

**BACON & CROWHURST LTD.**

1720-1055 West Hastings Street  
Vancouver 1, B.C.

**REPORT**  
**on the**  
**COIN GROUP DRILLING PROGRAM**  
**MINTO, Y.T.**

**1974**

*TASEKO MINES  
LTD (NPL)*

*62° 37'N  
137° 05'W  
115-I-11*

by

**W.R. BACON, Ph.D., P.Eng.**

**Vancouver, B.C.**

**September 20th, 1974**

*W.M.D*

~~000949~~

*NMEAP*

*06/168*

*Oct. 28, 1974.*

September 20th, 1974.

Mr. J. Aa B. Whist,  
La Ronge Mining Ltd.,  
248 - 2nd Ave.,  
Kamloops, B.C.

Dear Mr. Whist:

Re: COIN PROGRAM, 1974

This assignment was undertaken by me at your request (paragraph 3, your letter dated July 5th). Your instructions, including 1000 feet of drilling in 3 holes from 2 set-ups, were carried out with great care and to the letter. (In addition, one of the finest core racks in the Yukon was built by W.R. Bacon.)

The geology of the property is very simple, as shown on the accompanying map. In effect, there are really only two mappable units:

- (1) Granodiorite-syenite which constitutes more than 95% of the rock on the property. This intrusive rock, on the surface and in the drill holes, is barren.
- (2) Basalt. This is the host rock and it is exposed on the eastern margin of claim COIN #3. The basalt is a dark green, porphyritic (augite) flow rock in which epidote is common. This rock is not an amphibolite or a skarn. South of D.D.H. #3, for a distance of 600', the rocks are basaltic tuffs (rather than basaltic flows) that exhibit regular fine banding. The tuffs are essentially unmineralized.

The setting of the Main Showing, where all 3 holes were drilled, is the contact zone between the intrusive and the basalt. The contact zone is a mixed zone one hundred feet wide or more. Syenite-aplite occurs in the form of numerous unmineralized sills in the basalt. The thicker sills are syenite but numerous conformable bands, a few inches or less in thickness, are also present in the volcanics of the contact zone. These narrow, pink, aplitic bands are particularly common in the basaltic tuffs south of the drilled area.

The Main Showing is in basalt that is bordered by the main syenite mass on the west and by a syenite sill 20' thick on the east. These rocks strike slightly east of north and dip steeply westward.

The only mineral of possible economic significance is bornite (extremely fine, patchy films of native copper were spotted at intervals along fractures in D.D.H. #3) which is not easy to spot in the dark volcanic outcrop. Mr. Dixon's chip samples gave me the impression of substantial widths of sub-economic, but potentially interesting copper mineralization. At the time of my initial examination, I was not aware that his samples were more parallel than transverse to the strike of the mineralized zone. I make this observation without inference because the presence of bornite in the basalt was, in itself, sufficient justification for a drilling program of 1000 feet.

In addition to the generally light nature of the bornite mineralization in the basalt, it should be emphasized that there is

no obvious structure controlling this mineralization; in other words, the mineralization is not only light but sporadic.

It is difficult to recommend drilling the basalt under the swamp to the north and east of the Main Showing. The older volcanics (basalt) are intermittently exposed along both sides of the Yukon River valley for many miles north of Minto and particularly south of Minto. Copper has been found in these rocks at a few places, including the mouth of Williams Creek, but the best of the known showings is definitely that on the COIN #3 claim - and this has been adequately tested.

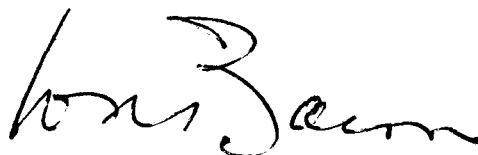
With regard to the granitic rocks (granodiorite and syenite) that outcrop in relative abundance on the majority of the COIN claims, they are practically barren on the surface. A Minto-type deposit could certainly occur at depth in these rocks, in a well-foliated horizon, without giving any indication on the surface of its presence below. The granitic rocks on properties immediately west, north and east of the Minto deposit were drilled (2000'-3000' each) on speculation this summer with negative results. A Minto-type deposit, unfortunately, leaves a very obscure trail.

I realize this report is as brief as Mr. Dixon's is lengthy. Mr. Dixon, a very experienced field engineer, covered just about everything of consequence in his report. He recommended more drilling than we did but I think that, in view of the fact we very adequately tested the Main Showing, the remainder of Mr. Dixon's drill program can be dispensed with.

I feel strongly that the COIN claims should be held in good standing and a close eye should be kept on what United Keno Hill does with the large, surrounding FED group. Incidentally, I have a good relationship with United Keno and I will be receiving the results of their geochemical survey across the COIN claims. I think we might reserve any recommendations for further work on the COIN group until such time as these results are received.

Respectfully submitted,

BACON & CROWHURST LTD.



W.R. Bacon, Ph.D, P.Eng.

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WRB/ic

# DIAMOND DRILL HOLE RECORD

COIN 1

LEVEL	BEARING	DIP	TYPE OF SURVEY	CORE SIZE	BQ	HOLE NO.
LOCATION	COLLAR	582°W	-45°	LENGTH	271'	SHEET N
ELEVATION	Hole started July 13/74			COMPLETED	Aug. 7/74	LOGGED
LATITUDE				N	PURPOSE	
DEPARTURE	E				TOTAL RECOVERY	98%+

FOOTAGE		DESCRIPTION OF ROCK TYPES	DRILL HOLE	MINERALIZATION AND STRUCTURES	ESTIMATED % OF SULPHIDES	ASSAYS												
FROM	TO					SAMPLE NO.	FROM	TO	WIDTH	% CU	% ZN	OZS. AU	OZS. AG	GR AV				
0.0	4.0	Casing																
4.0	114.0	Generally hard basalt.		No strong structure.	>0.5%	16056	4.0'	9.0'	5.0'	.69								
		1) Porphyritic - augite		Banding consistent	Tr.	7	9.0'	14.0'	5.0'	.52								
		2) Epidotized sporadically		with steep W. dip	Tr.	8	14.0'	20.0'	6.0'	.50								
		3) Soft (chloritized) in places		to the volcanics.	Tr.	9	20.0'	25.0'	5.0'	.05								
		4) Minor hematite in stringers.			Tr.	16060	25.0'	30.0'	5.0'	.02								
					Tr.	1	30.0'	34.5'	4.5'	.18								
		5) Very minor copper stain			>0.5%	2	34.5'	36.5'	2.0'	.69								
		6) Small patches of bornite		A little pyrrhotite	>0.5%	3	36.5'	41.0'	4.5'	.95								
				Eadly broken (42.5'-45.5')	>0.5%	4	41.0'	47.5'	6.5'	.93								
					Tr.	5	47.5'	51.0'	3.5'	.36								
		55'-58' Syenite				6	51.0'	55.0'	4.0'	.07								
		91.3'-95.5' "		97.0' - Sparse bornite														
				98.0' " "														
114.0	271'	Pink, porphyritic syenite, lightly foliated in places. A uniform rock, completely barren. Very badly broken below 210' with sporadic devc. of gouge.																
271'		END OF HOLE																

# DIAMOND DRILL HOLE RECORD

COIN 2 (1 of 2)

LEVEL	BEARING	DIP	TYPE OF SURVEY	CORE SIZE	BQ	HO
LOCATION	COLLAR	-90°		LENGTH	457'	SH
ELEVATION				COMPLETED	Aug. 18/74	LOC
LATITUDE	N			PURPOSE		
DEPARTURE	E		* Hole started - Aug. 3/74	TOTAL RECOVERY		

FOOTAGE		DESCRIPTION OF ROCK TYPES	DRILL HOLE	MINERALIZATION AND STRUCTURES	ESTIMATED % OF SULPHIDES	ASSAYS											
FROM	TO					SAMPLE NO.	FROM	TO	WIDTH	REC.	% CU	% ZN	OZS. AU	OZS. AG			
0.0	8.0	Talus; boulders															
8.0	42.5	Porphyritic basalt. Badly broken from 26'. Syenite - 34'-35'		Bornite is the sulphide. No vein structure or other.	>0.2% 2.0% >0.2% >0.2% >0.2% >0.2%	16067 8 9 16070 1 2 3	8.0 12.0 17.5 20.5 26.5 32.5 36.5	12.0 17.5 20.5 26.5 32.5 36.5 42.5	4.0" 5.5" 3.0" 6.0" 6.0" 4.0" 6.0"			0.29 1.93 0.04 0.03 0.09 0.03 0.03					
42.5	106.0	Porphyritic syenite. Vertical to near vertical fracturing. Barren.															
106.0	121.4	Porphyritic basalt. Chlorite alteration, sporadic epidote. Barren.															
121.4	128.0	Salmon coloured aplite.															
128.0	175.0	Basalt as at 106'-121.4'. Fract. intersect core at very acute angle.															
175.0	256.0	Aplite grading into syenite @ 194'. Barren 240'-244'. Basalt.															
256.0	339.0	Dark green chloritic basalt. Barren. 262'-265' Aplite sill. *274' Patch bornite * 281.5'-286.0' Fault gouge.															
		* This hole, COIN 2, is a restart. The first attempt was abandoned @ 12', in cave - talus (?)															

# DIAMOND DRILL HOLE RECORD

COIN 2 (2 of 2)

LEVEL	BEARING	DIP	TYPE OF SURVEY	CORE SIZE	HO
LOCATION	COLLAR	-90°		LENGTH	SH
ELEVATION				COMPLETED	LO
LATITUDE	N			PURPOSE	
DEPARTURE	E			TOTAL RECOVERY	

FOOTAGE		DESCRIPTION OF ROCK TYPES	DRILL HOLE	MINERALIZATION AND STRUCTURES	ESTIMATED % OF SULPHIDES	ASSAYS										
FROM	TO					SAMPLE NO.	FROM	TO	WIDTH	REC.	% CU	% ZN	OZS. AU	OZS. AG		
339.0	366.0	As above but rather broken. Considerable epidote, hematite. * 349' - Fingernail-size patch of bornite surrounding chalcopyrite. * 350.6' - Smaller patch chalcopyrite, rim of chalcocite (?)														
366.0	387.6	Alternating salmon-coloured aplite-syenite and chloritized, epidotized basalt. Fracturing very acute to core.														
387.6	412.0	Mainly epidotized, chloritized basalt. Some hematite. * 388.1'; 388.3' - Bornite. * 407' - bornite, chalcopyrite.														
412.0	427.0	Salmon-coloured syenite.														
427.0	445.0	Basalt, epidotized, chloritized; also hematite. Hole is here going right down the dip.														
445.0	457.0	Mainly salmon-coloured syenite, unmineralized.														
	457.0	END OF HOLE														

# DIAMOND DRILL HOLE RECORD

COIN 3

LEVEL	BEARING	DIP	TYPE OF SURVEY	CORE SIZE	BQ	HOL
LOCATION	COLLAR 270°	-45°		LENGTH	260'	SHE
ELEVATION	(W)			COMPLETED	Aug. 23/74	LOG
LATITUDE	N			PURPOSE		
DEPARTURE	E		Hole started - Aug. 20/74	TOTAL RECOVERY		

FOOTAGE		DESCRIPTION OF ROCK TYPES	DRILL HOLE	MINERALIZATION AND STRUCTURES	ESTIMATED % OF SULPHIDES	ASSAYS													
FROM	TO					SAMPLE NO.	FROM	TO	WIDTH	REC.	% CU	% ZN	OZS. AU	OZS. AG					
0.0	2.0	Casing																	
2.0	53.3	Pink porphyritic syenite, a uniform rock. Some basalt to 8'. 3.7' - 3 specks of chalcopyrite in salmon-coloured rock.																	
53.3	164.0	Porphyritic (augite) basalt. (Occasional narrow syenite band). Chlorite and epidote common; pink feldspar in veinlets, patches; hematite in veinlets. 60'-90' - Bornite sparse & sporadic in minor patches and veinlets. Patchy films of native copper on a few fractures. 106' - Speck of bornite, 116.5' - Bornite in veinlets, 136.5'-141.5' - Syenite.		Nothing in 60'-90' warrants sampling. Sparse, sporadic nature of mineral occurrence would necessitate taking full (unsplit) core to obtain accurate sample (and assay).	<0.2%														
164.0	260.0	Pink porphyritic syenite. A very uniform rock. Barren.																	
	260.0'	END OF HOLE																	



LEGEND

- D INTERMEDIATE TO BASIC DYKE
- G GRANODIORITE - SYENITE
- F BASALT FLOWS
- T BASALT TUFFS
- MINERALIZATION**
- Br BORNITE
- Cp CHALCOPYRITE
- Ma MALACHITE
- X SCHISTOSITY
- X FLOAT
- ⊕ HELICOPTER PAD
- ⊕ SWAMP
- ⊕ DRILL HOLE, Angle, Vertical

06/168  
090949

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# COIN GROUP

MINTO, Y.T.

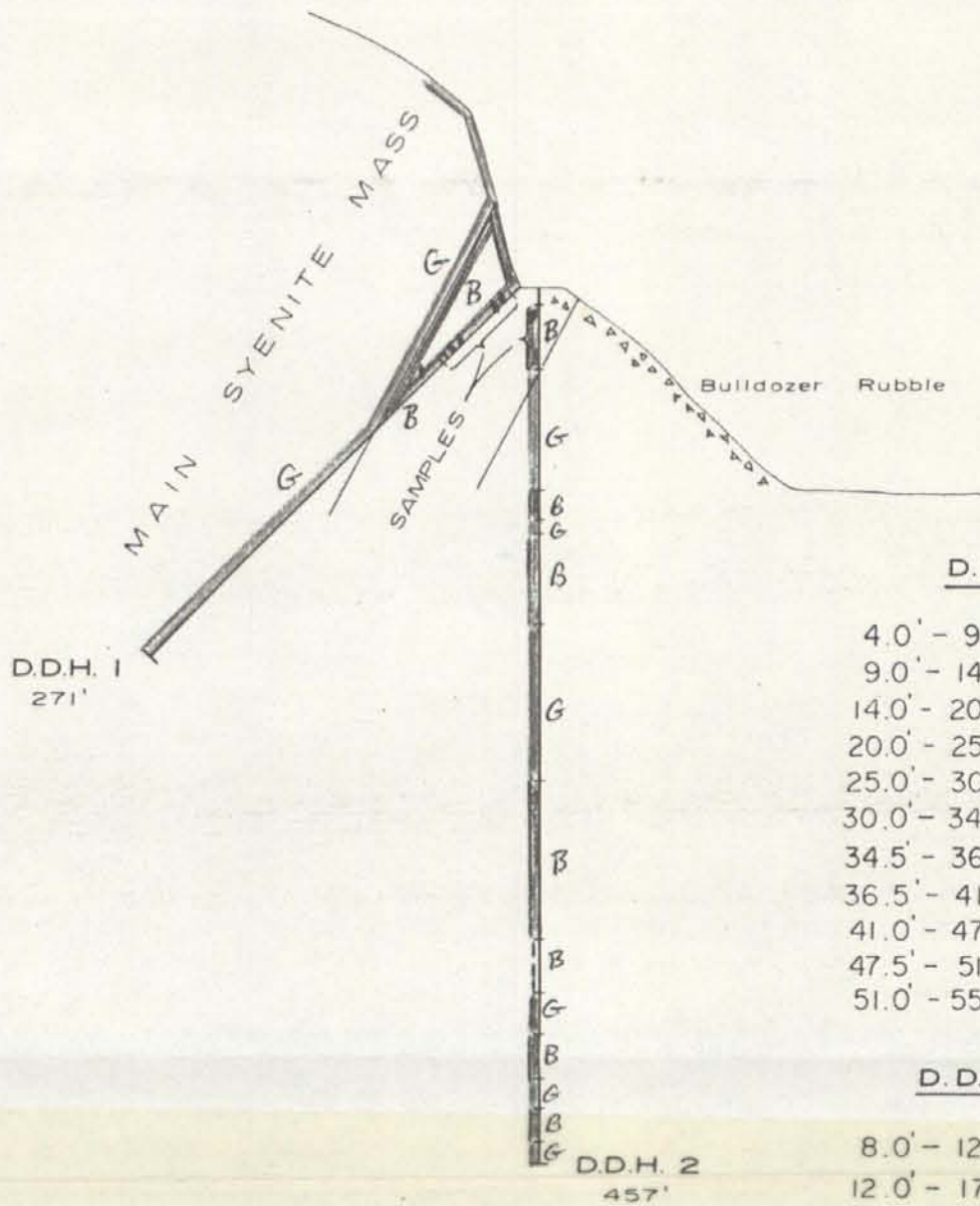
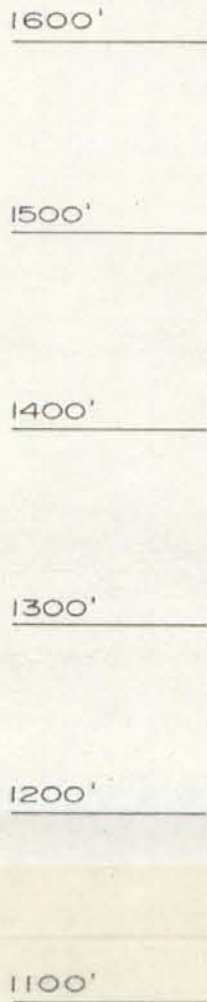
SCALE: 1" = 400'

SEPT. 15, 1974

WEST

EAST

ELEVATIONS



D.D.H. 1 SAMPLES

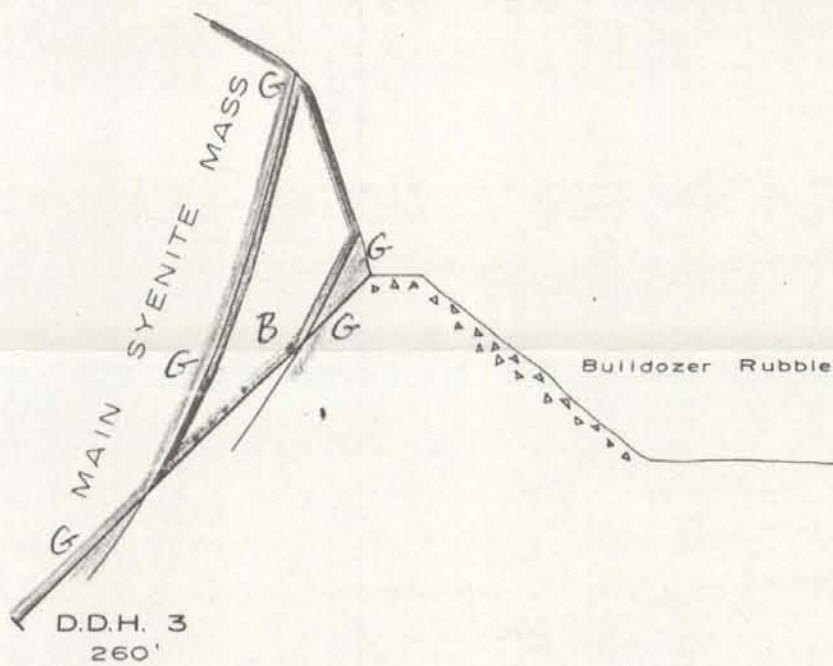
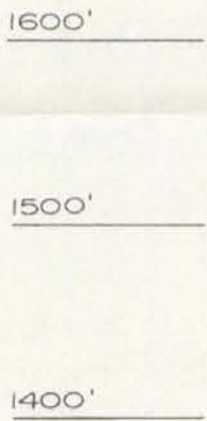
4.0' - 9.0'	=	5.0' - 0.69 % Cu
9.0' - 14.0'	=	5.0' - 0.52 % Cu
14.0' - 20.0'	=	6.0' - 0.50 % Cu
20.0' - 25.0'	=	5.0' - 0.05 % Cu
25.0' - 30.0'	=	5.0' - 0.02 % Cu
30.0' - 34.5'	=	4.5' - 0.18 % Cu
34.5' - 36.5'	=	2.0' - 0.69 % Cu
36.5' - 41.0'	=	4.5' - 0.95 % Cu
41.0' - 47.5'	=	6.5' - 0.93 % Cu
47.5' - 51.0'	=	3.5' - 0.36 % Cu
51.0' - 55.0'	=	4.0' - 0.07 % Cu

D.D.H. 2 SAMPLES

8.0' - 12.0'	=	4.0' - 0.29 % Cu
12.0' - 17.5'	=	5.5' - 1.93 % Cu
17.5' - 20.5'	=	3.0' - 0.04 % Cu
20.5' - 26.5'	=	6.0' - 0.03 % Cu
26.5' - 32.5'	=	6.0' - 0.09 % Cu
32.5' - 36.5'	=	4.0' - 0.03 % Cu
36.5' - 42.5'	=	6.0' - 0.03 % Cu

WEST

EAST



G Granodiorite-Syenite  
B Basalt

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DRILL SECTIONS

SCALE: 1"=100'

SEPT. 15, 1974