

86-766-15320

DIAMOND DRILLING REPORT

BLONDIE 2 CLAIM
GOLDEN MINING DIVISION
Horsethief Creek Area
N.T.S. 82K/9W

LATITUDE: 50° ~~23~~ 27"
34.4'

LONGITUDE: 116° ~~34~~ 10"
23.4'

OWNERS/OPERATORS

G. Larrabee
V. Winser
V. Newbury
J. Pannatoni

Work performed from May to September 1986

REPORT BY:

D.L. Pighin
Geologist
Cominco Ltd

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,320

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DRILLING LOG.	Attached
LOCATION MAP.	In Pocket

DIAMOND DRILLING REPORT

BLONDIE 2 CLAIM

Golden Mining Division

THIS REPORT WAS PREPARED IN THE COURSE OF EMPLOYMENT WITH COMINCO LTD. NIETHER I NOR COMINCO HAD AT THE TIME THE WORK WAS DONE, NOR PRESENTLY HAVE, ANY BENEFICIAL INTEREST IN THE PROPERTY.

1.00 GENERAL STATEMENT

This report outlines the results of diamond drill holes number B86-1 and number B86-2. These holes are both collared on the Blondie #2 claim. A total of 143.3 m of AQ core was drilled at a cost of \$65 per meter. Total expenditures related to this diamond drilling program amounts to \$9,314.50.

2.00 INTRODUCTION

2.10 Status of Ownership

The Blondie claims are jointly owned by G. Larrabee, V. Winser and V. Newbury of Invermere, B.C. and J. Pannatoni of Kimberley, B.C.

2.20 Location and Access

The Blondie claims are located on the north side of Horsethief Creek, approximately 36 km by good road from Invermere, B.C.

2.30 Topography and Vegetation

Elevation on the property ranges from 1092 meters to 2286 meters above sea level. The area south of Horsethief Creek has been logged in the past and the vegetation is now made up of fairly dense brush interspersed with small to medium sized trees.

To the north of Horsethief Creek, the property lies in an area of mature timber consisting of fir and lodgepole pine.

2.40 Objective

To explore the widths and grades of massive sulphide beds down-dip from surface exposures.

3.00 SUMMARY OF GEOLOGY AND MINERALIZATION

The Blondie property is underlain mainly by steeply dipping Hadrynian clastics (Horsethief Fm.). Sediments which underly the claims are members of the lower part of the Horsethief Fm. These sediments are dominantly thin bedded black graphitic slate,

phyllitic argillite and interbedded silty limestone with minor quartz grit, quartz pebble conglomerate and rare limestone.

Four massive sulphide beds are known to occur in the phyllitic argillite-silty limestone unit. At surface the sulphide beds range in thickness between 0.20 m and 2.8 m. The massive sulphide consists of mainly pyrrhotite, pyrite, minor chalcopyrite and very rare bismuthinite. The best average grade over a 2.8 m width is 0.27% Cu, 0.015% Bi and 0.034 oz. per ton Ag.

4.00 DIAMOND DRILLING

Two diamond drill holes B86-1 and B86-2 were drilled on the property by the owners. Diamond drill hole B86-1 was collared at -90°, 2 meters east of the hangingwall of the western sulphide bed. This hole intersected two sulphide beds. The upper sulphide bed between 3.4 and 5.0 m correlates with the sulphides exposed by surface trenching. The second sulphide bed in the hole occurs 11.5 m below the upper horizon. The up-dip projection of the lower sulphide bed is covered by overburden.

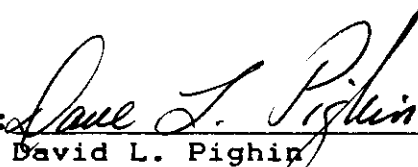
Diamond drill hole B86-2 was collared at -60° west and 100 m north of DDH B86-1. This hole intersected the western sulphide bed at a point 62 meters down-dip from the surface exposure. The sulphide bed at the point of intersection shows no improvement in the thickness or grade over that which is exposed by surface trenching.

The massive sulphide beds in both holes are all similar in composition, mainly pyrrhotite, pyrite, minor chalcopyrite and very rare bismuthinite.

5.00 CONCLUSION

Both diamond drill holes accomplished their objectives. The holes did intersect the target sulphide horizon at shallow depths but did not find any significant improvement in the grades or thickness.

Report by:


David L. Pighin
Geologist
Cominco Ltd.

xc: Mining Recorder (2 copies)
Owners
Cominco Ltd.


EXHIBIT "A"
STATEMENT OF EXPENDITURES
DIAMOND DRILLING - BLONDIE 2 CLAIM
GOLDEN MINING DIVISION

Between May 15, 1986 and September 25, 1986, J. Pannatoni, V. Newbury and G. Larrabee spent 35 days drilling 143.3 meters of AQ core using a Boyles No. 1 diamond drill unit.

A drilling cost of \$65 per meter includes labour, transportation, mobilization/demobilization, bits, rods and parts.

143.3 meters @ \$65/meter = \$9,314.50

TOTAL COST OF PROGRAM = \$9,314.50


J. Pannatoni
Owner/Operator

IN THE MATTER OF THE
B.C. MINERAL ACT
AND
IN THE MATTER OF A DIAMOND DRILL PROGRAMME
CARRIED OUT ON THE BLONDIE 2 CLAIM
HORSETHIEF CREEK AREA
in the Golden Mining Division of
the Province of British Columbia
More Particularly N.T.S. 82K/9

A F F I D A V I T

I, J. Pannatoni, of the City of Kimberley, in the Province of British Columbia, make Oath and say:

1. That I am an owner of the Blondie property and as such have a personal knowledge of the facts to which I hereinafter depose:
2. That annexed hereto and marked as Exhibit "A" to this my Affidavit is a true copy of expenditures incurred on a Diamond Drill programme, on the Blondie 2 Mineral Claim.
3. That the said expenditures were incurred between the 15th day of May, 1986 and the 25th day of September, 1986 for the purpose of mineral exploration on the above noted claim.



J. PANNATONI
Owner/Operator

STATEMENT OF QUALIFICATIONS

I, D.L. Pighin, of 301 - 8th Street South, Cranbrook, B.C. do make the following statement of qualifications:

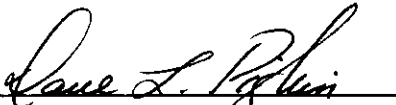
I personally have conducted many types of mineral exploration programs for Cominco Ltd. over the past 20 years.

From 1966 to 1977 I worked for Cominco as a Geological Technician at the Sullivan Mine and also on numerous mineral exploration projects in southeastern B.C., northern B.C. and in the Yukon.

In 1977, Cominco Ltd. promoted me to Geologist I and since then have graduated to my present position of Geologist III, working for Cominco's Western District Exploration Division.

As an exploration geologist, I have worked on mineral exploration programs of varied geological environments in such areas as the Northwest Territories, Yukon, southeast and northern B.C., Montana, Idaho, Colorado, Wyoming and Arkansas.

Signed:



D.L. PIGHIN
Geologist III
Cominco Ltd.

Drill Hole Record

Property	BLONDIE	District	Golden	Hole No.	B86-1
Commenced	May 15, 1986	Location	Blondie 2	Tests at	-----
Completed	May 31, 1986	Core Size	AQ	Corr. Dip	-90°
Co-ordinates	Long. = 116° 34' 00"	Lat. = 50° 23' 27"	True Brg.	---	Logged by D.L. Pighin
Objective	To test a massive sulphide horizon at depth.		% Recov.	90%	Date November 5, 1986

XXXX Meters	Description	Analysis
From	To	
0.0	0.6	Overburden
0.6	3.4	Argillaceous limestone, interbedded crystalline limestone; argillaceous limestone; bluish gray, thin bedded to very thin bedded, weakly sericitic, abundant disseminated pyrrhotite and rare, paper thin pyrrhotite lamina. Crystalline limestone interbeds; white, medium crystalline, thin beds, generally silty.
3.4	4.4	Breccia zone; sulphide and white quartz matrix with olive gray argillite and white crystalline limestone clasts. Matrix consists of massive, finely altered pyrrhotite, scattered quartz "eyes", pyrite porphyroblasts, minor chalcocopyrite, and very rare specks of sphalerite.
4.4	5.0	Massive sulphide (80%) with scattered white quartz, argillite and limestone clasts. Sulphides consists of mainly pyrrhotite with abundant pyrite porphyroblasts, and minor chalcocopyrite. Chalcocopyrite is most abundant in and around clasts.
5.0	7.7	Argillite, rare thin limestone interbeds. Argillite; gray and olive gray, thin to very thin bedded, thinly parallel laminated in part, abundant disrupted pyrrhotite, pyrite, minor chalcocopyrite lamina, ranging in thickness between 2 mm and 10 cm. Limestone; generally white, medium crystalline, very thin bedded. Bedding to core 50°.
7.7	8.1	Quartz vein, white Bull quartz with irregular belbe and patches of pyrrhotite. Contacts ? baddy ground.
8.1	8.8	Argillite; olive gray, thin bedded to very thin bedded, thinly parallel laminated, weakly calcareous in spots and generally sericitic, some finely disseminated pyrrhotite.
8.8	9.4	Quartz veins; white Bull quartz, hosting belbe and patches of sulphide, mainly pyrrhotite.

Drill Hole Record

Property	BLONDIE	District	Golden	Hole No.	B86-1
Commenced		Location		Tests at	
Completed		Core Size		Corr. Dip	
Co-ordinates		True Brg.		Logged by	
Objective		% Recov.		Date	

Footage	Description	Analysis
From	To	
8.8	9.4	minor pyrite and lesser chalcocopyrite. White calcite and coarsely crystalline muscovite occur in minor amounts. Vein appears to be parallel to bedding.
9.4	10.6	Argillite; olive gray, thin to very thin bedded, weakly sericitic, thin undulating lamina, minor disseminated pyrrhotite, rare chalcocopyrite. Bedding to core 85°.
10.6	15.0	Silty limestone; bluish gray with thin olive gray argillite partings on bedding planes, medium bedded, partly crystalline, generally sericitic with weakly disseminated pyrrhotite thru-out. Scattered thin irregular white quartz veins and belbe of white quartz. Bedding to core at 12.8 m = 40°, at 15 m = 33°, at 15.6 m = 50°.
15.0	16.5	Argillite; olive gray, thin to very thin bedded, fine parallel lamina, bedding planes are sharp and commonly distorted by small scale folds and cleavage.
16.5	17.6	Massive sulphide (80% sulphide) with scattered quartz calcite and sedimentary clasts. Sulphides consist mainly of pyrrhotite, minor porphyroblastic pyrite and minor chalcocopyrite.
17.6	18.0	Quartz-calcite; coarsely crystalline calcite and white quartz generally barren except near top contact with overlying massive sulphide unit.
18.0	36.6	Argillite, minor interbeds of silty limestone. Argillite; olive gray to light gray, thin to very thin bedded, bedding planes generally flat-sharp, calcareous in spots, abundant finely disseminated pyrrhotite and rare chalcocopyrite. Widely scattered 0.5 cm to 1.0 mm thick pyrrhotite, minor chalcocopyrite lamina. Silty limestone beds; generally bluish gray, thin beds, partly crystalline, weakly disseminated pyrrhotite with rare specks of chalcocopyrite.

Drill Hole Record

Property	BLONDIE	District	Golden	Hole No.	B86-2
Commenced	May 31, 1986	Location	Blondie 2	Tests at	-----
Completed	September 25, 1986	Core Size	A0	Corr. Dip	-60°
Co-ordinates	Long. = 116° 34' 10"	Lat. = 50° 23' 27"	True Brg.	245° Azimuth	Logged by D.L. Pighin
Objective	To test sulphide beds at depth.			% Recov.	90%
				Date	November 10, 1986

Footage From	To	Description
0.0	1.2	Overburden
1.2	6.9	Quartz grit; light gray to buff with reddish brown mottling, thick to very thick bedded, distinct contacts marked by thin wavy, dark gray argillite beds. Beds are composed of poorly sorted medium to coarse grained nature to immature quartz sand. Generally sericitic with patchy reddish brown biotite. Weakly disseminated pyrrhotite and pyrite thru-out. At 6.0 meters bedding to core is 70°.
6.9	14.2	Argillite interbedded silty limestone; Argillite is gray to olive gray with scattered reddish brown bands, thin to very thin bedded, contacts are sharp-flat, beds are finely parallel laminated, generally sericitic, with some reddish brown biotite bands. Finely disseminated pyrite and pyrrhotite form wispy laminae parallel to bedding. Silty limestone; white to pinkish white, thin bedded, finely crystalline, contacts flat-distinct. Beds are generally weakly sericitic with reddish brown biotite on bed contacts. Pyrrhotite is abundant near tops and bases of beds and is weakly disseminated through the limestone. At 13.2 meters bedding to core is 73°. At 12.1 meters; 5 cm thick bed of massive pyrrhotite-minor pyrite, rare chalcopyrite. 7.0 to 7.2 m; heavy disseminated pyrrhotite and pyrite, rare chalcopyrite.
14.2	17.37	Intraclastic silty limestone; reddish brown matrix with light gray clasts. Silty limestone clasts occur in silty limestone matrix. Clasts range in size from 2 to 3 cm and are subangular to rounded in shape. Reddish brown biotite is abundant in matrix. Pyrrhotite, pyrite and rare chalcopyrite is weakly disseminated thru-out matrix and clasts.
17.37	35.9	Silty limestone, rhythmically interbedded argillite; Silty limestone; light bluish gray, medium to very thin bedded, contacts undulating-sharp, partly crystalline, sericitic, relatively abundantly disseminated pyrrhotite thru-out beds. Argillite; olive gray, very thin bedded, finely parallel laminated, generally sericitic. Abundant fine sulphide lamina, 1 to 2 mm in thickness (rarely 5 mm thick).

Claim	T Brg.	Collar Dip	Elev.	Length
Analysis				

Drill Hole Record

Property	BLONDIE	District	Golden	Hole No.	B86-2
Commenced		Location		Tests at	
Completed		Core Size		Corr. Dip	
Co-ordinates				True Brg.	
Objective				% Recov.	
				Date	

Footage From	To	Description
17.37	35.9	Sulphide lamina consists of mainly pyrrhotite, minor pyrite and rare chalcopyrite. Bedding 75° to core at 22.0 m. Bedding 65° to core at 33.0 m. 28.45 to 28.65 m; quartz-sulphide vein parallel to bedding, some siderite crystals in quartz. Sulphides are mainly pyrrhotite, minor pyrite, rare chalcopyrite, very rare soft gray sulphide, Bisuthinite?
35.9	40.7	Limestone; light gray to white, finely crystalline, medium to thick bedded, bedding planes sharp-undulating, thin waxy light green, waxy argillite partings on bedding planes that are host to thin pyrrhotite laminae. Bedding to core is 65°.
40.7	52.2	Limestone rhythmically interbedded with argillite; Limestone; medium gray, slightly silty, generally thin bedded finely disseminated pyrrhotite thru-out beds. Argillite; olive gray, very thin beds, contacts are flat-sharp, some undulating, generally finely parallel laminated by pyrrhotite, minor pyrite, rare chalcopyrite. 41.3 - 41.7 m; Marker unit. White limestone; finely crystalline, thin bedded with 2 to 3 cm thick waxy apple green argillite interbeds. 45.4 - 45.7 m; abundant massive sulphide (80%) beds approximately 2 to 3 cm apart, ranging from 0.5 cm to 3 cm thick. 47.2 - 47.3 m; sulphide beds as above but included a 5 cm thick sulphide bed. Sulphide beds consist of mainly pyrrhotite, scattered pyrite and minor chalcopyrite. 51.3 - 52.0 m; abundant thin pyrrhotite, pyrite, minor chalcopyrite laminae 1 to 4 cm apart. Bedding to core is 75° at 50 m.

Claim	T Brg.	Collar Dip	Elev.
Analysis			

Drill Hole Record

Property	BLONDIE	District	Golden	Hole No.	886-2
Commenced	Location		Tests at	Hor. Comp.	
Completed	Core Size		Corr. Dip	Vert. Comp.	
Co-ordinates	True Brg.		Logged by		
Objective	% Recov.		Date		

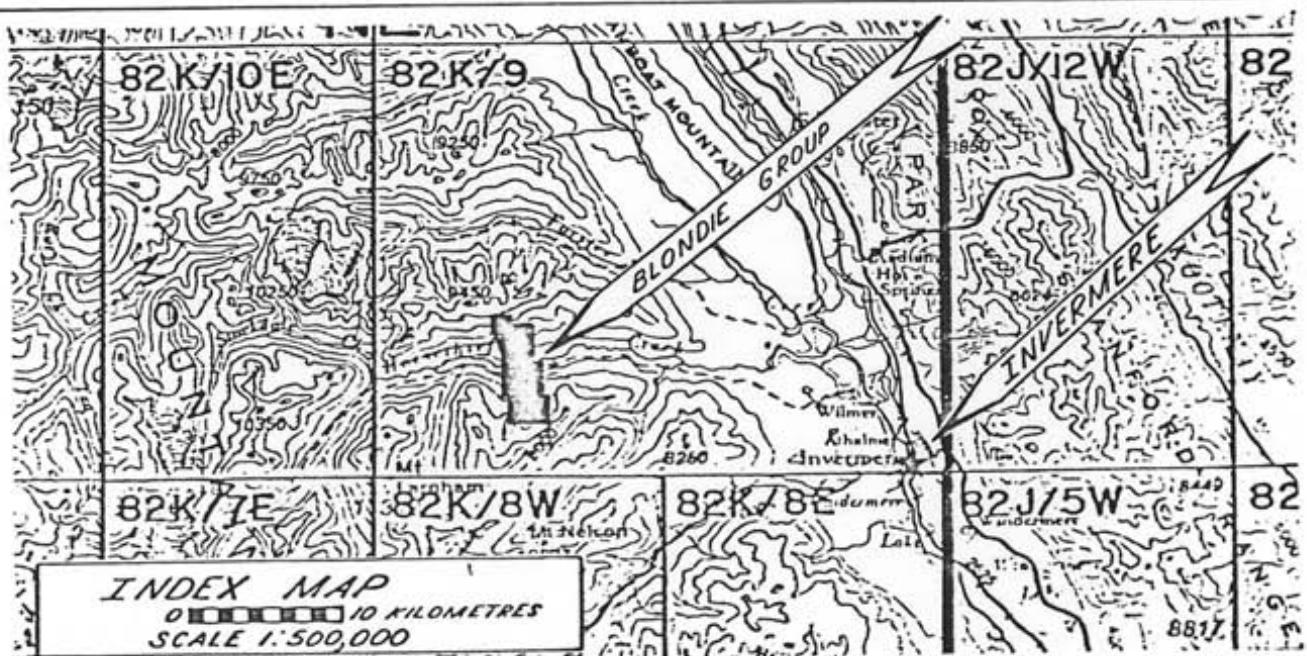
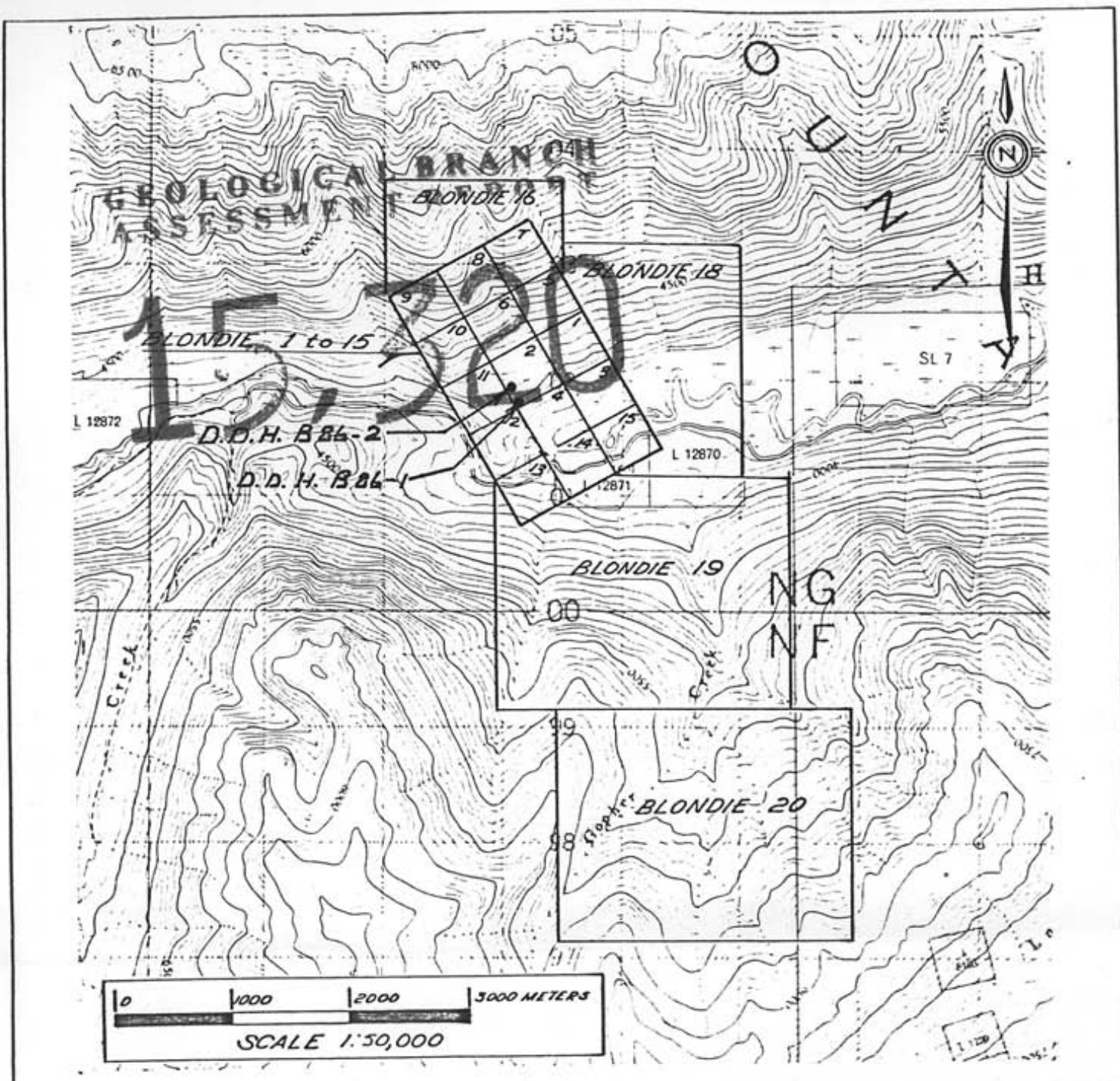
Footage	Description	Analysis
From	To	
52.2 - 55.8	Silty limestone; bluish gray, medium crystalline, medium to thick bedded, contacts distinct-undulating. Bedding planes marked by thin olive green pyrrhotiferous argillite. Thin irregular calcite-pyrrhotite veinlets commonly associated with slumped and cracked breccia beds. Pyrrhotite is in general weakly disseminated thru-out limestone beds. At 55.8 m a 5 cm thick quartz-siderite vein contains abundant coarsely crystalline, reddish black sphalerite.	
55.8 - 56.3	Argillite; olive gray to gray, thin to very thin bedded fine wispy parallel lamination, abundant finely disseminated pyrrhotite and pyrite.	
56.3 - 57.9	Marble; generally white with wisps of gray, very thick bedded, with abundant dark gray argillaceous stylonitic partings.	
57.9 - 60.8	Argillite; olive gray, very thin bedded, contacts flat-sharp, some distorted (slumped beds?). Sulphide laminae parallel to bedding is abundant, generally 0.5 to 2 cm apart. Pyrite-pyrrhotite laminae is rarely more than 0.5 cm thick. Sulphide layers generally very calcareous. Bedding to core at 60 m is 70°.	
60.8 - 61.2	Breccia; calcite matrix, rare pyrrhotite. Breccia cuts core at 20°.	
61.2 - 102.7	Argillite; olive gray and gray, thin to very thin bedded, generally thinly laminated, bedding distinct and commonly distorted due to small scale folding and cleavage. Cleavage is well developed. Argillite is generally very phyllitic thru-out. Weak pyrrhotite, pyrite and minor chalcocopyrite occurs as fine disseminations and as very thin distorted laminae thru-out section.	
67.4 - 68.2 m	mainly quartz-calcite veins, minor argillite partings between the veins, less than 30 cm total argillite. Pyrrhotite, pyrite and minor chalcocopyrite occurs in the veins as patches and blebs. Veins subparallel to bedding. Bedding to core at 75 m is 65°.	

Drill Hole Record

Property	BLONDIE	District	Golden	Hole No.	886-2
Commenced	Location		Tests at	Hor. Comp.	
Completed	Core Size		Corr. Dip	Vert. Comp.	
Co-ordinates	True Brg.		Logged by		
Objective	% Recov.		Date		

Footage	Description	Analysis
From	To	
61.2 - 102.7 Cont'd.	80.0 - 102.7 m; sediments strongly deformed by folding and cleavage. Bedding ranges from 20° to mainly parallel to core.	
102.7 - 103.0	Sand cavity?	
103.0 - 106.7	Argillite, minor interbeds of silty limestone: Argillite; olive green with some reddish brown banding, thin to very thin bedded, bedding sharp but highly deformed due to folding, abundant wispy, distorted pyrrhotite-pyrite laminae. Generally weakly sericitic with some reddish brown biotite banding. Silty limestone interbeds; generally white to very light gray, thin to very thin bedded, finely crystalline, commonly very pyrrhotitic along bed contacts. The whole section from 103.0 to 106.3 m appears to be deformed by small scale recumbent isoclinal folds, which have an axis 90° to core. ***** END OF HOLE AT 106.7 METERS *****	

- Core stored in Atholmere, B.C. at G. Larrobee's residence.



Drawn by: D. L. PIGHIN		Traced by:	
Revised by	Date	Revised by	Date

BLONDIE PROPERTY DIAMOND DRILLING 1986

Scale: As Shown

Date: Nov. 14 1986

Plate: