

Cominco DH #1

- 0-830' Feldspar porphyry - pale yellow to pink, Plag, Qtz phenos 2/1  
3% biotite flakes - dense Q-F groundmass.
- 830-860' Andesite - dacite; dark green grey; dense, massive + vague local  
foliation. near end of section common amygdules - calcite,  
alteration to epidote common.
- 860-1023' limestone - very cherty dense, locally (5%) medium to fine grained  
sugary XLS, faint irregular stylolitic banding of black carbonaceous  
material  
(near end of hole - black volcanic rock inclusions in limestone  
of green to black color) Minor grains + lenses of po occur at  
866 ± sl, 871, 996, 1023 in cherty limestone.

# A dit

Cherty horizon contains sulfides

None in XLLS

angular fragments of chert cemented by gangue of  $\text{Pb}$ -rhodochite <sup>dissem</sup> ± gl, sl.

assay of gangue? 0.01 4.9 1.70 2.93

0 - 125' No sulfide  
Fault

Mineralized rock - Chert breccia

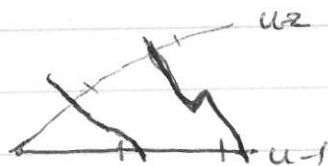
160- 50% ~~sulfide~~ mineralization 0.01 4.8 0.98 2.50

200' - 210' 0.005 10.0 3.0 7.5 (variable) 5.2' width  
abrupt end of ore as narrow stringer into right wall.

# Underground Drill Holes.

U-1 0-9 Volc bx?  
 9-104 Lst  
 10.9-~~27.5~~<sup>27.5</sup> Chert (cream)  
 27.5-~~54.5~~<sup>54.5</sup> Brown chert frags in Lst, Volc Bx!!  
 54.5-55.8 Chert  
 55.8-56.2 Volc bx  
 56.2-66 Chert (cream)  
 66-68.7 Lst, Volc bx, chert.  
 68.7-68.8 Chert ± argillite  
 68.8-76.9 Volc rx (bx)  
 76.9-84.6 Chert ± argillite  
 84.6-85.1 Volc Bx  
 85.1-87 Argillite  
 87-93 Chert ± argillite  
 93-103 Volc bx, chert  
 103-132 Chert.  
 132-216 Chert, argillite, .  
 216-317 Andesite ± amygdaloidal

U2- 0-6 LST  
 6-10 Volc bx  
 10-113 LST ± volc bx  
 chert @ 24.2, 70.4  
 113 Argillite  
 114 Fault  
 128-131 Chert ± Ls, arg.  
 131-140 Argillite  
 140-171 Chert ± argillite  
 171-326 Andesite ± felts  
 variably amygdaloidal



U-3. 0-11 Lst  
 11-12 Chert ± Po, gl, st  
 12-13 Chert  
 13-15 Lst  
 15-16 Chert  
 16-17 Sulfides in chert  
 17-22 Chert  
 22-~~30~~<sup>30</sup> Lst embedded w chert PEX  
 30-44 Lst  
 44-53 Lst embedded w PEX

53-60 PEX cream  
 60-218 - PEX - black  
 ± po @ 142, 149  
 218-252 Fragmental dacite  
 some amygdaloidal

U-4.

0-7 Lst, brown chert frags  
7-15 Andesite, quartzite = chert?  
15-38 LST. Fossils 18, 27  
38-40 Sulfides 0.8' 38.9-39.7 0.05 7.4 0.94 0.30  
40-61 Chert = QEX  
61-70 Fossil LST, Chert  
70-80' QEX cream  
80-97 QEX black

U-5 0-17 LST

18-27 Chert. PO - Rhod 18-20.2 0.02 4.4 1.41 56  
Sl. 20-21.5 0.02 6.3 2.45 25.2

27-33 Lst - Fossils

33-36 QEX

36-39 Lst - Fossils

39-56 QEX

56-76 LST

72-76 QEX cream

76-104 QEX black.

U-6. 0-34 Lst ± chert frags. <sup>brown</sup>

34-38.8 LAMP

38.8-42.6 Chert - sl - ps. gl. 0.02 28.1 12.63 71.21 0.36 <sup>cd</sup>

42.6-54 LST fossils

54-62 QEX - brown

62-104 LST, QEX interlayered finely

U-7,

along strike

0-35 LST

35-38 QEX

38-55 LST

55-70 LAMP

70-105 LST ± chert (brown)

105-137 QEX

137-147 LST fossils

147-178 QEX cream, brown

U-8 N-10 E.

0-67. LST, Volc bx, some brown chert

67-77 Andesite ± LST, chert

77-106 Fault

106-138 Volc Tuff - Ash. fragmental

138-180 LST ± Volc tuff, bx

180-203 QEX. cream ± brown, argillite

203-271 Andesite ± cherty beds

U-9. - Variable beds LST, QEX, thinly bedded.

~~LST~~ ~~QEX~~ ~~T.I.~~ 0-7 LST, QEX thin layers

~~QEX~~ ~~QEX~~ ~~T.I.~~ 7-36 LST, fossils

Chert 36-39 LST, QEX

39-76 LST

76-81 LST, QEX

81-92 QEX ± argillite

## No 5 Zone

S<sub>1</sub> 0-7.8 Silice volc rx ± po  
6.8-8.5 Py-gl-st 0.005 41.1 8.6 1.6  
8-17 Silice volc rx  
17-28 Amygdal. Andesite

S<sub>2</sub> 0-3.5 Sil volc - andesite? ± sl gl po  
3.5-19 Fe site or QEX ± po, sl gl otreats.

S<sub>6</sub> 0-5 QEX, LST + po, gl, sl.

S<sub>7</sub> 0-6 Po, sl, gl.

6-20 Cherty LST ± bx, sulf.

20-25 Po in bx cherty LST ± gl, sl

25-26 Cherty L<sup>s</sup>

26-34 Po in bx cherty LST ± gl, sl.

34-43 Cherty L<sup>s</sup>.

# No 8 Zone

S-3

0-5	Cherty LS, gl, sl, shud, py, po	0.005	12.0	5.54	8.11
5-8.7	Same py, po ± gl sl	0.005	4.3	1.08	1.22
8.7-12	Chert bx - gl, sl	0.005	9.0	2.91	4.44
12-16	Chert, Cherty LST				

S-4	0-7	Chert bx, sl, gl, shud	0.005	41.1?	8.55	1.56	??
	7-13	py, po	0.02	6.3	1.13	4.27	
	13-20	Cherty LST ± ang	0.01	1.2	0.57	1.74	
	20-21.5	"					
	21.5-33	Felsic dke					

S5	0-7	Chert-bx	0.01	6.0	1.96	3.30
	7-9	Chert				
	9-13.1		0.02	5.1	1.11	2.60
	13.1-30	Chert ± gl, sl				

Regional - Souther 1971

widespread Permian carbonate

bioclastic textures = low coastlines, platforms reef.

- uplift → argillites, cherts

The sudden <sup>+widespread</sup> appearance of chert possibly related to <sup>submarine</sup> volcanic emanations

Polaris Au yielding  
By Bull, T.C. 1 m tons 0.09 Au 3.4 Ag 1.3 Cu 1.3 Pb 6.2 Zn  
0.02 Cd.

Base Metals in sheared Stuhini volcanic (TC, BB)

" Permian lst (EA)

in Stuhini near felsic intrusions

Country rock - high SiO<sub>2</sub>, carbonate, albite, pyrite

qtz carb, barite + stibnite stringers

P.T. - Apy-Au in carbonatized Stuhini R. dissemin + on qtz-carb stringers

Sections

Unit 4. Chert + argillaceous qtzite, some LST. interlayered