

093
BETHLEHEM COPPER CORPORATION

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October 8, 1974

TO THE SYNDICATE MEMBERS

Re: Copper Belt Progress
Report No. 10

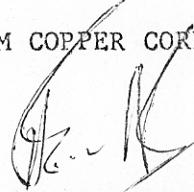
Dear Sirs:

The attached Copper Belt Progress Report summarizes exploratory investigations completed during the period November 1, 1973 to September 30, 1974, and includes our proposals and recommendations for continuing exploratory programs through 1974.

This report will be reviewed at a meeting of the Syndicate members to be held in our Company Board Room at 10:30 A.M. on October 8, 1974.

Yours very truly,

BETHLEHEM COPPER CORPORATION



HGE:nh

Per: H. G. Ewanchuk
Vice President and
Assistant to the President

AGENDA

COPPER BELT SYNDICATE - COMMITTEE MEETING

1. Meeting to commence at 10:30 A.M., October 8, 1974
2. Review of Copper Belt-Washington exploration program
by R. J. Nethery
- Syndicate participants - Bethlehem Copper
United Siscoe
Kerr Addison
3. General Discussion re: 1975 Washington program
and Resolution re: designated areas
4. Syndicate members are requested to consider the adoption
of the following resolution:-
 - A. Resolved that the following be established as a
designated exploration area effective Oct. 8, 1974

SNOHOMISH - KING COUNTY AREA - Bounded by the co-ordinates

From	48° 7'30"	Lat.	x	121°52'30"	Long.
to	48° 7'30"	Lat.	x	121°22'30"	Long.
to	47°15'	Lat.	x	121°22'30"	Long.
to	47°15'	Lat.	x	121°45'	Long.
to	47°52'30"	Lat.	x	121°45'	Long.
to	47°52'30"	Lat.	x	121°52'30"	Long.
to	48° 7'30"	Lat.	x	121°52'30"	Long.

5. Review of Copper Belt-Smithers program
- Syndicate participants - Bethlehem Copper
Numac
United Siscoe
Kerr Addison
6. General Discussion re: 1975 Program
and Resolution re: designated areas

7. Syndicate members are requested to consider the adoption of the following resolution:-

A. Resolved that the following designated exploration area be abolished effective Oct. 8, 1974

HOUSTON-SMITHERS - Bounded by the co-ordinates

From	54°00'	Lat.	x	126°44'	Long.
to	55°00'	Lat.	x	127°31'	Long.
to	55°00'	Lat.	x	127°06'	Long.
to	54°00'	Lat.	x	126°18'	Long.

8. Review of Copper Belt-South program

- Syndicate participants - Bethlehem Copper
Numac
United Siscoe
Kerr Addison

9. General Discussion re: 1975 Program
and Resolution re: designated areas

10. Syndicate Members are requested to consider the adoption of the following resolutions:-

A. Resolved that the following designated exploration area be abolished effective Oct. 8, 1974

CLEARWATER - Bounded by the co-ordinates

Northern limit	51°50'	Lat.
Southern limit	51°25'	Lat.
Eastern limit	119°45'	Long.
Western limit	120°20'	Long.

B. Resolved that the following be established as a designated exploration area effective Oct. 8, 1974

MISSEZULA LAKE - Bounded by the co-ordinates

Northern limit	49°50'	Lat.
Southern limit	49°45'	Lat.
Eastern limit	120°30'	Long.
Western limit	120°40'	Long.

11. Review of Princeton Coal Special Project
 - Syndicate participants - Bethlehem Copper
Numac
United Siscoe

12. Syndicate members participating in the Princeton Coal Special Project are requested to consider the adoption of the following resolution:-
 - A. Resolved that the sum of \$9845.00 be allocated for the purpose of applying for the renewal of Coal Licence Nos. 2019-2042 and 2222 to 2231 under the terms and conditions of the new Coal Act of British Columbia.

TABLE OF CONTENTS

SECTION A - EXPLORATION SUMMARIES and PROPOSALS

	Page
PART I - COPPER BELT WASHINGTON	
Summary	1
Introduction	1
Location and Access	2
Topography - Physical and General Features	2
History	2-3
Geology	3
Field Work	4
Results	4
Property Acquisitions	4
Proposed Exploration	5
PART II - COPPER BELT SMITHERS	
Summary	6
Percussion Drilling	6
Conclusion and Recommendations	7
PART III - COPPER BELT SOUTH - MISSEZULA LAKE PROPERTY	
Summary	8
Proposed Exploration	8
PART IV - PRINCETON COAL SPECIAL PROJECT	
Summary	9
Coal Act Revisions	9-10
Recommendations	10

SECTION B - SUMMARY OF MINERAL PROPERTY HOLDINGS

SECTION C - 1974 EXPENDITURES

- PART 1 - COPPER BELT SYNDICATE
- PART 2 - COPPER BELT WASHINGTON
- PART 3 - PRINCETON COAL SPECIAL PROJECT

SECTION D - PERCUSSION DRILL HOLE ASSAYS

SECTION E - SCHEDULE OF DRAWINGS
(Separate Binder)

<u>MAP DESCRIPTION</u>	<u>DRAWING NO.</u>
COPPER BELT PROJECT (WASHINGTON) - Location Plan 1:250,000	W-1
COPPER BELT-WASHINGTON - Geological Plan and Assay Plan - 1" = 2000' (2 sheets)	
- Silverton Quadrangle - South Half	B-8
Index Quadrangle - North Half	B-9
Index Quadrangle - South Half	B-10
Mount Si Quadrangle - North Half	B-11
Mount Si Quadrangle - South Half	B-12
Monte Cristo - Blanca Lake Quadrangle	C-9
Baring-Evergreen Mt. Quadrangle	C-10
Grotto - Skyhomish Quadrangle	C-11
Snoqualmie Lake - Big Snow Mt. Quadrangle	C-12
Snoqualmie Pass Quadrangle - North Half	C-13
COPPER BELT-SMITHERS - Index Plan 1" = 4 miles - N.T.S. Sheet Nos. 93E and L	S-2
COPPER BELT-SMITHERS - Geological Plan and Assay Plan; 1:50,000	93E/11(G) and (A)
COPPER BELT-SOUTH - Index Plan 1" = 4 miles - N.T.S. Sheet No. 92H	92H

COPPER BELT-SOUTH - MISSEZULA LAKE
PROJECT - 1:50,000

92H/15

COPPER BELT PROJECT - COAL LICENCES
1" = 2000'

D-11

PART I - COPPER BELT WASHINGTON

SUMMARY:

The Washington Copper Belt was initiated in early June with the flying of the entire proposed belt and the subsequent selection of an exploration area. The designated area (Drawing No. W-1) is centered on the Snoqualmie batholith which is Tertiary in age and well noted for its copper occurrences. Favorable access, a good geological setting, and widespread copper mineralization all contributed to the selection of the aforementioned area.

A geological reconnaissance program over portions of the designated area has been underway since June. The program employs rock geochem along with geological and alteration studies. Exploration in this mountainous region is generally restricted to the covered valley and batholith border areas. The areas covered to date are: North Fork Skykomish River, Beckler River, Williamson Creek, Sultan River, South Fork Sultan River, Elk Creek, Foss River, Proctor Creek, North Fork Tolt River, Lennox Creek, and the upper reaches of the Snoqualmie River. A group of 11 claims has been staked on the North Fork of the Skykomish River immediately south-west of Silver Creek. Another moderate copper high near Quartz Creek exhibits strong pyrite but weak alteration so the area will be further explored and sampled to determine its potential and if staking is warranted.

Introduction:

Commencing in June a geologist carried out ground reconnaissance work over the valleys which cut the western border of the Snoqualmie batholith. The aim of the project is to locate and stake favorable covered areas which are to be later tested by surface programs and percussion drilling.

Location and Access:

The Snoqualmie batholith has a north-south length of 50 miles and lies approximately 30 to 35 air miles east of Everett and Seattle, Washington. The main access to the northern part of the area is provided by Highway 2 and southern access is provided by Highway 90. A multitude of secondary roads provides further access to the majority of the western contact area.

Topography - Physical and General Features

The area covered by the batholith is extremely rugged and mountainous and ranges in elevation from 400' in some valleys, to over 6000' in the higher mountains. The mountainous regions consist of steep barren rock with only sparse forest growth on the flatter areas. In the valleys and where there is some soil development, a good forest growth of fir, spruce, cedar, and pine is common. The valleys are covered by glacial material and are therefore the main exploration targets.

History:

This region has many old mining areas well noted for their past production. The Index and Silver Creek areas (Cu-Ag-Au) have produced intermittently since the turn of the century and up into the 1940's. Other past mineral producing areas are the Sultan basin (Cu) and the Miller River region (Cu-Ag-Au-Pb-Zn).

Over the past two years there has been a considerable increase in mineral exploration in Washington State. A growing mineral demand along with a reevaluation of Washington's favorable porphyry copper province has resulted in the increased exploration activity.

Small copper occurrences are common over the entire western Washington region and now several mining companies have made significant discoveries of the large porphyry copper type.

For example, Brenmac is drilling on several pipe breccias and one crackle breccia type deposit; all are located on the upper reaches of the Sultan River near Vesper Creek (Drawing No. B-9). Tonnage proved to date is thought to be in excess of 70,000,000 tons. City Service Explorations is currently drilling on a deep porphyry copper type deposit on the upper reaches of the Middle Fork Snoqualmie near Burnboat Creek (Drawing No. C-13). Tonnage is thought to be in excess of 100,000,000 tons.

Geology:

The exploration area is centered in and around the Snoqualmie batholith which ranges in age from 38 million years in the north to 17 million years for the southern portion. The batholith has intruded Jurassic-Cretaceous sediments and Eocene volcanics on the west and north and Paleocene-Cretaceous sediments and Eocene-Oligocene volcanics on the east and south.

The batholith is elongated along the north-northwest regional structural trend. Transverse structural belt trending east-west to north-east appear to cross the batholith in several areas. These belts are characterized by an echelon shear and/or fracture systems. It appears that these east-west structures exhibit some controls over sulphide deposition in the region.

The Snoqualmie batholith, which consists mainly of acid rock, is extremely rugged and the only extensively covered areas are the well developed river valleys which generally exhibit a thin glacial cover.

Field Work:

As previously mentioned exploration was mainly restricted to the valleys as they offer the most favorable covered areas. Generally the valleys have good road access and rock geochem sampling can be carried out on one side or the other as road and bridge access affords. The region receives heavy rainfall and forest growth is extremely dense making bush travel slow and difficult.

Results:

Rock samples were taken every 1500 to 2000' and all samples were assayed for copper. The first 80 samples were also assayed for molybdenum but the values were so low as to be considered undetectable and it was decided to discontinue the moly assaying. Due to the low background copper, values above 200 ppm were considered anomalous. Assay results were plotted on 1" - 2000' overlays which correspond to the geology maps.

Property Acquisitions

The only ground staked to date has been an eleven claim group located on the North Fork Skykomish River immediately southwest of Silver Creek (Drawing No. C-9). Visible copper mineralization in quartz monzonite on one side of the valley and strong propylitic alteration on the other side warranted the staking of the valley floor. Private ground adjoining the claim group on the west requires a title search in the near future to ascertain who holds the mineral rights.

Proposed Exploration

A program of soil geochem followed by percussion drilling is planned for the claim block near Silver Creek. Also a further sampling check will be made on a rock geochem high (280 ppm) taken near the junction of Quartz Creek and Taylor River (Mount Si; Drawing No. B-12).

The reconnaissance program on this designated area will continue in 1975 as access has proved to be adequate and the geology significantly interesting.

PART II - COPPER BELT SMITHERS

SUMMARY

Work in this area has been confined to the "SUS" Group of mineral claims. As set out in Progress Report No. 9, a large soil anomaly containing values greater than 200 ppm was indicated on the original six mineral claims. Three percussion holes were drilled in October 1973 but they failed to intersect bedrock. An additional thirty-eight claims were staked in December 1973 adjoining the original block on the north and west side.

Percussion Drilling

During September 1974 4 percussion holes were drilled on the "SUS" group, 2 immediately north of the anomalous area and two in the northwest corner of the claim block. The location of these holes are shown on Drawing No. 93E/11 (A). Approximately 1.5 miles of drill road were constructed in order to provide access to the four sites. The following is a summary of the drill results:-

<u>Hole No.</u>	<u>Overburden</u> (ft.)	<u>Assay Interval</u> (ft.)	<u>Total Depth</u> (ft.)	<u>% Cu</u>
PC-SUS-74-4	20	240	260	.007
PC-SUS-74-5	60	270	330	.004
PC-SUS-74-6	100	250	350	.038
PC-SUS-74-7	50	280	330	.034

The logging of the drill holes is not complete at this time but copies of the individual assay sheets are appended in Section D.

Conclusions and Recommendations

The results obtained from hole Nos. SUS-74-6 and SUS-74-7 would have to be considered anomalous and therefore further exploration in the form of geological mapping, bedrock and soil sampling and possible percussion drilling is recommended for the northwest sector of the claim block and the adjacent ground. Following this field work, additional claims will be acquired should results warrant.

Due to the lateness of the season, this work will probably not be carried out until late spring 1975.

Assessment work credits sufficient to hold the claims until December 1975 will be filed with the Department of Mines.

PART III - COPPER BELT SOUTH
MISSEZULA LAKE PROPERTY

Summary

The Log 1-72 claims were staked in the late fall of 1973 and are located just west of Missezula (Ref Map 92H/15E). The area had been previously covered by the Copper Belt Syndicate in 1970 and rock geochem highs were found to exist to the west and north of a low lying covered area. The ground was held at that time and did not come open until 1973 when it was subsequently staked by Bethlehem Copper.

Proposed Exploration

The claim group is mainly underlain by Nicola volcanics but some acid intrusives do outcrop on the southwest border of the ground. There is road access to the property and a program of geological mapping, rock geochemical sampling and percussion drilling is scheduled to start in mid-October.

SECTION 'B'

Summary of Mineral Claims and Coal Licences
as of Oct. 1, 1974

A) COPPER BELT-SOUTH:

"DUD" Group	1 claim	ASPEN GROVE AREA
"HIP" Group	16 claims	" " "
"SNO" Group	7 claims	" " "
"SKI" Group	16 claims	" " "
"LOG" Group	72 claims	MISSEZULA LAKE AREA
<hr/>		
TOTAL	112 claims	

B) COPPER BELT-PRINCETON COAL

Licence Nos.	2019-2042	24 licences
" "	2222-2231	<u>10 licences</u>
TOTAL		34 licences

C) COPPER BELT - JOY*

TOTAL	18 claims	PRINCETON AREA
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*Note: These claims were not transferred to Joy at the termination of the Exploration Agreement. All are due to expire on Nov. 3, 1974.

D) COPPER BELT-NORTH

No mineral claims remain.

E) COPPER BELT-SMITHERS

"DAY" Group	10 claims	HOUSTON AREA
"ANNA" Group	16 claims	TAHTSA LAKE AREA
"SUS" Group	44 claims	" " "
"TX" Group	10 claims	" " "
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TOTAL	80 claims	

F) COPPER BELT-WASHINGTON

"BRYAN" Group	11 claims	GALENA AREA
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<u>G) TOTAL</u>	MINERAL CLAIMS	221
	COAL LICENCES	34

SECTION C

PART 1 -

COPPER BELT SYNDICATE

STATEMENT OF DISBURSEMENTS

1st January 1974 to 30th September 1974

	<u>Actual Cost to Aug. 31/74</u>	<u>Est. Cost to Sept. 30/74</u>
Salaries and employee benefits	\$2,976.89	\$ 4,104.23
Consultants	-	-
Contracted services	-	3,322.13
Supplies	3.54	3.54
General expense	548.63	976.59
Claims - expense	1,555.00	1,555.00
Claims - registration: disposals	(785.00)	(785.00)
Percussion drilling	-	4,067.50
Administration	4,000.00	4,500.00
	<hr/>	<hr/>
<u>TOTAL DISBURSEMENTS</u>	<u>\$8,299.06</u>	<u>\$17,743.99</u>

Disbursements Allocated

Numac Oil & Gas Ltd.	20/90	1,844.23	3,943.11
United Siscoe Mines Limited	20/90	1,844.23	3,943.11
Kerr Addison Mines Ltd.	20/90	1,844.23	3,943.11
Bethlehem Copper Corporation	30/90	2,766.37	5,914.66
		<hr/>	<hr/>
		<u>\$8,299.06</u>	<u>\$17,743.99</u>

SECTION C

PART 2 -

COPPER BELT-WASHINGTON

STATEMENT OF DISBURSEMENTS

1st January 1974 to 30th September 1974

	<u>Actual Cost to Aug. 31/74</u>	<u>Est. Cost to Sept. 30/74</u>
Salaries and employee benefits	\$5,819.06	\$ 7,562.77
Supplies	233.37	413.83
Contracted services	583.33	614.33
General expenses	1,122.29	1,502.90
Claim - expenses	-	-
Diamond Drilling	-	-
Administration	776.11	1,009.39
	<hr/>	<hr/>
<u>TOTAL DISBURSEMENTS</u>	<u>\$8,537.15</u>	<u>\$11,103.22</u>

Disbursements allocated:

United Siscoe Mines Limited	25.7/90	2,437.83	3,170.59
Kerr Addison Mines Ltd.	25.7/90	2,437.83	3,170.59
Bethlehem Copper Corporation	38.6/90	3,661.49	4,762.04
		<hr/>	<hr/>
		\$8,537.15	\$11,103.22
		<hr/>	<hr/>

BETHLEHEM COPPER CORPORATION LTD.

ASHCROFT, B. C.

Geology - Percussion Drill

Sept. 30, 1974

SAMPLE NO.	DESCRIPTION	OZS. PER TON			PER CENT				
		GOLD	SILVER	COPPER	MO.	SULPHUR			
SUS-74-5	60 - 70			.004					
	70 - 80			.004					
	80 - 90			.003					
	90 - 100			.003					
	100 - 110			.002					
	110 - 120			.003					
	120 - 130			.003					
	130 - 140			.003					
	140 - 150			.003					
	150 - 160			.002					
	160 - 170			.002					
	170 - 180			.013					
	180 - 190			.002					
	190 - 200			.002					
	200 - 210			.003					
	210 - 220			.004					
	220 - 230			.005					
	230 - 240			.005					
	240 - 250			.004					
	250 - 260			.004					
	260 - 270			.004					
	270 - 280			.007					
	280 - 290			.003					
	290 - 300			.003					
	300 - 310			.003					
	310 - 320			.003					
	320 - 330			.004					

A. Negro ASSAYER

BETHLEHEM COPPER CORPORATION LTD.

ASHCROFT, B. C.

Geology - Percussion Drill

Sept. 30, 1974

SAMPLE No.	DESCRIPTION	OZS. PER TON			PER CENT				
		GOLD	SILVER	COPPER	MO.	SULPHUR			
SUS-74-6	100 - 110			.031					
	110 - 120			.036					
	120 - 130			.038					
	130 - 140			.025					
	140 - 150			.039					
	150 - 160			.059					
	160 - 170			.065					
	170 - 180			.056					
	180 - 190			.099					
	190 - 200			.028					
	200 - 210			.032					
	210 - 220			.048					
	220 - 230			.039					
	230 - 240			.041					
	240 - 250			.023					
	250 - 260			.028					
	260 - 270			.022					
	270 - 280			.018					
	280 - 290			.023					
	290 - 300			.021					
	300 - 310			.015					
	310 - 320			.029					
	320 - 330			.088					
	330 - 340			.025					
	340 - 350			.016					

H. Ferguson ASSAYER

BETHLEHEM COPPER CORPORATION LTD.

ASHCROFT, B. C.

Geology - Percussion Drill

Sept. 30, 1974

SAMPLE No.	DESCRIPTION	OZS. PER TON			PER CENT			
		GOLD	SILVER	COPPER	MO.	SULPHUR		
SUS-74-7	50 - 60			.114				
	60 - 70			.026				
	70 - 80			.021				
	80 - 90			.013				
	90 - 100			.009				
	100 - 110			.011				
	110 - 120			.078				
	120 - 130			.025				
	130 - 140			.014				
	140 - 150			.074				
	150 - 160			.055				
	160 - 170			.057				
	170 - 180			.035				
	180 - 190			.021				
	190 - 200			.044				
	200 - 210			.039				
	210 - 220			.020				
	220 - 230			.035				
	230 - 240			.018				
	240 - 250			.023				
	250 - 260			.031				
	260 - 270			.020				
	270 - 280			.023				
	280 - 290			.038				
	290 - 300			.027				
	300 - 310			.029				
	310 - 320			.026				
	320 - 330			.024				

A. H. Hogue ASSAYER

SECTION E - DRAWINGS

All drawings are to be found in the
accompanying binder.