

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

DIAMOND DRILLING REPORT

ON

CLAIR NO. 1 CLAIM

N.T.S. 82F/9W

Fort Steele Mining Division

August, 1979

D.D. Hole C-79-1

Latitude: 116° 14' 30"

Longitude: 49° 40'

Report by:
G.L. Webber
Geologist

Kootenay Exploration
2450 Cranbrook Street
Cranbrook, B.C.
VIC 3T4

Under the supervision of:
E.A.U. Parviainen
Geologist

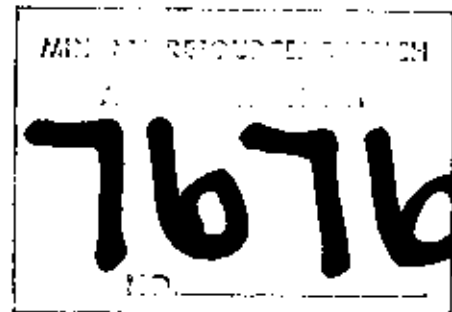


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COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

CLAIR NO. 1 CLAIM

Fort Steele Mining Division

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GENERAL STATEMENT

This report describes the results and expenditures relating to diamond drilling on the Clair No. 1 claim.

Diamond drilling was performed during May 10th to 30th, 1979.

Total expenditures relating to diamond drill program amounted to \$41,599.

It is requested that \$40,000 be applied as follows:

Clair No. 1 (20 units) 7 years:	3 yrs. @ \$100 and	
	4 yrs. @ \$200	\$ 22,000
Clair No. 2 (20 units) 6 years:	3 yrs. @ \$100 and	
	3 yrs. @ \$200	18,000
		<u>\$ 40,000</u>

It is requested that \$1,599 be credited to Cominco PAC account.

INTRODUCTION

General

One H.Q. diamond drill hole, totalling 370.6 metres was drilled to test the potential of a sulphide-bearing conglomerate and its host stratigraphy, and for potential economic Pb-Zn mineralization.

D.D. Hole C-79-1: Intersected 3% iron sulphides and trace amounts of Pb-Zn from 157 m to 228 m; assays from this interval are as follows:

ppm		%	From (m)	To (m)	Description
Pb	Zn	Fe			
72	79	3.10	157.1	158.5	Wispy laminated and disseminated Pb.
77	80	3.90	158.5	159.1	
78	122	3.86	159.1	160.6	"
41	43	2.40	160.6	162.2	"
73	65	2.80	162.2	162.6	"
66	76	10.00	162.6	162.9	"

- continued -

Clair No. 1 Claim
D.D. Report

- 2 -

D.D. Hole C-79-1: - continued -

ppm		%	From (m)	To (m)	Description
Pb	Zn	Fe			
60	73	2.50	162.9	164.6	Po vein and disseminations.
81	110	4.00	164.6	166.1	Wispy laminations and
45	80	3.00	166.1	167.6	disseminated Po.
10	67	2.90	167.6	169.2	"
5	57	3.65	169.2	170.7	"
23	94	2.90	170.7	172.2	"
38	84	3.00	172.2	173.7	"
34	70	3.70	173.7	175.0	"
31	76	3.35	175.0	176.5	"
46	95	3.27	176.5	178.0	"
29	74	3.30	178.0	179.5	"
34	82	3.35	179.5	181.0	"
300	1200	2.80	212.3	214.0)	Quartz
8700	4000	2.90	228.0	228.4)	veinlets

The drill program was under the direction of E.W. Batchelor and supervised by E.A.U. Parviainen.

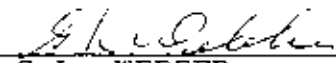
Location and Access

Clair Claim No. 1 is located 2 km S.W. of St. Mary Lake and 36 km via good gravel road from Marysville. The elevation on the claim ranges from 1000 m to 1889 m.

Sperry Sun Single Shot Test of D.D. C-79-1.

At collar bearing 075° Az. Dip -65°
At 162.8 m bearing 073° Az. Dip -65°
At 315.9 m bearing 076° Az. Dip -52°.

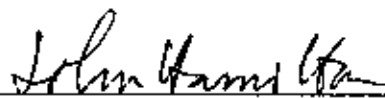
SUBMITTED BY:


G.L. WEBBER
Geologist

ENDORSED BY:


DOUGLAS ANDERSON P. Eng.
Geologist

APPROVED FOR
RELEASE BY:


J.M. HAMILTON, P. Eng.
Chief Geologist, Kimberley

STATEMENT OF EXPENDITURES

CLAIR NO. 1 CLAIM

Diamond Drilling - Indirect

Salaries (field).

E.W. Batchelor (Geologist) 14 days @ \$137/day	\$ 1,918
E.A.U. Parviainen (Geologist) 2 days @ \$150/day	300

Salaries (office)

G.L. Webber (Geologist) report & map preparation 3 days @ \$114/day	342
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Diamond Drilling - Indirect - Drill Support

Core Boxes - E.G. Whalley & Son Ltd., Burnaby, B.C.	410
Transportation: 4 x 4 1/2 T - 14 days @ \$25/day	350

Mobilization

Fiorentino Contracting Ltd. (move drill)	203
Southern Interior Express	185
W.R. Johnson (move drill)	270
Henderson Heavy Hauling	69

\$ 4,047

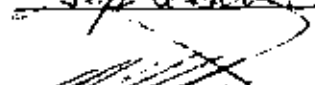
Diamond Drilling - Direct

Longyear Canada Inc., Box 330, North Bay, Ont. P1B 3H6 D.D. Hole C-79-1: 370 m @ \$101.49/m	\$37,552
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Total Expenditures - Indirect	\$ 4,047
Total Expenditures - Direct	\$37,552
	<u>\$41,599</u>

This is Exhibit "A" to the Statutory Declaration of G.L. Webber declared before me this 18 day of

September, 1979.


M. G. REID
COMMISSIONER FOR TAKING
AFFIDAVITS IN BRITISH COLUMBIA
A Commissioner for taking Affidavits
for the Province of British Columbia.

IN THE MATTER OF THE

4

B.C. MINERAL ACT

AND

IN THE MATTER OF A DIAMOND DRILL PROGRAM

CARRIED OUT ON THE CLAIR 1 MINERAL CLAIM

ST. MARY LAKE AREA

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

More Particularly N.T.S. 82F/9W

A F F I D A V I T

I, G.L. WEBBER, of the City of Kimberley, 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
Clair 1 Mineral Claim.
3. That the said expenditures were incurred between
the 10th day of May, 1979 and the 30th day of
May, 1979, for the purpose of mineral exploration
on the above noted claim.

Sworn Before Me at Kimberley)
 in the Province of British Columbia,)
 this 18 day of September, 1979.)



M. G. REID
 COMMISSIONER FOR TAKING
 AFFIDAVITS IN BRITISH COLUMBIA

A Commissioner for taking Affidavits)
 in the Province of British Columbia.)

G.L. Webber
 G.L. WEBBER

COMINCO LTD.


EXPLORATION

WESTERN DISTRICT

STATEMENT OF QUALIFICATIONS

G.L. WEBBER has personally conducted many types of mineral exploration work for Cominco Ltd. over the last twenty-five years.

I consider him well qualified to prepare this report.


DOUGLAS ANDERSON, P. Eng.
Geologist

Drill Hole Record



Property CLAIR **District** Golden M.D. **Hole No.** C-79-1
Commenced May 14, 1979 **Location** **Tests at** 162.8m & 315.9m **Hor. Comp.** 156.6m
Completed May 23, 1979 **Core Size** H.Q. **Corr. Dip** -65° **Vert. Comp.** 335.9
Co-ordinates **True Dip** 075° **Logged by** E. W. BATCHELOR
Objective To intersect mineralized conglomerate and 100 m of hangingwall and footwall stratigraphy **% Recov.** 45% **Date** May 1979

Footage From	To	Description	Sample No.	Length	Analysis	
					Collar Dip	Element
0	4.29m	OVERBURDEN: Glacial Till.				
4.29	7.32	QUARTZ ARENITE: Fine-grained, grey to beige coloured, thick-bedded turbidites. Single argillaceous top at 5.0m. Joints cut core axis at 30 to 50°.	SPERRY SUN	SINGLE		
			SHOT	TEST		
			DDH C-79-1			
7.32	9.45	QUARTZITIC WACKE: Fine-grained, grey, thick-bedded turbidite conglts. Core to bedding angle is 45° at 9.45m.	At collar	bearing 075°Az. - 60		
			At 162.8m	bearing 073°Az. - 50		
			At 315.9m	bearing 076°Az. - 52		
9.45	14.94	QUARTZITIC WACKE: Fine-grained, grey, medium to thick-bedded turbidite conglts. Load casting and slumping very common. Silicification is common along 0.5 to 1.0m joints. 13.72 to 14.94 strongly silicified zone.				
14.94	15.79	WACKE: Very-fine-grained, grey-beige, massive unit. Slumping and or load casting common near middle of unit.				
15.79	20.88	SILICIFIED QUARTZITIC WACKE(?): Very hard, fine-grained, light grey to cream colour. Upper contact is gradational. Minor shear at 50° to core axis near base of interval. Silicification destroys turbidite tops.				

Drill Hole Record



Property CLAIR District Golden M.D. Hole No. C-79-1 2
 Commenced _____ Location _____ Tests at _____ Hor. Comp. _____
 Completed _____ Core Size _____ Corr. Dip _____ Vert. Comp. _____
 Co-ordinates _____ True Brg. _____ Logged by _____
 Objective _____ % Recov. _____ Date _____

Depth From	To	Description	Sample No.	Length	Analysis
20.68	82.8	<p>QUARTZITIC WACKE: Predominantly thick to very thick turbidite couplets, fine-grained, light to dark grey. Slumping and load casting common throughout. Argillaceous tops constitute less than 10% of interval. Silicification is common along joints and also along some beds.</p> <p>22.87: bedding parallel to core axis for 2.5 cm.</p> <p>23.4 to 23.54: Interturbidite subwacke. Bedding at 45° to core axis.</p> <p>34.01 to 35.52: Bedding at 55° to core axis.</p> <p>53.05 to 54.67: Intense silicification with 3% pyrrhotite in irregular patches and small veinlets.</p> <p>58.3: Concretion, 6" in diameter.</p>			
62.8	85.88	<p>WACKE(?): Dark grey, fine-grained unit without many obvious argillaceous tops. Silicification is common along joints and irregular fractures. Chlorite and/or biotite is common with some quartz veinlets.</p> <p>68.45: 15 cm silicified zone containing 2-4mm diameter ovoid metamorphic concentrations of biotite.</p> <p>73.02 to 73.48: 1 cm wide vein sub-parallel to core axis. Interval is silicified and contains 5% chlorite.</p> <p>75.0 to 76.52: Silicified zone containing faint ovoid metamorphic segregations of biotite-chlorite. Lower contact gradational.</p> <p>76.52 to 77.74: Thin to medium beds of wacke alternating very thin beds of quartzitic wacke. Core axis to bedding angle is 85°.</p>			

Claim _____
 Brg. _____
 Collar Dip _____
 Elev. _____
 Length _____
 Hole No. _____
 Sheet _____

Scale
 1/4" = 100'
 1/8" = 50'

Drill Hole Record



Property	CLAIR	District	Golden M.D.	Hole No.	C-78-1		3
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	Description	Sample No.	Length	Analysis
From	To			
82.8	95.88			
	CONTINUED --			
	76.52 to 77.74 - continued -- Lead casting at 77m.			
	81.4 to 82.18: Chloritic shear zone at 45° to axis.			
	89.02 to 90.54: Zone of quartz veining and silicification.			
95.88	98.17			
	SHEAR ZONE: Phyllitic, chloritic rock which was probably originally a wacke. Foliation cuts core axis at 60°. Minor quartz veins to 1 cm wide.			
98.17	133.08			
	WACKE: Predominantly medium- to thick-bedded, fine-grained, grey turbidite couplets. 20% argillaceous tops.			
	123.48: Core to bedding angle -75°.			
	128.45: Core to bedding angle is 80°.			
	129.27: 8 cm wide quartz vein containing 5% Po and 3% biotite trace cpy.			
	129.57: rip-up clasts.			
133.08	138.41			
	WACKE: Predominantly thick-bedded, fine-grained, light grey turbidite couplets with 10% argillaceous tops.			
	134.45: 5 cm wide quartz vein sub-parallel to core axis containing 10% Po.			
	136m trace ZnS and Po in hairline fracture.			

Drill Hole Record



Property	CLAIR	District	Golden M.D.	Hole No.	C-79-1	4
Commenced		Location		Tests at		Hor. Comp.
Completed		Core Size		Corr. Dip		Vert. Comp.
Co-ordinates				True Brq.		Logged by
Objective				% Recov.		Date

Clean
T Brq.
Collar Dip
Elev.
Length
Hole No.
Sheet

Footage	Description	Sample No.	Length	Analysis
From	To			
138.41	140.55			
	SHEARED WACKES(?): Fine-grained, dark greenish, grey lithology containing 3-5% ovoid segregations of quartz which are 1-2mm in diameter. Approximately 3% Po in wispy concentrations parallel to foliation and in narrow veinlets.			
140.55	153.05			
	QUARTZITIC WACKE: Massive to thickly-laminated, fine-grained, light grey. Probably turbidites, but argillaceous tops are very indistinct. Approximately 3% pyrrhotite occurs throughout as disseminations, wispy aggregates of grains and 1-3mm wide fractures. Slumping is common in laminated sections in lower portion of the interval. 148.17 to 150.61. Highly slump contorted interval. Short intervals adjacent to 1-2cm wide quartz veins are partially altered to talc. 2-3cm veins contain 20% pyrrhotite and a trace of chalcopyrite.			
153.05	158.54			
	WACKE: Predominantly thin to medium-bedded, dark grey, and fine-grained turbidite couplets. 1-2% Po as disseminations and wispy veinlets 1-2mm wide. 156.4 to 157.32: Irregular quartz veins grading into silicified chloritic wacke(?). 5% pyrrhotite in irregular veinlets occurs throughout. One such veinlet at 156m contains a few crystals of galena (0.5%).			

Drill Hole Record



Property CLAIR District Golden Hole No. C-79-1 5
 Commenced _____ Location _____ Tests #1 _____ Hor. Comp. _____
 Completed _____ Core Size _____ Cor. Dip _____ Vert. Comp. _____
 Co-ordinates _____ True Brg. _____ Logged by _____
 Objective _____ % Recov. _____ Date _____

Footage From	To	Description	Sample No.	Length	Claim	T. Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
58.54	159.3	CONGLOMERATE: Fine-grained, light grey matrix containing 20% clasts to 6cm in size. Clasts are subround to oval in shape. Average size is 1cm. Approximately 75% of clasts are pyrrhotite-biotite-rich and the remainder are quartzitic wacke. Overall pyrrhotite content of the interval is approximately 7%.									
159.3	171.04	CONGLOMERATIC QUARTZITIC WACKE: Fine-grained, light grey matrix (90%) containing clasts (5%) and pyrrhotite (5%). Clasts are rounded to disk-shaped and are comprised of variable proportions of quartz, biotite and pyrrhotite. Pyrrhotite occurs in veinlets, laminations, disseminations and in clasts. Often it is difficult to determine whether or not irregular concentrations of pyrrhotite are clasts. Average clast size is 1 cm. Many laminations are deformed by slumping.									
171.04	175.15	PYRRHOTITE LAMINATED QUARTZITIC WACKE: Fine-grained, light grey quartzitic wacke (95%) containing pyrrhotite (5%) as wispy discontinuous laminations, disseminations and irregular veinlets. Some veinlets may be slumped laminations. Core to bedding angle is 70 to 85°.									
175.15	180.34	CONGLOMERATIC QUARTZITIC WACKE: Similar to 159.3 to 171.04 but with 15% clasts.									

Drill Hole Record



Property CLAIR District Golden M.D. Hole No. C-79-1 6
 Commenced _____ Location _____ Tests at _____ Hor. Comp. _____
 Completed _____ Core Size _____ Corr. Dip _____ Vert. Comp. _____
 Co-ordinates _____ True Brg. _____ Logged by _____
 Objective _____ % Recov. _____ Date _____

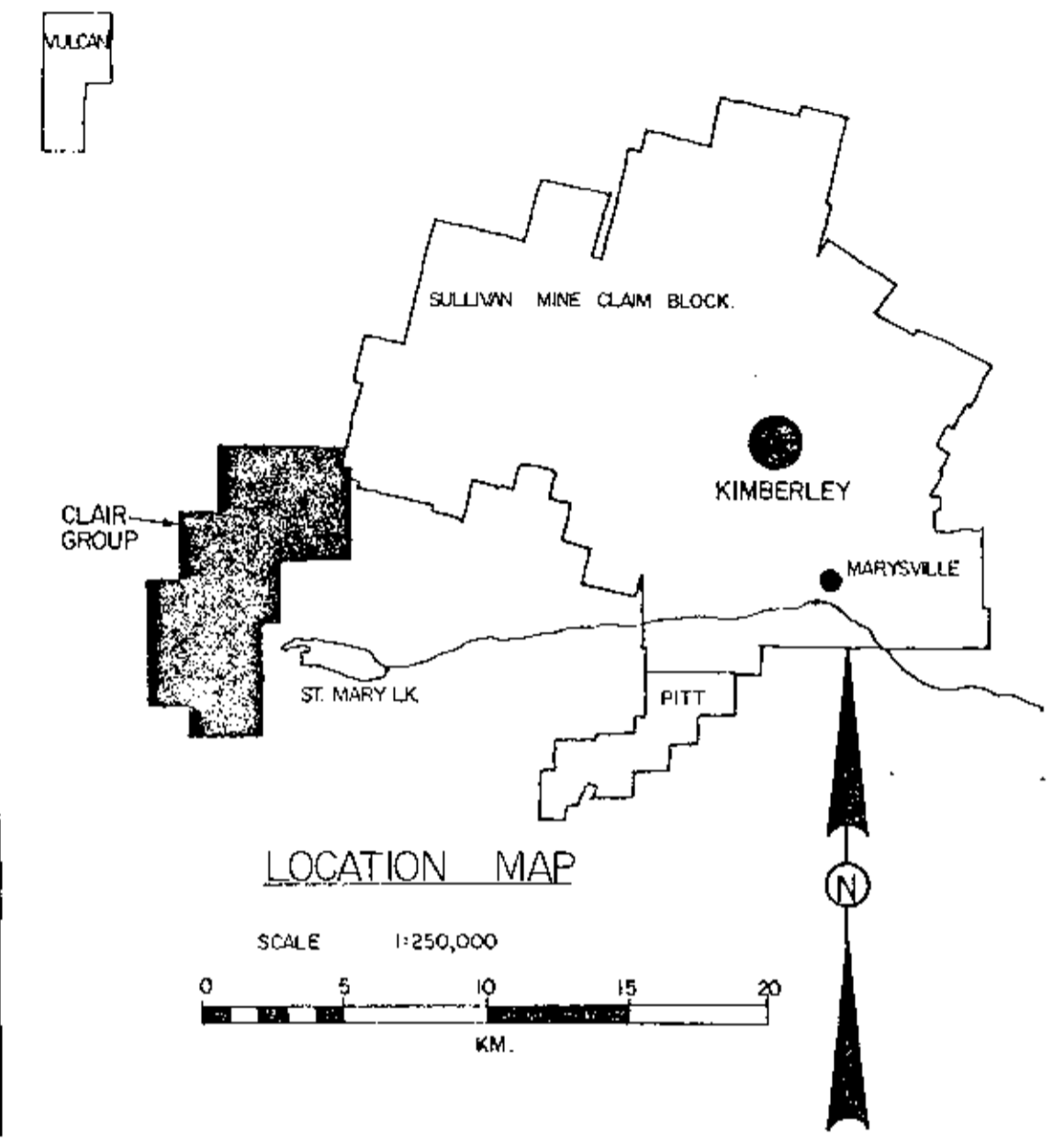
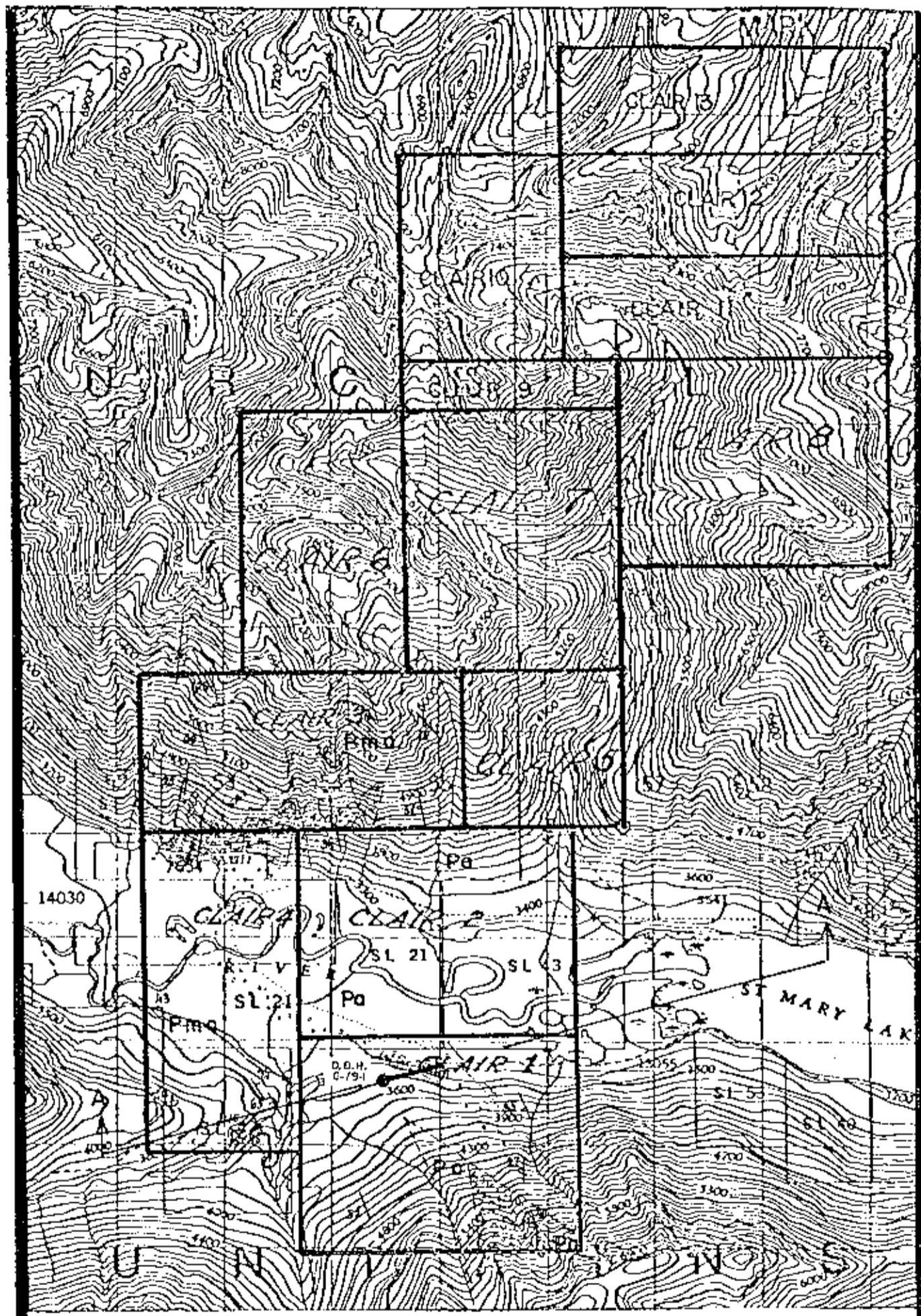
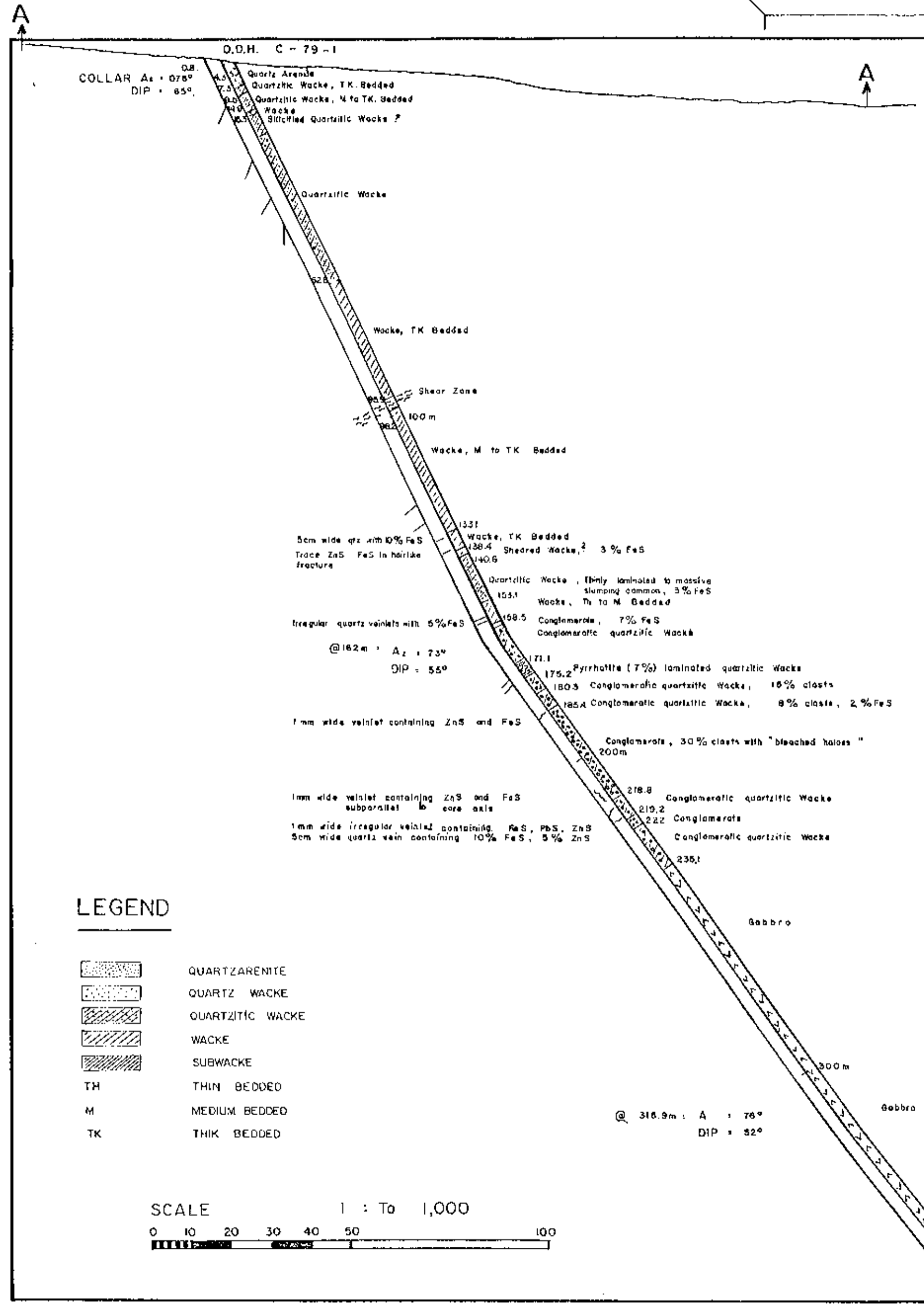
Footage From	To	Description	Sample No.	Length	Analysis	Clam	T Brg.	Collar Dip	Elev.	Length	Hole No.
180.34	185.37	CONGLOMERATIC QUARTZITIC WACKE: Fine-grained, light grey, quartzitic wacke matrix (80%) containing 8% clasts and 2% pyrrhotite as disseminated grains, irregular veinlets and concentrations in clasts. Some of veinlets may have been formed during slumping.									
185.37	213.81	CONGLOMERATE: Fine-grained, light grey quartzitic wacke matrix (70%) containing 30% brownish grey clasts with "bleached" haloes which gives them a mottled, irregular appearance. Clasts contain pyrrhotite (2%) and biotite (1%). Largest clasts are 3 cm x 6 cm and average size is 2 cm x 4 cm. 184.6: 1mm wide veinlet containing pyrrhotite and sphalerite cuts core axis to 25°. 212.5 to 213.41: 1mm wide veinlet containing sphalerite and pyrrhotite sub-parallel to core axis.									
213.81	219.21	CONGLOMERATIC QUARTZITIC WACKE: Fine-grained, light grey quartzitic wacke (95%) containing 5% brownish grey clasts, similar to 180.34 to 185.37. 216.31: 1mm wide irregular veinlet containing pyrrhotite and galena. 218.9 to 219.21: 2" wide quartz vein containing 10% pyrrhotite and 5% sphalerite. Vein has chloritic selvages.									

Drill Hole Record



Property CLAIR District Golden M.D. Hole No. C-79.1 7
 Commenced _____ Location _____ Tests at _____ Hor. Comp. _____
 Completed _____ Core Size _____ Corr. Dip _____ Vert. Comp. _____
 Co-ordinates _____ True Brg. _____ Logged by _____
 Objective _____ % Recov. _____ Date _____

Footage From To	Description	Sample No.	Length	Analysis			
219.21 222.28	CONGLOMERATE: Similar to 185.37 to 213.81 but "bleached" rims are not so pronounced and average clast size is 1 cm. Contains approximately 1% pyrrhotite as veinlets and disseminations.						
222.28 235.08	CONGLOMERATIC QUARTZITIC WACKE: Fine-grained, light grey quartzitic wacke matrix (95%) contains clasts whose average size is 0.5 cm. Similar to 180.34 to 185.37. 225.61: Irregular veinlets, 1mm wide, containing 2% pyrrhotite, 1% sphalerite and 1% galena and cut core axis at 35°. 228.05: Irregular veinlets, 1-2mm wide, containing 4% pyrrhotite, 2% galena and 2% sphalerite over core length of 10 cm.						
235.08 350.61	GABBRO: Coarse-grained, equigranular with chilled margins and quartz veins at the contact. The sill is a multiple intrusive with internal chilled margins and quartz veins at 228.72 to 290.09; 303.35 to 304.42 and 300.91 to 301.52.						
350.5 370.6	FOLIATED QUARTZITIC WACKE(?): Fine- to medium-grained, light grey to brownish grey sediment with strong foliation which cuts core axis at 80 to 75°. Shear planes appear to have a chloritic selvage. 350.6 to 370.73: Zone of quartz veining and chloritic alteration adjacent to gabbro sill.						
	- END OF HOLE - Core Stored at Sullivan Mine Property, Kimberley, B.C.						



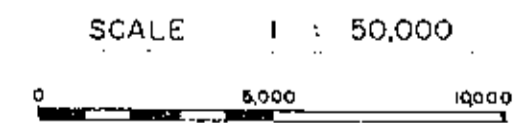
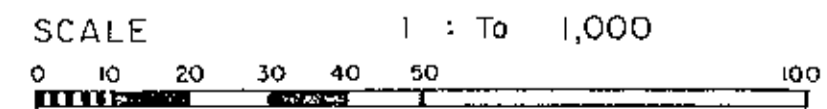
LEGEND

- QUARTZARENITE
- QUARTZ WACKE
- QUARTZITIC WACKE
- WACKE
- SUBWACKE
- TH THIN BEDDED
- M MEDIUM BEDDED
- TK THICK BEDDED

LEGEND

- Pa ALDRIDGE Fm (UNDIVIDED)
- Pma MIDDLE ALDRIDGE
- MOYIE INTRUSIVES
- CONGLOMERATE

7676



Drawn by:		Traced by: <i>ZK</i>	
Revised by:	Date:	Revised by:	Date:
D. D. H. C - 79 - 1		NTS 82F/9	
CLAIR CLAIMS		Date: SEPT 1979	
Scale: 1: 1,000 1: 50,000 1: 250,000		Plate: C-79-1	