MEMORANDUM

To: W.M. Johnson

Date: October 29, 1979

Our File:

896166

Re: Chu Chua Samples

Three sets of drill core samples from the Chu Chua massive sulphide deposit (NTS 92P/8) have been submitted for analysis.

The first set of 7 are for X-ray analysis. The second set of 32 from section 10100N and 21 from 9950N are for silicate and selected trace elements analysis. The third set are massive sulphide samples (11 from 10100N and 8 from 9950N) for assay and selected trace element analysis. A list of sample numbers and capsule comments is appended.

The silicate analysis samples should be done for LOI and CO_2 - most have carbonate veinlets in them.

Several of the massive sulphides should be analysed semi-quantitatively by emission spec as I can intelligently choose trace elements of interest.

At least preliminary results would be appreciated in late December - I need them for the GAC Symposium in January. The study is being undertaken to see what effects alteration have had on the country rocks at Chu Chua and to understand better the metal distribution and abundances in the massive sulphide pods.

WJM/dlb

Encl.

cc: N.C. Carter

ANALSE S

1979

Samples and comments

SECTION 995	ON	Rocho
	Footage	Comments
	20	Basalt
	49	Pulan basalt
	74.5	Very fine grained basalt
	100	Pillow Basalt
8	/25	Besalt
	150	Beselt
	173.5	Basalt adjacent to massive pulphedes
	193.2	Siliceous, cherty \$ rock
	202.8	alfered basalt
	2/5	Less altered basact
	225	Slightly bleached feldspathic basalt
CC 25	10,5	Pillow basalt
	34.5	· // //
	75	Pillow basalt east of massive sulphede
	95	11 11 11 11 (tan colored)
	126.5	Pervasive tale (?) alteration of basalt
	143.5	Bleached basalt
	159.5	Bleached pillow baselt
CC 26	8.5	Pillow baselt
	27.4	. 11
	30.5	r, n , tr
56 1000		
CCI		Blacked basalt
		altered basalt
	39.5	altered brecciated baselt

		Massive Sulphide Samples		
SECTION 9950N				
DDH	Footage	Comments		
CC14	176.5	Brecciated massive sulphides		
	181.5	Massive Sulphides		
	185.5	1) " //		
	190.5	(1		
CC 26	37.5	Massive sulph des		
	45.5	n d n		
	49.5	Mognetite-rich zone		
	56.5	" " "		
		MASSIVE SULPITIDE STAPLES		
SECT	TION 1010	PON		
DD H	Footage	Comments		
CC 1	68.7	Massive Sulphides		
	71.5	S.c. ft		
	75.5	7		
	79.5	· · · · · · · · · · · · · · · · · · ·		
	83.5	(i		
	119.5	" (was This included?)		
CC 17	19.9	Massive Sulphides		
	22.5	11		
	31.5	71		
CC 12	217.5	Massive Sulphedes		
		/		
	41			

ROCKS

SECTION	1-10100N	110000
DDH	Footage	Comments
CC/	10	"Spotted" basalt
	25	Feldspathic basalt
	40	Pillow basalt
	58.5	Feldspathic baselt
	67	Pillow basalt adjacent to massive pulphide lapa
	91.5	altered basalt (small sample)
	99.9	Pyritic siliceous "chert"
	124.5	Tale (?) aftered basalt
X	129	Slightly aftered besalt
	<i>*</i>	' /
CC17	45,1	Pyritic "chest" (or is it silicified basalt?)
,	52.3	aftered besalt
	69.7	Black affered and veined basalt
	74.5	Carponate (?) aftered basalt
	99.0	Chloritised feldspathic basalt
CC 22	15.5	Chert breccia
	38.7	Carponate aftered basalt
	54.5	Bleached basalt
CC 12	19.5 *	very finely crystalline pillow beselt
	29.5	Finely " " "
7-7-	39.5	"chilled" Pillow basalt
	60	n 'n
	80	Finely crystalline Pillow Besalt
	100	The state of the s
	120	Very fenely crystalline "

ROCKS (CONT'D)

SECTION	10100 N
2 1 1011	1010014

CC12 1	40	microdioristic textured basalt (altered)
10	60	Finely crystalline basact
/	78	Pillow pasalt

XRAY SAMPLES

DDH	Footage	Comments
CC 26	26.4	Vein composition?
cc 1	90 . /	Mineralo?
	94.5	Sphalerite? + Talc? + Dolomite?
	95	Dolomite 3-5 phalerite 3+ pyrr hotiti?
CC/2	199.5	Tale? aftered besalt
72	200.4	Carbonate or is it barite aberation?
	225	carbonate! aftered basatt