5331

PERCUSSION DRILLING REPORT

on the

"LOG" GROUP OF MINERAL CLAIMS

92H/15E

MISSEZULA LAKE AREA

Nicola and Similkameen Mining Divisions

LATITUDE 49°47' LONGITUDE 120°34'
N.T.S. SHEET NO. 92H/15E

BETHLEHEM COPPER CORPORATION

January 13, 1975

R. J. NETHERY, P.ENG.

Department of

Mines and Patrolaum Resources

ASSESSMENT REPORT

No.5331

AAAD

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SECTION A - SUMMARY OF WORK

Introduction

The "LOG" Group of mineral claims was acquired by staking in December 1973 and followed a large scale regional exploration program. The 1974 program was carried out between Oct. 28, 1974 and Dec. 20, 1974 and included geological mapping, sampling and percussion drilling. The mapping was completed during the last week in October and, after assessing the results, the percussion drilling was initiated on November 5, 1974 and completed on December 20, 1974. The drilling program was designed to test covered areas bordering a large gossan zone and copper geochemical highs.

Location and Access

The property is located from one to three miles west of Missezula Lake and some twenty-three (23) miles north of Princeton with the geographic co-ordinates of the centre of the claim block being 49°47' latitude and 120°34' longitude. Access to the property starts from the Merritt-Princeton highway (No. 5) at a point twenty-seven (27) miles south of Merritt. A good dirt road runs for a distance of six miles from the highway to the central portion of the property.

Topography and Physical Environment

The property is characterized by generally moderate topography with altitude ranges from 4100' to 4500' A.S.L. A north-south trending valley runs through the central portion with topographic highs located on both the eastern and western limits of the claim block. The major portion of the valley floor is presently clear of any timber as the result of a recent forest fire and logging operations. The remaining areas are covered by moderate stands of lodgepole pine.

General Geology

The property is mainly underlain by Nicola volcanics and sediments of Upper Triassic age. Drilling has revealed that a portion of the claims near the east central side are underlain by an intermediate acid plug. Known outcroppings of Jurassic coast intrusives occur near the south-west border of the claim block. Glacial drift covers the lowland areas and Tertiary flows apparently overlie much of the Nicola rocks in the valley.

Percussion Drilling

Josco Mining Co. Ltd. of Kamloops was the drilling contractor employed on the property and the work was carried out utilizing an Atlas Copco Model BBE-57-01 truck-mounted percussion unit. The drilling program was carried out in three stages; Nov. 5-14, Nov. 28-Dec. 4 and Dec. 9-20. A total of ten holes were drilled with the final footage total being 2955'. The following table outlines the details of the holes:-

Hole No.	Dip	Elevation (approx.)	<u>Overburden</u>	<u>Sample</u> Interval	Total Depth
PC-74-1 PC-74-2 PC-74-3 PC-74-3A PC-74-5 PC-74-6 PC-74-7 PC-74-8 PC-74-9	-90° -90° -90° -90° -90° -90° -90° -90°	4150 4150 4150 4200 4250 4150 4250 4150 4300	80 60 100 12 90 90 60 10 50	270 300 	350 360 100 300 90 350 350 400 255 400
10 Holes			562	2393	2955

Initially holes PC-74-1 and PC-74-2 were only drilled to a depth of 200' but were deepened in order to obtain additional geological information. All holes were sited on existing access roads and thus, there was no road construction required. The drill hole locations are illustrated on both Figures 2 and 5.

Summary of Costs

Total costs incurred during this program were \$13,871.93 of which 68.1% or \$9,441.93 represents expenditures for contractor's services and 31.9% or \$4,430.00 represents expenditures directly within the Bethlehem organization. The average cost per foot of drilling was \$4.69. Although the work was not finished until Dec. 20, 1974, the value of work completed on or before the Dec. 18th anniversary date of the mineral claims was at least \$12,800.00 or the total of 64 claim years as set out in the three affidavits filed on Dec. 18, 1974.

Respectfully submitted,

R. J. Nethery, P.Eng. Project Geologist Bethlehem Copper Corp. Ltd. 2100 - 1055 West Hastings St. Vancouver 1, B.C.

Dear Sirs:

Attention: Mr. Robin Anderson.

Following is a statement of our account for percussion drilling on the LOG

Claim Group near Missezula Lake, during the period Nov. 5-14, 1974:

02.00	•	•		•	_ •		
Hble	No.	Bedrock Depth	Feet Cased	Total Footag	ge Drilled		
LOG	1 2 3 3A 6 5 4	70 ft. 60 " No B.R. 10 ft 60 " 80 " No B.R. Re-drilled from 200 to	80 ft. 60 " 60 " 13 " 70 " 85 " 90 " 5 350 ft.	90 1	: !		
	D:	rilling Charges	1740 ft. @	\$ 2.85 per ft.	••••	\$ 1	1959.00
	M	Nov. 5 - Move from L Lowbed Ch Labor Cha	zation Charges ornex to Missez arges		126.00 126.00		• •
		Nov.lh - Nove Missez Lowbed Ch Labor cha	ula to Kamloops narges arges 8 man 1		128.18 56.00		,
-		Total Mor	ving Charges		\$1,36.18	\$	436.18
•		3 hrs.	le #LOG l t. of casing rs. @ \$7.00 per equip. rental @ Total Plus 10% l Re-Drilling C	\$15.00	\$ 42.00 \$ 45.00 \$ 87.00 8.70 \$ 95.70	\$	95.70
		Tota	1 Amount Due			. \$	5490.88

Yours very truly,

John W. Scott, Joseo Mining Co. Ltd. ot poby90.88 5490.88

Dec. 28, 1974.

Bethlehem Copper Corp. Ltd. 2100 - 1055 West Hastings St. Vancouver 1, B.C.

Dear Sirs:	Attention: Mr. Robin Anderson.	•
Following is	a statement of our account for percussion drilling	on the
LOG Claim Group, dur	ing the periods Mar Nov. 28 - Dec. 2 and Dec. 9-20, 197	4:

TOO OTOT	in orothy auting one	,		
Hole No.	Bedrock Depth	Feet Cased	Total Footage Drilled	
LOG 7 LOG 8 LOG 9 LOG 2	10 ft. 50 " 10 " (Re-drilled f	20 ft. 60 " 20 " rom 200 to 360)	400 ft. 255 " 400 " 160 "	
	Total		<u>1215 ft.</u>	
	Drilling Charges	1215 f	t. @ \$ 2.85 per ft \$	3462.75
)	Labor Cha Total Charges Re-drilling Re-driving 60 ft 6 man hr 3 hrs. e	arges per attach rges-16 hrs. @ \$ Mobilization Ch	hr\$ 42.00 @ \$15.00. \$ 45.00 \$ 87.00	\$ 292.60 \$ 95.70
· ·	Water Truck Charge Dec.11	····· ģ shift		
	Total	\dots $2\frac{1}{2}$ shifts (\$ 40.00 per shift \$	100.00
	•	Total Amount	Due	3951.05
		•		

Yours John W. Scott,

Joseo Mining Co. Ltd.

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SECTION B - STATEMENT OF EXPENDITURES (Oct. 28 to Dec. 20, 1974)

- 1. Contractors (see accompanying invoices)
 - (a) Josco Mining Co. Ltd.

- Percussion drilling contractor
Nov. 5-14, 1974 - \$5490.88
Nov. 28-Dec. 2, 1974)
Dec. 9-Dec. 20, 1974)

\$9441.93

\$9441.93

- 2. Bethlehem Expenditures
 - (a) Personnel

@ \$95.00/day = \$1425.00

J. G. Collins - Field Supervisor (5 days)- field mapping and drill site layouts Oct. 28-Nov. 1 (5 days) - drill supervision Nov. 4-8 (5 days)-Nov. 10, 12-15 (3 days) - drill hole layouts and supervision Nov. 25, 28, 29 11 (3 days)-Dec. 2, 3, 6 (5 days) - drill supervision Dec. 9-13 (5 days)-Dec. 16-20

31 days

@ \$65.00/day = \$2015.00

E. Andersen - Property Agent
a total of 4 days during the
above-noted period @ 75.00/day
= \$ 300.00

- data compilation and report preparation

(b) Vehicle

R. J. Nethery	- 1 Ford F-100 4 x 4 Pick-u 15 days @ \$15.00/day -	\$225.00	
J. G. Collins	- 1 Ford F-100 4 x 4 Pick-u 31 days @ \$15.00/day -	465.00	
		\$690.00	\$ 690.00
TOTAL EXPENDITURE		-	\$13871.93
TOTAL CLAIM YEARS		-	69
AVERAGE COST PER F	FOOT OF DRILLING	-	\$4.69

SECTION C - SCHEDULE OF MINERAL CLAIMS

MINERAL CLAIMS

Property: COPPER BELT SOUTH - Missezula Lake Project

Mining Division: Nicola

Name of Claim	Record Number	Metal Tag Number	Date Recorded	Expiry Date
700 1	59642 R	454601M	Dec. 18, 1973	Dec. 18, 1975
LOG-1 LOG-3	59644 R	454603M	**	11 °
٠	59646 R	454605M	11	**
LOG-5	59648 R	454607M	‡1	11
LOG-9	59650 R	454609M	rt	11
LOG-11	59652 R	454611M	11	11
LOG-13	59654 R	454613M	11	**
LOG-15	59656 R	454615M	##	11
10G-19	59658 R	454619M	11	••
LOG-20	59659 R	454620M	•	"
LOG-21	59660 R	454621M	11	"
LOG-22	59661 R	454622M	!!	"
LOG-23	59662 R	454623M	ti 🕶	
LOG-24	59663 R	454624M	ŧt	**
LOG-25	59664 R	454625M	tt .	** \$1
LOG-26	59665 R	454626M	**	
LOG-27	59666 R	454627M	11	11
LOG-28	59667 R	.454628M	11	11 11
LOG-29	59668 R	454629M	11	. 91
LOG-30	59669 R	454630M	"	

MINERAL CLAIMS

COPPER BELT SOUTH - Property: Missezula Lake Project

Mining Division: Nicola

Name of Claim	Record Number	Metal Tag Number	Date Recorded	Expiry Date
LOG-31	59670 R	454631M	December 18, 1973	December 18, 1975
LOG-32	59671 R	454632M	11	11
LOG-33	59672 R	454633M	11	Ħ
LOG-34	59673 R	454634M	11	H
LOG-37	59674 R	454637M	1 1	, u
LOG-38	59675 R	454638M	. 11	· n
LOG-39	59676 R	454639M	ti	11
LOG-40	59677 R	454640M	>1	; *†
LOG-41	59678 R	454641M	Ħ	14
LOG-42	59679 R	454642M	11	+1
LOG-43	59680 R	454643M	E1	. ##
LOG-44	59681 R	454644M	H .	1t
LOG-49	59682 R	454649M	ŦS	· · · · · · · · · · · · · · · · · · ·
LOG-50	59683 R	454650ฬ	11	††
LOG-51	59684 R	454651M	11	
LOG-52	59685 R	454652M	11	11
LOG-53	59686 R	454653M	11	11
LO G-54	59687 R	454654M	ts	ď
LOG-55	59688 R	454655M	11	**
LOG-56	59689 R	454656M		11 .
LOG-57	59690 R	454657M	н	**
LOG-58	59691 R	454658M	16	1#
LOG-59	-59692 R	454659M	H	11
LOG-60	59693 R	454660M	lf .	11
LOG-61	59694 R	454661M	fi .	
LOG-62	59695.R	454662M	tf .	11
LOG-63	59696 R	454663M	11	**

MINERAL CLAIMS

COPPER BELT SOUTH - Property: Missezula Lake Project

Mining Division: Nicola

Name of Claim	Record Number	Metal Tag Number	Date Recorded	Expiry Date
LOG-64	59697 R	454664M	December 18, 1973	December 18, 197
LOG-65	59698 R	454665M	**	1†
LOG-66	59699 R	454666M	11	· tt
LOG-67	59700 R	454667M		ff f
LOG-68	59701 R	454668M	3 ¢	11
LOG-69	59702 R	454669M	11	**
LOG-70	59703 R	454670M	11	ur.
LOG-70	59704 R	454671M	Ħ	14
LOG-71 LOG-72	59705 R	454672M	u .	11

MINERAL CLAIMS

COPPER BELT SOUTH -

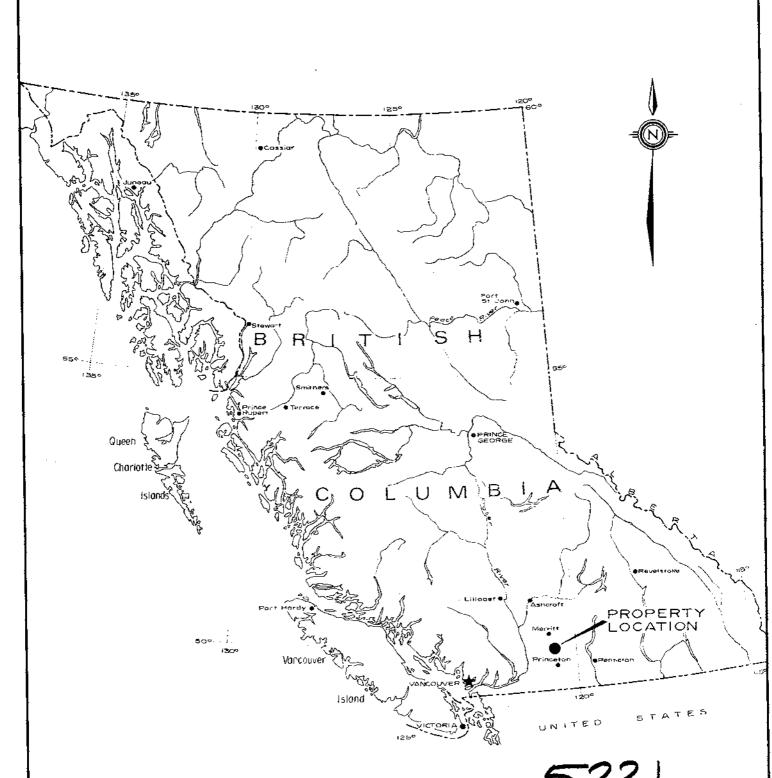
Property: Missezula Lake Project

Mining Division: Similkameen

Name of Claim	Record Number	Metal Tag Number	Date Recorded	Expiry Date
LOG-17	41038 R	454617M	December 18, 1973	December 18,1975
LOG-18	41039 R	454618M	Ħ	11
LOG-35	41040 R	454635M	15	n
LOG-36	41041 R	454636M	tf	11
LOG-45	41042 R	454645M	*1	**
LOG-46	41043 R	454646M	n '	19
LOG-47	41044 R	454647M	**	**
LOG-48	41045 R	454648M	н	£ £

SECTION D - LIST OF ILLUSTRATIONS

DESCRIPTION	FIGURE NO.
# B.C. LOCATION PLAN	1
#2 PHOTO LOCATION PLAN showing mineral claims and percussion drill holes - Scale 1" = 1320' approx.	2
#3 PROPERTY LOCATION PLAN N.T.S. 92H/15 - Scale 1:50,000	3
#4 MINERAL CLAIM PLAN - Scale 1" = ½ mile	4
#5 DRILL HOLE PLAN	5



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COPPER BELT PROJECT
(MISSEZULA LAKE)
"LOG" GROUP
LOCATION PLAN

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