85-966-14139

COMINCO LTD.



WESTERN DISTRICT

DIAMOND DRILLING REPORT LEW_PROPERTY LEW CLAIM 23 FORT STEELE MINING DIVISION, B.C. MOYIE RIVER AREA

ASSESSMENT REPORT

LATITUDE: 49⁰ 20' N

LONGITUDE: 116⁰ 04' W

OWNER

COMINCO LTD.

KOOTENAY EXPLORATION 1051 INDUSTRIAL ROAD #2, CRANBROOK, B.C. V1C 4K7

GEOLOGICAL BRANCH ASSESSMENT REPORT

1985 _

REPORT BY: DOUGLAS ANDERSON

SUBMITTED: SUBMITTED:

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DIAMOND DRILL LOG	ATTACHED
LOCATION MAP	IN POCKET

EXPLORATION

WESTERN DISTRICT

DIAMOND DRILLING REPORT LEW PROPERTY Lew Claim 23 Fort Steele Mining Division

1.00 INTRODUCTION

The Lew group of claims are 100% Cominco Ltd. owned. The original Lewis Creek claims were staked in 1980 and the claim block was expanded to the north over the following three years. A variety of exploration work over the last five years has included geochemistry, UTEM geophysics, and limited drilling. To date, little of economic interest is indicated.

Access to the claims is via Highway 3, the Lumberton road, the main Moyie river road and then the North Moyie road to the drill site. (See map in pocket.) The area has been extensively logged in recent times and good access exists to all regions of the property. The topography is of moderate relief ranging from 1400 to 1850 meters above sea level.

In 1985, a single drill hole, 246.0 meters in length was drilled on the Lew 23 claim. This work was completed in the October 1st to 5th period.

2.00 DIAMOND DRILLING

Drill hole L-85-1 drilled on Lew 23 was collared at about 1500 meters elevation, dipping -45° on an azimuth of 118°. The hole was drilled NQ to its final depth of 246.0 meters.

The hole was designed to test a fragmental zone within the Aldridge Formation located by float and exposed in surface trenches. A fragmental is a type of sedimentary breccia with clasts or fragments as well as matrix typical of Aldridge Formation lithologies. Fragmental was intersected from the base of the casing at 5.49 meters to approximately 226.2 meters. It varies widely in framework from intact to disrupted. The clast sizes never get too large but do range from granule to large pebbles. Clast shapes are highly variable with angular to rounded forms. Most often there is a bimodal clast content (predominantly wackes) in a slightly coarser quartzitic wacke matrix. Overall the fragmental is quite fractured with broken core resulting in lower core recoveries. Only minor alteration was encountered as sericitic, quartz-chlorite, or tourmaline-rich zones which occur locally over a few centimeters. The eastern contact of the fragmental is transitional over a few meters to in-place, bedded sediments of wacke and quartzitic wacke compositions.

L-85-1 drilled down and through a fragmental zone of limited size. No sulfides of significance were found excepting some occassional pyrite patches. The core indicates little economic potential for the immediate area.

The core is stored temporarily at the Kootenay Exploration facility in Cranbrook. Long-term storage will be at the Sullivan Mine.

EXHIBIT "A"

3

STATEMENT OF EXPENDITURES

DIAMOND DRILLING - LEW 23

Hole L-85-1

Fort Steele M.D.

<u>Diamond Drilling - Direct</u> Longyear Canada Inc., 721 Aldford Ave., Annacis Industrial Estate, New Westminster, B.C. V3M 5P5	\$19,823.15
<u> Diamond Drilling - Indirect</u>	
Salaries - D. Anderson - 16D @ \$250/D	4,000.00
Mobilization-Demobilization	
Henderson Heavy Hauling Ltd., Cranbrook, B.C. Wright Contracting, Cranbrook, B.C. (D6 Cat)	1,536.00 1,015.00
<u>Other Associated Costs</u> :	
Supplies - core boxes + mud Transportation - Truck (4x4) - 7D @ \$40/D	351.63 280.00
TOTAL EXPENDITURES	= \$27,005.78

D. ANDERSON, Project Geologist

IN THE MATTER OF THE

B.C. MINERAL ACT

AND

IN THE MATTER OF A DRILLING PROGRAM

CARRIED OUT ON THE LEW MINERAL CLAIMS

CRANBROOK AREA

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

More Particularly N.T.S. 82F/8

AFFIDAVI, T

I, D. Anderson, of the City of Cranbrook, in the Provice of British Columbia, make Oath and say:

- 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 are true copies of expenditures incurred on a drilling program, on the Lew mineral claims.
- 3) That the said expenditures were incurred between the 1st day of October, 1985 and the 5th day of October, 1985 for the purpose of mineral exploration on the above noted claims.

D. ANDERSON, P.Eng. Project Geologist

- 4 -

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

AUTHOR'S QUALIFICATIONS

As author of this report I, D. Anderson certify that :

I am employed by Cominco Ltd. as a geologist active in mineral exploration.

I am a graduate of the University of British Columbia with a degree of Bachelor of Applied Science.

I have been continuously engaged in geology and mineral exploration for 16 years.

I am a member of the Association of Professional Engineers of British Columbia.

D. ANDERSON, P.Eng. Project Geologist

Report by:

D. ANDERSON, P.Eng. Project Geologist

Approved by: 🗸

J.M. HAMILTON, P.Eng. Manager Exploration

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

Drill Hole F	District WESTERN Hole No. L-85-1		÷				
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WHE METERS		Sample No.	Length			1	_
0 - 5.48	Casing - Overburden and site fill - casing set in rock a few feet.				<u> </u>		
			Į		_	<u> </u>	
5.48 - 26.52			┫		-	+	
	Medium grey, quite uniform zone: Disrupted framework with <5% classe overall .		_				
	with local concentrations. Bimodal clast content - orey quartzitic wacks		+		+		
·····	clasts and dark grey wacks, fine-grained clasts (generally more anghlar) set		<u> </u>	+	+	+	
	in a quartzitic wacke matrix which is fine-grained excepting 0.5 mm quartz		╂────		-	+	-
	grains scattered through matrix. Clasts very angular to subrounded: alongate to equant; clasts to small pebble size. Average clast is alongate, it:	1	1	+-	+	+	-
	with a long dimension of 5 mm.		<u>†</u>	+	+	+	
	Transitional to zone below.	1	†	\dagger	1	1	
		1	1	1	1	1	-
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	or approximately in-place wallrock. The fragments or blocks are oriented at			Τ		1	
	30-45° to core axis. The matrix, a generally lighter-grey, fine-grained					Ι	
	quartzitic wacke is coarser than the darker, finer-grained wacke clasts.						_
	some of which are finaly laminated. Some fine-grained tourmaline-rich occurr-		ļ				
	ences over a few centimeters locally. Some amphibole+pyrrhotite in a few	_			_	1	_
	narrow veins.		 		Į.		
<u></u>	Occassionally there are short sections of pebble. fragmental where small		<u> </u>	-	\vdash	_	
	fragments to 40% occur in a disrupted state. Pyrite-chlorite coatings occur		<u> </u>	-	4		_
	on some fractures and locally fine grained pyrite is in a few voids (53,0-54,27 m)			1			
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