QUINTANA DRILLING, 1973

DDH Y 2

896331

1" = 100'

0/B

P P plag ppy

flow top bx w. massive "torgues"

calcite in vugs

Flow top bx w. massive lava sections

siltstone 25° dip

Flow bx w. massive torgues

montmorillonite

↓ trace native Cu ↓ trace fract. pyrite

and dyke (?) pyritized contacts

siltstone - dissem + fr. pyrite, trace Cu, cpy (?)

siltstone 10-20° dip

sandstone - granitic, kv, pyritized clasts

sands + silts + carbonaceous layers

varved silts, clays Beds 10-20° dip, often truncated by "erosion"

silts + clays, carb. remains 10-15° dip

silts + fine sands, carbonaceous remains, some wood, some pyrite

cgl clasts ¼" to well rounded - mainly alt. Guichon gd, some hybrid, dyke, kv

silts + fine sands + carb. beds

pebbly sands, fg sands, carbonac. zones 10-15° dip

propylitic, fr. py, cpy

a few well rmnlzd cpy, bn

"varved" clays + silts - soft sed defmn

Guichon, cp, chl, py, some cpy

unconformity - NO OXID'N → dips of 40-60° locally

altn less, sulphide less, fewer fractures

altn + fr. better again, sulphides up

altn, etc less again

all < ½% total sulphides

SYNOPSIS

0/B	220
Volc. bx	510
siltstone sst lac. cgl	630
"varved" clays	670
Granite	

From	To	Sample No.	Length	% Rcy.	Hole #2. #1	Q	KF	Bi	Chl.	Cl.	Ser.	Ep.	Cb.	Sul.	Sulph.	Vein	Py/Cpy	Mag.	Acc. Cu.
268	274		6		Dark green feldspar porphyry flow Phenos and fractures partly replaced & filled with soft green mineroloid (?)														
274	340		66		Flow top breccia. Slight oxidation. Fragments porphyritic similar to underlying basaltic or andesitic flow. Several foot thick sections of massive lava are probly. tongues. Fracture & vvgs coated with green to bluish soft colloidae mineraloid (?) Late calcite lines vugs.														
340	384		44		Massive, medium to dark grey basaltic to andesitic flow as above.														
384	435		51		Flow top breccia with massive lava sections as above.														
435	436		1		Bedded siltstone 25° dip. (approx)														
436	463		27		Flow breccia with tongues of massive lava.														
463	505		42		Massive weakly porphyritic basaltic andesite as above. Traces native Cu from 475' associated with green colloidal fracture coatings. Traces fracture pyrite from 485 on.										py				x
505	511		6		Dark grey siltstone containing angular fragments at brecciated andesitic intrusive (dyke?) section is characterized by disseminated and fracture pyrite and traces native Cu and traces of chalcopyrite (?)										py cp(?)				x
511	526		15		Brecciated basaltic andesite dyke (?) contacts heavily pyritized and fractured pyrite.										py				x
526	535		9		Mainly varicoloured siltstone, bedding dips 10-20°-minor layers of impure sandstone														
535	546		11		Pebbly sandstone - Granitoid & KV clasts Also heavily pyritized clasts. Matrix with local pyrite cement										py				
546	550		4		Interbedded, thin-bedded sands, silts and black carbonaceous layers. Occassional course pebbly sandstone layers with pyrite cement, bedding truncated & locally displaying slump (?) structures. Minor chalcopyrite in pebbles.										py,	cp.			
550	560		10		Locally well laminated varved silts & clays Bedding at 10-20° frequently displaying														

(2)

From	To	No.	Length	Rcy.	Hole #2	Q	KF	Bi	Chl.	Cl.	Ser.	Ep.	Cb.	Sul.	Sulph.	Vein	Py/Cpy	Mag.
560	568		8		Interbedded silts & fine sands containing abundant carbonaceous remains & impressions, wood at 559. Minor layers of coarser sand with some pyrite.										py			
568	583		15		Conglomerate with silty & or sandy matrix. Clasts vary from extremely angular to moderately well rounded & range to at least 4" diameter. Clasts are mainly of altered guichon Q.D. but also include minor hybrid phase Q.D., feldspar porphyry dyke rocks and porphyrtic maroon to pinkish Kamloops dacite, Guichon frags. are all propylitic P2 plus in alteration & most contain fracture pyrite and chacopyrite. Few frags are well mineralized with fine-disseminated chalcopyrite and minor bornite.										py cpy bn			
					From about 578 matrix is silty & contains moderately abundant carbonaieous remains. In addition to the granitic fragments it contains a few fragments of siltstone.													
583	586		3		Varied silts and clays with carbonaceous remains. Bedding dips 10-15°.													
586	596		10		Pebble conglomerate with silty matrix as above. Altered & mineralized frags as above										py cpy			
596	608		12		Sand matrix pebble to cobble conglomerate as above. Few well chalcopyrite-mineralized fragments near 601. Matrix with local heavy pyrite cement.										py cpy			
608	615		7		Interbedded pebbly sands, fine sands and carbonaceous beds dipping at 15 to 20°													
615	628		13		Interbedded fine sands, varied (?) silts and carbonaceous beds.													
628	663		35		Varved (?) clays and silts. Soft sediment deformation is evident as dips at 40-60° are locally present. Occassional granitic pebbles 662-663.													
663					UNCONFORMITY minor granitic rubble Zero oxidation.													

From	To	No.	Length	Rcy.		Q	KF	Bi	Chl.	Cl.	Ser.	Ep.	Cb.	Sul.	Sulph.	Vein	Py/Cpy	Mag.
663	675		12		Guichon Qtz. dior. P3. Fracture epidote, very dark & light green chlorites. Minor fracture pyrite - trace chalcopyrite associated most strongly with fractures dipping at 80 - 85° with strong epidote. Sulphides coat fractures weakly but are mainlydisseminated immediately adjacent wall rock of fractures. Total sulphides less than 1/2%. "Diss : vein" = 2:1 Py:cpy = 25:1										1/2	2:1	25:1	
675	703		28		Alteration slightly weaker. P2 local P3. Fracture density lower. Less sulphide. Sulphide present is associated with 45° to flat lying hairline fractures coated with very dark green chlorite.													
703	745		42		Mainly P3 with several steeply dipping well altered fractures and associated relatively more abundant chalcopyrite.													
745	780		35		Fracture density lower; alteration weaker P2 local P1. Trace pyrite. Less epidote.													
					Chip re-sample													
SAMPLES				about 100%														
670	680	5853	10		Q5856													
700	710	5854	10		57													
710	720	5855	10		58													
730	740	5856	10		59													

From	To	No.	Cu	MoS_2	Ag	Au	Mo. PPM	Cu. PPM		AVERAGES	
663	675										
675	703										
703	745										
745	780										
SAMPLES											
670	680	5853	.008	.002			1.1	69			
700	710	5854	.007	.002			0.7	33			
710	720	5855	.006	.001			0.7	49			
730	740	5856	.010	.003			0.4	62			