86-93 -14724

COMINCO LTD.

EXPLORATION WESTERN DISTRICT

DIAMOND DRILLING REPORT

NEG 1 and 3 CLAIMS

Fort Steele Mining Division

Negro Lake Area

N.T.S. 82G/5W

LATITUDE: 49° 25.6' LONGITUDE: 115° 56.2'

OWNER/OPERATOR

Cominco Ltd.

Kootenay Exploration
1051 Industrial Road No. 2
Cranbrook, B.C.
V1C 4K7

Work performed during November and December 1985

Report by:

D.L. Pighin
Geologist

Under the Supervision of:

D. Anderson
Project Geologist

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DIAMOND DRILLING REPORT

NEG 1 and 3 MINERAL CLAIMS

Fort Steele Mining Division

1.00 GENERAL STATEMENT

This report outlines the results of a diamond drill hole located on the boundary between the Neg 1 and Neg 3 mineral claims.

Total expenditures related to this diamond drilling program amounted to $140,515.41.

2.00 INTRODUCTION

2.10 Status of Ownership

The Neg 1 and Neg 3 claims are owned 100% by Cominco Ltd.

2.20 Location and Access

The collar of the diamond drill hole N85-1 is located at an elevation of 1200 m on the boundary between Neg 1 and Neg 3 mineral claims. Map co-ordinates are Latitude 49° 25' 55" and Longitude 115° 56' 50", NTS 82G/5.

Access to the drill site from Cranbrook may be gained by 16 km of paved highway and 8 km of good gravel bush road.

2.30 General Character of the Area

Relief on the Neg 1 and Neg 3 mineral claims is characterized by steep rock walled canyons, rarely more than 100 m deep. The western half of Neg 1 has been recently logged by the clear cut method. The remainder of the area is forested by mature Douglas Fir, Larch, Ponderosa Pine and Lodgepole Pine.

3.00 DIAMOND DRILL HOLE N85-1

Hole N85-1 was collared at an elevation of 1200 m and drilled to a depth of 1097.8 m. The hole was collared at -90° and around 608 m started to flatten in a SW direction. See Sperry Sun Survey Tests on page 31 of the attached drill hole log.

Diamond drill hole N85-1 cored 897.0 m of Aldridge FM sediments and 200 meters of gabbro. The sediments are mainly medium to

thick bedded quartz wacke and quartzitic wacke with interbedded medium to thin-bedded wacke.

The quartz wacke and quartzitic wacke beds are typical turbidite deposits. Wacke interbeds are probably distal turbidites. The gabbro from 241 to 440 meters is a phaneritic, equigranular sill. Carbonatization of the gabbro occurs in irregular zones and patches near the base of the sill. Three narrow minette dykes occur in the hole. These dykes occur both in the gabbro and in the underlying sediments.

In the upper part of the hole hornfelsic alteration is particularly well developed in the quartzitic beds. The hornfelsic alteration consists mainly of intense biotitization accompanied by abundant spessartite. Biotite to a lessor degree is a common constituent of the sediments throughout the hole. Chlorite, sericite and pink subhedral spessartite occur mainly in the quartzitic wacke and quartz wacke beds. This type of alteration is usually found along hairline fractures, as irregular patches and in concretions.

Pyrrhotite occurs throughout the sediments as widely scattered tiny specks, but locally can form very thin laminae and small massive blebs. Generally pyrrhotite is most abundant in wacke and subwacke beds. Galena and sphalerite which is very scarce in the hole was found as rare tiny specks in or along hairline quartz-chlorite fractures. Weakly disseminated galena along with pyrite and pyrrhotite occurs in calcareous quartzite from 773.5 to 779.0 m. Pyrite is commonly found in quartz veins and breccia zones.

4.00 CONCLUSIONS

The rocks cored by N85-1 are lithologies typical of the Aldridge Formation. The hole did not encounter any mineralization of economic significance.

Core is stored in Cominco's Kimberly warehouse.
Assays were not done.

Report by: Dane L Pighin
D.L. PIGHIN
Geologist

Endorsed by: D. Anderson
D. ANDERSON, P.Eng.
Project Geologist

Approved by: John Hamilton
J.M. HAMILTON
Manager, Exploration
Western Canada

xc: Mining Recorder (2 copies) ✔
Western District, Exploration
Kootenay Exploration

EXHIBIT "A"

STATEMENT OF EXPENDITURES

DIAMOND DRILLING - NEG 1 and 3 CLAIMS

FORT STEELE MINING DIVISION

INDIRECT

Salaries

D.L. Pighin - Geologist - field, office, planning, Supervision, core logging, report writing 45 days @ $210/day	$ 9,450.00

Mobilization

Henderson Heavy Hauling - 6.5 hrs. @ $64.25/hr.	417.63
- 5.5 hrs. @ $61.00/hr.	335.50
Bearcat Contracting - 12.0 hrs. @ $98.00/hr.	1,176.00

Road Access

Bearcat Contracting - 18.5 hrs. @ $98.00/hr.	1,813.00

Transportation

4x4 truck - 20 days @ $40/day	800.00

Supplies

Drilling mud - 3,601 ft. @ $2.00/ft.	7,202.00
Core Boxes	1,242.29

DIRECT

Longyear Canada Inc. 721 Aldford Avenue Annacis Island, New Westminster, B.C. V3M 5P5	118,078.99
TOTAL =	$140,515.41

Dave L Pighin

D.L. PIGHIN
Geologist

IN THE MATTER OF THE

B.C. MINERAL ACT

AND

IN THE MATTER OF A DIAMOND DRILL PROGRAMME

CARRIED OUT ON THE NEG 1 and 3 MINERAL CLAIMS

NEGRO LAKE AREA

in the Fort Steele Mining Division of
the Province of British Columbia

More Particularly N.T.S. 82G/5W

A F F I D A V I T

I, D.L. Pighin, of the City of Cranbrook, in the Province of British Columbia, make Oath and say:

1. That I am employed as a Geologist by Cominco Ltd. 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 Neg 1 and 3 Mineral Claims.

3. That the said expenditures were incurred between the 8th day of November, 1985 and the 16th day of December, 1985 for the purpose of mineral exploration on the above noted claims.

D.L. PIGHIN
Geologist

COMINCO LTD.

EXPLORATION WESTERN DISTRICT

STATEMENT OF QUALIFICATIONS

D.L. PIGHIN has personally conducted many types of mineral exploration work for Cominco Ltd. over the last twenty years.

I consider him well qualified to prepare this report.

D. ANDERSON, P.Eng.
Project Geologist

Drill Hole Record

Cominco PAGE 1

Property NEG | District WESTERN | Hole No. N85-1
Commenced NOVEMBER 8, 1985 | Location ON BOUNDARY NEG 3&1 | Tests at SEE ATTACHED TABLE | Hor. Comp.
Completed DECEMBER 16, 1985 | Core Size HQ | Corr. Dip SEE ATTACHED TABLE | Vert. Comp.
Co-ordinates LAT: 49° 25' 55" LONG: 115° 56' 50" | True Brg. SEE ATTACHED TABLE | Logged by D.I. PIGHIN
Objective TO TEST ALDRIDGE STRATIGRAPHY FOR PB, ZN | % Recov. 95% | Date FEBRUARY/86

Claim BOUNDARY OF NEG 1 & 3 | T Brg. — | Collar Dip -90° | Elev. 1200 METERS | Length 1097.8 METERS | Hole No. 1 | Sheet 1

Meters From	To	Description	Sample No.	Length	Analysis
0	3.28	Overburden			
3.28	4.70	Quartz wacke; very thick bedded, massive, coarse grained. Contacts flat, distinct.			
4.70	6.20	Wacke interbedded quartzitic wacke, med. to thick bedded, fine to very fine grained, fine parallel laminations, contacts distinct - wavy (flame structured), some biotite mottling in wacke beds.			
6.20	9.40	Quartz wacke with 5 to 10 cm wacke bed tops; thick to very thick bedded, coarse grained, some wispy laminations. Contacts wavy - indistinct.			
9.40	15.0	Quartzitic wacke; med. to thin bedded, thin wispy laminated wacke - subwacke bed tops, graded beds fining upwards, coarse grained bases, contacts wavy - distinct, beds tops commonly chloritic. Some thin zones of soft sediment deformation 10 to 30 cm thick. Bedding to core 72°.			
15.00	16.65	Wacke, med. to thin bedded, finely parallel laminated - contacts flat, sharp.			
16.65	20.20	Quartz wacke; thin, wavy and parallel laminated bed tops, med. to coarse grained, generally fining upwards. Contacts wavy - distinct, thin zones of scattered subhedral pink garnets, minor diss. pyrrhotite, @ 20.2 m thin gouge zone parallel to bedding.			

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Drill Hole Record

Cominco PAGE 2

Property NEG | District WESTERN | Hole No. N85-1
Commenced | Location | Tests at | Hor. Comp.
Completed | Core Size | Corr. Dip | Vert. Comp.
Co-ordinates | | True Brg. | Logged by
Objective | | % Recov. | Date

Claim | T Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Meters From	To	Description	Sample No.	Length	Analysis
20.20	29.20	Wacke, minor interbedded quartzitic wacke; thin to very thin bedded, thinly parallel laminated and in part wavy laminated, some good small scale cross bedding. Quartzitic wacke interbeds, generally med. grained. Contacts sharp, flat and wavy. Thin zones of soft sediment slump common, subhedral light pink garnets common in quartzitic wacke beds, thin diss. pyrrhotite lamina common thru-out unit. Bedding to core 79° - principle cleavage 25° to core.			
29.20	31.00	Quartzitic wacke, thick to very thick bedded, no wacke tops, med. grained, contact indistinct, thin gouge zone 5 cm thick parallel to bedding.			
31.00	38.00	Quartzitic wacke interbedded wacke; thin to med. bedded, Contacts flat, sharp and wavy, some parallel lamina, minor cross bedded thin quartzitic wacke beds generally med. grained. Scattered pink garnets common in quartzitic beds. Breccia and gouge zones parallel to bedding @ 31.7 to 32.0 m, 33.7 to 33.9 m, 35.70 to 35.75 m, 36.7 to 37.0 m.			
38.00	42.10	Quartzitic wacke; thick to very thick bedded, massive, no wacke bed tops, med. to coarse grained, contacts indistinct.			
42.10	42.80	Fragmental; quartzitic wacke matrix; mainly olive gray wacke clasts, rare whitish gray wacke clasts; gen. matrix supported except near top of unit, clasts gen. bent and distorted.			

Scale

Colour Plot & Dips

Drill Hole Record

Cominco PAGE 3

Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T Brg. | Collar Dip | Elev. | Length | Photo No. | Sheet

Meters From	Meters To	Description	Sample No.	Length	Analysis
42.80	47.50	Quartzitic wacke interbedded wacke; med. bedded, wacke beds generally slump structured, some parallel and wavy laminated beds, quartzitic beds, generally med. grained, commonly contain scattered subhedral pink garnets associated with chloritization, contacts are wavy - distinct. 45.7 - 46.0 m breccia - gouge zone, parallel to bedding.			
47.50	48.80	Subwacke, black, slump structured, small ball and pillow structures common that are generally composed of fine grained quartzitic wacke.			
48.80	54.80	Quartzitic wacke; thick to very thick bedded, no wacke bed tops, med. grained, contacts indistinct. Bedding to core 68°.			
54.80	68.30	Quartzitic wacke; thick to med. bedded, 10 to 20 cm thick parallel laminated wacke bed tops, med. to coarse grained, generally fining upwards, contacts sharp - flat, widely scattered subhedral pink garnets, numerous thin zones of open selenite casts beginning at 65.0 to 68.3 m, 61.7 to 62.2 m subwacke unit; dark gray, thinnly parallel laminated (fine black biotite lamina). Bedding to core at 62.0 m = 82°.			
68.30	79.80	Quartzitic wacke; med. bedded, rare thick bed, med. grain beds fining upwards, laminated wacke and subwacke bed tops 3 to 10 cm thick, contacts generally distinct - wavy. Abundant selenite casts thru-out unit, many are open, some are filled by dolomite. Widely			

811-0437

Scale

Colour Plot & Dips

Drill Hole Record

Cominco PAGE 4

Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T Brg. | Collar Dip | Elev. | Length

Meters From	Meters To	Description	Sample No.	Length	Analysis
68.30	79.80 Cont'd.	scattered subhedral pink garnets, generally associated with weak sericitation. 74.7 to 75.3 m wacke - subwacke unit; gray and olive gray, finely parallel laminated, contains abundant dentritic pyrrhotite. 5 cm thick gouge zone parallel to core at 73.0 m and gouge zones at 75.3 - 75.7 m, at 75.9 - 76.3 m, and at 79.0 to 79.2 m. Bedding to core 85° at 75.0 m.			
79.80	80.48	Wacke; thin bedded, very fine grained, finely parallel laminated, contacts flat - sharp, minor diss. pyrrhotite + pyrite.			
80.48	83.00	Quartzitic wacke; thick to med. bedded, thin non-laminated wacke tops, med. grained, graded finning upwards, contacts indistinct, abundant selenite clasts, filled in part by dolomite, weakly sericitic with scattered subhedral pink garnets. Selenite casts appear to end sharply @ 83.0 m.			
83.00	90.00	Quartzitic wacke; as above but med. to thin bedded. 83.0 to 83.53 m - quartzitic wacke-interbedded wacke; very thin bedded, distinctly cross-bedded.			
90.00	92.40	Wacke; very thin bedded, parallel laminated, lamina generally fine biotite and pyrite, some pyrrhotite dentrites, contact flat - sharp, generally light gray and olive gray. Bedding to core 85°.			

Scale

Colour Plot & Dips

Drill Hole Record

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Property NEG	District WESTERN	Hole No. N85-01	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Meters From	To	Description	Sample No.	Length	Claim	T Brg.	Collar Dip	Elev.	Length
					Analysis				
92.40	93.70	Quartzitic wacke; very thick bedded, med. grained, massive wacke mud tops, contacts wavy - distinct, generally sericitic thru-out, minor scattered pink garnets.							
93.70	103.00	Quartzitic wacke; thin to med. bedded, thin wavy to cross laminated wacke-subwacke tops, mainly med. grained beds, some fine grained beds. Contacts flat - distinct, minor wavy contacts. Most beds are weakly sericitic with widely scattered subhedral pink garnets. 100.0 to 101.4 m thin (2 cm) apple green, chloritic mud interbeds. 96.5 - 96.9 m wacke; gray and bluish gray, very thin bedded, parallel laminated(fine biotite lamina) contacts flat - sharp, minor diss. pyrrhotite.							
103.00	103.80	Wacke; thick bedded, slump structured, widely scattered wispy wacke clasts.							
103.80	105.50	Quartzitic wacke; thick bedded with non-laminated subwacke bed tops. Generally med. grained finning upwards, contacts indistinct, generally biotitic thru-out, with irregular patches of strong biotitization with scattered pink garnets.							
105.50	111.00	Quartzitic wacke; thin bedded with olive gray non-laminated subwacke tops. Generally fine grained generally fining upwards, contacts flat - sharp, most beds strongly biotitic with scattered pink garnets. 107.2 - 108.0 m Wacke; slump structured with rare wacke clasts, at 108.5 m bedding 86° to core.							

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Scale

Colour Plot & Dips

Drill Hole Record

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Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Meters From	To	Description	Sample No.	Length	Claim	T Brg.	Collar Dip	Elev.	Length
					Analysis				
111.00	113.30	Quartzitic wacke; thick to very thick bedded, 5 to 15 cm wavy and parallel laminated wacke tops, med. grained, contacts wavy and distinct, abundant thin discontinuous pyrrhotite lamina in wacke bed tops.							
113.30	114.90	Wacke; olive gray to dark gray, thin bedded, soft very fine grained, contacts flat - sharp, very, very thinnly parallel laminated, lamina mainly fine black biotite, rare very thin pyrrhotite lamina.							
114.90	131.70	Quartzitic wacke; thin to med. bedded, 5 to 20 cm wacke mud bed tops, commonly slump structure with rare wispy rip-up clasts, generally med. grained, contacts distinct - wavy, some good flame structured bases. Biotitization along with scattered pink garnet in all quartzitic beds. 126.0 - 131.7 m Biotitization and garnetization alters the quartzitic wacke beds to porphyroblastic hornfelses. At 115 m bedding to core 84°. 130.2 - 130.7 Fault breccia and gouge @ 45° to core.							
131.70	134.00	Fault zone; gouge and breccia rubble in box.							
134.00	140.10	Quartzitic wacke; med. bedded, wavy laminated wacke tops, contacts distinct - wavy, strong hornfelsic alteration of quartzitic beds continues. 134.0 - 140.0 Very broken rubbly core.							

Scale

Colour Plot & Dips

Drill Hole Record

Property	NEG	District	WESTERN	Hole No.	N85-1
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Meters From	To	Description	Sample No.	Length	Claim	T Brg.	Collar Dip	Elev.	Length
					Analysis				
134.00 - 140.10		at 133.0 m bedding to core 85°.							
Cont'd.		at 138.7 m thin gouge zone parallel to bedding.							
		at 139.2 m thin gouge zone @ 45° to core.							
140.10 - 147.50		Quartz wacke, minor quartzitic wacke; thick to very thick bedded, generally med. grained,							
		contacts indistinct, sericitic with weak biotitization thru-out, widely scattered and thin							
		2 to 3 cm thick zones of subhedral pink garnet, scattered clusters of dolomite after							
		selenite crystals.							
		@ 143.5 m gouge zone 2 cm thick parallel to core.							
147.50 - 150.00		Wacke; light gray to dark gray, thin to very thin bedded, fine grain, contacts sharp - flat,							
		very finely parallel laminated, lamina is fine black biotite.							
		@ 148.8 m bedding to core 72°.							
150.00 - 151.70		Quartz wacke; thick to very thick bedded, no wacke bed tops, med. grained, contacts indistinct,							
		weakly sericitic widely scattered small subhedral garnets.							
151.70 - 156.80		Quartzitic wacke; med. to thin bedded, 5 to 10 cm non-laminated wacke tops, med. grained,							
		contact distinct - undulating, good flame structures, rip-up clasts common. Strong							
		hornfels alteration of quartzitic beds, biotite rimmed spheres a common texture.							

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Scale

Colour Plot & Dips

Drill Hole Record

Property	NEG	District	WESTERN	Hole No.	N85-1
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Meters From	To	Description	Sample No.	Length	Claim	T Brg.	Collar Dip	Elev.	Length
					Analysis				
156.80 - 168.10		Wacke, minor interbedded quartzitic wacke; thin to very thin bedded, commonly very finely							
		laminated, small scale soft sediment folding common thru-out unit, contacts generally sharp -							
		flat, occasional flame structure, abundant fine biotite thru-out.							
		160.9 - 162.7 m Quartzitic wacke; med. bedded, med. grained non-laminated wacke tops.							
		Hornsfelsic alteration still well developed in quartzitic beds.							
		@ 164.0 m bedding to core 73°.							
168.10 - 176.00		Quartzitic wacke; thin to med. bedded, 1 to 15 cm thick wacke tops wavy laminated minor							
		parallel lamina, med. grained contacts mainly sharp - undulating, garentiferous porphyroblastic							
		hornfelses strongly developed in quartzitic beds, minor chloritization.							
		173.9 - 176.0 m Soft sediment deformation, small scale folds with deformed wispy clasts,							
		saml clastic dykes well developed.							
		@ 175.0 m bedding 79° to core.							
176.00 - 181.00		Quartzitic wacke; med. to thick bedded, bed tops are rare, med. grained, contacts indistinct,							
		hornfelsic alteration not as intense, some widely scattered garnets, some weak sericitization.							
181.00 - 185.70		Quartzitic wacke; thin to med. bedded, med. grained. Wakce bed tops 1 to 15 cm thick,							
		commonly laminated both wavy and parallel. Wacke tops commonly slump structure. Contacts							
		generally wavy but some are flat - sharp.							
		184.6 to 184.8 m Fragmental, intact fabric, wacke clasts range in size 1 to 4 cm, clasts							
		generally bent and distored. Hornfelsic alteration still intense in quartzitic beds (mainly							

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Scale

Colour Plot & Dips

Drill Hole Record

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Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Meters From	To	Description	Sample No.	Length	Claim	T Brg.	Collar Dip	Elev.	Length	Analysis
181.00	185.70 Cont'd.	biotitization and scattered garnets). Texture typically fine, black pea sized biotite spheres, with very fine white leached rims. Garnets are generally widely scattered thru-out matrix.								
185.70	186.50	Quartzitic wacke; thick bedded, med. grained, thin non-laminated bed tops, contacts indistinct, alteration similar to that described above.								
186.50	189.00	Quartzitic wacke; med. to thin bedded, med. to fine grained non-laminated, 2 to 5 cm thick wacke bed tops, contacts flat - sharp.								
189.00	190.40	Fault breccia and gouge; footwall 40° to core.								
190.40	195.00	Quartzitic wacke; thick to very thick bedded, wacke tops are rare and non-laminated, contact indistinct, minor biotite, sericite, and chlorite.								
195.00	197.90	Quartzitic wacke; med. to thin bedded, med. to fine grained, wacke bed tops, 3 to 5 cm thick non-laminated, contacts flat - distinct, weakly biotitic, scattered chlorite patches.								
197.90	206.00	Quartzitic wacke: med. to thick bedded, med. grained, contact wavy - distinct, non-laminated wacke bed tops, abundant biotite, minor chlorite generally along hairline fractures.								

Scale

Colour Plot & Dips

Drill Hole Record

Cominco PAGE 10

Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Meters From	To	Description	Sample No.	Length	Claim	T Brg.	Collar Dip	Elev.	Length	Analysis
206.00	207.80	Quartz wacke; very thick bedded, fine grained, no wacke bed tops, contacts indistinct, scattered pink garnets, weak sericitization, and minor biotite.								
207.80	214.00	Quartz wacke; med. bedded, minor thin beds, generally fine to very fine grained, contacts undulating - distinct, 2 to 10 cm thick wavy laminated wacke bed tops, generally biotitic thru-out, rare subhedral pink garnets. @212.0 m bedding to core 81°								
214.00	218.00	Quartzitic wacke; thin bedded, fine grained, thin 1 - 2 cm non-laminated wacke tops, contacts flat- distinct.								
218.00	220.70	Quartzitic wacke and wacke; badly broken core, lithology mixed. Rubble.								
220.70	223.80	Quartzitic wacke; med. to thin bedded, med. to fine grained, contacts flat - distinct, weakly biotitic, chloritic in patches. Generally rubbly core.								
223.80	232.00	Fault breccia and gauge, recemmented in part. Footwall to core 30°. Hornfelsic alteration ends at hangingwall.								
232.00	241.00	Quartz wacke; very thick bedded, appears to be one amalgamated bed, generally med. grained, rare rip-up clasts, weakly sericitic and biotitic thru-out. Some patchey chloritization.								

Scale

Colour Plot & Dips

Drill Hole Record

Cominco PAGE 11

Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T Brg. | Collar Dip | Elev. | Length

Meters From	To	Description	Sample No.	Length	Analysis
241.00	440.50	Gabbro; contact indistinct, is transitional over 20 cm with quartzitic wacke on its hanging-wall, below the transitional contact the gabbro is coarsely crystalline and equigranular. 409.3 - 412.0 m Minette Dyke at 5° to core, good exposer of contact with gabbro. Approx. 5 cm of biotitization of the gabbro along Minette contact.			
440.50	442.60	Quartz wacke; med. to thick bedded, fine grained, contact indistinct, no wacke bed tops, weakly sericitic, rare subhedral pink garnets, minor chloritization along hair line fractures.			
442.60	447.00	Quartzitic wacke; thin to very thin bedded, very fine grained, contacts flat - sharp, finely parallel laminated. Section appears silicified, abundant very fine purplish biotite. 444.4 to 445.5 m Quartzitic wacke; thick bedded, very fine grained, contacts flat - sharp, silicified and sericitic.			
447.00	452.00	Quartz wacke; thick to very thick bedded, fine grained, contacts flat - distinct, no wacke bed tops, weakly sericitic thru-out, abundant irregular chloritic hair line fractures.			
452.00	455.80	Quartzitic wacke interbedded wacke; thin to very thin bedded, very fine grained, finely parallel laminated, contacts flat - sharp. Unit generally silicified, locally strongly silicified. Core in general is badly broken. Bedding to core 27°.			

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Scale

Colour Plot & Dips

Drill Hole Record

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Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T Brg. | Collar Dip | Elev. | Length

Meters From	To	Description	Sample No.	Length	Analysis
455.80	458.00	Quartz and quartzitic wacke; rubble, appears to be silicified and chloritic in part, minor biotite and sericite.			
458.00	459.00	Fault; parallel to bedding, soft gouge and fine quartzitic wacke and wacke breccia.			
459.00	474.40	Quartzitic wacke; med. to thin bedded, fine grained, contacts flat - sharp. 2 to 10 cm thick light gray to olive gray wacke bed tops which are mainly finely parallel laminated. Unit generally silicified thru-out, with numerous chloritic hair line fractures, weakly sericitic and rare garnets thru-out, fine biotite common. @ 470.8 m bedding to core 52°.			
474.40	475.2	Wacke; purplish gray with buff gray banding, thin to very thin bedded, thinnly spaced parallel lineation, contacts flat - sharp. Unit is silicified.			
475.20	476.50	Quartz wacke; thick bedded, med. grained, contacts flat - distinct, buff brown non-laminated wacke bed tops, weakly sericitic thru-out.			
476.50	479.90	Quartzitic wacke; med. to thin bedded, fine grained, contacts sharp - flat, buff gray parallel laminated wacke bed tops, silicified and sericitic thru-out, rare subhedral pink garnets.			

811-c

Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T Brg. | Collar Dip | Elev. | Length | Sheet

Meters From	To	Description	Sample No.	Length	Analysis
479.90	480.80	Wacke; dark gray with buff gray banding, thin to very thin bedded, very fine grained, contacts flat - sharp, thin parallel laminated. Silicified in part.			
480.80	485.00	Quartzitic wacke; thick to med. bedded, fine to med. grained, contacts flat - distinct. Generally silicified and sericitic, minor chloritization along hairline fractures. 483.2 - 483.4 Minette dyke, contacts (?), ground up into buttons by drill.			
485.00	500.70	Quartzitic wacke; med. to thin bedded, fine to med. grained, contacts flat - distinct. 2 to 10 cm thick brownish gray wacke bed tops, rarely parallel laminated. Generally silicified to strongly silicified in some beds, very weak sericitization, abundant biotite. At 496.4 m bedding to core 56°. @ 498.2 2 very thin hairline fractures contain pyrrhotite and sphalerite.			
500.70	505.30	Quartz wacke; med. to thick bedded, med. grained, contacts flat - distinct. Generally sericitic, minor chloritization.			
505.30	507.10	Quartzitic wacke; thin to very thin bedded, fine to very fine grained, contacts flat - sharp, Brownish gray wispy laminated wacke bed tops.			
507.10	511.30	Quartz wacke; thick to very thick bedded, massive, med. grained, no wacke tops, contacts indistinct. Generally sericitic with patchy chloritization.			

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Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T Brg. | Collar Dip | Elev. | Length

Meters From	To	Description	Sample No.	Length	Analysis
511.30	515.80	Quartzitic wacke; med. bedded, fine to very fine grained contacts flat - distinct, some are indistinct, wacke bed tops 2 to 5 cm thick are wispy laminated and slump structured in part. Abundant fine black biotite mottling. 512.8 to 513.3 m Wacke; gray with dark gray banding, very thin bedded, very fine grained, parallel laminated, very finely diss. pyrrhotite in dark bands.			
515.80	528.00	Quartz wacke; thick to very thick bedded; generally med. grained; contacts indistinct, no wacke bed tops (amalgamated quartz wacke beds). Generally sericitic, widely scattered biotite, widely scattered quartz chlorite filled hairline fractures cutting core @ 35°, contain very minor galena and sphalerite mineralization (probably incipient joints). 520.0 - 522.6 m Quartzitic wacke; med. bedded, fine grained, contacts flat - distinct. Wacke bed tops non-laminated 2 to 10 cm thick.			
528.00	531.40	Quartzitic wacke; thin bedded, fine grained, contacts flat - sharp, generally finely parallel laminated, rare thin pyrrhotite lamina, irregular very thin wispy pyrrhotite lamina.			
531.40	534.90	Quartzitic wacke; thick bedded, med. grained, contacts indistinct, 5 to 10 cm thick non-laminated wacke bed tops. Abundant fine biotite, rare garnets.			
534.90	536.40	Wacke; gray with dark gray banding, very thin bedded, soft, gen. parallel laminated, but can be locally slump structured, some very fine diss. pyrrhotite.			

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Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Meters From	To	Description	Sample No.	Length	Analysis	Claim	T Brg.	Collar Dip	Elev.	Length
536.40	545.00	Quartzitic wacke; med. bedded, med. grained, contacts flat - distinct, 5 to 10 cm thick wacke bed tops parallel laminated and non-laminated, abundant fine black biotite, minor finely diss. pyrrhotite, rare very small pyrrhotite lenses. Bedding to core 68° at 544.0 m.								
545.00	550.50	Quartzitic wacke; thick to very thick bedded, med. grained, contacts indistinct, 2 to 10 cm thick non-laminated sub-wacke tops. Abundant diss. black biotite thru-out. 546.0 - 546.2 m Minette dyke, generally ground to buttons by drill. 546.3 - 546.6 m White Bull quartz vein at 30° to core.								
550.50	552.60	Quartz wacke; thick to very thick bedded, med. to fine grained. Contacts indistinct (amalgamated beds), generally sericitic with patchy chloritization. Thin white Bull quartz vein cuts core at 16°, pink dolomite and rare tourmaline along contacts.								
552.60	553.90	Quartzitic wacke; med. bedded, fine grained, contacts indistinct, thin non-laminated wacke bed tops. 553.2 to 553.5 m Calcareous wacke; dark gray, med. bedded very finely parallel laminated.								
553.90	557.00	Quartz wacke; thick to very thick bedded, med. grained, contacts indistinct (amalgamated beds), generally sericitic and chloritic along hairline fractures.								

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Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Meters From	To	Description	Sample No.	Length	Analysis	Claim	T Brg.	Collar Dip	Elev.	Length
557.00	562.00	Quartzite wacke; med. bedded, very fine grained, contacts distinct - mainly flat but some undulating, 3 to 10 cm thick wacke bed tops mainly non-laminated.								
562.00	575.30	Quartz wacke; med. to thick bedded, generally medium to fine grained, contacts distinct - wavy. 2 to 10 cm thick non-laminated, tanish gray wacke bed tops. Typically sericitic thru-out, with chloritization along numerous hairline fractures. 561.7 - 562.2 m Subwacke; dark gray, med. bedded, fine discontinuous biotite-pyrrhotite parallel lamina. Bedding to core 71°.								
575.30	592.90	Quartzitic wacke; med. to thin bedded, fine grained, contacts distinct - wavy. 2 to 5 cm thick wavy to slump structured wacke bed tops. 588.2 - 588.9 m Wacke; gray with light gray banding, very thin bedded, contacts flat - sharp, finely parallel laminated.								
592.90	597.20	Quartz wacke; thick to very thick bedded, med. grained, contact distinct - wavy, wacke tops uncommon, generally sericitic.								
597.20	608.00	Quartz wacke; med. to thin bedded, generally fine grained, contacts distinct - undulating. Wavy - wispy wacke bed tops 2 to 10 cm thick, silicification, patchy chloritizat on and minor subhedral pink garnets occur in the coarser grained beds. 600.0 - 600.9 Quartzitic wacke; maroon gray with light maroon gray banding, thin to med. bedded, contacts flat - sharp, very very fine parallel lamination, abundant fine reddish								

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Scale

Colour Plot & Dips

Drill Hole Record

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Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Meters From	To	Description	Sample No.	Length	Analysis
597.20	608.00	biotite, and scattered fine sericite. Bedding to core 83°. Cont'd.			
608.00	610.30	Quartz wacke; thick to very thick bedded, med. grained, contacts indistinct, no wacke bed tops.			
610.30	616.10	Quartzitic wacke; med. to thin bedded, generally fine grained, contacts wavy - distinct. Wavy to slump structured bed tops. Patchy chloritization and silicification.			
616.10	618.30	Quartzitic wacke; maroonish gray with light gray banding, med. to thin bedded, very fine grained, contacts flat - sharp. White bands are generally limestone or very limey wacke interbeds. Lime also occurs as specks thru-out the unit, commonly rimming sericite, fine reddish biotite is abundant thru-out unit. Visable galena in limestone bed.			
618.30	619.40	Wacke, interbedded quartzitic wacke; med. to thin bedded, contacts flat - distinct.			
619.40	624.00	Quartz wacke; thick to very thick bedded, med. grained, contacts indistinct, no wacke tops, scattered patches of weak chloritization.			

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Scale

Colour Plot & Dips

Drill Hole Record

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Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T Brg. | Collar Dip | Elev. | Length

Meters From	To	Description	Sample No.	Length	Analysis
624.00	627.70	Quartzitic wacke; med. to thin bedded, fine grained, contacts distinct - wavy, wacke bed tops commonly wavy laminated, minor patchy chloritization-silicification and pink garnets.			
627.70	640.30	Quartz wacke; thick to very thick bedded, med. grained, contacts indistinct, non-laminated wacke bed tops are rare, silicification, chlorite, biotite and subhedral pink garnets occur as small scattered concretions thru-out section. Fragmental units occur at 634.1 to 634.3, 635.8 to 636.1 and 638.1 to 638.5 m. The fragmentals have an intact fabric, clasts consist of at least three wacke lithologies, matrix is principally quartzitic wacke. Tabular clasts are generally bent and distorted, commonly with ragged edges, some small rounded clasts occur while larger tabular clasts show a preferred orientation parallel to bedding.			
640.30	647.70	Quartzitic wacke; med. bedded, fine grained, contacts distinct - wavy, some flame structures. 2 to 5 cm wavy to slump structure wacke bed tops.			
647.70	657.80	Quartzitic wacke; maroonish gray with light gray banding, very fine grained, contacts flat - sharp, very thinnly parallel laminated, scattered sericite in a fine reddish black biotite matrix thru-out interval. Beds in general very weakly calcareous. Some strongly calcareous beds as follows: 648.2 - 648.2 m Calcareous wacke, 50% est. carbonate. 649.4 - 649.7 m Calcareous quartzite coarse grained, 30% est. carbonate. 652.2 - 653.6 m Calcareous wacke; med. bedded, 20% est. carbonate.			

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Scale

Colour Plot & Dips

Drill Hole Record

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Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T Brg. | Collar Dip | Elev. | Length

Meters From	To	Description	Sample No.	Length	Analysis
647.70	657.80 Cont'd.	654.8 - 654.9 Limestone, finely crystalline, blue gray.			
657.80	672.30	Quartz wacke; med. bedded, generally fine grained, contacts indistinct to distinct flat, 2 to 5 cm thick non-laminated to wavy laminated wacke bed tops. Patchy silicificiation, chloritization and assoc. subhedral pink garnet is scattered thru-out unit. Bedding to core 85° @ 668.0 meters.			
672.30	674.80	Quartz wacke; thick bedded, fine grained, no wacke bed tops, contacts indistinct. Generally weakly sericitic thru-out, with some widely scattered pink garnets.			
674.80	679.00	Quartzitic wacke; med. bedded, fine grained, contacts distinct - undulating, 4 to 15 cm thick non-laminated to slump structure wacke bed tops. Most beds are silicified and contain widely scattered pink garnets and sericite.			
679.00	681.00	Wacke, interbedded very fine grained quartzitic wacke; dark gray, thin to very thin bedded, contacts distinct - undulating.			
681.00	683.00	Quartz wacke; med. to thick bedded, fine grained, contacts indistinct, 10 - 20 cm non-laminated tan colored wacke bed tops. Generally silicified and chloritized with sericite and scattered pink garnets. 682.5 to 683.0 m Shear zone, cleavage to core at 15°.			

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Scale

Colour Plot & Dips

Drill Hole Record

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Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T Brg. | Collar Dip | Elev. | Length

Meters From	To	Description	Sample No.	Length	Analysis
683.00	694.10	Quartzitic wacke; med. bedded, fine grained, contacts indistinct, 5 to 15 cm thick non-laminated to slump structured wacke bed tops, spotty chloritization and silicification with scattered garnets. 685.5 - 686.4 m Wacke; gray and dark gray, thin bedded, weakly parallel laminated in part, contacts nearly indistinct due to a bit of scouring.			
694.10	697.90	Quartz wacke; thick bedded, med. grained, contact indistinct, thin non-laminated wacke tops, patchy chloritization and weak sericitization, scattered pink garnets. Galena in very thin white quartz filled fracture at 15° to core.			
697.90	705.30	Quartzitic wacke; med. bedded, fine grained, contacts distinct - undulating, 5 to 15 cm parallel laminated wacke bed tops, minor wispy laminations. Some slump structured bed tops. 700.6 - 701.0 m Fine crackle brecciated chloritic wacke hosts diss. sphalerite, galena and pyrite in seds. and fractures. Bedding to core 80° at 700.0 m.			
705.30	719.50	Quartz wacke; med. to thick bedded, generally med. grained, contacts indistinct, 4 to 10 cm thick non-laminated light greenish gray wacke bed tops. Weakly sericitic thru-out, widely scattered pink garnets. Strongly chloritic along hairline fracutres and in irregular patches thru-out unit. 715.8 - 718.0 m Wacke; Dark gray, thin bedded, contacts distinct - flat, very finely parallel laminated.			

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Scale

Colour Plot & Dips

Drill Hole Record

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Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T Brg. | Collar Dip | Elev. | Length

Meters From	To	Description	Sample No.	Length	Analysis
719.50	725.80	Quartzitic wacke; med. bedded, fine grained, contact mainly indistinct, but some are distinct - undulating. 3 to 10 cm non-laminated to slump structured dark gray wacke bed tops, rare parallel lamina, scattered pink garnet and weak patchy sericitization.			
725.80	738.10	Quartz wacke; med. to thick bedded, generally med. grained, contacts were visable are undulating, 5 to 10 cm thick light gray and dark gray non-laminated wacke bed tops, abundant chloritization and lesser sericitization along irregular hairline fracture and in irregular shaped zones.			
		730.8 to 731.6 m Wacke; dark gray, very thin bedded, contacts flat - distinct.			
		733.8 to 734.4 m Wacke; dark gray with gray banding, thin to very thin bedded, contacts flat - distinct.			
		@ 733.0 m galena occurs in very thin irregular quartz filled fracture.			
		@ 737.6 m sphalerite disseminated along a hairline chloritic fracture.			
738.10	742.40	Quartzitic wacke; med. to thin bedded, fine grained, contact were visable - undulating.			
		2 to 10 cm thick non-laminated to slump structured wacke bed tops.			
		Bedding to core at 740.8 m ∠ 90°.			
742.40	747.40	Quartzitic wacke; maroonish gray, with light pinkish gray banding, med. to thin bedded, very fine grained, contacts flat - sharp, very very fine parallel lamination. Abundant finely disseminated reddish brown biotite, with scattered sericite thru-out unit.			

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Scale

Colour Plot & Dips

Drill Hole Record

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Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Meters From	To	Description	Sample No.	Length	Analysis
742.40	747.40 Cont'd.	Weakly calcareous thru-out unit, with strongly calcareous sections as follows:			
		745.1 - 746.6 m Very calcareous, 50% CaO.			
		746.2 - 746.3 m Calcareous sandstone, coarse grained, 50% CaO.			
747.40	756.00	Quartz wacke; med. to thick bedded, med. grained, contacts distinct - undulating, some good flame structured contacts, 2 to 10 cm thick non-laminated wacke bed tops, sericitic with scattered garnets thru-out.			
		752.4 - 752.6 m Breccia + gouge zone @ 13° to core.			
756.00	762.50	Quartzitic wacke; med. bedded, generally fine grained, contacts distinct - undulating, rarely flat - sharp. 5 to 15 cm thick parallel laminated and non-laminated wacke bed tops. Patchy chloritization, silification, sericitization and scattered pink garnets.			
		762.0 - 762.5 Wacke; gray with some dark gray banding, parallel laminated with abundant irregular pyrrhotite filled fractures which are sub-parallel to bedding.			
762.50	767.80	Quartz wacke; thick to very thick bedded, med. grained, contacts indistinct. 2 to 5 cm thick non-laminated wacke bed tops. Weakly sericitic thru-out, scattered pink garnets.			
767.80	768.50	Wacke; gray with dark gray banding, thin to very thin bedded, wispy laminated to slump structured, some wacke clasts.			

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Scale

Colour Plot & Dips

Drill Hole Record

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Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Meters From	To	Description	Sample No.	Length	Analysis
768.50	769.50	Quartzitic wacke, interbedded wacke; med. to thin bedded. Contacts distinct - undulating. Soft sedimentary slumping at 769.2 to 769.5 m.			
769.50	772.50	Quartz wacke; thick bedded, med. grained, contacts indistinct, 4 to 10 cm thick non-laminated wacke bed tops. Generally sericitic with scattered garnets.			
772.50	773.50	Wacke; med. to thick bedded, contacts indistinct, generally slump structure (soft sediment type).			
773.50	779.00	Calcareous quartzitic wacke; light maroon gray with minor buff banding (Dolomitic zones), med. to very thin bedded, contacts indistinct, very thinnly laminated. Abundant fine reddish brown biotite, lesser sericitie, sand and silt in a carbonate matrix, Some sections contain abundant very fine dendritic pyrrhotite, disseminated pyrite and galena.			

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Scale

Colour Plot & Dips

Drill Hole Record

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Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Meters From	To	Description	Sample No.	Length	Analysis
779.00	780.30	Wacke; gray with light gray banding, thin to very thin bedded, some fine parallel laminations, contacts flat - sharp.			
780.30	785.30	Quartz wacke; thick bedded, med. grained, contacts indistinct, weak sericitization, scattered pink garnets, patchy chloritization.			
785.30	789.60	Quartzitic wacke, interbedded wacke; med, to thin bedded, contacts mainly distinct - undulating.			
789.60	818.30	Quartzitic wacke; med. bedded, minor thin beds, med. to fine grained, contacts wavy - distinct, some good flame structures. 5 to 15 cm thick non-laminated to wavy laminated bed tops. Soft sediment slump structured bed tops common. Scattered patches of sericitization, silicification and chloritization thru-out unit. Widely scattered subhedral pink garnets. 817.8 - 818.3 m Wacke; slumped structure, with some casts developed. Bedding to core at 809.4 = 85°.			

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Drill Hole Record

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Property	NEG	District	WESTERN	Hole No.	N85-1
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim | T Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Footage Meters From	To	Description	Sample No.	Length	Analysis
818.30	820.20	Quartz wacke; med. to thin bedded, med. grained, contacts indistinct, 5 to 10 cm thick light greenish gray non-laminated wacke bed tops. Weakly sericitic and chloritic thru-out.			
820.20	825.00	Quartzitic wacke; maroonish gray with light pinkish gray wacke interbeds, med. to thin bedded, very fine grained, contacts flat - sharp, very finely parallel laminated, some thin pyrrhotite lamina mainly in wacke beds. Weakly calcareous thru-out. 822.5 - 824.4 Strongly calcareous. Generally sericitic with sericite accenting the very fine parallel lamination.			
825.00	826.40	Quartz wacke; med. to thick bedded, med. grained, contacts indistinct, 5 to 15 cm wispy laminated wacke bed tops.			
826.40	831.60	Quartzitic wacke; med. bedded, med. to fine grained, contacts distinct - wavy, 5 to 15 cm thick wacke bed tops, spotty chloritization thru-out, some scattered pink garnets. 828.5 - 828.7 m Shear zone parallel to core.			
831.60	835.60	Quartz wacke; thick to very thick bedded, med. grained contacts indistinct, no bed tops, weakly sericitic thru-out, some scattered pink garnets.			
835.60	836.80	Wacke; dark gray with light gray and black banding, contacts flat - sharp. Some thin wispy pyrrhotite lamina, generally along bedding plane partings. Bedding to core 85°.			

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Scale

Colour Plot & Dips

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Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Meters From	To	Description	Sample No.	Length	Analysis
836.80	841.30	Quartzitic wacke; med. to thin bedded, med. to fine grained, contacts mainly indistinct, wavy where visable, 5 to 15 cm thick wacke bed tops generally wavy to slump structure.			
841.30	842.60	Quartz wacke; thick bedded, contacts indistinct, no wacke bed tops, generally sericitic with scattered pink garnets.			
842.60	844.00	Quartzitic wacke; med. to thin bedded, contacts mainly indistinct, where visable they're flat - sharp. Wacke bed tops commonly slump structured, scattered rip-up clast in some bed tops.			
844.00	846.30	Quartz wacke; thick to very thick bedded, med. grained, contacts indistinct, no wacke bed tops. Generally sericitic with scattered subhedral pink garnets.			
846.30	847.70	Wacke; banded gray, brownish gray and light gray, thin to very thin bedded, contacts flat - sharp some undulating. Thin zones of soft sediment slumping.			
847.70	855.70	Quartz wacke; thick to med. bedded, med. grained, contacts indistinct, 2 to 10 cm thick wacke bed tops, patchy sericitization with scattered subhedral pink garnets.			
855.70	859.00	Quartzitic wacke; med. to thin bedded, fine grained, contacts flat - distinct, 2 to 10 cm thick parallel laminated wacke bed tops.			

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Scale

Colour Plot & Dips

Drill Hole Record

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Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T Brg. | Collar Dip | Elev. | Length

Meters From	To	Description	Sample No.	Length	Analysis
859.00	869.60	Quartz wacke; med. bedded, med. to fine grained, contacts distinct - wavy flame structured in part. 2 to 10 cm thick non-laminated and wavy laminated bed tops. Patchy sericitization and scattered subhedral pink garnets. @ 863.0 m bedding to core 83°.			
869.60	870.70	Quartzitic wacke; thin bedded, fine grained, contacts distinct - undulating, 2 to 5 cm thick wavy to slump structure wacke bed tops.			
870.70	874.30	Quartzitic wacke; maroonish gray with light pinkish gray bands. Some light gray wacke interbeds, generally med. to thin bedded, very fine grained, contacts sharp - flat, generally very finely parallel laminated, lamination accented by sericitization. Unit weakly limey thru-out with very limey sections as follows: 870.4 - 870.5 m thin light gray limestone bed. 873.2 - 874.3 m very calcareous and sericitic.			
874.30	876.20	Wacke; dark gray, thin to very thin bedded, contacts flat - distinct, some finely disseminated pyrrhotite along bedding planes.			
876.20	882.30	Quartz wacke; thick to very thick bedded. Amalgamated unit, no visable bedding planes, weakly sericitic thru-out, widely scattered subhedral pink garnets thru-out, black biotite parallel lamination to lower part of section. 882.3 - 882.6 m Wacke; gray with dark gray banding, thin to very thin bedded.			

211-4

Drill Hole Record

Cominco PAGE 28

Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Meters From	To	Description	Sample No.	Length	Claim	T Brg.	Collar Dip	Elev.	Length	Analysis
882.30	887.70	Wacke, interbedded quartzitic wacke; thin to med. bedded, contacts range from flat - sharp to distinct - undulating, wavy laminated to parallel laminated, minor thin soft sediment slump zones, weakly disseminated fine pyrrhotite in most wacke beds. 883.2 - 883.6 m White Bull quartz vein, hosts patches of massive pyrrhotite and coarsely crystalline biotite.								
887.70	896.30	Quartz wacke; med. to thick bedded, med. grained, contacts indistinct, 5 to 10 cm thick non-laminated and parallel laminated wacke bed tops. Patchy sericitization and scattered pink garnets thru-out.								
896.30	904.70	Quartzitic wacke; med. bedded, fine grained, contacts mainly indistinct but where visable undulating. 5 to 15 cm thick wavy wacke bed tops, rarely parallel laminated. 899.3 - 900.1 m Calcareous quartzitic wacke; maroonish gray, abundant fine reddish brown biotite, very thin parallel sericitic lamina. Strongly chloritic in patches.								
904.70	909.70	Quartz wacke; med. bedded to thick bedded, generally med. grained, contacts indistinct, 2 to 10 cm thick light gray non-laminated to weakly wispy laminated bed tops. Patchy sericitization and chloritization, minor scattered subhedral pink garnets.								
909.70	913.10	Quartzitic wacke; maroonish gray with rare light gray band, med. bedded, very very fine grained, very finely parallel laminated. Abundant fine reddish biotite with fine sericitization accenting parallel lamina.								

811-0437

Drill Hole Record

Cominco PAGE 29

Property NEG	District WESTERN	Hole No. N85-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Meters From	To	Description	Sample No.	Length	Claim	T Brg.	Collar Dip	Elev.	Length	Analysis
909.70	913.10 Cont'd.	Very calcareous section as follows: 910.7 - 910.8 m, 912.0 - 912.1 m, 913.0 - 913.1 m chloritic limestone.								
913.10	921.70	Quartzitic wacke; med. to thin bedded, generally fine grained, contacts mainly indistinct, where visable undulating. 921.4 - 921.7 m Slump structure (soft sediment deformation). 917.0 - 921.0 m White coarsely crystalline quartz-calcite vein hosts very coarsely crystalline black biotite and patchy massive pyrrhotite, minor chalcopyrite mineralization. Footwall cuts core at 17°.								
921.70	933.80	Quartz wacke; med. to mainly thick bedded, med. grained, contacts indistinct, 5 to 15 cm thick light gray wacke bed tops, commonly slump structure, patchy chloritization-sericitation mainly along hairline fractures. Bedding to core 82°.								
933.80	958.50	Wacke; dark gray with some gray banded units, thin to med. bedded, contacts in part sharp - flat and partly distinct - flat, very finely parallel laminated thru-out, finely disseminated pyrrhotite thru-out. Bedding to core @ 952.4 m = 89° to core axis.								

811-0437

Drill Hole Record

Cominco

Property NEG | District WESTERN | Hole No. N85-1

Commenced | Location | Tests at | Hor. Comp.

Completed | Core Size | Corr. Dip | Vert. Comp.

Co-ordinates | True Brg. | Logged by

Objective | % Recov. | Date

Claim | T Brg. | Collar Dip | Elev. | Length | Sheet

Meters From	To	Description	Sample No.	Length	Analysis
958.50	1042.10	Quartzitic wacke, interbedded wacke; med. to thin bedded. Quartzitic wacke; pinkish gray, fine grained, abundant reddish biotite and sericite, commonly silicified in part, generally very finely parallel laminated. Wacke beds; generally light pinkish gray. Contacts are generally flat - sharp, thin chloritic fractures common, generally associated with patchy chloritization. Pyrrhotite occurs in thin chloritic fractures and as widely scattered specks thru-out unit. 1004.3 - 1005.3 m Fault zone consisting of gouge and breccia. Cuts core at 40°. Bedding to core at 1010.0 m = 80°.			
1042.10	1046.60	Quartz wacke; med. to thin bedded, fine grained, contacts both sharp - flat and distinct - undulating, beds generally graded with 2 to 5 cm parallel laminated wacke bed tops. Biotite development in some beds form fine parallel lamination.			
1046.60	1085.00	Same lithology as from 958.5 to 1042.1 m.			
1085.00	1097.80	Quartz wacke; med. to thick bedded, fine to med. grained. Contacts distinct and mainly undulating and in some cases erosional. Thin parallel lamination formed by fine biotite is apparent in some beds. 5 to 10 cm thick wavy to slump structured wacke bed tops, generally graded beds fining upwards. Beds are weakly sericitic with widely scattered subhedral pink garnets. @ 1093.0 m bedding to core 82°. ****END OF HOLE AT 1097.80 m.**** Dave L Peyton			

211-043

Drill Hole Record

Cominco

Property NEG | District WESTERN | Hole No. N85-1

Commenced | Location | Tests at | Hor. Comp.

Completed | Core Size | Corr. Dip | Vert. Comp.

Co-ordinates | True Brg. | Logged by

Objective | % Recov. | Date

Claim | T Brg. | Collar Dip | Elev. | Length | Sheet

Footage From	To	Description	Sample No.	Length	Analysis
		SPERRY SUN DRILL HOLE SURVEYS			
		1097.8 meters dip 84.7° bearing S40°W true			
		914.6 meters dip 72.0° bearing S47°W true			
		762.2 meters dip 75.0° bearing S68°W true			
		608.0 meters dip 80.0° bearing S52°W true			
		457.3 meters dip 90.0° - - -			
		304.9 meters dip 90.0° - - -			
		152.4 meters dip 90.0° - - -			

211-044