 metres and was abandoned due to poor ground conditions. The first 0 to 3.66 metres of the drill hole was in overburden, then went into a medium to light grey Granodiorite. Between 32.46 metres and 45.57 metres there were some small bands of Feldspar Porphyry, Horneblende and Quartz. This diamond drill hole has a considerable amount of broken ground and vug hole with core loss or missing up to 37% in the first 29.57 metres

Diamond drill hole V83-1A was collared from the same setup as diamond drill hole V83-1. This hole was drilled on a 180° azimuth with a -85° dip. The purpose of the drill hole was the same as diamond drill hole V83-1 i.e., to pick up the Feldspar Porphyry and Gold occurence at depth. The first 0 to 4.75 metres of the diamond drill hole was in overburden, then into a medium to light grey Granodiorite. From 26.76 metres to 54.80 metres there are numerous bands of Feldspar Porphyry, Hornblende and Quartz stringers. On each side of any of the above intrusions there is always at least 1 cm. of leached ground. The main Feldspar Porphyry Dyke is between 130.46 metres to 142.34 metres with very little Quartz, Horneblende and Arsenopyrite appearing. From 144.17 metres to 151.79 metres there is again numerous bands of Feldspar Porphyry, Horneblende and Quartz bands with same leaching appearing on each side of the intrusions. The hole went through a fault zone with recemented ground between 203.46 metres to 203.88 metres. The diamond drill hole ended at 213.97 metres in a medium grey Granodiorite.

Diamond drill hole V83-2 was drilled on a 126° azimuth with a -73° dip. This hole was collared at the 1794.4 metres elevation. The purpose of this diamond drill hole was to intersect the structure of the so called shovel cut at depth. The shovel cut area is one of greater width of Feldspar Porphyry and also a zone of more Gold, Cobalt and Arsenopyrite occurences. The first 0 to 5.18 metres were in overburden then into a medium grey Granodiorite. Between 5.18 metres to 44.81 metres there is a 34% core loss. At 19.81 metres to 24.69 metres and 38.41 metres to 46.94 metres the Granodiorite has a darker brownish hue in the ground mass. The diamond drill hole went into a mixed zone of Feldspar Porphyry, Granodiorite and Quartz bands between 60.11 metres to 61.45 metres and then into the main Feldspar Porphyry zone between 63.07 metres to 81.08 metres. In the main Feldspar Porphyry zone there is a faulted area at 72.85 metres to 73.15 metres and at 80.62 meters. No significant amount of mineralization was located in the main Feldspar Porphyry zone. From 81.08 meters to 88.39 meters and from 94.06 meters to 103.45 meters the drill hole intersected a zone of mixed Feldspar Porphyry, Granodiorite and Quartz bands with leaching of the Granodiorite on each side of the intrusions. The diamond drill hole ended at 125.27 meters in a medium

grey Granodiorite.

Diamond drill core stored at D. Groot Logging Ltd., Tatlow Road, Smithers, B.C.

D.C. Plecash GEOLOGIST

### STATEMENT OF QUALIFICATIONS

- I, Donald C. Plecash, of 3869 12 Avenue, Box 2694, Smithers, B.C. Certify that:
- I attended Queens University, Kingston, Ontario from September 1947 to May 1950.
- I was employed by Yale Lead & Zinc Mines of Ainsworth, B.C. as a Mine Surveyor, Junior Engineer and Junior Geologist from 1950 to 1956.
- 3) I was employed by Canam Copper Mines Ltd. of Hope, B.C. as a Mine Engineer and Mine Geologist from 1956 to 1957.
- 4) I was employed by Reeves MacDonald Mines Ltd. of Remac, B.C. as a Mine Engineer and Mine and Exploration Geologist from 1957 to 1969.
- I was employed by Norex Uranium Ltd. of 605-535 Thurlow Street, Vancouver,
   B.C. as Exploration Manager and Geologist from June 1969 to October 1969.
- 6) I was employed by Nadina Explorations Ltd. of 1005-789 West Pender Street, Vancouver, B.C. as Mine Engineer and Mine Geologist then Mine Manager from November 1969 to September 1973.
- 7) I was employed from September 1973 to April 1980 in another industry.
- 8) I am employed by D. Groot Logging Ltd. of Box 520, Smithers, B.C. as a Geologist from May 1980 to present time.

Da Cent

ROUCHER DEBOULE VICTORIA GROUP COST STATEMENT 1983

> D.C. Plecash GEOLOGIST

Diamond Drilling - J.T. Thomas Invoice
Field Supervision
Logging & Splitting Core
Maps & Report
Assaying & Freight

\$ 73,433.62

## COST BREAKDOWN

J.T. Thomas - Invoice		
1264.0' @ \$49.00/ft	\$61,936.00	661 036 00
Field Supervision		\$61,936.00
D.C. Plecash 29 days @ \$210.57/day (includes fringe benefits @ 22.83%)	\$ 6,165.53	
4X4 Use 29 days @ \$ 35.00/day	\$ 1,015.00	
Fuel & Lubes	\$ 472.50	\$ 7,653.03
Logging & Splitting Core		\$ 7,055.05
7 days @ \$210.57/day	\$ 1,473.99	f 1 472 00
Maps & Report		\$ 1,473.99
5 days @ \$210.57/day	\$ 1,052.85	
Typing, Blueprinting, Copying Etc. Est	. \$ 250.00	
Assaying & Freight Charges	\$ 1,067.75	\$ 1,302.85
		\$ 1,067.75
		\$73,433.62

All work done on the Belle M.C. R.#467

D.C. Plecash GEOLOGIST



212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1

TELEX: 043-52597

TELEPHONE: (604) 984-0221

ANALYTICAL CHEMISTS

GEOCHEMISTS

REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

TO : GROOT D. . LOGGING LIMITED

MINERAL EXPLORATION DIVISION

ATTN: BUD PLECASH

BOX 520

SMITHERS . B.C. VOJ 2NO

: A8315176-001-A CERT. #

INVOICE # : 18315176

DATE 7-CCT-83 :

P.C. # : NONE

	Sample description	Prep code	Co %	Ag FA	Au FA		
183-1 3	355	207	<0.001	0.46	<0.003		 
- 3	356	207	<0.001	0.12	<0.003		 
- 3	357	207	<0.001	0.04	0.006		 
183-1A 3	358	207	<0.001	0.02	<0.003	:	 
L 3		207	<0.001	0.02	<0.003		 
- 3	360	207	<0.001	0.02	<0.003		 
- 3	3361	207	<0.001	0.10	<0.003	*	 
- 3	362	207	0.015	0.08	0.010		 
	3363	207	<0.001	0.04	0.008		 
	364	207	<0.001	0.06	<0.003		 
- 3	3365	207	<0.001	0.20	0.003		 
- 3	3366	207	<0.001	0.12	<0.003		 
- 3	3367	207	<0.001	0.12	<0.003		 
3	3368	207	<0.001	0.02	<0.003		 
<b>~</b> 3	3369	207	<0.001	0.04	<0.003		 
	3370	207	<0.001	0.12	<0.003		 
- 3	3371	207	<0.001	0.04	<0.003		 
- 3	3372	207	<0.001	0.10	<0.003		 
	3373	207	<0.001	0.02	<0.003		 
	3374	207	<0.001	0.04	<0.003		 
1 3	3375	207	<0.001	0.02	<0.003		 
	3376	207	<0.001	0.04	<0.003		 -
1.5	3377	207	0.001	0.04	<0.003		 
	3378	207	<0.001	0.08	<0.003		 
13	3379	207	<0.001	0.06	0.003		 
13	3380	207	<0.001	0.04	<0.003		 
	3381	207	<0.001	0.06	0.003		 



Registered Assayer, Province of British Columbia



212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1

TELEPHONE: (604) 984-0221

TELEX: 043-52597

· ANALYTICAL CHEMISTS

GEOCHEMISTS

REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

TO : GROOT D. . LOGGING LIMITED

MINERAL EXPLORATION CIVISION

ATTN: SUD PLECASH

3CX 520

SMITHERS . B.C. VOJ 2NC

CERT. # : A831573C-CO1-A

INVCICE # : 18315730 DATE : 26-CCT-83

P.C. # : NONE

	Sample	Prec	Ag FA	AU FA				
	description	code	oz/T	OZ/T				
183-2	3382	207	0.06	<0.003				
-	3383	207	0.10	<0.003				
~	3384	207	0.10	<0.003				
-	3385	207	0.12	0.003				
-	3386	207	0.08	<0.003	4-			
~	3387	207	0.10	0.030				
1	3388	207	0.06	<0.003				
-	3389	207	0.10	<0.003				
-	3390	207	0.08	<0.003				
-	3391	207	0.02	0.004				
/	3392	207	0.08	0.003				
-	3393	207	0.10	<0.003				
-	3394	207	0.12	<0.003				
	3395	207	0.06	<0.003				
>	3396	207	0.03	<0.003			-	
-	3397	207	0.12	<0.003				
-	3398	207	0.14	<0.003				
-	3399	207	0.84	<0.003				
-	3400	207	0.10	<0.003				
-	3401	. 207	0.04	<0.003				
-	3402	207	0.08	<0.003			22.	
-	3403	207	0.18	<0.003				
~	3404	207	0.10	<0.003		22		
-	3405	207	80.0	<0.003				
v	3406	207	80.0	<0.003				
1	3407	207	80.0	<0.003				
1	3403	207	0.10	<0.003				
1	3409	207	0.06	<0.003				
/	3410	207	0.06	<0.003				
-	3411	207	0.06	0.005				
V	3412	207	0.06	<0.003				
-	3413	207	0.02	0.003				
54 83 -6	3414	207	0.10	<0.003				



Registered Assayer. Province of British Columbia



212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1

TELEPHONE: (604) 984-0221

TELEX:

043-52597

· ANALYTICAL CHEMISTS

GEOCHEMISTS

REGISTERED ASSAYERS

\*\*\* INVOICE \*\*\*

To : GROOT D. . LOGGING LIMITED

MINERAL EXPLORATION DIVISION

ATTN: BUD PLECASH

BCX 520

SMITHERS . B.C. VOJ 2NC

Invoice # : 18315176

: 7-0CT-83

P.O. # : NONE

Project

Invoice for analytical work reported on certificate(s) A8315176-001

	Analysed for			unit	
Cuantity	code descript	ion		price	amount
27	323 - Co	z			
	383 - A9 FA	OZ/T			
	396 - AU FA	oz/T	100	16.50	445.50

Sample preparation and other charges:

27 207 - Assay - PULVERIZE

3.75

101.25

TOTAL \$ 546.75

Please pay this amount ---> \$ 546.75

TERMS -- NET 30 DAYS

1.5 % per month (18 % per annum) charged on overdue accounts

MEMBER CANADIAN TESTING ASSOCIATION

9035-92



212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1

TELEPHONE: (604) 984-0221

TELEX: 043-52597

· ANALYTICAL CHEMISTS

GEOCHEMISTS

REGISTERED ASSAYERS

\*\*\* INVCICE \*\*\*

To : GROOT D., LOGGING LIMITED

MINERAL EXPLORATION DIVISION

ATTN: BUD PLECASH

BCX 520

SMITHERS . B.C. VOJ 2NC

Invoice # : 18315730

Cate

: 26-DCT-83

P.C. # : NGNE

Project

Invoice for analytical work reported on certificate(s) A831573C-CC1

Analysed for unit Quantity code description price amount 383 - Ag FA 02/1 33 396 - AU FA 346.5C OZ/T 10.50

Sample pregaration and other charges:

33 207 - Assay - PULVERIZE

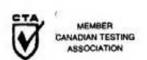
3.75 123675

TOTAL \$ 470.25

Please pay this amount ---> \$ 470.25

TER- -- NET 30 DAYS

1.5 % per month (18 % per arnum) charged on overdue accounts





# J. T. HOMAS DIAMOND DRILLING (1980) LTD.

PH. 847-3531 P.O. BOX 394 VOJ 2NO

## SMITHERS, B.C.

To: D. Groot Logging Ltd., Box 520

Smithers, B.C.

Invoice No: 83-1

Invoice Date: September 23, 1983

Property: Hazelton .

Groot Drill 38-7

Diamond Drilling

1264 ft @ \$49.00/ft.

\$61,936.00

(see attached page one)

TOTAL DUE -

\$61,936.00

The above calculations are agreed to by:

Company Representative

JA. Thomas Diamond Drilling (1980)Ltd.

E`

Latitude	Elevation 1926.0 m Bearing	D	epth 4	6.02 m.	_ Star	ted Aug	. 28/8	3 Comp	leted_A
Departur	re Section Dip90°	D	rilled	Ву	T. Thoma	ıs		By D.C.	Plecast
Depth	Pomotés	Sample No.	From	То	Width	02. Au		Assays	
metres 0 - 3.66m	Pormation Overburden		39.23	39.62	0.39m				
3.66m	Medium Grey Granodiorite - 0.24m of Core Loss	3356	39.93	40.54	0.61m	40.003	0.12	40.001	
8.23m		3357	45.39	45.57	0.18m	0.006	0.04	40.001	
8.23m	Lighter Granodiorite								
8.38m									
8.38m	Medium Grey Granodiorite								-
9.39m		_			-				
9.39m	No Core - Vug Hole	-			-				-
11.28m		-							
11.28m	Lighter Granodiorite	-							-13
11.80m	20 a/a 2	-		-				-	-
11.80m	Medium Grey Felsite Dyke	-	-					-	-
	12.71m to 14.33m - No Core	-			-				-
16.83m	14.33m to 16.83m - 1.28m Core Loss								

	PROPER	RTY ROUCHER			HOLE NO. V83-1									
(#)	Latitud	le	Elevation 1926.0	m Bearing	Depth 46.02 m. Started Aug. 28/83 Completed Aug									
	Departu	ire	Section	Dip90°	D	rilled	Ву_J.	By J.T. Thomas		Logged By D.C. Plecash				
4	Depth metres		Formation		Sample No.	From	То	Width			Assay	-		
			d Quartz Monzonite, Alt	cered and Oxidized										
1	21.15m				-		-	-		-	-	-		
1	21.15m	Medium Grey	Granodiorite							-				
		21.15m t	o 23.17m - 1.43m Core I	Loss										
		24.69m 1	o 26.52m - 0.12m Core I	Loss										
		26.52m t	o 29.57m - 0.37m Core I	Loss										
4		At 29.75	m there is a 3mm.band o	of Quartz with 3cm.						-				
		bands of	altered Granodiorite o	neach side, core to										
- 1 . DX		beds at	70°. At 28.83m there i	is 3 cm. of									3.1	
4		Granato	d Dvke. At 29.63m ther	re is 6 cm. of						_				
		Granato	d Dyke with core to bed	is at 65°.						-				
		At 30.39	m there is 6 cm. of Gra	natoid Dyke with						-				
		core to	beds at 65°											
		29.41m	o 29,63m has consideral	ole amount of										
THE STATE OF THE S		Cross fa	ulting in all direction	ns.									-	
N.		0.00100022201020	Order at which the particular production is a second		1					1 1				

	PROPERTY	ROUCHER DEBOULE - VICTORIA			1		HOLE	NO	V83-1				
, 38	Latitude	Elevation 1926.0 m	Bearing	D	epth 46	5.02 m	_ Start	ed Aug	. 28/8	3_ C	omplet	ed Aug	31/83
	Departure	Section	Dip90°	D	rilled	Ву_J.	. Thòma	s	Logged	Ву <u>г</u>	.c. P1	ecash	
	Depth metres	Formation	*****	Sample No.	From	То	Width	-		Assay	3		
		Porphyry and Horneblende with core	to beds at 50°										
	-	At 32.83m there is a 7 mm. band of	Granatoid Dyke			-			-				
		with core to beds at 42°.  At 35.63m there is a 3 mm. band of	Hornehlanda with				-		-				
		core to beds at 45°	norneorende with										
		35.78m to 35.91m has 3. 7 c. bands	of Horneblende										
i i		with core to beds at 40°						-					-
		and Horneblende with core to beds	Price Contract Contra			-		-					
		At 37.43m there is a 7 mm. band of											
		with core to beds at 40°											
		39.23m to 39.62m has mixed Feldspa	r Porphyry with		15	-							
		quartz bands - oxidized	Paralama vist										
		39.93m to 40.54 has mixed Feldspar quartz bands - oxidized	rorphyry With										
1		41.09m to 44.71m Darker Granodiori	te								- 1		

	PROPERTY	ROUCHER DEBOULE - VICTORIA			-1.		HOLE	NO	V83-1				-
gie.	Latitude_	Elevation 1926.0 m	Bearing	D	epth <u>4</u>	6.02 m.	_ Start	ed Aug	. 28/8	3 Co	omplete	d Aug	31/83
Į.	Departure_	Section	Dip90°	D	rilled	Ву	. Thoma	s	Logged	By D	.C. Ple	cash	-
	Depth metres	Formation		Sample No.	From	То	Width		[	Assays	3		
		45.39m to 45.57m Feldspar Porphy	ry - oxidized										
	46.02m	46.02m Caved and broken Rods											
0.3		END OF HOLE											
		·	(4)										
												a.	
												-	
		3:											
			* .				1:						

1	PROPER	TY ROUCHER DEBOULE - VICTORIA		1.00		HOLE	NO	V83-1	Α		-	
*	Latitude	Elevation 1926.0 m. Bearing 180°	D	epth_	213.97	n. Star	ted_Aug	31/83	Comp1	eted Sept	3/83	
	Departu	reSectionDip85°				. Thoma	NQ SIZE - 0 to 45.72 m. BQ SIZE - 45.72 to 213.97 m					
a a	Depth metres	Formation	Sample No.	From	То	Width	oz Au		Assays % Co	T		
	0 -	Overburden	3358	48.52	49.13	0.61m	40.003	0.02	₹0,∞1			
(4)		Medium Grey Granodiorite	3359	53.74	54.80	1.06m	6.003	0.02	10.001		-	
AMAGA		8.38, to 8.53m has lighter Granodiorite	3360	86.81	87.08	0.27m	40.003	0.02	10.001			
		4.57m to 5.18m - 0.21m core loss	3361	91.56	92.48	0.92m	0.0/0	0./0	60001			
		5.18m to 8.23m - 1.62m core loss	3362	128.6	129.24	0.55m	0.008	0.08	0.015	-		
5		8.23, to 10.67, - 1.92m core loss	3363	130.46	130.97	0.51m	40.003	0.04	40.001			
	11.28m	10.67m to 11.28m - 0.24m core loss	3364	130.9	132.28	1.31m	0.003	0.06	40.00/	+-+		
	11.28m	Medium Grey Felsite Dyke	3365	132.28	133.35	1.07m	40.003	0.20	40.001			
	17.07m	11.28m to 17.07m - 4.82m core loss	3366	133.3	134.91	1.56m	20.003	0./2	60.001	_		
	17.07m	Medium Grey Granodiorite	3367	134.91	136.25	1.34m	10.003	0.12	40,001			
		17.07m to 20.42m - 1.07m core loss	3368	136 25	138.53	2.28m	40.003	0.02	40.001			
		At 19.81m there is a 7 mm. band of quartz with core	3369	138.53	139.97	1.44m	40.∞3	0.04	40.001			
4.,		to beds at 45°	3370	139.9	141.73	1.76m	40.003	0.12	40.001			
100 100 100		21.34m to 21.79m - ground up core	3371	141.73	142.34	0.61	40.003	0.04	40.001			
		22.56m to 23.17m has oxidized yellowish colour mud.	3372	142.34	144.17	1.83	60.003	0.10	40.00/		-	
de Civil			2272	144 13	1/15 85	1 68	10 003	002	40001	1.		

	PROPER	RTY ROUCHER DEBOULE - VICTORIA	HOLE NO. V83-1A									
**	Latitud Departu	Di- ose						Completed Sept				
	Depth	h   Sar		Sample From		Width		T A.	Assays	<del></del>		
	metres	Formation 23.47m to 23.77m has oxidized yellowish coloured	No.	1		1.61m						
		mud				0.98m	1		1	+++	-27	
and Course 1	24.87m	24.14m to 24.87m Ground core - oxidized (Monzonite  Medium grey Granodiorite with numerous small vug hole	0077			0.55m			1 1			
1		that are with small quartz crystals	3378			0.39m				-		
-	-	26.76m to 26.85m has Feldspar Porphyry with a 3 mm. stringer of quartz in the middle with core to bed	and the second second		150.36	0.52m	40.003					
		at 75°				0.12						
		At 29.99m there is a 3 cm. band of Granatoid Dyke	-	-								
DO DO DO DO DO DO DA		At 30.51m there is a 3 cm. band of Granatoid Dyke 34.05m to 34.35m has a few stains of Robin Egg Blue										
		color (Azurite) at about 1 cm. in size appearing	-					-				
		on the fractures.										
- 5÷		At 34.35 there is a 5 cm. band of mixed Quartz and Horneblende with core to beds at 45°					-				27	
		34.44m to 35.51m has numerous 6 mm. bands of			N 15							

	PROPER	RTY ROUCHER DEBOULE - VICTORIA	-	HOLE NO. V83-1A									
4	Latitud	deElevation_1926	.0 m. Bearing 180°	D	epth_2	213.97	m. Star	ed_Au	g 31/8	c	mpleted	Sept 3/83	
	Departu	ure Section	Dip85°	D	rilled	Ву_ <u>Ј.Т</u>	. Thoma	<u> </u>	Logge	By_D	.C. Ple	cash	
	Depth metres	Formation	Formation		From	То	Width	h !		Assays			
		Horneblende with core to be	eds_at 45°				-						
		38.34m to 38.59m Mixed Quart with core to beds at 35°	tz and Feldspar Porphyry										
		38.86m to 39.05m - Mixed Quar	rtz, Feldspar Porphyry		·								
		and Granodiorite.  At 41.91m there is a 7 mm. ba	and of Hornehlende with									-	
		core to beds at 35°	ALL SA HATHER HATH										
		43.01m to 43.59m has mixed Fe	- 100 - C S-0 V - 1										
		44.35m to 45.20m Small 6 mm.	bands of Quartz and										
	45.72m		AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I								+		
		45.72m to 47.55m - 0.64m core											
0.750 (600)		At 47.61 there is a 5 cm. ban	nd of Quartz		-					-	-	-	
		Monzonite 48.52m to 49.13m - Mixed oxid	dized Feldspar Porphyry										

PROPERT	Y ROUCHER DEBOULE - VICTORIA		•		HOLE	№	V83-1A		·····	-
Latitude	Elevation 1926.0 m. Bearing 180°	D	epth_2	13.97	m. Start	ed Aug	31/83	Сошр	leted_S	ep!
Departur	e Section Dip85°	D	rilled	Ву <u></u> Ј.Т	. Thomas	I	ogged	Ву р.с	Plecasi	1_
Depth metres	Formation	Sample No.	From	To	Width		^	ssays		_
49.84m	and Quartz with 0.24m of core loss									
49.84m	Medium Grey Granodiorite						_			1
	At 51.88m has 3 mm. of Horneblende with core to						_	-	_	4
	beds at 50°		-			-	-	-	-	+
	At 51.97m has 3 mm of Hornblende with core to					$\dashv$	-		-	+
	heds at 50°			-			-		+	+
52.27m	At 52.12m has 15 mm, of Horneblende with core to beds at 50°									1
52.27m	Darker Grey Granodiorite with the ground mass having									1
	a brownish coloured hue.						_			1
	53.74m to 54.80m - Feldspar Prophyry mixed with	-	-				-	_	-	+
-	Dark Granodiorite.		-			-	+	-	-	+
	At 55.87m there is a 3 cm. band of Quartz Monzonite	-	-			-	-	-	-	+
57.91m	with core to beds at 50°					-	+	+	+	1
57.91m	Medium to Light Grey Granodiorite					-	1	-		-

1	PROPERTY ROUCHER DEBOULE - VICTORIA				HOLE NO. V83-1A										
	Latitude	Elevation 1926.0 m.	Bearing 180°					ed Aug 31/8							
1	Departur	reSection	Dip85°	_ Dril	lled 1	Ву <u>Ј.Т.</u>	Thomas	Logge	ed By D	.C. Pleca	sh				
			ISam	ple					Assays						
	Depth metres	Formation	No	Fr.	rom	То	Width								
		At 58.67m there is a 3 mm. band of He	orneblende with						+-						
* "		core to beds at 40°			-				4						
		61.24m to 62.48m - Quartz Monzonite	with Biotite		-				-		-				
		Flakes changing from a black color	to a silvery	-	-					(in the last of th	-				
	62.82m	white colour.			-				-						
	62.82m	Medium Grey Granodiorite			-										
		At 70.84, there is a 15 mm. band of	Hornblende						+		-				
		with core to beds at 40°		-	-				-12 px 1						
E-, + , , ,		Lighter Granodiorite between 70.56m	to 71.17; 72.24n		+				-		-				
	74.07m	to 73.15m and 73.31m to 74.07m		-	-				-	-	_				
, and the second	74.07m	Dark Grey Granodiorite with the ground	mass having a	$\dashv$	+				-	-	1				
		brownish coloured hue. This area of	of Granodiorite						-						
	-	with the ground mass being more ho	omogenous than	-					1						
. 1	76.96 m	normal has a greater amount of Phe	enocrysts.	-							_				
	76.96m	Medium Grey Granodiorite							-						
	AMON A	79.80m has a 3 cm band of Quartz Mon	zonite with												

	PROPERTY ROUCHER DEBOULE - VICTORIA HOLE NO. V83-1A									
	Latitud	eElevation_1926.0 m. Bearing	180°	Depth 2	13.97	<u>m.</u> Start	ed Aug 3	11/83 (	ompleted	Sept 3/83
	Departu	reSectionDip85	•	Drilled	Ву <u>Ј.Т</u>	. Thoma:	s Lo	ogged By_	D.C. Plec	ash
	Depth metres	Formation	Samp No.	ole From	То	Width		Assay	s	
		core to beds at 40°								_
.5:		82.11m to 84.80m shows the core to darker gr	ey with						-	
		a brownish hue colour to the ground mass								
		At 84.25 there is a 6 mm. band of Quartz wit	h core							
		to beds at 20°								
		86.81m to 87.08m - Oxidized Feldspar Porphyr	.v							_
		91.56m to 92.48m - Horneblende with a 0.15m	band				-			
**************************************		of Quartz at end of zone core to beds at c	contacts							
	(	are 45° and 40°		$\perp$						
		95.25m to 98.30m - much fracturing with narr	ow .							_
	123,45m	bands of oxidized mud on the fractured fac	ces		PE .			_		
	123.45m	Medium Grey Granodiorite. Core broken up. Soft	and							
		sandy					-			
		124.97m to 125.88m - 0.3.m core loss								
* **		125.88, to 127.71m - 1.83m core loss								
		127.71m to 128.32m - 0.15m core loss								

	PROPERTY	ROUCHER DEBOULE - VICTORIA			Ä		HOLE	NO	NO. V83-1A						
÷ ·	Latitude_	Elevation 1926.0 m.	Bearing 180°	D	epth_2	213.97	m. Star	ted_Au	31/8	3 0	Complet	ed_Se	pt 3/8		
***************************************	Departure	Section	Dip85°	D	rilled	Ву <u>Ј.Т</u>	. Thoma	s	Logge	d By_	D.C. P	lecash			
	Depth metres	Formation		Sample No.	From	То	Width			Assay	3				
	ا ا	128.69 m to 129.24m - 0.30m core	loss							_					
		129.54m to 130.46m - 0.61m core	loss							_					
	130.46m	128.69m to 129.24m - Horneblende											L.,		
	130.46m	Feldspar Porphyry								_					
		At 130.46m there is 6 cm. of Horr	neblende												
36		130.46m to 132.89m has 0.12m of c	core loss												
		The Feldspar Porphyry is more der	ser and darker												
	4	than normal to 130.97m then tak	es on a greenish												
4 4 4	1	huè up to 132.28m.										16.			
		At 133.20m there is a 6 cm band o	of Horneblende	4											
		140.82m to 142.34m less Feldspar	Phenocrysts												
	142.34m	and an increase in chlorite	,												
-	142.34	Medium Grey Granodiorite with small	particles												
		of Arseno Pyrite throughout.													
1.54		At 144.17m there is a 6 cm band o	f Feldspar				÷								
		Porphyry.	( <del>4</del> )												

	PROPERTY ROL	CHER DEBOULE - VICTORIA					HOLE	NO	V83-1A			
3	Latitude	Elevation 1926.0 m.	Bearing 180°	D	epth_2	13.97	m. Start	ed Aug	31/83	Сош	pleted_Se	pr 3/83
	Departure	Section	Dip85°	D	rilled	Ву <u>Ј.Т</u>	. Thomas	I	ogged	By_D.C	C. Plecast	
	Depth metres	Formation		Sample No.	From	То	Width			ssays		
		at 145.24m there is a 3.cm band o	f. Quartz						-	-		
	•	Monzonite with core to beds at At 145.85m there is a 5 cm band o				`				+		
		Porphyry										
(4)		147.46m to 150.36m - Some oxidizi	ng stain in the					-	+	-	-	
		core. At 146.64m and 146.82m there are	3 mm bands of									
		Horneblende that has the core l	eached on each					-	-	-	-	
		side of the bands for 7 cm in 1	ength. Core to					$\dashv$	+	+	-	
		148.44m to 148.99m has mixed oxid	lized Feldspar									
		Porphyry and Granodiorite.				-		+	-	+	-	
		0xidized Feldspar Porphyry then										
		Porphyry and Granodiorite.							-	_		
		149.45m to 149.84m has a 12 cm ba	and of oxidized							-		

	PROPERT	Y ROUCHER DEBOULE - VICTORIA		£		HOLE	NO	V83-	1A	-	
44	Latitude	Elevation 1926.0 m. Bearing 180°		epth_2	13.97	m. Star	ted_Au	g 31/8	3 <u> </u>	Complet	ed Sept 3/8
	Departure	Section Dip85°	D	rilled	Ву <u>Ј.Т</u>	. Thoma	s	Logge	d By_	D.C. P	lecash
	Depth metres	Formation	Sample No.	From	То	Width		ī	Assay	5	
	4	Feldspar Porphyry then clean Feldspar Porphyry									
	-	149.84m to 150.36m has mixed Feldspar Porphyry		1				-			
	150.36m	and Granodiorite									
	150.36m	Medium Grey Granodiorite	-					-			
		3 cm band of Feldspar Porphyry at 151.79m with core to beds at 80°									
		At 151.79m there is a 2 mm band of Horneblende									
		with leaching on each side for a distance of  2 cm in length			-						
		160.48m to 160.69m has leaching with small									
		stringers of Horneblende									
		161.24 to 162.16m has leaching with small					-				
	<b>'</b>	stringers of Horneblende scattered throughout						10			
1	,	168.83m to 169.17m - Dark Basalt Dyke with core									
		to beds at 45°  169.35m to 170.02m - mixed Feldspar Porphyry					-			-	

	PROPERT	Y ROUCHER DEBOULE - VICTORIA		i.e		HOLE	NO	83-1A		
45	Latitude	Elevation 1926.0 m. Bearing 180°	D	epth 2	13.97	m. Start	ed Aug 3	1/83 C	ompleted_S	ept 3/83
	Departur	SectionDip85°	D	rilled	Ву Ј.Т	. Thomas	Lo	gged By	D.C. Plecas	h
	Depth metres	Formation	Sample No.	From	То	Width		Assay	s L	
		with Granodiorite and a soft oxidized intrusion (Trachyte Dyke)								
		170.78m to 170.99m has mixed Basalt and								
	171.79m	171.54m to 171.57m - Basalt Dyke					-			
	171.79m	Light Granodiorite with occassional 3 mm bands of Horneblende running across core axis at 45°								
	-	At 181.51m there is a 5 cm band of Quartz Monzonit					-	-	3	
		with core to beds at 30° 186.54m to 186.66m has leached out soft								
	196.66	Granodiorite and Feldspar Prophyry that is slightly oxidized and stained								
¥	186.66m	Medium Grey Granodiorite								
****		At 189.10m has a 3 cm band of Feldspar Porphyry somewhat oxodized								
		189 77m to 191 05m has some parrow bands of								

	PROPERTY	ROUCHER DEBOULE - VICTORIA		ž.		HOLE	NO	V83-1A		
£	Latitude_	Elevation 1926.0 m. Bearing 180	0	Depth_2	213.97	m. Star	ted_Aug	31/83	Completed	Sept 3/83
	Departure_	SectionDip85°		Drilled	Ву <u>Ј.Т</u>	. Thoma	<u>s</u> I	Logged By_	D.C. Plec	ash
	Depth metres	Formation	Sampl No.	From	То	Width		Assay	73	
		Quartz Monzonite								
		190.93m to 191.05m - Quartz Monzonite with sm	all		<u>.                                    </u>					
	191.05m	flecks of Arseno Pyrite								
	191.05ш	Darker Grey Granodiorite								
		At 193.67m there is a 3 cm band of soft Calci	te							
÷.		with 3 cm bands of Quartz on each side of t	he							
		Calcite.	-							
		At 194.53m has a 15 mm band of softCalcite wi	th							
		3 cm bands of Quartz on each side of the								
		Calcite.								
		At 196.17m there is a 6 cm band of Basalt Dyk	e							
		with core to beds at 65°								
		196.20m to 197.36m the ground mass has a pink	ish							
		orange hue.								
7		198.03m to 199.34m has mixed bands of soft								
1		Quartz Calcite with Quartz and								

	PROPERTY_	ROUCHER DEBOULE - VICTORIA				HOLE	NO	3-1A		
9	Latitude	Elevation 1926.0 m. Bearing 180°	D	epth_	213.97	m. Start	ed_Aug_31	/83	Complet	ed Sept 3/83
5	Departure_	Section Dip85°	D	rilled	Ву <u>Ј.Т</u>	. Thomas	Log	ged By	D.C. P	lecash
	Depth metres	Formation	Sample No.	From	То	Width	·	Ass	ays	
		Granodiorite (Fault Zone)					-	-		
		203.46m to 203.88m core is broken, ground up and			-			+	+	
		recemented (Fault Zone)  204.22. to 204.52m - soft Quartz Calcite								
		204.52m to 204.65m Feldspar Porphyry with a					-	+	-	
(4)		10 mm band of slightly oxidized Quartz and some flecks of Arseno Pyrite at 204.61m						+	+-	
		At 205.59m there is a 9 cm band of Quartz								
		Monzonite						+	-	
		208.36m to 208.82m has lighter Granodiorite with	-				-	-	-	-
		a few bands of Horneblende core to beds at 40°  At 208.82m there is a 3 cm band of Feldspar								
		Porphyry and Quartz with core to beds of 45°						-		
		211.32m to 213.67m has ground mass a little			131-21-		-	+	+-	
		pinkish orange hue.					-	-	-	

		AND		· ·		HOLE	NO.	v83-2			
•	PROPERTY	ROUCHER DEBOULE - VICTORIA		5.					4 1 230		
	Latitude_	Elevation 1794.4 m. Bearing 126°	D	epth_l	25.27 n	. Start	ed_SE	PT 5. 1	983 Compl	leted SEP	T 15
	Departure_	Section Dip -73°	D	rilled	Ву				By D.C.		
						BC	SIZE .	- 29.11	29.11m m to 125	.27m	
	Depth	Formation	Sample No.	From	To	Width	oz Au	z Ag	Assays % Co		
	metres 0 - 5.18m	Overburden	3382	44.81	45.02	0.21m	10,003	0.16			
2.2		Medium Grey Granodiorite	3383	49.84	51.05	1.21m	40.003	0.10			
		5.18m to 6.10m - 0.52m core loss	3384	51.05	52.52	1.47m	40003	0.10			
		6.10m to 8.23m - 0.46m core loss	3385	52.52	53.40	0.80m	0.003	0.12			
		8.23m to 11.28m - 0.40m core loss	3386	60.11	60.32	0.21m	40,003	0.08			
1		12.04m to 13.11m - 0.61m core loss	3387	61.02	61.45	0.43m	0.030	0.10			
		13.11m to 13.72m - 0.30m core loss	3388	63.70	65.29	1.59m	10.003	0.06			
Ä		13.72m to 16.46m - 1.16m core loss	3389	65.29	67.06	1.77m	10,003	0.10			
, 3		16.46m to 17.37m - 0.43m core loss	3390	67.06	68.58	1.52m	40.003	0.08			
and a		17.37m to 17.98m - 0.06m core loss	3391	68.58	70.10	1.52m	0.004	0.02			
		17.98m to 19.51m - 0.91m core loss	3392	70.10	71.63	1.53m	0.003	0.08			
		At 9.30m there is a 3 mm. band of Horneblende	3393	71.63	73.15	1.52m	1.0003	0.10			
		with core to beds at 65°	3394	73.15	74.68	1.53m	40,003	0.12			
3.		At 11.13m there is a 3 mm. band of Quartz with	3395	74.68	76.57	1.89m	40.003	0.06			
×		small flakes of Molybdenite appearing in it.	3396	76.57	78.33	1.76m	60,003	0.08			
	10 81m	The core is leached for 15 mm, on each side of	3397	78.33	79.01	0.68m	10.003	0.12			

the Quartz and core to beds is at 65°

	PROPERTY ROUCHER DEBOI	ILE - VICTORIA			HOLE NO.	V83-2
	Latitude	Elevation 1794.4 m.	Bearing 126°	Depth 125.27 m.	Started_S	EPT 5, 1983 Completed SEPT 15/83
1	Departure	Section	Dip	Drilled By J.T.	THOMAS	Logged By D.C. PLECASH

Depth		Sample	From	To	Width	L		Assays			
metres	Formation	No.	From	10	Widen	oz Au	oz Ag	% Co			
19.81m	The Granodiorite is much darker with a brownish hue	3398	79.01	80.16	1.15m	40,003	0.14				
	in the ground mass	3399	80.16	81.08	0.92m	40.003	0.84				
	22.86m to 23.17m - sand - vug hole	3400	81.08	82.45	1.37m	4003	0.10				
24.69m	20.42m to 21.95m - 0.46m core loss	3401	82,45	83.09	0.64	40.003	0,04				
24.69m	Medium Grey Granodiorite	3402	83.09	83.52	0.43m	8003	0.05				
	23.17m to 25.91m = 0.40m core loss	3403	83.52	85.35	1.83m	40.003	0.18				
	25.91m to 26.82m - 0.61m core loss	3404	85.35	86.87	1.52m	£1003	0.10				
	26.82m to 28.36m - 0.30m core loss	3405	86.87	88.15	1.28m	40003	0.08				
	26.88m to 27.19m has the Granodiorite much lighter	3406	88.15	88.39	0.24m	40.003	008				
	with a few 3 mm. bands of Horneblende that has a	3407	92.45	92.90	0.45m	40,003	008		-		
	core to bed of 30°	3408	94.06	94.43	0.37m	10,003	0.10				
	28.35m to 30.05m has core ground up	3409	99.67	100.16	0.49m	10,003	0.06			_	
	29.26m to 29.57m has core much lighter in colour	3410	100.16	101.19	1.03m	40.003	0.06				
	At 30.18m there is a 2 mm, band of Quartz with core	3411	101.19	101.50	0.31m	0.005	006	_			
	to beds at 80°	3412	101.50	102.23	0.73m	40003	0.06				
	32.92m to 35.36m ground up core with sand - 1.83m	3413	102.23	103.45	1.22m	0005	002				

core loss

	PROPERT	Y ROUCHER DEBOULE - VICTORIA				HOLE	NO	83-2		
	Latitude	Elevation 1794.4 m. Bearing 126	· I	epth_1	25.27	m. Start	ed_SEPT	5, 1983	Completed	SEPT
*	Departur	e Section Dip73°		rilled	Ву	T. THOMA	<u>S</u> Lo	ogged By_	D.C. PLEC	ASH
	Depth metres	Formation	Sample No.	From	То	Width	<u></u>	Assa	V3.	
\$ - J. x"		35.36m to 38.10m - ground up core with sand - 2.0	im .				-		1	_
**	•	core loss		-		-	-	-	++	-
		38.10m to 38.71m - 0.30m core loss	-			-		-	++	-
	38.41m	38.71m to 39.32m - 0.06m core loss  Dark Grey Granodiorite with ground mass having a							++	+
	30.411	brownish hue								
		40.23m to 41.76m - 1.13m core loss		_		*			-	$\dashv$
4:	1	41.76m to 42.98m - 0.30m core loss	-			-	-	+	-	-
*		42.98m to 43.89m - 0.46m core loss 43.89m to 44.81m - 0.70m core loss								7
	STEEL	44.81m to 45.02m - mixed Quartz and Feldspar Porpl	угу		4					1
		slightly oxidized	-							-
*	46.04	45.42m to 46.63m - muddy Granodiorite with	-		-		-	-		+
	46.94m	Medium to Light Coloured Grey Granodiorite with small	1							
		bands of Horneblende at 50° to core axis								

Departur	e Section Dip73°	D	rilled	Ву	THOMA	S	Logge	d By_I	.C. PI	ECA
Depth	Formation	Sample No.	From	То	Width		$\Gamma$	Assay	s	T
metres	49.84m to 51.05m has mixed Quartz Monzonite and Ligh							-	_	-
	coloured Granodiorite				-	-	-		-	+
	51.05m to 53.40m has Quartz Monzonite with a few 3 m	h				-	-	-		+
53.40m	bands of Horneblende					_	+-	-		+
53.40m	Medium to Dark Grey Grnandiorite				4 17 17 18	1	-			+
	59.44m to 59.74m - ground core 0.15m of core loss		-		,		1			$\vdash$
,	60.11m to 60.32m has a mixture if oxidized Feldspar									
	Porphyry and Quartz with core to bed at 50° 61.02m to 61.45m has a mixture of oxidized Feldspar									
61.45m	Porphyry and Quartz.					357.544				
61.45m	Lighter Grey Coloured Granodiorite - leached out with									-
63.70m	large coarse Phenocrysts					E.	ļ	_		L
63.70m	Feldspar Porphyry						-	-		-
	63.70m to 65.29m has a dark greenish grey ground mas	ss					-	-		-
1	with light coloured Phenocrysts.					~ =		-		-
	65.29m to 73.15m core has a lighter grey ground mass									Ŀ

with much more Phenocrysts

	Elevation 1794.4 m. Bearing 126°	n	enth i	25 27	m. Star	ted c	ppr 5	1083	Comple	tec
Departur					r. THOM					
Depth metres	Formation	Sample No.	From	То	Width	F.	1	Assa	ys_	_
	70.10m to 72.85m has more Quartz bands appearing									1
73.15m	72.85m to 73.15m has the core ground up - Fault Zone						-	-	-	+
73.15m	Feldspar Porphyry with ground mass being darker grey				-		-	-	-	+
	At 73.46m there is a 3 cm. band of oxidized Quartz									+
	At 74.07m there is a 3 cm. band of oxidized Quartz									1
76.57m	with core to beds at 80°						_			1
76.57m	Mixed Altered Quartz and Feldspar Porphyry with some	·								1
78.30m	76.57m to 76.93m Oxidized Quartz						_			1
78.30m	Dark Greyish Green Dense Feldspar Porphyry with less					1	-			1
78.97m	Phenocrysts than normal	-	-							1
78.97m	Mixed Altered Quartz and Feldspar Porphyry with with Granodiorite appearing between 79.65m and									
78.97m	79.95m									1.

-	PROPERTY	YROUCHER_DEBOULE - VICTORIA	3			HOLE	NO	V83-2	2		····
	Latitude_	Elevation 1794.4 m. Bearing 126°	D	epth_l	25.27 1	. Star	ted_SE	PT 5.	1983	Complet	ed_SE
ā	Departure	Section Dip -73°	D	rilled	Ву	r. THOMA	s	Logge	d By_	O.C. PI	ECASH
	Depth metres	Formation	Sample No.	From	То	Width			Assay	13	
	80.16m	Oxidized Quartz							_		
		80.62m - Fault Zone				-			_		
1		80.62m to 80.74m the core is broken up and has some	-			-			-		-
	81.08m	80.74m to 80.86m - core well broken up	-		-	-		-	-		
ŞÎ.	81.08m	Mixed Feldspar Porphyry and Dark Grey Granodiorite									
		81.08m to 81.20m - dark brown Granodiorite									
		81.20m to 81.26m - oxidized Quartz									
		81.38m to 81.69m - Granodiorite		_					_		
6037	-	81.69m to 81.81m - dark brown Granodiorite, Feldspa	r	-	-						
	-	Porphyry and Quartz		-	-		-	-			
		81.81m to 82.18m - mixed Granodiorite and Feldspar		-							
×	82.45m	Porphyry  82.18m to 82.45m - Feldspar Porhyry		-							
	82.45m	Granodiorite .									
		83.09m to 83.52m = Feldspar Porphyry									

	PROPERTY	ROUCHER DEBOULE - VICTORIA		(2)	HOLE NO. V83-2								
	Latitude	Elevation 1794.4 m.	Bearing 126°	De	epth_12	5.27 m	_ Start	ed_SEPT	5, 1983 C	ompleted	SEPT 15/83		
,	Departure_	Section	Dip73°	D1	rilled	Ву <u>ј.т</u>	THOMAS Logg		gged By_D	ged By D.C. PLECASH			
	Depth metres	Formation	S	Sample No.	From	То	·Width	·Ţ	Assay	s 			
		83.52m to 84.13m - the Granodiorite	ground mass is										
		lighter and sand coloured. leached  84.13m to 88.15m - Granodiorite ground mass is											
		darker and sand coloured			-			-	-		-		
4	The second second	88.15m to 88.39m - mixed Feldspar Po 89.61m has a 15 mm. band of mixed Q		Z									
		Horneblende						+	_		-		
		89.61m to 89.80m - light leached Gra  At 91.90m there is a 3 mm. band of H											
		with a 5 cm. zone of leached Grano	diorite on		-			-	-	-			
		each side 92.45m to 92.90m - leached Granodior	ite with numerou	q									
		3 mm bands of Horneblende that lay											
-		93.18m to 93.30m - leached Granodior 94.06m to 94.43m - mixed Feldspar Po		-	-	-		+	+	-			
naco.		and Granodiorite	LPHYLY, QUALCE										

54	PROPERTY_	ROUCHER DEBOINE - VICTORIA				HOLE	NO	V83-2					
	Latitude	Elevation 1794.4 m. Bearing	126° I	Depth_1	25.27	L Start	ed_SE	PT 5. 1	983 Com	leted_SE	PT 15/8		
	Departure_	Section Dip -73°	· I	rilled	Ву	THOMA	s	Logged By D.C. PLECASH					
	Depth metres	Formation	Sample No.	From	То	Width			Assays				
		95.71m to 95.78m - leached Granodiorite									-		
	-	96.81m to 96.90m - leached Granodiorite  99.18m to 99.67m - Granodoirite ground mass ha	36							+			
		dark brown hue then fades to a white leached cold											
		99.67m to 99.79m - mixed Feldspar Porphyry and							-		-		
		Quartz with some small specks of Arsenopyric visible	te			2							
		99.79m to 100.16m - mixed bands of Quartz and											
		Feldspar Porphyry	-				_		-	-	-		
		band of Quartz at 100.59m that has core to											
		at 65°							-	-			
		100.65m to 101.19m - Granodiorite ground mass							-				
1		a dark brown hue then fades to a white color									·		
		and Quartz stringers							1				

. P	ROPERT	Υ			6		HOLE NO. 183-2					
· L	atitude_	Elevation	Bearing						c	omplet	ed	
p D	eparture)	Section	Dip					Logged	Ву	у		
	Depth metres	Formation		Drilled By   Logged By   Sample   From   To   Width   Assays   No.   With 2   D2m and   at 45°   ar Porphyty   leached   leached   leached   Drilled By   Logged By   Assays   Drilled By   Logged By   Drilled By   Logged By   Drilled By   Logged By   Drilled By   Logged By   Drilled By   Drilled By   Logged By   Drilled By   Dr								
		101.87m to 102.23m - leached Gra	nodiorite with 2									
		small 7 mm. bands of Horneblen	de at 102.02m and									
		102.05m respectively with a co	re to beds at 45°									
		102.23m to 103.45m - mixed zones	of Feldspar Porphyr	у								
4.		and Granodiorite										
1		104.03m to 105.55m - leached Gra	nodiorite									
		106.19m to 106.38m - leached Gra	nodiorite									
		107,60m to 108.66m - mixed 6 cm.	bands of leached									
		Granodiorite and fresh Granodi	orite									
		108.81m to 125.27m - lighter gro	und mass									
	125.27	115.34m to 115.52m - leached Gr	anodiorite									
CONTRACT OF THE PERSON OF THE	125.27	125.27m - END OF HOLE										
941												
3												
	7 1						-	***			-	

