5824

DIAMOND DRILLING and CONTROL SURVEY REPORT

on the

LOG #1-4 Mineral Claims

MISSEZULA LAKE AREA

NICOLA MINING DIVISION

LATITUDE 49° 47' N LONGITUDE 120° 33.5' W

N.T.S. No. 92 H/15E

BETHLEHEM COPPER CORPORATION Suite 2100 - Guinness Tower 1055 West Hastings Street Vancouver, B.C. V6E 2H8

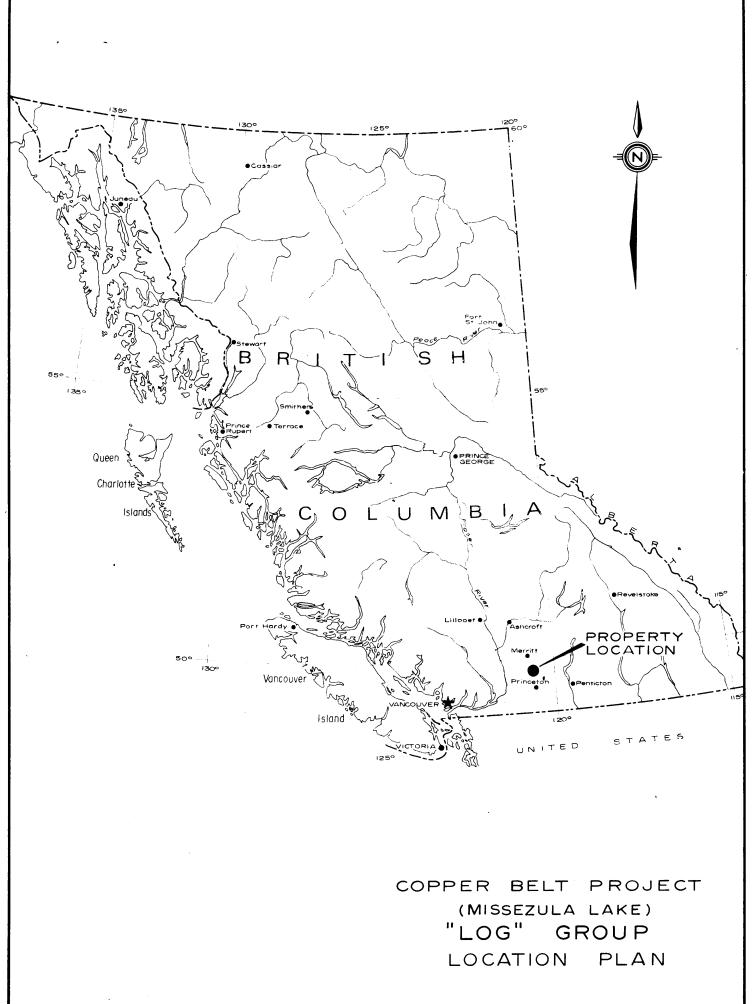
FEBRUARY 27, 1976

R. E. Anderson, P.Eng.

Department of Mines and Hatral
Mines and Petroleum Resources ASSESSMENT REPORT
NO. 5824 MAP X

TABLE OF CONTENTS

SECTION A SUMMARY OF WORK -Introduction Adda to and Access # 1 12011 Topography and Physical Environment 1111 Rotary Drilling Diamond Drilling Control Survey Summary of Costs STATEMENT OF EXPENDITURES SECTION B Contractor's Costs Bethlehem Costs Invoices SECTION C STATEMENT OF EMPLOYEE QUALIFICATIONS S.H.M. Marr SECTION D CONTROL SURVEY DATA - Correspondence from D. G. Whyte - Survey Plan (Reduced Copy) - Drill Hole Co-ordinates DRILL HOLE LOG SECTION E _ L-75-4 SECTION F ILLUSTRATIONS -Description Drawing No. Scale # 🖉 75-1A General Location Plan 1:50,000 - - 75-2A Mineral Claim Plan 1:10,000 - 75-3A Geological Plan 1:10,000 - 75-4A Drill Hole Plan 1:1,250



ALTAIR drafting services Itd.

. .

SECTION A - SUMMARY OF WORK

Introduction -

The "LOG" Group of mineral claims was acquired by staking during December 1973 and its acquisition resulted from a large scale regional exploration program that was carried out in the Merritt-Princeton area during 1970, 1971 and 1972. Work carried out on the property during October to December 1974 consisted of geological mapping, sampling and the drilling of ten percussion holes totalling 900 metres (2955'). This program was detailed in the "Percussion Drilling Report on the LOG Claims" by R. J. Nethery, P.Eng. which was submitted as an assessment report in January 1975.

Further work in the form of diamond drilling was carried out during the period from June 16 to July 19, 1975 and this program was set out in the "DIAMOND DRILLING REPORT on the LOG 54, 63 and 64 Mineral Claims" by R. E. Anderson, P.Eng. Due to drilling problems encountered because of badly faulted ground it was decided to employ a large diameter rotary drill in an attempt to penetrate this difficult horizon prior to utilizing the diamond drill at depth.

Location and Access

The LOG claim group is situated over a low north-south trending valley some 3 Km. west of Missezula Lake at geographic ∞ -ordinates 49° 47' latitude and 120° 33.5' longitude. The nearest centres of population are 36 Km. to the south at Princeton and 38 Km. to the NNW at Merritt. Access to the property is obtained by a 9.5 Km. gravel road which runs southeasterly from a point on Highway #5 some 43 Km. south of Merritt. (See Drawing No. 75-1A0)

Topography and Physical Environment

The area is characterized by generally moderate topography with altitude ranges from 1250 metres to 1370 metres A.S.L. The central portion of the claim block is in the bottom of a low wide north-south trending valley with the eastern and western limits of the property situated on higher ridges. A major portion of the valley floor is clear of any timber cover due to recent logging operations and a forest fire. The remaining area is covered by moderate stands of lodgepole pine and to a lesser extent groves of aspen.

Two small lakes and numerous small sloughs are situated in the area. The two lakes do not have any official designation although the one located to the immediate south and west of the drill area has been referred to as Duke Lake.

Rotary Drilling

The rotary drilling was performed by A & H Construction Ltd. utilizing a Koehring Speedstar Model SS-15 air rotary drill with tophead drive and 5 5/8" bit.

Hole No. L-75-4 was located 60 metres south of Hole Nos. L-75-1 and L-75-3 and was started on August 5, 1975. Overburden was encountered to only 3.05 metres and the drilling proceeded to 218.24 metres when excessive water and caving ground forced a cessation to the hole on August 10, 1975. The rotary drill was then moved from the collar and a diamond drill was set up in an attempt to core the hole deeper.

Samples from the drill cuttings were taken on ten foot intervals and sent to Bethlehem's Highland Valley laboratory for assay. The cuttings were also logged by S. H. M. Marr using a Nikon binocular microscope and a copy of the detailed geologic log is appended in Section E.

- 2 -

Diamond Drilling

An E. J. Longyear Model 44 diamond drilling unit owned by Shepherd Enterprises Ltd. was employed in the effort to extend the hole. Unfortunately, the rock conditions did not allow any further penetration and the hole was abandoned on August 15, 1975 after the loss of a substantial amount of casing as well as the casing shoe, an NQ bit and an NQ shell. The location of the hole is shown on Drawing Nos. 75-2A, 75-3A and 75-4A which are appended in Section F.

Control Survey

A control survey tieing in all the percussion and diamond drill holes and relating them to a newly established co-ordinate grid was carried out in November 1975 by McWilliam Whyte Goble and Associates of Kamloops. Details of the work performed is set out in Section D.

Summary of Costs

The total expenditures incurred were \$17,246.05, the details of which are set out in Section B. The expenditures for the services of contractors totalled \$14,706.05 or 85.27% of the gross outlay while costs generated within the Bethlehem organization totalled \$2,540.00 or 14.73%. The overall average drilling cost was \$79.02/metre or \$24.09/foot. This cost, while being higher than normal, reflects the drilling difficulties that were encountered.

Respectfully submitted,

Hiderson

R. E. Anderson, P.Eng. Exploration Manager

SECTION B - STATEMENT OF EXPENDITURES

CONTRACTORS (see accompanying invoices)

1. Tri-Valley Construction Ltd. - bulldozer used
for site preparation and moving drill unit
(Aug. 5-22, 1975)
D-5 Caterpillar - 16 hours @ \$30.00 = \$480.00
Lowbed transport - 10 hours @ \$30.00 = 300.00

TOTAL \$780.00

2. A & H Construction Ltd. - rotary drilling (Aug. 5-12, 1975)

Drilling (716') Materials Mobilization	\$7,240.00 40.00
TOTAL	<u>950.00</u> \$8,230.00

 Shepherd Enterprises Ltd. - diamond drilling (Aug. 12-15, 1975)

Drilling Materials	\$1,481.70 2,219.08
Mud	85.40
TOTAL	\$3,786.18

 McWilliam, Whyte, Goble and Associates - survey contractor (Nov. 17-24, 1975)

TOTAL \$1,740.00

5. Altair Drafting Services Ltd. - preparation of report drawings

Drafting - $14\frac{1}{2}$ hours @ \$10.00 Printing - 213 sq. ft.	=	\$145.00 25.05
TOTAL		\$170.05

TOTAL CONTRACTORS' EXPENDITURES

\$14,706.05

BETHLEHEM EXPENDITURES

1. Personnel

~

R. E. Anderson, P.Eng Exploration Manag - a total of 3 days during the period August 5 to 22, 1975 3 days @ \$140.00		\$420.00
E. Andersen - Property Agent - a total of 6 days during the periods August 5-22 and Nov. 17-24, 1975 6 days @ \$75.00		\$450.00
S.H.M. Marr - Geologist - a total of 10 days during the period August 5-15, 1975 10 days @ \$60.00		\$600.00
J. G. Collins - Field Supervisor - a total of 10 days during the period August 5-16, 1975 10 days @ \$65.00		\$650.00
N. Shaw - Secretary - a total of 2 days during the period January 23-26, 1976 2 days @ \$35.00	Ξ	\$ 70.00

TOTAL

• •

\$2,190.00

2. Transportation	
S.H.M. Marr - 1 Toyota Sedan 10 days @ \$15.00/day - \$150.00	
J. G. Collins - 1 Ford $F-250$ 4 x 4 Pickup	
10 days (200.00/day) - 200.00	
TOTAL \$350.00	
TOTAL BETHLEHEM EXPENDITURES - \$2,540.00	
TOTAL EXPENDITURES -	\$17,246.05

-

.

-3-

~

.

PHONES: T. G. Stout 295-3944

The Valley Construction Ltd.

0 W. Wilkinson 295-6186

0 L. Mckenzie

295-6270

PRINCETON, B.C.

Bulldozing & Craning

P. O. BOX 808

REA. HAE

Sept. 12, 1975.

Bethlehem Copper Ltd., c/o John Collins, Ashcroft, B. C. .

5 12

22

5 12

22

STATEMENT

Re. Drill site at Aspen Grove.

D5 Cat.

...

Lowbed

Aug. = Bethlehow H. Aug. 50% Bettlehan 50% Shepherd

8 hrs. 11 8 = 8 24 hrs. @\$ 30.00 -- \$ 720.00 5 hrs. @\$ 55 u 81 150.00 15 hrs. @ \$ 30.00

\$/\$70.00 TOTAL

B ethlehan

Shephend

Sotal

\$ 80.00 \$390.00

170.00

Charge auch #3.

450





A & HI Construction Ltd. TELEPHONE (604) 853-2513

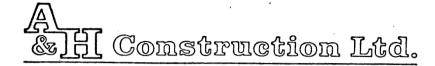
"Specializing in Water Wells, Soil Sampling, Exploration"

1681 SALTON RD., P.O. BOX 38, ABBOTSFORD, B.C. V2S 4N7

INVOICE No 295

TO Bethlehem Copper Corporation Ltd., Hole No. Log 75-4. LOG OF WELL Suite 2100, Guinness Tower, 1055 W. Hastings, Vancouver, B.C. ADDRESS WELL DRILLED AT _____ Missezula Lake. 201 Casing. WELL COMPLETED August 12/75 INVOICE DATE August 13/75. 696 Feet of Drilling at \$10.00 per Foot 20 Feet of Drilling & Casing at \$14.00 per Foot 280.00 _____ Feet of _____ Casing at _____ per Foot _____ Feet of _____Casing at _____ per Foot _____ Feet of _____ Casing at _____ per Foot 40.00 1 Drive Shoes at \$40.00 each 146' App. 60 G.P.M. ----- Feet of _____ Screen water Installation of Screen Pump Testing_____ Hours at _____ per Hour Surging and Baling ______ Hours at _____ per Hour Other Charges: 950.00 Moving on Site and Setting Up Blasting _____ 944-003 Other _____ 110-002 ____ Room and Board Travelling and Tolls_____ TOTAL INVOICE PRICE Notations 41 fr Pinxorde 003-944 Bed rock. 716 Ath Nbandonment Hole Caving. - Account due on presentation of this invoice. -

Interest at 1%% per Month (18% per Annum) on all accounts overdue 30 days.



1681 SALTON RD., P.O. BOX 38, ABBOTSFORD, B.C. (604) 853-2513 V2S 4N7

DAILY REPORT

August 6/75.	Drilling "	rate "	from "			148ft. 184ft.	Approimately "		r = 52ft. 15 min. =	
August 7/75.	Drilling " Change of	**	11	342ft.	to	384ft.	Approximately "	l hr.	15 min. 50 min.	
August 8/75.	Drilling	rate	from	384ft	to	500ft	Approximately	l hr.	30 min.	=20ft.
August 9/75. Day shift.	No caveir Drilling "			500ft.	to		back down hole Approximately	3hrs.	45 min.	=20ft. =20ft.
August 9/75 Night shift.		ne 576 r of m	oft to ater:	580ft			" foamy approxima		45 min. <u>1</u> tubs	=20ft
August 10/75 Day shift.	Drilling Very soft	rate ; for vater	from a tr:	600ft.	to		ri-cone. approximately owing hole clear		-	=20ft.
August 10/75 night shift.	Lost grou at 710ft	nd at still	; 716; . geti	ft., ba ting lo	ck t ts c	to 710ft.	amples and blow After blowing he Cannot get past	le for	r 5 hrs	

End of hole 716 feet.

"Specializing in Water Wells, Soil Sampling, Exploration"

HGE AUG 29 1975 REA-

SHEPHERD ENTERPRISES LTD.

804 - 470 Granville Street, Vancouver, B.C. V6C 1V5 Box 21 - 24, Station A, Kamloops, B.C. V2B 7K6

Bethlehem Copper Corporation Ltd.,

Invoice No. 0060

Suite 2100 - 1055 West Hastings Street,

Date August 28, 1975

VANCOUVER, B. C.

Period _____ August 12 - 15

Property ASPEN GROVE

FIELD COST ON HOLE #26-75-4:

August	0 Man Hours @ \$9.75 4 Drill Hours @ \$8.50	-	292.5 0 34.0 0
August	0 Man Hours @ \$9.75 0 Drill Hours @ \$8.50	-	292.50 85.00
August	D Man Hours @ \$9.75 D Drill Hours @ \$8.50	-	195.00 85.00
August	2 Man Hours @ \$9.75 5 Drill Hours @ \$8.50	-	312.00 51.00
	Plus 10%		1,347.00 <u>134.70</u>

EQUIPMENT LOST IN HOLE:

1 1 1	NW Casing Shoe NEW NQ Bit #5757 NEW NQ Shell #3188 NEW	186.75 392.60 253.73
44	10' NW Casing New Price \$63.00	ea
	0 50% = \$31.50 ea	1,386.00

MUD

14 Bags @ \$6.10 ea

PER: E. Tessmer, General Manager

Engineering Approval.

Date

TOTAL INVOICE:

1,481.70

2,219.08

85.40

\$3,786.18

204 • 153 SEYMOUR STREET KAMLOOPS, BRITISH COLUMBIA

÷

INVOICE

NOV 27 1975

TELEPHONE: 372-8835

NOVEMBER 25th, 197 5

McWilliam, Whyte, Goble & Associates BRITISH COLUMBIA LAND SURVEYORS

BRITISH COLUMBIA LAND SURVEYORS KAMLOOPS -- PRINCE GEORGE -- SMITHERS

BETHLEHEM COPPER CORPORATION

1055 WEST HASTINGS STREET

VANCOUVER, BRITISH COLUMBIA

A service charge of 1%% (\$1.00 min.) per month, 18% per annum, will be charged on statement balances carried forward from previous month.

3-84/5

1

OUR JOB # 75-357

YOUR FILE # ATTN: MR. E. ANDERSEN, PROPERTY AGENT

RE: MISSEZULA LAKE PROJECT DRILL HOLE SURVEY,

FEES:			\$.	990.00
FIELD WAGES:				576.00
HEWLETT PACKARD ELECTRONIC)			
DISTANCE METER 2 days)			100.00
TRANSPORTATION	•			60. 00
OFFICE WAGES & PRINTING				14.00
		TOTAL	\$1	.740.00

		ALTAIR DRAFTING SERVICES LTD. No. 5 - 821 WEDT PENDER STREET VANCOUVER 1, B.C.		Jan)5159	
,	SOLD TO	Bethletim Copper Corporation	CUSTOMER SALESMAN TERMS			
	SHIPPED TO	VIA	F. O. B.		1	
NVOICE		Gon the services of a diaptoman C Betflehem H.O:				
NI N		Dec 1 - Dec 5 incl.				
		32 1/2 man has. 2 # 10.00 per hr			# 325	00
			76	TAL	\$ 375	00

			Ξ	IME SHEET		
			altair	drafting servic	ces Itd.	
		DRAFTSM	IAN <u>M. Kus</u> a	VEZOV DATE DE	<u>sc. 1</u> to <u>Dec. 5</u>	
	DATE	COMPANY NAME	PROJECT	DESCRIPTION	SCAL	.E
•	ΣOZ	BETHLEHEM COPPER	DRILL HOLE OVERLAY	108		(
	ZOZDAY	CORPORATION	ALASKA GOLD RANGE	30		
2 2	4DQMRC 4	11 (MISSEZULA LAKE	.3		
			MISSEZULA			
	WEDZESDAY		LAKE MALLIE MINE	,3		
	T.	(MISSEZULA	3		$\overline{\langle}$
	IDRSDAY		LAKE MAGGIE BEAK	9 - TWIT 19		
		· · · · · · · · · · · · · · · · · · ·	SIERRA MADRIE	24		
	FR-D	11	MAGGIF	9		
	Ŷ		MINB			
		TOTAL O	VERTIME HOURS		TOTAL HOURS	2

•

		ALTAIR DRAFTING SERVICES LTD. No. 5 821 WEST PENDER STREET	OUR NUMBER	(0515	03)
		VANCOUVER 1, B.C.	DATE	De	c. 8/	175	
	SOLD TO	bettlehem Copper Corporation	CUSTOME	ER'S ORDER	3-88	57	
			- TERMS		\square		
	SHIPPED TO	VIA	- F. O. B.		1		ļ
)
DICE	4	Orig 213 sp. pt D fot pu pt			#21	30	 ~
INVOICE			12%	Fil Top	23	56 86	.×
_			5%1	Por Tox	× .5	19	ķ
					\$25	05	1
						<u> </u>	
			Tor	11	\$ 95	05	,
		L	,	Y C.	REDIFORM	1)^

SECTION C - STATEMENT OF IMPLOYEE QUALIFICATIONS

SANDRA H. M. MARR Mrs. Sandra Marr graduated in 1968 from the University of St. Andrews, Scotland with a B.Sc.(Hons.) degree in Geology. She was employed from November 1969 to March 1970 as a Research Assistant to Professor A. C. Turnock at the University of Manitoba; from April 1970 to November 1971 as a Geological Technician for Anaconda American Brass in Noranda, Quebec and from June 1972 to April 1973 as a Geological Technician with Dundee-Palliser Resources in Calgary, Alberta. Mrs. Marr joined the exploration staff of Bethlehem Copper Corporation in May 1973 and has been primarily responsible for conducting research into geological projects in both the metal and coal industries as well as maintaining the company's geological library. She has also assisted on some of Bethlehem's drilling projects.

Mrs. Marr has carried out her assignments in a competent and professional manner.

R. E. Anderson, P.Eng. Exploration Manager

A. W. McWILLIAM D. G. WHYTE R. J. GOBLE R. C. DOMINIK A. DANILUCK V. BARTELL P. PENMER

McWilliam, Whyte, Goble & Associates

British Columbia Land Surveyors

PHONE 372-8835 EA レ

NOV 27 1975

HGE

Į

KAMLOOPS - PRINCE GEORGE - SMITHERS

OUR FILE 75-357

SUITE 204 153 SEYMOUR STREET KAMLOOPS, B.C. V2C 2C7

November 24th, 1975

Bethlehem Copper Corporation 1055 West Hastings Vancouver, British Columbia

Dear Sirs:

RE: MISSEZULA LAKE PROJECT DRILL HOLE SURVEY OF NOVEMBER 1975,

The survey was carried out on the 17th and 18th of November 1975. The survey comprised of the location of and assigning verticle and horizontal values to ten Percussion Drill Holes and five Diamond Drill Holes in addition to the location of the L.C.P. of the Log 1-4 MC's and a tie to the N.W. corner of D.L. 4524, K.D.Y.D.

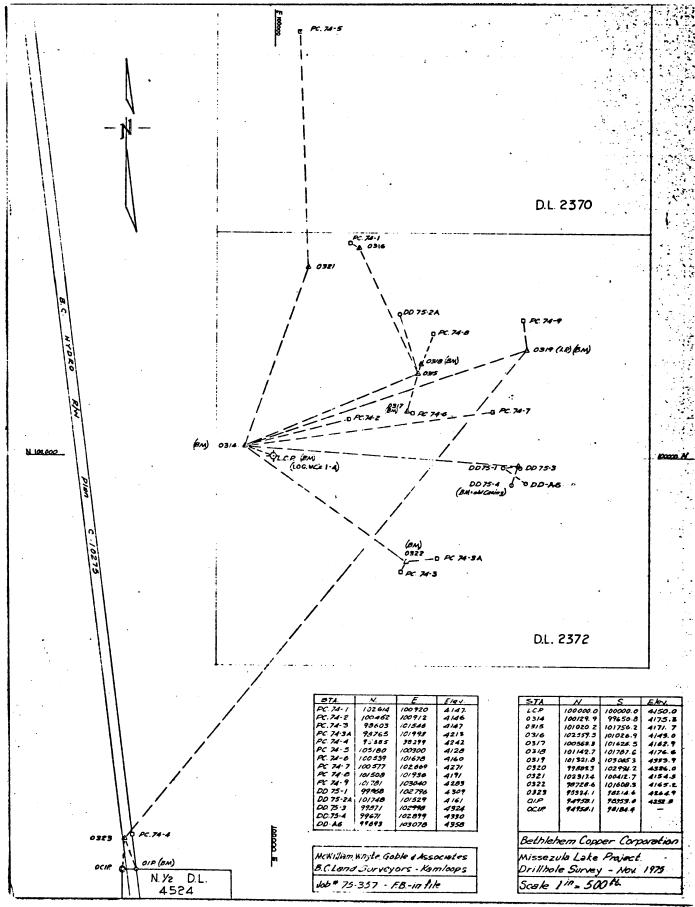
The horizontal and vertical values were obtained by using a Wild Theodolite Model T-16 and a Hewlett-Packard distance Meter Model 3800. Bearings are astronomic and were derived from B. C. Hydro Plan #C10275. Elevations are more or less Geodetic and are derived from the National Topographic Map Sheet of the area. An assumed value of 4150 feet A.S.L. was assigned to the top of the Log 1-4 L.C.P. and all other elevations shown on the plan are derived from that point.

Yours truly

MCWILLIAM, WHYTE, GOBLE & ASSOCIATES

D. G. Whyte, B.C.L.S.

DGW/nc Enclosure - 1 film sepia & 1 paper print of Drill Hole Survey Plan



.

MISSEZULA LAKE PROJECT

DIAMOND DRILL HOLE CO-ORDINATES and ELEVATIONS

Hole No.	Latitud	e (N)	Departu	re (E)	Elevat	ion*
	metres	feet	metres	feet	metres	feet
75–1	99959.8	(99868)	100852.2	(102796)	1313.4	(4309)
75–2A	100532.8	(101748)	100466.0	(101529)	1268.3	(4161)
75–3	99960.7	(99871)	100913.8	(102998)	1318.0	(4324)
75-4	99899.7	(99671)	100883.6	(102899)	1319.8	(4330)

MISSEZULA LAKE PROJECT

.

.

.

PERCUSSION DRILL HOLE CO-ORDINATES and ELEVATIONS

Hole No.	Latitu	de (N)	Departu	re (E)	Elevat	ion"
	metres	feet	metres	feet	metres	feet
PC-74-1	100796.8	(102614)	100280	(100920)	1264.0	(4147)
PC-74-2	100140.8	(100462)	100278	(100912)	1263.7	(4146)
PC-74-3	99574.1	(98603)	100471.2	(101546)	1264	(4147)
PC-74-3A	99623.6	(98765)	100607.5	(101993)	1284.1	(4213)
PC-74-4	98593.3	(95385)	99481.5	(98299)	1293.0	(4242)
PC-74-5	101578.9	(105180)	100091.4	(100300)	1258.2	(4128)
PC-74-6	100164.3	(100539)	100511.5	(101678)	1268.0	(4160)
PC-74-7	100175.9	(100577)	100813.5	(102669)	1301.8	(4271)
PC-74-8	100459.6	(101508)	100590.1	(101936)	1277.4	(4191)
PC-74-9	100542.9	(101781)	100926.6	(103040)	1305.5	(4283)

DRILL HOLE LOG BETHLEHEM	COPPER	R CORP	ORATIO	DN						SHEE	T No. 1
Property MISSEZULA LAKE Hole No. 1-75-4 B	earing _		Elevation	ר ה	4250	1	Lo	ogged b	y S.	Marr	
District Nicola Mining Division Length 716' D	i p - 90)°	Overburd	len	10'		Do	ate	Aug	just 8,	1975
	lor. Comp. –		Recovery		Perci	ussion to	716'				
Completed August 15, 1975 Departure 30-7-75) 4 (abandoned V	ert. Comp. 716	; t	Purpose		·	+		· · · · · · · · · · · · · · · · · · ·		5. Ma	
DESCRIPTION	SULPHIDES	OXIDES	OTHERS	FROM	то	SAMPLE No.	% Cu.	% Mo.	Oz Au,	Oz. Ag	RECOV
10-40 Porphyritic volcanic with fine-grained pink ground mass phenocrysts of plagioclase and chloritized mafics. Some	Weak pyrite			10	20			l i	1		
epidote. Rock darker in appearance due to increase in numbers of mafic phenocrysts.	17		·	20	30		-	-			
As 20-30. Some sericitization and quartz veins. Occasional clusters of pyrite.	17			30	40						
40-400 Greenish-grey fine-grained intrusive? Constituents predominantly plagioclase, chloritized mafics and fine grained magnetite. Some epidote and K-spar.	11			40	50		-	-			
Finer grained and more mafic than 40-50. Some epidote and some finely disseminated pyrite.	Weak pyrite Speck cpy.			50	60		-	-			
Brownish in colour and finer grained	Weak pyrite			60	70		-	-			
Some chips very mafic as 50-60; others high in magnetite.	11			70	80		_	_			
Lighter in colour with constituents more evenly distributed. Epidote stronger.	11			80	90		. .	-			
90-120 More mafic; epidote weak; occasional K-spar. Disseminated pyrite very common.	Mod. pyrite			90	100		-	_			
Pyrite less common and tends to occur in clusters.	Weak pyrite			100	110		_	-			
Epidote more widespread.	11	•		110	120		_	-			
120-200 As 110-120 but pyrite is again very common, occurring in clusters and disseminations.	Mod. pyrite			120	130		ار میں میں میں بورے	.			

•

5

.

RILL HOLE LOG BETHLEHEM opperty MISSEZULA LAKE Hole No. 1-75-4 L	ogged by S. N		Date A		3, 197	5					No . 2
DESCRIPTION	SULPHIDES	OXIDES	OTHERS	FROM	1	SAMPLE No.	% Cu.	% Mo.	Oz Au.	Oz. Ag.	% RECO
	Mod. pyrite			130	140			;			
Fault at 145' as large volume of water entering hole.	17			140	150		-	-	,		
	11			150	160		-	-			
Percentage of magnetite has increased considerably.	rt .				170		-	-			
Pyrite fairly massive in places.	11			170	180						
Some chips resemble a flow unit again - with very fine grained green to pink ground mass - small porphyritic dyke?	tt			180	190			-			
	11			190	200		-	-			
200-330 Rock darker in colour - felsics finer grained and more mafics present. Moderate to strong epidote and chlorit	e. "			200	210		_	-			
	TT			210	220			_			
More silicic in appearance; less pyrite.	Weak pyrite			220	230		-	_			
More silicic in appearance; less pyrite.	11			230	240			-			
Less silicic than 220-40.	11			240	250		•	-			
Less silicic than 220-40 and increase in pyrite.	Mod. pyrite			250	260			-			

,

.

ILL HOLE LOG BETHLEHEN		متحاذ ومنصور معرود ومعادنا فتكار وترازل إلوا وروا		<u>ON</u> August	0 10	7 E				SHEE	T No. 3
perty MISSEZULA LAKE Hole No. L-75-4 DESCRIPTION	Logged by S.	OXIDES	OTHERS	FROM		SAMPLE No.	% Cu.	% Mo.	Oz. Au.	Oz. Ag.	9 REC
Some siliceous areas.	Mod. pyrite			260	270						
	Ŧ			270	280		-	-	/		
· · · · · · · · · · · · · · · · · · ·	TT	Hematite		280	290		-	-			
	11	Occas. hematite		290	300						
More mafic.	Mođ. pyrite Speck cpy.			300	310		_				
Generally less altered - less epidote.	Mod. pyrite	Occas. hematite		310	320		-				
Generally less altered - less epidote.	11			320	330						
Chips pale green, often with dark soft mineral on their faces - chlorite? Quartz veining.	Mod. pyrite			330	340		_				
340-70 As 310-330 [342-84' - Drillers suspected] fault zone.	11			340	350						
	Mod. pyrite Specks cpy.			350	360		-				
More magnetite and much less pyrite present.	Weak pyrite Specks cpy.			360	370						
Some chips similar to 360-70; others to 310-30, i.e. with more pyrite.	Weak-mod. py Specks cpy.	•		370	380		-	•			
Chips less mafic and with less magnetite. Several pinkish flow unit type chips.	Weak-mod. py	•		380	390		-				

•

i

DRILL HOLE LOGBETHLEHEMPropertyMISSEZULA LAKEHole No.L-75-4L	ogged by S.			August	9, 197				·····	SHEET	
DESCRIPTION	SULPHIDES	OXIDES	OTHERS	FROM	то	SAMPLE No.	% Cu.	% Mo.	Oz Au.	Oz. Ag.	% RECOV
Some chips similar to 380-90 while others show increase in mafics and/or magnetite.	Weak-mod.py. Specks cpy.			390	400			i			
00- Rock with pinkish glassy groundmass containing pheno- OH crysts of plagioclase and amphibole (variably chloritized) which appear to show orientation - flow unit? Spotty epidot	Weak-mod.py. e.			400	410		-	-	1		
Chips greener in appearance due to increase in chloritization and epidotization.	Mod. pyrite			410	420		_	-			
n n n n n n .	Weak-mod. pyrite			420	430		-	-			
11 11 11 11	Weak pyrite			·430	440		-	-			
11 11 11 11	Weak-mod. pyrite			440	450		_	-			
	Weak pyrite			450	460		-	-			
17 11 11 17 11	Weak-mod. pyrite			460	470		_	-			
Chips greener in appearance due to increase in chloritiza- tion and epidotization. More chips with pinkish groundmass present.	Mod. pyrite Speck cpy.			470	480		-	_			
Sore widespread epidotization. This could be a fault zone as high percentage ground material in sample. Amphiboles less chloritized. Chips often pinkish.	Weak-mod. pyrite	¢		480	490			-			
As 480-90 plus many very mafic chips, some with heavy pyrite mineralization.	Mod. pyrite	Occasional massive specularite		490	500			_			
As 480-90 - mainly greenish. Mafics generally chloritized. Some specularite and hematite crystals.	Weak-mod. pyrite	Some specularite		500	510						
11 11 11 11 11 11 11	Weak pyrite	tr		510	520			-			

•

RILL HOLE LOG BETHLEHEM roperty MISSEZULA LAKE Hole No. L-75-4 L		R CORF		ON August	10 10	75				SHEE	T No. 5
DESCRIPTION	SULPHIDES	OXIDES	Date OTHERS	FROM		SAMPLE No.	% Cu.	% Mo.	Oz. Au.	Oz. Ag.	% RECO
As 480-90 but amphiboles less chloritized and epidotization stronger. Epidote also in thin veins.	Weak pyrite			520	530			1			
Groundmass again pinkish in colour. Epidotization strong and in thin veins. Chloritization weak to moderate.	Modstrong pyrite			530	540		_	-	/		
40% chips pinkish as 530-40; rest greenish, some being finer grained and more mafic.	Mod. pyrite Specks cpy.			540	550		-	-			
Chips all green, fine grained and mafic with chlorite throughout and some epidote. Magnetite.	Mod. pyrite			550	560		_	-			
Chips all green, fine grained and mafic with chlorite throughout and w-m epidote. Magnetite.	Weak pyrite Specks cpy.			560	570		_	_			
As above but strongly altered and bleached to pale green - very soft. (feldspars->clays). Some weak epidote.	Weak-mod. pyrite			570	580		_	_			
Some chips as 570-80. Rest less strongly altered (less bleached) and some are again like the pinkish flow unit	Weak-mod. pyrite Specks cpy.			580	590		_	_			
(also variably altered). Variably altered pinkish flow unit. Chlorite and epidote weak-strong.	T			590	600		_	_			
Chips again more strongly altered - plagioclase greenish. Chips darker in colour.	Modstrong pyrite Specks cpy.			600	610		_	-			
Chips more strongly chloritized and epidotized than 600- 610. Possible fault zone as cuttings finer than average.	Weak-mod. pyrite Specks cpy.			610	620		_	-			
Flow unit with pinkish-grey groundmass. Modstrong chlorit weak-moderate epidote. Some quartz veining. Magnetite.	Weak-mod. sporte Specks and smears cpy.			620	630		_	_			
Increase in mafics (chloritized); weak-moderate epidote.	Weak-mod. pyrite Specks cpy.			630	640		_	-			
Pink flow unit chloritized and bleached with weak-moderate epidotization. Alteration to clays in parts. Hematite.	Weak-mod.py. Cpy. in stringers			640	650		_	_			

•

.

LL HOLE LOG BETHLEHEN										SHEET	No. 6
erty MISSEZULA LAKE Hole No. 1-75-4	Logged by S. N	larr	Date	August	11, 19	375					
DESCRIPTION	SULPHIDES	OXIDES	OTHERS	FROM	то	SAMPLE No.	% Cu.	% Mo.	Oz. Au.	Oz. Ag.	REC
Strongly altered as 640-50 (in places to sericite and clays)	Gen. weak py. Specks cpy. and occas stringer	5.		650	660			i			
11 11 11 11 11 11 11 11	Weak-mod.py. Finely dissem. cpy.			660	670		_	-	'		
A few chips as above though less altered. Rest high in chloritized mafics.	Weak-mod.py. Stringer cpy.			670	680		_	-			
11 11 11 11 11 II	Mod. py. Smear cpy. and a few spec	eks.		680	690		-	-			
Strongly chloritized and epidotized pink flow unit.	Mod.' py. and a few specks cpy.			690	700		_				
17 TT 17 TT 17	Modstrong pyrite			700	710			-			
17 17 17 17 17	" Specks cpy.			710	716		-	-			
H. 716'							-	-			
							_				
							_	-			
							_				
							_				
							-	-			

,

•

•

•

SECTION F - ILLUSTRATIONS

~

•

Description	Drawing No.
General Location Plan - Scale 1:50,000	75–1A
Mineral Claim Plan with Drill Hole Locations - Scale 1:10,000	75-2A
Geological Plan with Drill Hole Locations - Scale 1:10,000	75–3A
Drill Hole Plan - Scale 1:1,250	75-4A

