

DRILL HOLE LOG

HOLE No. 79B-6
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COORDINATES 2 + 47N - 4 + 50E
ELEVATION 5145'
DIP 90°
AZIMUTH -

CORE SIZE BQ
HOLE STARTED 20/09/79
HOLE COMPLETED 26/09/79
LOGGED BY U. Schmidt
M.P. Phillips

WO₃%
(ppm) ppb Au ppm Sn

FOOTAGE	DESCRIPTION	WO ₃ % (ppm)	ppb Au	ppm Sn
0	No core - casing			
10	Pbmcs* - altered			
10	altered and weathered chloritic micaceous quartzose schist micaceous quartzose package; weakly chloritic, weakly foliated, fine grained light grey colour. Strong core penetrating fractures at 0-45°, 4/ft with weak-fair limonite; strong closed hairlike fracturing.			
20	contact ground 0.4' white quartz Limestone- reddish brown, highly weathered, high in clay. 45°?			
30		(8)	T	1
40	55° contact Quartz feldspathic unit- low biotite, moderate chloritization, possibly altered intrusive? Contact ground Base? of weathering- rock hard competent but still abundant hairlike fracturing.			
40	Slickenside contact 65° Biotite Quartz Monzonite: medium grained, low biotite. 80°			
50	Rock becomes highly broken.			
60	Fault? weak Fault Zone Pcs Dark grey to pale olive green altered Pcs with light brown quartz carbonate alteration, epidote, talc, chlorite 57.0-63.0': mainly white quartz fragments; minor clay; major fault.			

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FOOTAGE	DESCRIPTION	WO ₃ % (ppm)	ppb Au	ppm Sn
60	Pcs* Grey-green chloritic epidote altered equivalent of biotite-chlorite-muscovite-garnet schist, with pale yellow brown quartz carbonate alteration			
65	0.4' mainly white quartz, minor quartzite.			
70	0.8' major fault- brown sandy and clay fault gouge.			
75		(2)	T	1
80	Up to 0.1' subangular fragments of orange minor dark greenish grey limestone with white calcite veining.			
85	▼Contact?			
90	Major thrust fault - 30-55° brown, clay and quartz gouge with fair graphite, in places calcareous.			
95	Gougy fractures - rock highly broken.			
100	Carbonaceous fault gouge			
105	60° fault			
110	aphanitic, tan grey quartzite in graphitic matrix.			
115	Chloritic epidote equivalents of Pbmcst			
120	BIOTITE MARBLE AND SCHIST: and weathered and altered equivalents. Chloritic marble dark green and light grey irregular stripy to mottled banding strong-weakly calcareous, green; in places siliceous; overall weak; in places slump breccia may be due to fault. Fair to moderate quartz and calcite veining. Only alteration appears to be possible formation of talc?? and altered garnet pseudomorph in trace amounts, fair to moderate fracturing, slicken-sides along bedding common.			
125		(6)	T	2
130	Strong fracturing parallel to core.			
135	20° fault- fair.			
140	FaultZone - fair to moderate			
145	40° Highly fractured			

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FOOTAGE		DESCRIPTION	WO ₃ % (ppm)	ppb Au	ppm Sn
120	•	Pbmcs* BIOTITE MARBLE AND SCHIST continued: chloritic marble			
	•	Transitional, more massive, loss of banding			
	•	grey-green chloritic talcy equivalent			
130	•	Marble: dark grey, rare weak light coloured banded, fair-strongly calcareous, occasional siliceous zones up to 1 ft (primary); abundant fine calcite veinlets and where intense, rock bleached. Fractures with gouge 30-45°, 1-2/5'.	(8)	T	7
	•				
	•				
	•				
140	•				
	•				
	•				
	•				
	•				
150	•	Biotite content increasing - chlorite epidote decreases, also includes lighter quartzo feldspathic equivalents - similar to Pbmcs or surface	(2)	T	1
	•				
	•				
	•				
160	•				
	•				
	•				
	•				
170	•				
	•				
	•				
	•				
180	•	Pbcs* Biotite chlorite schist	(1)	20	1

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FOOTAGE		DESCRIPTION	WO ₃ % (ppm)	ppb Au	ppm Sn
180	•	Pbcs* BIOTITE MARBLE AND SCHIST continued: chloritic marble.			
	•	30° clay gouge			
	•	Decreasing lime, increasing silica.			
190	•	55° Light grey green siliceous biotite chlorite equivalent of biotite and chlorite schist lighter greenish colour is caused by bleaching and chloritization of biotite rich section.	(1)	10	1
	•	- paler quartzo feldspathic equivalents, similar to Pmcs			
	•	20° Dark grey chloritic biotite marble grading to siliceous chloritic biotite schist and gneiss.			
200	•	Green grey siliceous chloritic schist and dolomitic marble.			
	•	Quartz vein			
210	•		(4)	T	2
	•	Siliceous fragments in chloritic matrix.			
220	•	Pbcs* medium grey biotite with pyroxene garnet wollastonite bands; chlorite schist chloritic in sections. with carbonate bands and calc-silicate bearing sections minor garnet vesuvianite			
230	•	grey wollastonite-garnet vesuvianite pyroxene calcite skarn band.	(1)	T	1
	•	Calc-silicate band - pyroxene wollastonite.			
240	•	40° Pyroxene wollastonite garnet biotite band.			

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FOOTAGE		DESCRIPTION	WO ₃ % (ppm)	ppb Au	ppm Sn
240	•	Pbcs* Dark grey biotite siliceous dolomitic schist and schist			
	• chloritic epidote schist				
	•	Grey green chloritized biotite siliceous, dolomitic schist	(3)	T	6
250	•				
	•	Grey green siliceous dolomitic marble breccia with chloritic matrix.			
260	•				
	•	Pcp* CARBONACEOUS PHYLLONITE	(3)	T	7
	•	Fractured dolomitic breccia with calcite in some fractures.			
	•	2 Black graphitic fault gouge in black micaceous marble host rock.			
270	•	Pggi* and Pcsc* BANDED AND CALC SILICATE SCHIST: white green and grey banded calc-silicate skarn and gneiss: pink garnets, pyroxene-garnet-wollastonite-vesuvianite-calcite with minor biotite and chlorite after garnet. Calcite filled fractures 10-30° to core.	(2)	T	2
	• grey green				
	• amphibole				
	• 80° chlorite				
	• epidote				
	• groundmass				
280	•				
	•	Pcp*			
	•	Pbcs* DARK GREY GREEN CHLORITE SCHIST - dark grey to grey green chloritic biotite silicate dolomitic limy chlorite schist, talcy, with biotite porphyroblasts	(2)	10	2
290	•				
	•	Pcsc* BANDED SKARN AND CALC-SILICATE SCHIST: white wollastonite-quartz calcite skarn with minor pink garnet and pyroxene.	(3)	T	1
	•	Pbcs* BIOTITE CHLORITE SCHIST - limy Pcs			

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FOOTAGE	DESCRIPTION	WO ₃ % (ppm)	ppb Au	ppm Sn
300	garnet wollastonite vesuvianite band. Pggi [*]	(2)	20	1
310	Pcss [*] BANDED SKARN AND CALC-SILICATE SCHIST: green and white, grey and brown banded pyroxene- wollastonite-garnet-vesuvianite-calcite-quartz gneiss and skarn with intermittent biotite bands and schist Light pink garnet Light(green pyroxene) ?chlorite Dark brown vesuvianite Pale green schist and calc-silicate skarn	(1)	T	1
320	Biotite rich bands. 80°			
330	Biotite rich bands. 80°			
340	Quartz vein at 20° to core. Medium green pyroxene wollastonite garnet banded calc-silicate skarn	(1)	T	1
350				
360		(1)	T	1

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FOOTAGE		DESCRIPTION	WO ₃ % (ppm)	ppb Au	ppm Sn
360		Pcss* Banded pyroxene-wollastonite-garnet-vesuvianite skarn continued.			
370		Pggi* GREY AND GREEN INTERBANDED SCHIST: thinly laminated biotite pyroxene gneiss, light green pyroxene bands, 50% pyroxene, 50% biotite Minor wollastonite-vesuvianite bands. - dark grey biotite and pale green interbanded schist	(1)	T	3
380		Pbcs* BIOTITE CHLORITE SCHIST: dark grey banded biotite-silicate gneiss with minor light green pyroxene bands. - dark grey with thin pale green chloritic bands			
390			(1)	20	1
400		Pggi* GREY AND GREEN INTERBANDED SCHIST: Light green and dark grey banded biotite-pyroxene gneiss			
410		Quartz vein 70° to core; trace pyrrhotite and pyroxene.	(1)	T	1
420		Quartz vein 50° to core.			

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FOOTAGE		DESCRIPTION	WO ₃ % (ppm)	ppb Au	ppm Sn
420	Pggi ⁺ continued	GREY AND GREEN INTERBANDED SCHIST Light green and dark grey banded biotite pyroxene silicate gneiss continued, minor wollastonite bands, light green pyroxene bands are irregular and crosscut foliation in places.			
	Calcite vein 20°				
430	Calcite 10°		(2)	20	1
	Pbmcs ⁺	BIOTITE MARBLE AND SCHIST: grey and grey green thinly laminated biotite siliceous marble, grey green sections are altered chloritic equivalents of grey biotite marble. - pale olive green epidote bearing altered equivalent			
440					
		Dark grey siliceous biotite dolomitic marble and siliceous schist with olive green chloritic altered equivalents; variable silica content, dark grey-green limy biotite-chlorite- muscovite schist, limy, talcy	(1)	T	1
450	70°				
	quartz vein				
	Grey green altered equivalent	- paler siliceous equivalent with epidote, olive coloured variety of biotite-chlorite schist			
460					
	Medium grained altered quartz monzonite.				
	Grey green altered equivalent.				
470			(1)	T	1
	Green altered equivalent.				
480					

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FOOTAGE	DESCRIPTION	WO ₃ % (ppm)	ppb Au	ppm Sn
480	Pbmcs* continued BIOTITE MARBLE AND SCHIST continued Green altered equivalent. Feldspar augen	(2)	T	I
490	Green altered equivalent. - epidote, olive coloured equivalent			
500	White quartz vein at 80° to core.			
510	Pbcs* BIOTITE-CHLORITE-MUSCOVITE SCHIST - Dark grey with talcy fractures	(1)	T	I
520	Pbmcs* BIOTITE-CHLORITE-MUSCOVITE SCHIST: Pale grey quartzo-feldspathic schist, talcy			
530	Quartz vein fractured ground Quartz vein	(1)	T	I
540				

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Pbmcs continued

WO₃%
(ppm) ppb ppm
 Au Sn

FOOTAGE	DESCRIPTION	WO ₃ % (ppm)	ppb Au	ppm Sn
540	Green altered equivalent. Pale green muscovite-chlorite-epidote talc schist			
	Quartz vein			
	Bleached equivalent.			
	limy biotite-chlorite-muscovite-schist	(1)	T	1
550				
	Black tourmalinized band.	(8)	10	1
560				
	Green altered chloritic equivalent. - epidote	(1)	T	1
570				
	Dark grey siliceous biotite limy dolomite schist			
580		(1)	T	1
	Pcss* BANDED SKARN AND CALC-SILICATE SCHIST: light to medium green banded to massive pyroxene garnet vesuvianite skarn, pink garnets, light green pyroxene, dark brown vesuvianite.			
590		(125)	T	1
	Pbmcs* BIOTITE MARBLE AND SCHIST: black thinly laminated biotite siliceous marble.			
600				

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FOOTAGE		DESCRIPTION	WO ₃ % (ppm)	ppb Au	ppm Sn
600		Pcss* <u>BANDED SKARN AND CALC-SILICATE SCHIST:</u> weakly banded wollastonite-pyroxene vesuvianite garnet quartz calcite skarn. Light green pyroxene, pink garnet, dark brown vesuvianite.	(1)	T	1
610		Medium grained biotite quartz monzonite dyke 80° to core. Pbmcs* <u>BIOTITE-MUSCOVITE-CHLORITE SCHIST:</u> dark grey biotite-siliceous marble and minor green altered equivalent, pale grey green biotite-chlorite-muscovite talc schist	(1)	T	1
620			(1)	T	1
630		80° Grey banded biotite-dolomitic marble with minor green chlorite bands and siliceous bands. Foliation 80° to core.	(1)	T	1
640		Psk* <u>DARK GREEN MASSIVE SKARN:</u> dark green coarse pyroxene garnet vesuvianite skarn 3" of vesuvianite calcite.			
650		Pbmcs* <u>BIOTITE-CHLORITE-MUSCOVITE SCHIST:</u> grey green fine grained, thinly laminated siliceous biotite dolomitic schist and marble: - talcy fractures light grey calcite quartz-wollastonite? marble. Grey green siliceous chloritic biotite marble and schist.	(1)	T	2
660					

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FOOTAGE	DESCRIPTION	WO ₃ % (ppm)	ppb Au	ppm Sn
660	Pbmcs * BIOTITE MARBLE AND SCHIST continued Grey green siliceous biotite marble siliceous bands.			
	Pcss * BANDED SKARN AND CALC-SILICATE GNEISS: grey green pyroxene-garnet- vesuvianite-wollastonite skarn.			
	Pbmcs * BIOTITE MARBLE AND SCHIST: grey green biotite siliceous dolomitic marble.			
670	10° fracture with calcite. 80° medium grey biotite siliceous marble.	(2)	T	3
	quartz monzonite dyke- medium grey, cut by late silica veins.			
680	Biotite marble breccia in silica matrix Carbonate vein at 20°.			
	Psk * DARK GREEN MASSIVE SKARN: dark green, massive to weakly laminated pyroxene skarn with garnet minor pyrite and pyrrhotite.	0.13	T	
690				
	Pcss * BANDED SKARN AND CALC-SILICATE GNEISS: green white brown banded pyroxene garnet wollastonite vesuvianite calcite skarn.			
	Psk * DARK GREEN MASSIVE SKARN: dark green pyroxene garnet skarn with vesuvianite.	0.03	80	
	Epidote in skarn bands and pyrrhotite calcite vein in fracture quartz pyrrhotite hematite? epidote vein and in skarn matrix.			
700	Pcss * BANDED SKARN AND CALC-SILICATE GNEISS: light grey wollastonite-calcite quartz skarn. Weakly foliated to massive skarn with bands of wollastonite-garnet-vesuvianite occurring intermittently. Banded pyroxene garnet wollastonite skarn with calcite and minor epidote.	0.06	T	
	Vein 60° to core. Green fluorite, quartz, molybdenite?	0.40	100	
710	Quartz vein with pyrrhotite and epidote.	0.02	T	
	Pggi * GREY AND GREEN INTERBANDED SCHIST AND GNEISS:			

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FOOTAGE	DESCRIPTION	WO ₃ % (ppm)	ppb Au	ppm Sn
720	80° Pggi * GREY AND GREEN INTERBANDED SCHIST continued: grey and green pyroxene biotite calcite siliceous with garnet dolomitic marble with calc-silicate bands (pyroxene, garnet, vesuvianite)	<0.01	T	
730	Calcite 10° to core. Pcss* Dark green banded pyroxene garnet vesuvianite skarn Grey green pyroxene biotite marble as before. Grey green biotite marble breccia with calcite matrix.	(200)	T	3
740	Pggi * 80° biotite marble as above. Banded pyroxene garnet Pcss* Medium green and brown banded calc-silicate schist, banded skarn with vesuvianite skarn Grey green biotite biotite bands, garnet-pyroxene-vesuvianite chlorite bands Pyroxene banded marble Green banded biotite pyroxene garnet vesuvianite calc-silicate gneiss. Calcite vein 20°. Green weakly banded coarse pyroxene garnet vesuvianite skarn with minor wollastonite.	0.02 0.01	T	
750	Pyrrhotite 40° to core Pyrrhotite in fracture 30°.	0.04	T	
760	Wollastonite garnet vesuvianite calcite band.	0.01	10	
770	Kqm * QUARTZ MONZONITE: medium to coarse grained biotite quartz monzonite; quartz epidote alteration minor chlorite kaolinite with weak large remnant porphyroblasts. Biotite marble xenolith. Quartz monzonite is grey, coarsely porphyritic biotite, large phenocrysts 2-3 cm are mainly ghosts, shows chlorite, epidote quartz alteration also a few quartz and carbonate veins cut the monzonite.	0.01 0.01 0.01	20	
780	10°	(14)	T	2

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FOOTAGE	DESCRIPTION	WO ₃ % (ppm)	ppb Au	ppm Sn
780	Kqm continued			
	Chlorite epidote quartz alteration. Kaolinized medium grained feldspars.	(4)	10	1
790	Chlorite epidote quartz alteration.			
800	20° Dolomite epidote quartz alteration.	(1)	T	1
810				
820	3-5 cm phenocryst of k-spar. epidote quartz alteration calcite veins.	(2)	T	1
830	End of Hole			