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FILE NO:	\$7-8	68-16607

COMINCO LTD.

EXPLORATION

DIAMOND DRILLING

loka

MAT 112 GROUP

Fort Steele Mining Division

Matthew Creek Area

N.T.S. 82F/9E

- Assessment Report -

LATITUDE: 49° 43' N 44-'35'' OWNER OPERATOR

Cominco Ltd.

Box 2000 Kimberley, B.C. V1A 2G3

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Work performed during June, 1987

Report by:

P.W. Ransom Project Geologist

FILMED

TABLE OF CONTENTS

	Page
1.00 INTRODUCTION	1
1.10 Specific Location	1
1.20 Property Description	1
1.30 Drilling	1
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DRILLING SURFACE PLAN	з
2.00 DETAILED TECHNICAL DATA AND INTERPRETATION	4
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2.12 Results	ч 4
2.13 Interpretation	4
2.14 Conclusion	4

APPENDICES:

A Drill Log and Analytical Data
B Sullivan Mine Group of Mineral Claims
C Statement of Expenditures
D Affidavit
E Statement of Qualifications

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

DIAMOND DRILLING REPORT

MAT 112 GROUP

Fort Steele Mining Division

1.00 INTRODUCTION

1.10 Specific Location

DDH 6462, the hole being reported on, was drilled on the west side of the northeast fork of Matthew Creek. Access to the drill site is by logging roads.

1.20 Property Description

The property being investigated forms part of the Sullivan Mine claim group, owned by Cominco Ltd. Cominco has operated the mine for about 75 years. The Sullivan stratiform Ag-Pb-Zn-Fe sulphide deposit is one of the most important of its type worldwide and has contributed significantly to the mineral wealth generated in the province of British Columbia.

1.30 Drilling

One hole is being reported on. It was collared at -70° dip and was drilled to a depth of 96 meters using N wireline tools.

1.40 Claims Explored

DDH 6462 was drilled on the Mat 112 Mineral Claim.





Page 4

2.00 DETAILED TECHNICAL DATA AND INTERPRETATION

2.10 Drilling

2.11 Objective

The objective of drilling DDH 6462 was to locate stratiform Ag-Pb-Zn-Fe sulphide ore.

2.12 Results

DDH 6462 intersected siliciclastic sedimentary rocks typical of the area. Pyrrhotite was noted locally, disseminated as an accessory mineral as well as in fine fractures and seams.

2.13 Interpretation

0.0 -	6.1	m	Overburden
6.1 -	96.0 1	m	Siliciclastic sedimentary rocks, Aldridge Formation.

2.14 Conclusion

siliciclastic sediments DDH 6462 intersected of turbidite and related origin, typical of the Middle Proterozoic Aldridge Formation.

Report by:

P.W. Ransom Project Geologist Cominco Ltd.

Endorsed by:

J.M. Hamilton Manager, Exploration Western Canada Cominco Ltd.

Copies:

Mining Recorder (2 copies) Western District Sullivan Mine Kootenay Exploration

APPENDIX A

.

Diamond Drill Geological Log For D.D.H	6462 Page 1	
LAT. 20,750 N DER. 22,800 W ELEV. 5450' DIP: -70° AZIM.: 245° LENGTH: 315' HORIZ. COMP. 108 VERT. COMP. 296 DATE COLLARED: June. 27. 1987 DATE COMPLETED: June. 28. 1987	ENERAL COMMENTS: Sperry Sun Survey Depth Azimuth Dip 315' 2440 -690	
CORE STORAGE' Sullivan Mine DRILLED ON CLAIM(S) Mat 71 OBJECTIVE To testan EM geophysical anomaly.		
TERMINATION COMMENTS' Scattered fine pyrrhotite veinlets intersected explain the anomaly.		
DRILLED BY: Tonto Drilling (B.C.) Ltd. TYPE DRILL: Longyear 38 CORE SIZE: NO OFFECTIVE CONVENTS: Cond		
CASING REMAINING IN HOLE (LENGTH & SIZE): 201 HUL + Shae	LOG LEGEND	
THE AND A CENTRE NETWORK 6" Helded can	BED THICKNESS CLASSIFICATION	
OTHER MATERIAL REMAINING IN HOLE: none	Very Thick Bedded 100 cm Thick Bedded 30 cm	÷
SURVEY INSTRUMENT USED: Sperry Sun ADDITIONAL DOWN HOLE TESTS: None	BEDS Hedlum Bedded 10 cm Thin Bedded Thin Bedded Feleser Hetris	inter and the second
	LAMINAE	1

1 Foot= 0.3048 metres

Property Sullivan	District Western/Ft. S	teele M.D. Hole No. DDH6462	Hor Comp				
Commenced			Vert Comp				
Completed	COLE 2128	True Bro				ē	
Co-ordinates		Nice Dig.	Date		ġ	1	
Objective		78 NGCUV.	Date		8	8	Elev
Footage Desc	ription	- <u></u>	<u></u>	Analy	ysis		
From To							
0.0 - 20.0	Dverburden						
20.0 - 32.0	Wacke, medium to dark gr	ey, thin bedded to lamina	ted; one quartz wacke bed is				
	B. some with Bouma C and	starved ripples. The lamin	ae and many bed contacts are		1		
1	sharp and flat, noted one sh	arp wavy contact. Bedding	to core 76° 21' and 74°		<u>+</u>	t1	
	at 31'.			[f		
32.0 - 38.5	Quartz arenite (quartz wack	e?), medium grey, thick h	edded, contacts distinct to		┢──	\vdash	,
	vague, flat to wavy.				┣─	┝─┥	<u> </u>
38.5 - 58.3	Wacke 60%, quartz wacke 40%,	medium grey, wacke is medi	um and thin bedded, quartz		┢──	┠──┤	<u> </u>
	wacke is medium bedded,	bed contacts generally sh	arp or distinct (rare vague)		┢──	┝──┤	<u> </u>
	and flat to, for a few, w	avy. Disaggregated argil aminae over 3 or 4 cm at 55	lite/subwacke/wacke over IJ		_		j
	type of alteration to contac	t type seems to be at 50'.	Bedding to core 75° at 46'.				<u> </u>
	Cables will modium grained	and groop at start change	er to brown (biotite) and				İ
58.3 - 62.6	green at 60' and totally bro	wn at 61 to 62.6'.					Ì
67.6 - 78.0	Quartz arenite, light grev.	very thick bedded (single	bed 62.6' to 73.0'), medium	·	<u> </u>		<u> </u>
02.0 - /0.0	grained.			<u> </u>	L-		ļ
70.0.05.5	Argillito suburoko, (urako), modium oray, this and	? bedded. sany bed contacts		<u> </u>		i
/8.0 - 85.5	shredded, indicative of soft	sedimentary disturbance.	Wispy patches contain finely				
	disseminated pyrrhotite.						
85.5 - 102.0	Wacke, subwacke/argillite w	ith rare quartz wacke/qu	artz arenite, medium grey,				
	thin (rere medium) beds, cal	careous laminations 96.5 -	97.5, bed contacts generally		Γ		
	sharp and flat. Pyrrhotite	is rare but present as 1 Chlorite flecks to 2 ==	and biotite to 0.5 mm noted		—		<u> </u>
	in argillite. Bedding to co	re 69° at 98'.		[<u>†</u>		
L		<u> </u>			L	<u>ل</u> ــــــــــــــــــــــــــــــــــــ	-
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lot						6-6		1 1				
	Property Sul	livan	District	Hole No	DDH6462							
	Commenced		Location	Tests at		Hor. Comp.						
	Completed		Core Size	Corr. Di	p	Vert. Comp.		1				
	Co-ordinates			True Br	<u>].</u>	Logged by		1 1		ā		
	Objective			% Reco	v.	Date		١ <u>۽</u>	ġ	llar	2	
	Objective	· · · · · · · · · · · · · · · · · · ·						10	<u>ج</u> ـا	<u>8</u> i		<u> </u>
	Footage	Description						Analy	818			
	From To 102.0 ~ 108.	5 Quertz arenit vague.	e (quartz wacke), light	to medi	um grøy. vøry	thick beds,	contacts					
	108.5 - 129.	.0 Wacke, subwac after 117' (s	cke/argillite, (quartz wa mainly silicification),	cke), me thin to	dium to dark gre medium bedded	y, alteration 1. contacts s	increases harp and					
		flat, many b	eds have light grey, o	alcareou tite an	s, flat paralle thin laminae and	el laminated in i fractures an	tervals, d lenses					
		up to 4 mm	thick occurs over interv	al 108.5	to 110.0'. Ala	to there is a 7	mm wide				_	
		bedding paral noted over se	lel calcite fracture wit weral cm. Bedding to co	h 30% p re 69° a	yrrhotite. Croe it 119'.	ss strata cond	uctivity				-+	-
	129.0 - 145.	5 Gabbro, proba	ably a sill, chilled up	per con	tact, fine grain	ed dark green,	central					
		portion media decreases and grained gabbs	am grained, basal contact i colour becomes a dens to in selvage at contact.	confor er gree	mable. Approac on ~ chill zone;	ching base gr : then 8 cm c	ain size f medium				-	
	145.5 - 225.	.0 Wacke, subwac contacts shar	cke/argillite, medium grø rp and flat. Hultiple	y some d composit	ark and light, t ion beds throug	thin and medium phout that may	bedded, comprise					
		one or all of	: argillite top, slightl	y graded	wacke/subwacke	that is not la	minated,					
)	and dark grey	y extremely finely lamina	ted (fla	t parallel) wack	(e. The latter	lithotype			$\left - \right $	-	
		is probably	a hemipelagic interturbi	dite acc	umulation. Pyrs	rhotite, usuall	y coarse			-		
·		grains up to particularly	concentrated near the	pa eee . attà di	Very fine pyrrh	notite is found	in some					-
		of the hemip	alagic type laminates. A	5	thick pyrrhotite	layer contains 1667 709 at 1	ns about			+-		-
		10% calcite at 211', 70°	at 157'. Bedding to c at 224'.	ore 700	at 145', 50° at	100. 10. at 1	0, 11-					_
}	225.0 - 241	.0 Wacke, subwa	cke/argillite with calcar rev. thin bedded to lami	eous qu nated, d	artz arenite; wa contacts sharp an	acke/subwacke/a nd flat; quart;	rgillite arenite					-
		is light gray 10% HCl), fr	y generally featureless, om 231 - 232' is intercal	very ated wit	calcareous (str th thin beds arg	rong effervese illite/subwacke	and '		\square	\bot		E

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Property Cull	ivan	District		Hola No. DDH6462				}	
Commenced		Location		Tests at	Hor. Comp.				
Completed		Core Size		Corr. Dip	Vert. Comp.				
Co-ordinates				True Brg.	Logged by			0i0	
Objective		······································		% Becov.	Date	E	ġ	art	
			· · · · · · · · · · · · · · · · · · ·			Cla		3	
Footage	Description				£.	Anal	lysis	T	-
225.0 - 241.0) is di at 235	saggregated (cle	eavage presen	at so probably tecto	onic). Bedding to core 71°		-	1-	
					and and the dark star		┢	╋	-
241.0 - 277.0) Wacke, nedium	, subwacke/argilij and thin bedd	ied, 50% of	beds internally fine	bly laminated, contacts and	-	†	+	-
{	lomina	tions are sharp a	and flat. Fyr	rhotite disseminated	d in a few very thin beds		+	+	
	OF 160 30% py	rrhotite over 4 t	to 5 millimete	ars. Bedding to core	71° at 245', 70° at 255',		1	+	-
	74º at	265', 71° at 274	4′.	-				+	
277.0 - 296.0) Wacke	and quartz wacke	a, minor subwa	acke/argillite, medium	a and thick beds; the wacks		+	+	-
	beds c	commonly contain a	ubwacke/argil	llite as disrupted t	to disaggregated tops and	. ⊢	+	+-	-
]	claste and in	. Contacts irreg n small clusters t	Jular except 1 to 5 mm through	w thin becs. Fyrrho shout. Bedding to cor	re 70° at 286'.	• -	+	+	
					and a share to and the in-		+-	+-	-
296.0 - 315.0	Wacke,	. subwäcke/argilli grey, medium ar	tte with min nd thin bedde	for quartz wacke; w d, has sharp flat h	wacke/subwacke/argillite 18 bed contacts; quartz wacke		+	+	-
	is ver	y calcareous, med	lium to light	grey, medium and t	thick bedded with parallel		+	+-	-
1	and ri in thi	pple laminations in argillaceous to	s in upper po ops. Weak by:	prtions of beds. Cl rhotite occurrences h	below 307', one 3 mm thick		+	+	-
1	594# C	at 310'. Bedding	to core 75° a	at 299', 75° at 310'.	· · · · · · · · · · · · · · · · · · ·		+	+	-
							+	+-	-
		***** ENI	O OF HOLE AT 3	815.0 FEET *****			+		-
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1							+	+-	-
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	.				······································		t		-
Drill Hole Re	ecord			··· ···	Cominco Page 5				
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Drill Hole Re	ecord	District Location		Hole No. DDH6462 Tests at	Cominco Page 5 Hor. Comp.		1		
Drill Hole Re	ecord	District Location Core Size		Hole No. DDH6462 Tests at Corr. Dip	Hor. Comp. Vert. Comp.		<u>+</u>		
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APPENDIX B

SULLIVAN MINE GROUP OF MINERAL CLAIMS

NOVEMBER 27, 1986

		Number	of	Units
				·.
Crown-Granted M.C.				680
Held by Assessment:				
2(a) TWO POST CLAIMS				
Luke Group Rho Group Med Group Donna, Etc. Group Uke Group Mar Group Bad Group Late Group Mat Group Jackpot	· ·	75 20 15 15 11 17 36 91 268 1		549
2(b) REVERTED CROWN GRANTED MINERAL CLAIMS				
Tip 4-12 Hope 2-12 Sun 2-12 Cue 2-12 B.C., Silver Bell, Tarrant Black Hills, Yankee Girl, Wasp Fr. Blue Dragon		9 11 11 11 3 3 1		49
2(c) MINERAL CLAIMS (54) Dip 1-8 Fal 1-14 Golf 1-3 Quark 1&2 Fin 1-3 Mead 1-3 Gin 1-9 Clair 24-32 Mark 1-3		56 84 17 12 18 36 110 56 17		406
Greenhorn Mineral Lease				1

GRAND TOTAL (1 + 2 + 3)

1,685

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APPENDIX C

STATEMENT OF EXPENDITURES

DDH 6462

DIRECT COSTS

Contractor: Tonto Drilling (B.C.) Ltd. #200 - 3920 Norland Ave. Burnaby, B.C. V5G 4K7

Item

Amount

Mobilization/Demobilization				\$ 500.00
Drilling 0-315				6,772.50
Moving				845.00
Field Cost Charges				37.50
Surveys				208.00
Materials				 631.45
	Direct	Costs	=	\$ 8,994.45

INDIRECT COSTS

<u>Salaries</u>

P.W. Ransom - Geologist - supervision, core logging, report writing 8 days @ \$250/day	\$ 2,000.00
<u>Other Contractors</u> : W. Barker Contracting Ltd., Kimberley, B.C Site access/Preparation - 1 km or road plus site	
D-7 buldozer 17 hours @ \$85/hour	1,445.00
plus cat hauling	617.50
Henderson Heavy Hauling (1973) Ltd., Cranbrook, B.C. Equipment hauling (Cat/Drill)	366.00
Wright Contracting, Cranbrook, B.C Site clean-up	626.50
Transportation:	
one 4x4 cruck - o days e \$407day	320.00
Supplies: Mud - Gel	167.00
- Polymer (incl. transport)	585.90
Core boxes (incl. transport)	127.50
Сар	34.92
Indirect costs =	6,290.32
<u>Total Direct + Indirect costs</u> =	\$15,284.77

P.W. RANSOM Project Geologist

APPENDIX D

IN THE MATTER OF THE

B.C. MINERAL ACT

AND

IN THE MATTER OF A DIAMOND DRILL PROGRAMME

CARRIED OUT ON THE MAT 112 CLAIM GROUP

MATTHEW CREEK AREA

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

More Particularily N.T.S. 82F/9

AFFIDAVIT

I, P.W. Ransom, of the rural district of Wycliffe, 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 Appendix C to this my Affidavit is a true copy of expenditures incurred on a Diamond Drill programme, on the Mat 112 mineral claim group.
- 3. That the said expenditures were incurred between the 1st day of June, 1987 and the 1st day of August, 1987 for the purpose of mineral exploration on the above noted claim group.

P.W.' RANSOM PROJECT GEOLOGIST

APPENDIX E

STATEMENT OF QUALIFICATIONS

As author of this report, I, Paul W. Ransom, certify that:

I am a geologist active in minerals exploration.

I am a graduate of McGill University with a degree of Bachelor of Science.

I have been continuously engaged in mining and exploration since 1966.

I am a member of the Geological Association of Canada.

I supervised Cominco Ltd.'s Sullivan Mine area exploration drilling program in 1987.

N.W. Ranson P.W. RANSOM, G.A.C.