Drill Hole Record

COMINCO

Scale

Colour Plot & Dips

Property	JC Property	District	Watson Lake M.D.	Hole No.	JC 81-8
Commenced	27 JULY 1981	Location	Yukon Territory	Tests at	Hor. Comp.
Completed	29 JULY 1981	Core Size	BQ	Corr. Dip 90°	Vert. Comp.
Co-ordinates	79 + 95E 97 + 10S			True Brg.	Logged by G.D.L.
Objective	Test skarn horizon for Sn mineralization.			% Recov.	Date 31 July 1981

Claim JC | T Brg. | Collar Dip 90° | Elev. 4781' | Length 342'

Footage From	To	Description	Sample No.	Length	Analysis
0.0	10.0	CASING			
10.0	93.0	QUARTZITE			
		Gray-green to mauve; f. gr. ; often has fine irregular but subparallel banding; py and magnetic po common as small blebs or, occasionally, as disseminations; occasional milky white qtz. 'sweats' of a few cm are ofgen chloritic; some zones of 'shattering' or very weak brecciation; grayish quartzite is more prone to be massive (no banding visible); more massive sections of mauve-coloured QTZITE may show 1-2mm brown biotite specks; greenish sections may show fine specks of sericite (?); rare 1-3mm grains of pale red garnet; qtz. 'sweats' often contain sulphides (po/py)			
		Core angle @ 60' 25°			
		Core angle @ 83' 23°			
93.0	98.0	BIOTITE Q.F.P.			
		Bluish-gray; bluish wh. roundish qtz. eyes from 1-4mm; feldspar is whitish and finer grained speckled w/brownish fiotite as 1-2mm laths; has irreg. melted looking upper boundary w/quartzite; some question as to whether this is a true porphyry or merely a hornfelsed equivalent of the mauve-coloured (argillaceous) QUARTZITE.			

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Drill Hole Record

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Property | District | Hole No. JC 81-8

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. | Collar Dip 90° | Elev. 4981' | Length 342' | Sheet No.

Footage From	Footage To	Description	Sample No.	Length	Analysis Cu	WO_3	Sn	Ag	Au
98.0	187.0	QUARTZITE	97975	177.0 182.0	<0.01	0.02	<0.01	0.01	<0.003
		cf. 10.0-93.0; toward bottom of hole some sections may contain f. gr. black biotite;	97976	182.0 187.0	0.01	0.02	<0.01	0.01	<0.003
		140.5-143.5 Mauve-coloured QTZITE w/well developed 3-4mm long laths of brown biotite; another small section at 150.5-151.5.							
		182.5 4cm sill or dyke of pale greenish wh. GRANITE; aug. grain size 2mm; biotite about 5% as 2-4mm flakes; cf. 187.0-189.0.							
187.0	189.0	QTZ. MONZONITE(?)	97977	187.0 189.0	0.01	0.02	<0.01	0.02	<0.003
		White w/ a pale greenish tinge; rounded grayish glassy qtz. grains aug. 2mm (about 30%); biotite as dark brownish black clusters of flakes of 4-5mm; greenish tinge may be chloritic alteration of biotite; soft, seems bleached or altered; fluoritic(?).							
189.0	199.0	QUARTZITE (CALC-SILICATE)	97978	189.0 194.0	<0.01	0.01	<0.01	0.01	0.004
		Banded gray-green to mauve QTZITE; often biotitic, sometimes chloritic; increasing amount of calcareous material towards bottom resulting in cherty pinkish or greenish banded sections;	97979	194.0 199.0	<0.01	0.01	0.01	0.01	<0.003

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Claim JC | T Brg. | Collar Dip 90° | Elev. 4781' | Length 342' | Hole No. | Sheet

Footage From	Footage To	Description	Sample No.	Length	Cu	WO3	Sn	Ag	Au
		194.0' 20cm vein of coarse bladed violet axinite (1cm crystals); also contains minor fine grained epidute(?) and actinolite(??) as well as calcite.							
		198.0-199.0 Section of GRANITE similar to 187.0 - 189.0 but slightly coarser grained, contains a narrow vein of purplish axinite which seems to envelope remnant qtz. grains from the granite							
199.0	211.0	SPOTTED SKARN	97980	199.0 202.0	<0.01	0.02	0.20	0.09	<0.003
		Patchy light green-pale pink/red garnet-diopside skarn; contains many sided angular spots	97981	202.0 205.0	0.03	0.07	0.18	0.08	<0.00
		of a few mm to several cm; spots may contain varying amounts of dark green actinolite, wh. sparry	97982	205.0 209.0	0.13	0.01	0.09	0.19	<0.003
		calcite and occasionally tourmaline; coarse gr. arspy may also occur in 'spots' with or without	97983	209.0 211.0	<0.01	0.03	0.20	0.05	<0.003
		other minerals; minor amounts of cpy also occur in this manner; main body if this unit may also contain small amount of epidote(?); major constituents are varying amounts of pale pink-red garnet and finer grained diopside; larger spots also contain pale purple-gray fluorite; some spots or patches w/actin. also contain significant masses of f. gr. magn.;							
		205.0-205.75 Band of 85% coarse (approx. 2mm) granular magn; irreg. rounded pale pastel yellow garnets(?); very minor actin., fluorite(?)							
		280.0' 6cm band of granular magn. w/ calcite, cpy, actin, epidote(?) as minor constituents							
		208.5 10cm band w/ same mineralogy as above but only 65% granular (2-4mm) magn.							

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Property | District | Hole No. JC 81-8

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. | Collar Dip: 90° | Elev.: 4781' | Length: 342' | Hole No. | Sheet

Footage From	Footage To	Description	Sample No.	Length	Cu	WO3	Sn	Ag	Au
211.0	246.5	DIOPSIDE SKARN	97984	211.0 213.5	<0.01	0.04	0.01	0.05	<0.003
		Fine gr., light green diopside-bearing skarn; quite siliceous looking; very pale pink-red	97985	213.5 215.5	0.03	0.13	0.02	0.15	<0.003
		garnets in scattered rounded grains (1-4mm) comprise about 5%; small patches of darker green							
		actinolite but lacks 'spot' texture;							
		211.0-215.5 Retains pinkish-greenish banding of CALC-SILICATE but is more deeply coloured;	97986	215.5 218.5	0.02	0.01	0.02	0.06	<0.003
		bottom 2' has rusty irregular calcitic banding							
		;below 218.5 rock contains varying proportions of po/cpy/arspy w/pale violet-gray fluorite;	97987	218.5 223.0	0.25	0.02	0.04	0.19	<0.003
		sulphides and silicate minerals often seem to 'float' in a matrix of up to 35% fluorite; po is	97988	223.0 226.0	0.42	0.03	0.01	0.19	<0.003
		the major sulphide w/long sections of up to 85-90% po; arspy up to 10% as often large euhedral	97989	226.0 231.0	0.33	0.05	<0.01	0.15	<0.003
		grains; minor cpy and py; major gangue minerals are fluorite and diopside; py rarely forms wide	97990	231.0 237.0	.29	0.06	<0.01	0.11	<0.003
		bands (1-2cm); contains some vertical tourm coated fractures.	97991	237.0 241.0	0.44	0.06	0.09	0.15	<0.003
			97992	241.0 243.5	0.07	0.03	0.09	0.04	<0.003
		241.0-243.5 Actinolite-rich section w/ bands of f. gr. magn and arspy at centre; lighter							
		coloured sections at top and bottom resemble pale SPOTTED SKARN.							
		245.0' Thin (1.5cm) band of f. gr. magn in po-bearing skarn.	97993	243.5 246.5	0.13	<0.01	0.07	0.15	<0.003

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Colour Plot & Dips

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Property	District	Hole No. JC 81-8	
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
JC		90°	4781′	342′

Footage From	Footage To	Description	Sample No.	Length	Analysis Cu	WO3	Sn	Ag	Au
246.5	269.0	SPOTTED SKARN							
		Similar mineralogy / textures to 199.0-211.0 but often very pale coloured;							
		246.5-249.0 Pale SPOTTED SKARN w/ thin (5-10mm) bands of f. gr. magnetite; dark green actinolite	97994	246.5–249.5	0.13	<0.01	0.21	0.16	<0.003
		w/ magn; minor blebs of cyp; thin (2mm) vertical 'graphic' calcite vein;	97995	249.5–254.0	0.15	0.02	0.07	0.10	<0.003
			97996	254.0–259.0	<0.01	0.01	0.11	0.08	<0.003
			97997	259.0–264.0	<0.01	0.03	0.19	0.06	<0.003
		;occasional thin bands of magn. and/or actinolite	97998	264.0–269.0	<0.01	0.02	0.19	0.07	<0.003
		255.0-255.5 Pale green, coarse grain (aug. 3mm) fluorite vein.							
269.0	272.5	AMYGDALOIDAL BASALT							
		Black to dark brown; f. gr.; rounded calcite-filled amygdules up to 5mm; some amygdules	97999	269.0–272.5	<0.01	0.03	<0.01	0.05	<0.003
		filled w/ soft f. gr. black material; small 1mm play laths; tiny balck 'glassy' grains; whole							
		unit is weakly magnetic; thin wh. calcite stringers.							
272.5	273.5	SPOTTED SKARN							
		cf. 246.5-269.0 but seems altered by BASALT	98000	272.5–273.5	<0.01	0.02	0.12	0.06	<0.003

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Colour Plot & Dips

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Property		District		Hole No.	JC 81-8
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
JC		90°	4781'	342'		

Footage From	Footage To	Description	Sample No.	Length	Cu	WO3	Sn	Ag	Au
273.5	282.0	AMYGDALOIDAL BASALT	SR0001	273.5 282.0	<0.01	<0.01	<0.01	0.03	<0.003
		cf. 269.0-272.5; contacts of both sections show thin bands of tectonic breccia; lowermost							
		contact @ approx. 45°							
282.0	289.5	DIOPSIDE SKARN							
		Green, f. gr. diopside-bearing skarn; siliceous; whole section is similar to 211.0-215.5	SR0002	282.0 289.5	<0.01	0.02	0.03	0.04	<0.003
		retaining cherty pinkish and greenish bands which may be a relict CALC-SILICATE texture; no vis-							
		ible sulphide or magnetite mineralization;							
289.0	311.0	SPOTTED SKARN	Sr0003	289.5 295.0	<0.01	<0.01	0.14	0.07	<0.003
		Very pale SPOTTED garnet-diopside skarn; similar mineralogy / texture to 199.0-211.0 w/	SR0004	295.0 300.0	<0.01	<0.01	0.14	0.07	0.006
		the exception that magnetite or sulphide mnlzation is not readily visible; most spots are actin-	SR0005	300.0 306.5	<0.01	<0.01	0.08	0.03	<0.003
		olite;	SR0006	306.5 311.0	<0.01	<0.01	0.12	0.07	<0.003
		306.5-307.5 Small section of AMYGDALOIDAL BASALT cf. 273.5-283.0; blocky angular contacts;							
		small section again at 308.0							

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Drill Hole Rec ~d

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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. | Collar Dip. 90° | Elev. 4781' | Length 342' | Hole No. | Sheet

Footage From	Footage To	Description	Sample No.	Length	Analysis Cu	WO3	Sn	Ag	Au
		;skarn below 308.0 seems rusty and altered; last 0.5' is fragment supported tectonic breccia							
		containing large angular frags of skarn and QTZITE(?)							
311.0	342.0	QTZ. MONZONITE	SR0007	311.0 316.0	<0.01	<0.01	<0.01	<0.01	<0.003
		Brownish to grayish; f. gr. (aug. grain size 1mm); biotite as small (1mm) black laths (less	SR0008	316.0 321.0	<0.01	<0.01	<0.01	<0.01	<0.003
		than 5%); occasional rounded gray qtz. eyes up to 5mm; very qtz. rich (70%(??)); top 15' of	SR0009	321.0 326.0	<0.01	<0.01	<0.01	<0.01	<0.003
		hole is extremely crumbly; a few thin, near vertical tourmalinated fractures; talcose coatings	SR0010	326.0 331.0	<0.01	<0.01	<0.01	<0.01	<0.003
		on some joint planes; a few small pegmatitic qtz./tourm. veins at high angle to core.	SR0011	331.0 336.0	<0.01	<0.01	<0.01	<0.01	<0.003
			SR0012	336.0 342.0	<0.01	<0.01	<0.01	<0.01	<0.003