Drill Hole Record

Scale

Colour Plot & Dips

Cominco

Property	JC Property	District	Watson Lake M.D.	Hole No.	JC 81-7
Commenced	24 July 1981	Location	Yukon Territory	Tests at	Hor. Comp.
Completed	26 July 1981	Core Size	BQ	Corr. Dip 90^{o}	Vert. Comp.
Co-ordinates	83 + 84E 97 + 12S			True Brg.	Logged by G.D.L.
Objective	Test skarn horizon for Sn mineralization.			% Recov.	Date 30 July 1981

Claim: JC
T Brg.: VERTICAL
Collar Dip: ·
Elev.: +138.1'
Length: 375'

Footage From	To	Description	Sample No.	Length	Cu	WO3	Sn	Ag	Au
0.0	10.0	CASING							
10.0	187.0	QUARTZITE							
		Pale green-gray to mauve coloured; fine grained; mauve coloured sections may have small wh. 'phenocrysts' (1mm); small scale fine compositional banding is often apparent in mauve-coloured sections; py as blebs of a few mm and w/ chlorite in qtz. 'sweats'; some sections sl. magnetic, probably due to dissem po; occasional bands show chlorite- or biotite-rich banding; a few small (5cm) irregular inclusions of cherty pink/greenish calc-silicate at 15' and 22.5' occasional larger (3mm) blebs of magnetic po; ranges from massive to distinctly banded;							
		Core angle @ 44' 28^{o}							
		77.0-78.0 Small section of LAPILLI TUFF(?); dark gray green to mauve coloured QTZITIC rock; rounded frags of po/py/qtz. elongate parallel to vague banding; frags up to 3cm long and 5mm wide; also smaller, rounded but more equidiminsional frags of gray qtzitic material;							
		Core angle @ 117' 33^{o}							

211-9437

Drill Hole Record

Cominco

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Colour Plot & Dips

Property	District	Hole No. JC 81-7	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim: JC
T Brg.: VERTICAL
Collar Dip:
Elev.: 4738.1'
Length: 375'
Hole No.
Sheet

Footage From	To	Description	Sample No.	Length	Analysis Cu	WO3	Sn	Ag	Au
		;gray-green QTZITE tends to be quite massive whereas mauve-coloured sections are usually well	97931	162.0 172.0	<0.01	0.01	0.02	<0.01	<0.003
		blended.	97932	172.0 182.0	<0.01	0.01	0.01	0.01	<0.003
			97933	182.0 187.0	<0.01	0.01	0.01	<0.01	<0.003
		147'-187' Zone of low core recovery/broken core.							
187.0	208.0	DIOPSIDE SKARN	97934	187.0 191.0	0.01	0.52	0.04	0.06	<0.003
		Largely very fine-grained siliceous diopside skarn; ple green; often massive but usually	97935	191.0 196.0	0.01	0.02	0.01	0.02	<0.003
		shows parallel to subparallel bands of either pale pink-red garnet or dark green actinolite;	97936	196.0 201.0	<0.01	0.18	0.05	0.07	<0.003
		these bands are usually a few mm wide and may be spotty or patchy; some garnet may be very pale,	97937	201.0 206.0	<0.01	0.06	0.04	0.04	<0.003
		almost white; a few white calcite bands and small stringers; may contain small blebs of py or	97938	206.0 208.0	0.04	0.01	0.08	0.09	<0.003
		arspy.							
		187.5-191.0 Beryl/fluorite/tourmaline vein; eahedral pale green beryl (aug. 3mm length), black							
		tourm. (aug. 3mm); purplish fluorite interstitial to beryl/tourm.; coarse (2-3mm) pale pink or							
		flesh coulured garnet in close paragenesis w/ tourm.; upper 1' cuts massive DIOPSIDE SKARN							
		(epidote may be present); tr. moly as 1-2mm flakes w/ beryl/fluorite; large milky wh. prismatic							
		qtz. (or beryl) xls (3mm) are also present; thin (less than 1mm) rims of moly surround rounded							
		2-3mm grains of pale flesh-coloured garnet assoc. w/ tourm; last 1' has very coarse pink garnet							
		w/ small (1-2mm) specks of black tourm. (?).							

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Colour Plot & Dips

Cominco

Property	District	Hole No. JC 81-7	
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	Sheet
JC	VERTICAL		4738.1'	375'	

Footage From	Footage To	Description	Sample No.	Length	Analysis Cu	WO_3	Sn	Ag	Au
		Core angle @ 200' 35°							
		208.0' 3cm po vein w/ lesser py, cpy in fluoritic matrix.							
208.0	324.5	SPOTTED SKARN							
		Pale yellowish-green garnet-diopside(?) skarn; main constituants difficult to identify but	97939	208.0 213.0	<0.01	0.01	0.19	0.07	<0.003
		rock may contain epidote as well; aug. grain size seems to be about 3mm; 'spots' are irregular	97940	213.0 218.0	<0.01	0.01	0.15	0.07	<0.003
		w/ numerous angular sides and range up to 1cm large; spots minerals include dark-green actinolite							
		white sparry calcite; waxy green euhedral axinite(?) up to several mm; prismatic black tourmal-							
		ine; po/arspy/cpy and minor py occur frequently as irregular but subparallel bands of small							
		(1-3mm) grains and blebs, often associated w/ actinolite; sulphides also occur in typical black							
		(tourm.(?)) sulphide bands w/ fluorite; occasional larger (few cm.) patches of act.							
		218.0-220.0 Numerous po/cpy/arspy bands w/ fluorite 'spots'	97941	218.0 220.0	0.79	0.01	0.10	0.29	<0.003
		220.0-237.0 ALTERED BRECCIA	97942	220.0 224.0	0.12	0.02	0.25	0.15	<0.003
		Greenish-brown to yellowish green, very soft, crumbly 'rotted' looking breccia zone; con-	97943	224.0 228.0	0.05	0.02	0.15	0.09	<0.003
		tains angular frags of SPOTTED SKARN as well as frags. of white calcite and tourmaline; still	97944	228.0 232.0	0.02	0.01	0.10	0.08	<0.003
		contains characteristic sulphides; intact 'graphic' calcite vein (3cm) @ 222'; 10cm of brecciated	97945	232.0 237.0	0.01	0.02	0.07	0.09	<0.003
		'graphic' calcite tourm. (remnant of vein(?)) at 232' ; frags are angular and aug. about 5mm;							

Drill Hole Record

Scale

Colour Plot & Dips

Cominco

Property	District	Hole No. JC 81-7	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim JC · T Brg. VERTICAL · Collar Dip · Elev. 4738.1' · Length 375'

Footage From	Footage To	Description	Sample No.	Length	Cu	WO3	Sn	Ag	Au
		below 234' rock is only slightly brecciated and has typical SPOTTED SKARN texture but retains a							
		greenish-brown 'bleached and rotted' look; tourmaline (serpentine(??)) occurs as a shiny slick-	97946	237.0 240.0	0.14	0.01	0.07	0.13	<0.003
		enside-like coating on some joints.							
		240.0-246.0 Po/cpy/arspy in patches w/ actin throughout this section	97947	240.0 243.0	0.26	0.01	0.27	0.23	<0.003
			97948	243.0 246.0	0.26	0.01	0.24	0.25	<0.003
		;occasional qtz. bands @ approx. 0-10° w/ py and chlor(??) between 250.0-256.0;	97949	246.0 251.0	0.09	0.01	0.17	0.15	<0.003
			97950	251.0 256.0	0.04	0.03	0.23	0.11	<0.003
		256.5-257.5 Section which has same 'rotted' look as 220.0-237.0 with only slight brecciation;	97951	256.0 262.0	<0.01	0.11	0.12	0.10	<0.003
		calcite stringers.							
		262.0-304.0 Section of altered SPOTTED SKARN; rock das similar colouration to 220.0-237.0 but	97952	262.0 267.0	<0.01	0.01	0.14	0.09	<0.003
		is not crumbly or extensively brecciated; joint planes often show tourmaline (serpentine(??))	97953	267.0 272.0	<0.01	0.01	0.15	0.08	<0.003
		slickenside-like coating; thin wh. calcite stringers are quite common; small sections consist	97954	272.0 277.0	<0.01	0.03	0.11	0.07	<0.003
		of relatively 'fresh' SPOTTED SKARN; most fracture surfaces are coated w/ black 'coaly' tourm(?)	97955	277.0 282.0	<0.01	0.03	0.07	0.07	<0.003
		some sections are f. gr. DIOPSIDE SKARN more similar to 187.0-208.0.	97956	282.0 287.0	<0.01	0.03	0.05	0.05	<0.003
			97957	292.0 292.0	0.03	0.01	0.07	0.07	<0.003
			97958	296.0 296.0	<0.01	0.02	0.03	0.02	<0.003
			97959	300.0 300.0	<0.01	0.01	0.07	0.03	<0.003
			97960	304.0	<0.01	0.04	0.04	0.05	<0.003
			97961	304.0 308.0	0.01	0.11	0.07	0.07	<0.003

211-8437

Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Property | District | Hole No. JC 81-7

Commenced | Location | Tests at | Hor. Comp.

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

Co-ordinates | True Brg. | Logged by

Objective | % Recov. | Date

Claim: JC | T Brg.: VERTICAL | Collar Dip: - | Elev.: 4738.1' | Length: 375'

Footage From	Footage To	Description	Sample No.	Length	Analysis: Cu	WO3	Sn	Ag	Au
		304.0-308.0 Fluorite-rich skarn; finer gr. diopside skarn 'floating' in 40-50% purplish to white fluorite.							
		308' 1cm tourm/actin vein @ 80°; contains coarse euhedral arspy (aug. 3mm) seemingly concentra-	97962	308.0 313.0	0.03	0.04	0.13	0.09	<0.003
		ted along selvage; minor calcite; surrounding skarn is still somewhat fluoritic.	97963	313.0 318.0	0.01	0.07	0.15	0.09	<0.003
			97964	318.0 324.5	0.02	0.06	0.14	0.17	<0.003
		;below 308.0' actin. becomes more common in large patches.							
		312.0' 4mm py/arspy/cpy/fluorite vein @ 80°							
		319.0-320.0 Fluoritic (25%) rock similar to 304.0-308.0							

211-9437

Drill Hole Record

Scale

Colour Plot & Dips

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Property	District	Hole No. JC 81-7	
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	Sheet / Hole No.
JC	VERTCAL	·	4,738.1'	375'	

Footage From	To	Description	Sample No.	Length	Analysis Cu	WO_3	Sn	Ag	Au
324.5	375.0	QTZ. MONZONITE	97565	324.5 330.0	<0.01	0.03	0.02	<0.01	<0.003
		Very pale greenish to gray granite; aug. grain size 1mm; biotite less than 2% as very	97566	330.0 335.0	<0.01	0.02	0.01	<0.01	<0.003
		small black laths, often seems altered to chlorite; biotite more plentiful (5-10%) in some	97567	335.0 340.0	0.01	<0.01	0.03	0.02	<0.003
		sections; yellowish discolouration (greisen?) about 1cm wide follows steep angle, often tourm-	97568	340.0 345.0	<0.01	<0.01	0.01	<0.01	<0.003
		alinated, fractures; occasional large squarish yellowish feld. phenos. up to 1cm; rounded grayish	97569	345.0 350.0	<0.01	<0.01	0.01	<0.01	<0.005
		qtz. eyes quite sommon (aug. 3-4mm); feld phenos sometimes wholly or partially altered to green	97570	350.0 355.0	<0.01	<0.01	<0.01	<0.01	<0.003
		talcose mineral; tracr f. gr. arspy; towards bottom of hole large sections may be yellowish in	97571	355.0 360.0	<0.01	<0.01	<0.01	<0.01	<0.003
		colour, emphasizing the presence of feld. phenos and qtz. eyes; tourm. joints @ 75-80^{0}; tourm.	97572	360.0 365.0	<0.01	0.01	<0.01	<0.01	<0.003
		fractures often carry mnr. arspy.	97573	365.0 370.0	<0.01	0.02	<0.01	<0.01	<0.003
			97574	370.0 375.0	<0.01	0.08	0.03	<0.01	<0.003
		E.O.H. 375'							
		Dip test @ 375' 90^{0}							