Drill Hole Rec ~d

Scale

Colour Plot & Dips

Property	JC Property	District	Watson Lake M.D.	Hole No.	JC 81-9
Commenced	30 July 1981	Location	Yukon Territory	Tests at	p.7
Completed	4 August 1981	Core Size	BQ	Corr. Dip	-80°
Co-ordinates	L76E 95N (approx.)			True Brg.	360°
Objective	Test skarn horizon for Sn mineralization.			% Recov.	

Hor. Comp.	
Vert. Comp.	
Logged by	G.D.L.
Date	4 August 1981

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	360°	-80°		762'		

Footage From	Footage To	Description	Sample No.	Length	Analysis
0.0	10.0	CASING			
10.0	630.0	QUARTZITE			
		Gray-green to mauve-coloured (argillaceous); v.f.gr.; may be finely banded; occasional small wh. qtz. stringers; more massive mauve-coloured sections may have hornfelsic texture w/ wh. spots resembling phenocrysts(?); small sections may be sl. brecciated; occasional chloritic qtz. 'sweats' w/ py;			
		Core angle @ 55' approx. 19°			
		;some sections are light gray and massive w/ irreg dark grayer bands and stringers; occasional minor po as blebs or sometimes as stringers;			
		122.0-160.5 'Marble-cake' textured hornfels; patchy, irregular hybrid of light gray f. gr. QTZITE w/ mauve coloured QTZITE; sometimes shows small chloritic patches.			
		Core angle @ 208' 22°			
		256.5-261.0 Large qtz. vein or sweat in f. gr. gray QTZITE; chloritic w/ brownish stringers; sl. shattered or brecciated			

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Property		District		Hole No.	JC 81-9
Commenced		Location		Tests at	
Completed		Core Size		Corr. Dip	
Co-ordinates				True Brg.	
Objective				% Recov.	

Hor. Comp.	
Vert. Comp.	
Logged by	
Date	

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	360°	-80°		762'		

Footage From	To	Description	Sample No.	Length	Cu	WO3	Sn	Ag	Au
		Core angle @ 275' 21°							
		288.5-316.5 Section of 'marble-cake' hornfels cf. 122.0-160.5.							
		342.0-377.0 Qtz. breccia zone; section of massive, glassy light rusty brown qtz; shattered or	SR0013	342.0 352.0	<0.01	<0.01	<0.01	<0.01	<0.003
		brecciated for the most part; very small sections of gray f. gr. QTZITE.	SR0014	352.0 362.0	<0.01	<0.01	<0.01	<0.01	<0.003
			SR0015	362.0 372.0	<0.01	<0.01	<0.01	<0.01	<0.003
			SR0016	372.0 377.0	<0.01	<0.01	<0.01	<0.01	<0.003
		391.5-394.0 Several 1cm bands or frags.(?) of py/qtz.; seem to consist of angular brecciated							
		py frags. in qtz. matrix.							
		417' 1cm vein of qtz./chlorite w/ coarse flakes of muscovite(?); smaller veins or 'sweats' of							
		this material occur infrequently toward bottom of hole.							
		;towards bottom of section QTZITE becomes more chloritic and may be slightly biotitic in sections							

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Cominco

Property	District	Hole No. JC 81-9	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length
	360°	-80°		763'

Footage From	To	Description	Sample No.	Length	Cu	WO3	Sn	As	Au
		603.5-606.0 Small section of LAPILLI TUFF(?); contains flattened elongate frags(?) of gray							
		quartzitic material (up to 3cm length) in a matrix of weakly banded mauve-coloured QTZITE.	SR0017	610.0 615.0	0.01	<0.01	<0.01	0.03	<0.003
			SR0018	615.0 620.0	0.02	0.02	<0.01	0.03	<0.003
		; last 20' of section contain included sections of CALC-SILICATE rock w/ cherty pinkish and	SR0019	620.0 626.0	<0.01	0.03	<0.01	0.03	<0.003
		greenish bands;							
		626.0-630.0 Zone of qtz. veins/sweats and brecciation; most of section is grayish QTZITIC rock	SR0020	626.0 630.0	0.02	<0.01	0.03	0.05	<0.003
		heavily mottled w/brownish-yellowish qtz.-carbonate material; brecciated sections consist of	SR0021	630.0 635.0	<0.01	<0.01	0.06	0.02	<0.003
		small (less than 1cm) qtzitic frags in a soft greenish matrix; thin vert. qtz./carb. stringers	SR0022	635.0 640.0	<0.01	0.02	0.07	0.04	<0.003
		through much of section.							
630.0	729.0	GARNET-DIOPSIDE SKARN	SR0023	640.0 645.0	<0.01	0.01	0.11	0.05	<0.003
		Green, f. gr. siliceous diopside-bearing skarn; pale pink-red garnets as coarse rounded	SR0024	645.0 650.0	<0.01	0.35	0.03	0.03	<0.003
		grains and in patches; actinolite(?) occurs occasionally in narrow bands or irregular strips;	SR0025	650.0 655.0	<0.01	0.07	0.05	0.05	<0.003
		small sections develop texture similar to SPOTTED SKARN; small sections contain dark-coloured	SR0026	655.0 660.0	<0.01	0.03	0.09	0.03	<0.003
		fluorite(?) and qtz. as patches surrounding coarse-gr. garnet; occasional qtz./carb. bands and	SR0027	660.0 665.0	<0.01	0.49	0.18	0.03	<0.003
		'graphic' calcite stringers;							
		641.5' 1cm 'graphic' calcite vein @ 81°; adjacent rock has fluorite 'spots' up to 8mm.							

211-9437

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Colour Plot & Dips

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Drill Hole Record

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Property	District	Hole No. JC 81-9	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	360°	-80°		762'		

Footage From	Footage To	Description	Sample No.	Length	Analysis Cu	Analysis WO_3	Analysis Sn	Analysis Ag	Analysis Au
		;sections of f. gr. massive DIOPSIDE SKARN; these sections often have interstial fluorite prod-							
		ucing a 'float' texture w/ diopside in a matrix of fluorite							
		658' 4mm 'graphic' calcite vein @ 84°							
		659.5-660.0 Rusty qtz./carb vein-breccia zone; largely qtz/carb. w/ frags of SKARN; 2cm. angular							
		vug filled w/ small sparry qtz. xls.							
		655.0-689.0 Is largely f. gr. siliceous (often fluoritic) SIOPSIDE SKARN w/ very little garnet;							
			SR0028	665.0 670.0	<0.01	0.05	0.11	0.01	<0.003
		665.0-669.0 Small sections showing cherty pinkish and greenish banding; possible remnants of	SR0029	670.0 675.0	0.06	<0.01	0.12	0.08	<0.003
		banded CALC-SILICATE texture.	SR0030	675.0 679.5	0.01	<0.01	0.05	0.07	<0.003
			SR0031	679.5 685.0	0.01	0.01	0.07	0.07	<0.003
		672.0-675.0 Coarse gr. qtz./beryl/fluorite vein; almost parallel to length of core; mnr. arspy							
		and axinite and some epidote; narrow brecciated selvedge w/ frags of host SKARN;							
		675.5-676.5 Brecciated qtz./'graphic' carbonate vein cf. 670.0-672.0; graphic calite appears							
		in a thin vein apparently postdating brecciation.							

Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Claim	T Brg.	Collar Dip	Elev.	Length	Sheet / Hole No.
	360°	-80°		762'	

Property | District | Hole No. JC 81-9

Commenced | Location | Tests at | Hor. Comp.

Completed | Core Size | Corr. Dip | Vert. Comp.

Co-ordinates | True Brg. | Logged by

Objective | % Recov. | Date

Footage From	To	Description	Sample No.	Length	Analysis Cu	WO3	Sn	As	Au
		679.5-680.5 1cm qtz./'graphic' calcite/arspy/py vein @ approx. 80°; arspy as coarse euhedral xls up to 5mm; py mnr as smaller cubes.							
		680.0-681.0 Section w/ cherty pinkish and greenish bands; cf. 665.0-669.0							
			SR0032	685.0-690.0	<0.01	<0.01	0.04	0.03	<0.003
			SR0033	690.0-695.0	0.04	<0.01	0.09	0.07	<0.003
			SR0034	695.0-700.0	0.01	<0.01	0.05	0.05	<0.003
			SR0035	700.0-705.0	<0.01	<0.01	0.09	0.09	<0.003
		686.0 4mm 'graphic' calcite vein @ 70°	SR0036	705.0-709.0	<0.01	<0.01	0.05	0.03	<0.003
			SR0037	709.0-715.0	0.01	<0.01	0.05	0.03	<0.001
		;from 689.0-709.0' skarn is very garnetiferous (up to 75% in some sections); rock is permeated by numerous parallel narrow ('sheeted') veinlets of act. or tourm(?) at about 80°; these veinlets may contain py or arspy in minor ammounts; cpy/py/arspy and minor po also occur in small actinolite patches (1-3cm) or rare 'spots' of actin,; occasional narrow 'graphic' calcite veinlets also at approx. 80°; actin. also occurs in sections as thin irregular bands or stripes of a few mm,. usually in diopside-rich sections;	SR0038	715.0-720.0	<0.01	<0.01	0.06	0.03	<0.003
			SR0039	720.0-725.0	0.06	0.02	0.07	0.11	<0.003
			SR0040	725.0-729.0	0.03	<0.01	0.03	0.07	<0.003
		;from 709.0-729.0' skarn is largely diopside w/ approx. 20% actin. as thin irreg. subparallel bands or stripes; small sections have a definite 'tiger-stripe' texture w/ actin as stripes in diopside; towards bottom arspy/cpy occur as scattered blebs and cubes as well as in veinlets and actin. patches described for 689.0-709.0'; minor po is present as well; scattered sulphides may be assoc. w/ sheeted veinlets.							

Scale

Colour Plot & Dips

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Drill Hole Record

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Property	District	Hole No. JC 81-9	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	360°	-80°		762'		

Footage From	Footage To	Description	Sample No.	Length	Analysis Cu	WO3	Sn	Ag	Au
729.0	745.0	QUARTZITE							
		Small section of f. gr. mauve-coloured and grayish-green QTZITE; small included sections of	SR0041	729.0 736.0	<0.01	<0.01	0.01	0.01	<0.003
		pinkish/greenish banded cherty CALC-SILICATE interbanded w/ mauve-coloured QTZITE; somewhat	SR0042	736.0 745.0	<0.01	<0.01	<0.01	<0.01	<0.003
		shattered or brecciated in parts; some dissem. py/arspy as fine xls on joints and fractures;							
745.0	762.0	QTZ. MONZONITE	SR0043	745.0 752.0	<0.01	<0.01	<0.01	<0.01	<0.003
		Pale brown-buff to pale greenish; f. gr. (aug. less than 1mm); in greenish sections biotite	SR0044	752.0 757.0	<0.01	<0.01	<0.01	<0.01	<0.003
		as small flakes less than 1mm seems largely sltered to chlorite; bio is not readily visible in	SR0045	757.0 762.0	<0.01	<0.01	<0.01	<0.01	<0.003
		brownish sections except as occasional larger (2-3mm) flakes; occasional steep angled tourm.c							
		coated fractures; some joints w/ talcose coatings; frquent glassy gray qtz. eyes up to 4-5mm;							
		top of section may be fluoritic(?); small sections resemble relatively unaltered grayish granite.							
		E.O.H. 762'							
		Dip tests @412' 80°							
		@754' 77.5°							

211-943