Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

896529

Property	VALLEY COPPER	District	Highland Valley	Hole No.	Rim 69-1
Commenced	August 9, 1969	Location		Tests at	Tropari @ 790'
Completed	August 26, 1969	Core Size	N.Q.	Corr. Dip	-49°
Co-ordinates	North 100, 434.09 East 106, 723.49			True Brg.	257° 30'
Objective				% Recov.	89.9%

Hor. Comp.

Vert. Comp.

Logged by RFN

Date Aug. 12-26/69.

Claim | T Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Footage From	Footage To	Description Mineralization		Sample No.	Length	Analysis
940	950	0.12% Cu	0.0023			
	960	0.08	0020			
	970	0.05	0098			
	980	0.12	0052			
	990	0.08	0024			
	1000	0.05	0031			
	1010	0.12	0010			
	1020	0.12	0010			
	1030	0.03	0013			

211-9437—H.P.

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	Highland Valley	Hole No.	Rim 69-1
Commenced	Aug. 9, 1969.	Location	Lake Zone	Tests at	Tropari @ 790'
Completed	Aug. 26, 1969.	Core Size	NQ.	Corr. Dip	-49°
Co-ordinates				True Brg.	257.5
Objective	Define border of ore zone.			% Recov.	89.9%

Hor. Comp.

Vert. Comp.

Logged by RFN

Date Aug. 12-26/69.

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
AL-2 Frac.	257.5°	-45°		1031'	Rim 69-1	1

Footage From	Footage To	Description	Sample No.	Length	Analysis Cu	Analysis Mo			
0	81	Overburden.	30401	10'	.39	.0017	81	90	9
		No oxidized zone encountered.	02	10'	.19	.056	90	100	5
81	120	Bethsaida quartz diorite. Moderate kaolinization grading to intense in patches. Mafics chloritic	to 03	10'	.54	.0075	100	110	7.5
		sericitic. Orthoclase and possibly hematized plag. up to 5% along fracs. Sericite well developed	04	10'	.44	.0049	110	120	10
		on borders of qtz. veins and on fracs. Abundant bornite in the sericite and qtz. Cpy. also	05	10'	.65	.0043	120	130	10
		present. Qtz. vein up to 1/1½ or core.	06	10'	.44	.0079	130	140	8.5
		82 - 85' Patches of emerald green sericite.	07	10'	.51	.0014	140	150	7.5
		91' - 2" qtz. vein @ 45° abundant MoS_2 on fracs. in vein, also cpy. and some bornite.	08	10'	.51	.0026	150	160	10
		103' - Emerald green sericite - with disseminated cpy. Qtz. vein with predominantly cpy.	09	10'	.97	.0008	160	170	6.5
		@ 45°.	10	10'	.41	.0016	170	180	8.5
120	274	Bethsaida quartz diorite with intense kaolinization of the plag. Sericite very well developed	11	10'	.60	.0038	180	190	10
		along qtz. vein borders (2-3") and also on fracs. (up to 4/ft.). Bornite is the predominant	12	10'	.53	.0026	190	200	8.5
		Cu sulphide and is widespread; also minor cpy.	13	10'	.67	.0039	200	210	8.5
		Qtz. veining up to 1/ft. of ten the attitude is parallel to 10° to the core axis.	14	10'	.44	.0008	210	220	9.5
		45° is the main fracture attitude. Ortho. present along fracs. and qtz. veins (up to 5%). Mafics	15	10'	.60	.0020	220	230	9.0
		generally sericitic - some remain fresh to chloritic.	16	10'	.29	.0006	230	240	2.0
		164 - 174' Extremely intense sericite.	17	10'	.52	.0008	240	250	3.0
		171-172.5' Qtz. vein - abundant coarse cpy., minor MoS_2 and bornite.	18	10'	.61	.0033	250	260	7.0
		188 - 193' Slight to moderate kaolinization and plag. Mafics fresh to chloritic.	19	10'	.45	.0028	260	270	8.0
		203 - 211' Moderate grading to intense kaolinization of plag.	20	10'	.36	.0099	270	280	9.5
		263 - 264' Shear - core broken, crumbly.	21	10'	.55	.016	280	290	9.5
		268' - Shear @ 55° gouge.	22	10'	.21	.017	290	300	9.5

211-9437—H.P.

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	Highland Valley	Hole No.	69-1
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Sheet 2

Hole No. Rim 69-1

Claim	T Brg.	Collar Dip	Elev.	Length

Footage From	Footage To	Description	Sample No.	Length	Analysis Cu	Analysis Mo				
120	274	(continued).	30423	10'	.42	.0068	300	310	10	
		269, 271, 273.5' Shears with up to 2" gouge.	24	10'	.44	.0035	310	320	9.0	
		273' 1" qtz. vein - blebs of bornite and some cpy.	25	10'	.34	.0027	320	330	8.5	
274	324	Bethsaida quartz diorite. Only slight alteration of the feldspars. Mafics fresh to somewhat	26	10'	.14	.0025	330	340	9.0	
		chloritic. Qtz. veining variable from one every 1 to 2 ft. Sericitic fractures 3 to 4/ft.	27	10'	.22	.0091	340	350	7.5	
		Ortho 10-15% on fracs.	28	10'	.15	.0071	350	360	9.0	
		Bornite common in seric. fracs. and in qtz. veins. Cpy. pyrite also present. Main attitude	29	10'	.16	.0049	360	370	7.5	
		of fracs and veins is 45°.	30	10'	.38	.0040	370	380	9.5	
		283 - 285' ½" qtz. vein @ 0.5° to core. Sericitic border up to 2" wide.	31	10'	.28	.0053	380	390	9.5	
		298' - 1" pink aphanitic dykelet.	32	10'	.34	.0050	390	400	9.5	
		303' - Emerald green sericite.	33	10'	.12	.0027	490	410	7.0	
		305' - 1" pink aphanitic dykelet.	34	10'	.28	.0045	410	420	9.5	
		317' - Texture shows slight foliation.	35	10'	.33	.0086	420	430	9.0	
		323 - 324' Contact zone between Bethsaida qtz. diorite and porphyry phase.	36	10'	.34	.017	430	440	8.0	
324	344	Porphyritic phase of the Bethsaida qtz. diorite - appears unaltered. Large often euhedral qtz.	37	10'	.44	.0098	440	450	10.0	
		eyes (up to ½") 10%. Rectangular phenocrysts up to (1/5") 20-25%.	38	10'	.30	.0015	450	460	10.0	
		Mafics small and peppered throughout. 5%. Remainder is a medium green aphanitic groundmass.	39	10'	.34	.0047	460	470	8.5	
		Qtz. veining up to 1/ft. - very little sericite developed.	40	10'	.36	.0045	470	480	10.0	
344	353	Bethsaida qtz. diorite mainly moderately altered.	41	10'	.35	.020	480	490	9.0	
		347 - 348' Intense kaolinization.	42	10'	.19	.0095	490	500	10.0	
353	435	Porphyritic phase of Bethsaida qtz. diorite (same as 324-344').								
		353' - Contact between Bethsaida qtz. diorite and porph. phase - indistinct possible @ 60°								
		Bethsaida qtz. diorite above contact has slight foliation.								

211-9437—H.P.

Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	Highland Valley
Hole No.	69-1 Rim		
Commenced		Location	
Tests at		Hor. Comp.	
Completed		Core Size	
Corr. Dip		Vert. Comp.	
Co-ordinates		True Brg.	
Logged by			
Objective		% Recov.	
Date			

Sheet 3

Hole No. Rim 69-1

Claim | T Brg. | Collar Dip | Elev. | Length

Footage From	Footage To	Description	Sample No.	Length	Analysis
353	435	(continued)			
		373 - 406' Porph. phase displays predominant intense kaolinization of felds. phenocrysts.			
		Aphanitic groundmass - tan - green.			
		371-378' 1" qtz. vein parallels core very thin sericitic border, bornite throughout.			
		382-391' Very intense kaolinization.			
		395' Qtz. vein with ½" offset. Slickenside on frac. @ 25° (across frac. face @ 40°).			
		429 - 435' Rock oscillates between purple phase and regular Bethsaida qtz. diorite.			
435	444	Pink "aplitic" zone K-spar pervasive in patches.			
444	541	Bethsaida qtz. diorite. Rock is fresh to only slightly altered. Mafics fresh to chloritic.			
		Qtz. veining very scarce, 1 every 5-10 feet. Fracturing also sparse with minor sericite			
		developed along them.			
		457 - 463' 4 qtz. veins or blebs of bornite up to ½". Some cpy. also. Sericitic borders up			
		to ½" wide. Veins @ 0-10° to core axis.			
		476' - Qtz. vein @ 10°, ½" sericitic border - blebs of bornite.			
		479' - Core crumbly - shear.			
		481' - Bethsaida qtz. diorite has intense alteration.			
		490 - 491.5' Shear? Emerald green sericite - qtz. vein with ½" wide stringer of chalco.			
		Possible MoS_2.			
		499 - 519' Flag. altered to moderate kaolinization - pale green to cream, just scratched by			
		knife. Mafics sericitic grading to fresh.			
		503-506' Patches of dark brown hematite (?) surrounding qtz. wedges, possibly some mix			
		epidote also.			

211-9437—H.P.

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property VALLEY COPPER	District Highland Valley	Hole No. Rim 69-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Sheet 4

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.
					Rim 69-1

Footage From	Footage To	Description	Sample No.	Length	Analysis Cu	Analysis Mo			
444	541	(continued)	30443	10'	.23	.0022	500	510	9.5
		510' - Qtz. vein @ 20° blebs of bornite & cpy.	44	10'	.14	.0026	510	520	10.0
		532' - Qtz. vein @ 10° moderate sericite developed, bornite and cpy.	45	10'	.07	.0038	520	530	10.0
		535 - 541' Starting to become intensely kaolinized, mafics to sericite.	46	10'	.18	.0056	530	540	9.0
541	908	Fresh to only slightly altered. Bethsaida. Alteration increases locally along fractures and	47	10'	.16	.0049	540	550	10.0
		very occasional qtz. veins. Minor ortho. along fractures.	48	10'	.07	.0050	550	560	9.0
		Mineralization is limited to sericitic fractures and a few scattered qtz. veins (up to 4/ft.)	49	10'	.15	.0069	560	570	10.0
		Very minor mineralization on cleavage planes of the biotite. Bornite cpy. With depth sericite	50	10'	.09	.0063	570	580	8.0
		becomes less, qtz. veins 1 every 5 feet and cpy. becomes more dominant.	51	10'	.13	.0017	580	590	8.0
		Main attitude (sericitic fractures and hairline fracture swarms) 40-45°.	52	10'	.14	.011	590	600	6.0
		563' - ¼" qtz. vein @ 50° MoS_2 along borders.	53	10'	.16	.024	600	610	10.0
		563½' - Pink aphanitic dykelet @ 30°.	54	10'	.11	.0071	610	620	9.0
		564½' - Qtz.-sericite veinlet - disseminated cpy. and small specs of MoS_2.	55	10'	.04	.0014	620	630	10.0
		Approx. 1' of intense kaolinization assoc. with this veinlet.	56	10'	.10	.0071	630	640	10.0
		568 - 569' 2 qtz. veins @ 30° minor sericite - bn. - cpy.	57	10'	.14	.0054	640	650	10.0
		577' - Shear @ 70° ½" gouge - core crumbly with minor emerald green sericite present.	58	10'	.17	.018	650	660	8.5
		578' - Qtz. vein with shear - minor MoS_2(?).	59	10'	.07	.0022	660	670	10.0
		583' - Shear @ low angle (30°?) minor gouge. Qtz. vein with specs of bn.	60	10'	.25	.030	670	680	9.5
		615' - Shear (?) core broken, crumbly.	61	10'	.18	.019	680	690	9.0
		618 - 620' Orth. up to 10-15%.	62	10'	.09	.0048	690	700	10.0
		623' - Shear ¼" @ 50°.	63	10'	.31	.021	700	710	9.5
		641 - 642' Core broken - appears to be fine grained patches green epidote, contact @ 45°.	64	10'	.28	.031	710	720	8.0

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Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	Highland Valley	Hole No.	Rim 69-1
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Sheet 5

Hole No. Rim 69-1

Footage From	Footage To	Description	Sample No.	Length	Claim	T Brg.	Collar Dip	Elev.	Length	Analysis
541	908	(continued)	30465	10'	.27	.0037		720	730	9.5
		647' - 6" pink aphanitic dykelet - a few scattered specs of mafics contact @ 30°.	66	10'	.20	.0059		730	740	9.0
		Thin hairline fracs. with cpy. and bn.	67	10'	.21	.0093		740	750	10.0
		650½' - 1½" pink dykelet (as 647') contacts @ 30°.	68	10'	.24	.013		750	760	10.0
		651' - Shear @ 45°.	69	10'	.15	.0037		760	770	10.0
		652' - Bottom contact with Bethsaida - plags. intensely kaolinized.	70	10'	.06	.0042		770	780	10.0
		652 - 660' Predominantly intense kaolinization.	71	10'	.09	.0047		780	790	10.0
		654' Fault gouge attitude between 30-40°, qtz. with cpy. and minor MoS_2.	72	10'	.17	.0027		790	800	10.0
		657' Shear @ 20° slickensides @ 90° to core axis.	73	10'	.20	.0034		800	810	8.5
		675 - 688' Alteration patchy moderate to intense kaolinization. Qtz. vein approx. 1 every	74	10'	.67	.0045		810	820	8.5
		2 feet, with moderate to well developed sericitic borders. Main attitude 15-30°.	75	10'	.11	.0014		820	830	9.0
		Ortho also along fracs. and qtz. vein borders.	76	10'	.16	.0019		830	840	10.0
		Cpy. the main sulphide - MoS_2 also throughout the interval, only minor bornite.	77	10'	.13	.0039		840	850	10.0
		703 - 723' Predominantly intense kaolinization, occasionally only to moderate. Mafics	78	10'	.09	.0060		850	860	9.0
		variable - fresh to sericitic. Qtz. vein every 2', main attitude 10-20°.	79	10'	.13	.0073		860	870	7.0
		Sericite mod. to well developed in qtz. veins. Cpy pyrite > bn. MoS_2 common	80	10'	.24	.0018		870	880	8.5
		throughout. Sericitic fractures uncommon.	81	10'	.04	.0010		880	890	8.0
		705' Shear @ 10-15° ½" gouge.	82	10'	.05	.0010		890	900	8.0
		720' Shear @ 15° ½" gouge. Qtz. vein along shear has large blebs of cpy. - Minor	83	10'	.12	.0007		900	910	10.0
		MoS_2.	84	10'	.23	.0064		910	920	10.0
		734' Heavy concentration of sericite (band @ 45°). Cpy. approx= bn. Ortho. or	85	10'	.12	.012		920	930	10.0
		possibly hematized plag. around the sericitic band up to 40%.	86	10'	.13	.012		930	940	10.0

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Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	Highland Valley	Hole No.	Rim 69-1
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Sheet 6

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. Rim 69-1

Footage From	Footage To	Description	Sample No.	Length	Analysis					
541	908	(continued)	30487	10'	.12	.002	3	940	950	9.0
		761 - 762½' Intense kaolinization of plags.	88	10'	.08	.002	0	950	960	10.0
		762' Qtz. vein @ 30° - also evidence for shear (minor gouge).	89	10'	.05	.009	8	960	970	10.0
		772' - ½ - 1" pink aphanitic dykelet @ 30°, specs of biotite and hematite as streaks	90	10'	.12	.092		970	980	10.0
		in the dykelet.	91	10'	.08	.002	1	980	990	10.0
		776' - Qtz. vein with thin patch of calcite @ 30°.	92	10'	.05	.008	7	990	1000	10.0
		790 - 794' Intense kaolinization of plags.	93	10'	.12	.004	1	1000	1010	10.0
		790-792' Shears common. 30-45°.	94	10'	.12	.001	0	1010	1020	10.0
		794 - 804' Moderate kaolinization of plag. Ortho. (or hematized plag.) 5010%.	95	10'	.03	.001	3	1020	1030	11.0
		Mafics chloritic to predominantly sericitic.								
		799' Shear @ 30° ½" gouge. Brick red blotch→ hematite - also pyrite, some epidote(?)								
		804 - 820' Fault zone - gouge common. Bethsaida qtz. diorite plags. - intensely kaolinized.								
		807-811' Fault gouge. Attitude obscured, possibly between 45-60°.								
		814-815' Fault gouge. Appears to have attitude 10-15 to core. Massive cpy. (½" wide)								
		and sericite in the gouge.								
		824 - 827' Intense kaolinization.								
		826' ½" qtz. vein @ 20° (small blebs of cpy.). 1" gouge below vein attitude of								
		shear→70° to core. Shears off the qtz. vein.								
		833' - Small shear @ 70° - patches of epidote.								
		834' - Shear @ 60° - minor gouge.								
		840 - 841' Intense kaolinization.								
		840' Shear @ 50° - minor gouge.								

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	Highland Valley	Hole No.	Rim 69-1
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. Rim 69-1 | Sheet 7

Footage From	Footage To	Description	Sample No.	Length	Analysis
541	908	(continued)			
		841' Shear @ 70°, ¼" gouge also patchy, emerald green sericite adjacent to shear.			
		843 - 845' Intense kaolinization.			
		853.5-844.5' Fault gouge. 45° attitude. Minor emerald green sericite above fault contact.			
		845.5' - Patch brick red orthol- (possibly hematized plag.).			
		865' - Shear 1" gouge.			
		867½ - 873' Fault gouge. Evidence of movement @ 60 - 70° also 45°.			
		873 - 882½' Intense kaolinization - faulted zone.			
		875½ - 878' Fault gouge and/or very crumbly Bethsaida qtz. diorite.			
		Attitudes of 60° and 30-35° present.			
		875' 1" gouge @ 60°.			
		882' 3" gouge.			
		886 - 889' Gouge.			
908	1030	Predominantly fresh Bethsaida qtz. diorite. Very slight alteration adjacent to fractures - also			
		minor fractures uncommon. Qtz. veins only as noted below.			
		920 - 922' Intense kaolinization.			
		921½" 1" gouge, attitude @ 45°.			
		935 - 938' ½" qtz. vein parallel to core axis, mod. sericite borders.			
		Top half has bornite predominant over cpy., the bottom half has cpy. bornite.			
		944 - 945' Core broken - possible shear zone.			
		946 - 947' ½" qtz. vein @ 0-5° to core, mod. sericite.			
		949 - 951' ½" qtz. vein @ 0-5° to core, mod. sericite.			

211-9437—H.P.

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property VALLEY COPPER	District Highland Valley	Hole No. Rim 69-1	
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. Rim 69-1 | Sheet 8

Footage From	Footage To	Description		Sample No.	Length	Analysis
908	1030	(continued).				
		962'	Shear @ 60°, ortho. up to 40%.			
		973'	½" qtz. vein @ 45°.			
		988'	¼" qtz. vein @ 30°, minor cpy.			
		995'	¼" qtz. vein @ 45°, blebs of cpy.			
		998'	¼" qtz. vein @ 45°, bn = cpy.			
		1001'	Shear @ 30°.			
		1002' - 1003'	½" qtz. vein @ 0-5° mod. sericite - blebs of cpy.			
		1004'	Qtz. vein @ 45° appears barren.			
		1030'	Slight to mod. kaolinization.			
		END OF HOLE.				

211-9437—H.P.

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District HIGHLAND VALLEY	Hole No.	RIM 69-2	
Commenced	Aug. 12, 1969	Location Lake Zone	Tests at	500' (Tropari)	Hor. Comp.
Completed	Aug. 22, 1969	Core Size NQ	Corr. Dip	-45°	Vert. Comp.
Co-ordinates	North 100,311.10 East 106,443.12		True Brg.	256°	Logged by RFN
Objective			% Recov.	86.2%	Date Aug. 15 - 22/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
DF #1	256°	-45°	4,095.66'	550'	Rim 69-2	1

Footage From	Footage To	Description
0	68	Overburden
68	94	No oxidized zone (i.e. no malachite or limonite)
		Porphyritic phase of the Bethsaida Quartz diorite (dyke) large often euhedral
		qtz. eyes to ½" (10 - 15), rectangular phenocrysts of feldspar up to 3/10" (40%)
		mafics (biotite) small and "peppered" throughout (3 - 5%), remainder an
		aphanitic groundmass. The feldspars are moderately to intensly kaolinized and
		the mafics are predominately sericitized, main attide variable 10 - 30°,
		secondary steep 60 - 80. Narrow 1/4" q. veins common with narrow sericitic
		borders. Fracs have poorly developed sericite along them. Bornite:Chalco=1:1
		with bornite often rimming the chalco.
		93 Porphyry dyke - tan aphanitic groundmass composes up to 80% qtz.
		eyes remain.
94	151	Normal Bethsaida quartz diorite. Intense kaolinization the predominant
		alteration (felds, soft, clayey) mafics mainly sericitized.. Quartz vein
		every 2 feet with moderate development of sericite along them and on fracs.
		95 - 98 Emerald green sericite common
		97 2" q.v. at 60° (?) blebs of chalcopyrite - minor MoS_2
		99 1" q.v. at 30° chalco and MoS_2 abundant
		103 - 108 Ortho, or (hamatized plag.) up to 8% felds only moderate kaolinization
		112, 118 Shears - gouge and crumbly core. attitude gouge pass 30°
		122 Shear, gouge at 45°
		124 - 130 BQD only slightly altered. q.v.'s and fracs scarse

Sample No.	Length	Analysis Cu	Analysis Mo		
30501	12	.37	.024	68-80	12
30502	10	.26	.0063	80-90	6.5
30503	10	.25	.0110	90-100	7.5
30504	10	.21	.0058	100-110	7.5
30505	10	.31	.0140	110-120	7
30506	10	.13	.0065	120-130	7
30507	10	.15	.0036	130-140	3
30508	10	.60	.018	140-150	5
30509	10	.30	.0012	150-160	9.5
30510	10	.40	.0085	160-170	9.5
30511	10	.31	.0028	170-180	9.0
30512	10	.16	.0090	180-190	9.5
30513	10	.43	.012	190-200	9.5
30514	10	.31	.0099	200-210	5.5
30515	10	.18	.0023	210-220	7
30516	10	.25	.0023	220-230	9.5
30517	10	.17	.0029	230-240	8
30518	10	.24	.0032	240-250	8
30519	10	.15	.0060	250-260	7
30520	10	.21	.0040	260-270	9
30521	10	.17	.0031	270-280	9
30522	10	.16	.0094	280-290	10
30523	10	.16	.0080	290-300	9
30524	10	.14	.0047	300-310	9.5
30525	10	.16	.017	310-320	10
30526	10	.15	.0014	320-330	9
30527	10	.19	.035	330-340	8.5
30528	10	.25	.13	340-350	2

211-9437—H.P.

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olour Plot
Dips

Drill Hole Record

Cominco

Property	District	Hole No.	
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
					RIM 69-2	2

Footage From	To	Description	Sample No.	Length	Analysis Cu	Mo
		128 2" q.v. minor bornite, chalco	30529	10	.33	.020
135 - 151		Fault (?)	30530	10	.08	.0042
		135 - 141 (?) fault zone approx. 1' core recovered - is broken and crumbly.	30531	10	.27	.010
		144 - 145 Shear at 45° heavy sericite chalco, minor bornite and MoS_2	30532	10	.12	.0062
		145 - 151 core broken - crumbly with minor gouge	30533	10	.11	.010
151 - 188		BQD slight to mod. alteration (plag. dusted with Kaolin - cream to pale green	30534	10	.14	.013
		in colour) Still hard. Mafics fresh to chloritic. Quartz veining uncommon -	30535	10	.08	.0056
		with up to 5' between ¼" veins. Sericitic fractures also poorly developed.	30536	10	.14	.0077
		Bornite appears to be slightly more predominent than chalcopyrite.	30537	10	.10	.036
		172 - 175 epidote disseminated along fractures.	30538	10	.03	.025
188 - 263		Moderate alteration with patches grading to intense. Increase in qtz. veining to	30539	10	.07	.0039
		1 every 2 - 3 feet. Chpy - bn in q.v. Sericite becoming moderately developed	30540	10	.19	.013
		on veins and fracs. bn - chpy in serc. fracs.	30541	10	.19	.018
		197 - 199 heavy concentration of sericite with chalcopyrite, MoS_2 and minor	30542	10	.22	.012
		bornite. attitude approx. 25°	30543	10	.29	.083
		207 - 212 fault 6" core recovered gouge - crumbly	30544	10	.16	.013
		212 ground qtz. vein with abundant - chalco - minor MoS_2	30545	10	.18	.0075
		215 - 216 fault. attitude obscure - possibly low angle to core axis	30546	10	.17	.0085
		223 6" heavy cone of sericite - dissem. chpy - minor bornite.	30547	10	.09	.0060
		248 - 250 shearing - gouge - appear to be at 20°	30548	10	.33	.018
		252-254½ Fault - 2' gouge in base. attitude approx. 20°				

350-360	9
360-370	9
370-380	10
380-390	10
390-400	10
400-410	10
410-420	10
420-430	10
430-440	9
440-450	10
450-460	10
460-470	10
470-480	8.5
480-490	10
490-500	9.5
500-510	10
510-520	10
520-530	9
530-540	9.5
540-550	9.5

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Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	District	Hole No.	
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
					RIM 69-2	2

Footage From	To	Description	Sample No.	Length	Analysis Cu	Mo		
		128 2" q.v. minor bornite, chalco	30529	10	.33	.020	340-350	2
135 - 151		Fault (?)	30530	10	.08	.0042	350-360	9
		135 - 141 (?) fault zone approx. 1' core recovered - is broken and crumbly.	30531	10	.27	.010	360-370	9
		144 - 145 Shear at 45° heavy sericite chalco, minor bornite and MoS_2	30532	10	.12	.0062	370-380	10
		145 - 151 core broken - crumbly with minor gouge	30533	10	.11	.010	380-390	10
151 - 188		BQD slight to mod. alteration (plag. dusted with Kaolin - cream to pale green	30534	10	.14	.013	390-400	10
		in colour) Still hard. Mafics fresh to chloritic. Quartz veining uncommon -	30535	10	.08	.0056	400-410	10
		with up to 5' between ¼" veins. Sericitic fractures also poorly developed.	30536	10	.14	.0077	410-420	10
		Bornite appears to be slightly more predominent than chalcopyrite.	30537	10	.10	.036	420-430	10
		172 - 175 epidote disseminated along fractures.	30538	10	.03	.025	430-440	9
188 - 263		Moderate alteration with patches grading to intense. Increase in qtz. veining to	30539	10	.07	.0039	440-450	10
		1 every 2 - 3 feet. Chpy - bn in q.v. Sericite becoming moderately developed	30540	10	.19	.013	450-460	10
		on veins and fracs. bn - chpy in serc. fracs.	30541	10	.19	.018	460-470	10
		197 - 199 heavy concentration of sericite with chalcopyrite, MoS_2 and minor	30542	10	.22	.012	470-480	8.5
		bornite. attitude approx. 25°	30543	10	.29	.083	480-490	10
		207 - 212 fault 6" core recovered gouge - crumbly	30544	10	.16	.013	490-500	9.5
		212 ground qtz. vein with abundant - chalco - minor MoS_2	30545	10	.18	.0075	500-510	10
		215 - 216 fault. attitude obscure - possibly low angle to core axis	30546	10	.17	.0085	510-520	10
		223 6" heavy cone of sericite - dissem. chpy - minor bornite.	30547	10	.09	.0060	520-530	9
		248 - 250 shearing - gouge - appear to be at 20°	30548	10	.33	.018	530-540	9.5
		252-254½ Fault - 2' gouge in base. attitude approx. 20°					540-550	9.5

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	District	Hole No.	
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
					Rim 69-2	3

Footage From	Footage To	Description	Sample No.	Length	Analysis					
263	332	BQD Slight to moderate Kaolinization felds cream to pale green (clouded with Kaolin)								
		Still hard. Mafics fresh to chloritic. Quartz veins ½" or larger approx. 1 every								
		3 - 4 feet 45° main attitude. Ser. borders moderately developed. Ser. frac.								
		relatively scarce. Chalcopyrite - bornite (up to 2:1)								
		270 Emerald green sericite								
		282 6" patch intense kaolinization								
		283 ½" q.v. at 45° chalco main sulphide also bornite, minor MoS_2 in serc.								
		border								
		299 q.v. with minor MoS_2 on slip								
		299 - 302 mod. grading to intense kaolinization - ortho up to 10% dissem.								
		hematite 1 - 2%								
		304 - 306 patchy intense kaol.								
		306 ½" q.v. abundant chalco - minor MoS_2 at 35°								
		310 - 316 (+?) Intense Kaol. Pop. shear/fault area								
		320 emerald green sericite								
		324 shear at 50° local patch of intense kaolinization								
332	364	Faulted area with attendant intense kaol. of the plag. attitudes vary from								
		10 - 30° and 50° (gouge, crumbly rock common). Qtz. veins as noted below -								
		fracs main attitude at 45°.								
		334 2' qtz. vein, dark grey aphanitic bands - gouge hema(?). dark brown								
		streak. large blebs of chalco - pyrite. Minor bornite/MoS_2								
		340 - 349 1' core recovered. crumbly and broken								

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Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Property	District	Hole No.	
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
					RIM 69-2	4

Footage From	To	Description	Sample No.	Length	Analysis
		350 1" qtz. vein at 25° abundant MoS_2 on fracs in vein minor chalco, very minor bornite.			
		360 2" qtz. veins large blebs chalco shear at 0° in ven MoS_2 on shear plane			
		364 - 365 1" qtz. vein at 5 - 10° large blebs of chalco., minor MoS_2 in serc. borders.			
364		Slight to moderate kaol. of the plag. Mafics fresh to chloritic. Qtz. veining uncommon. Sericite poorly developed on fracs (main attitude 40 - 50°)			
		373 - ~~XXXX~~ 3/4" qtz. vein massive chalco throughout - MoS_2 in serc. border. Minor em. green core below vein.			
		373 - 378 Intense kaol. - swarm of hairline fracs.			
		383 1" qtz. vein large blebs chalco (in vugs) minor bornite MoS_2 in serc. border			
		388 2" tan dacite porphyry at 20° qtz. eyes to 1/5"; rectangular felds phenocrysts. One large "book" of biotite in the dykelet.			
		395 thin stringer with bornite and chalco at 45°.			
		395 6" pink aphanitic dykelet at 45°			
		406 - 410 patchy - intense altn.			
		407 Shear at 90° minor gouge			
		408 Shears at 60°			
		428 vuggy - minor bornite (?)			
		434 5" qtz. vein at 30°. Abundant MoS_2 throughout and in serc. border. Chalco and bornite also present.			
		459,461 ¼" qtz. vein at 30° Bn, Chalco in Vugs (MoS_2 in Serc.)			

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Scale

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Drill Hole Record

Cominco

Property	District	Hole No.	
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
					Rim 69-2	5

Footage From	To	Description	Sample No.	Length	Analysis
		463 ¼" qtz. vein as above. Serc. fracture with chalco and MoS_2			
		465 hairline frac. with serc. - hem - MoS_2			
465 - 550		1 - 2 mineralized serc. fracs/foot. Mostly fresh - slight altn. around fracs. and			
		veins. 1 qtz. vein (around ¼ - ½") every 2 feet. Chalco main mineral in vugs also			
		bornite, minor MoS_2. Predominent attitude 30°.			
		486 - 491 Patchy intense kaol.			
		490 6" qtz. vein at 30° abundant MoS_2 on fracs in vein. also chalco and			
		minor bornite.			
		506 - 508 Patchy intense Kaol.			
		508 2 shears at 60° ½ gouge each.			
		524 - 528 moderate to intense kaol.			
550		END OF HOLE			

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	Highland Valley	Hole No.	Rim 69-1
Commenced	August 9, 1969	Location		Tests at	Tropari @ 790'
Completed	August 26, 1969	Core Size	N.Q.	Corr. Dip	-49°
Co-ordinates	North 100, 434.09 East 106, 723.49			True Brg.	257° 30'
Objective				% Recov.	89.9%

Hor. Comp.

Vert. Comp.

Logged by RFN

Date Aug. 12-26/69.

Claim | T Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Footage From	Footage To	Description	Sample No.	Length	Analysis
		Summary of Geology			
0	80	Overburden.			
81	324	Bethsaida quartz diorite. Alteration as follows:			
		81 - 120' Moderate kaolinization (argillic) qtz. veins and sericite well developed.			
		120 - 274' Intense kaolinization. Qtz. veins and sericite well developed.			
		274 - 324' Only slight kaolinization. Qtz. veins and sericite moderately developed.			
324	344	Porphyry dyke - porphyritic Bethsaida mostly unaltered, poor sericite development.			
344	353	Bethsaida qtz. diorite - moderate kaolinization.			
353	435	Porphyry dyke - porphyritic Bethsaida. Alteration patchy moderate to intense kaolinization.			
435	1030	Bethsaida qtz. diorite.			
		Alteration: Fresh to slight kaolinization with local patches (5-10') of moderate to intense kaolinization.			
		Qtz. veining and sericite poor.			
		804 - 820' Fault zone.			
		867½ - 873' Fault zone.			
1030		END OF HOLE.			

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211-9437—H.P.

Scale

Colour Plot
Dips

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	Highland Valley	Hole No.	Rim 69-1
Commenced	August 9, 1969	Location		Tests at	Tropari @ 790'
Completed	August 26, 1969	Core Size	N.Q.	Corr. Dip	-49°
Co-ordinates	North 100, 434.09 East 106, 723.49			True Brg.	257° 30'
Objective				% Recov.	89.9%

Hor. Comp.
Vert. Comp.
Logged by RFN
Date Aug. 12-26/69

Claim | T Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Footage From	Footage To	Description				Sample No.	Length	Analysis
		Summary of Mineralization						
0	80	Overburden						
80	290	% Cu	0.51 ✓	% Mo	0.0064 ✓	210'		
290	490		0.30 ✓		0.0071 ✓	200'		
490	700		0.14 ✓		0.0085 ✓	210'		
700	760		0.25 ✓		0.0140 ✓	60'		
760	1030		0.14 ✓		0.0040 ✓	270'		
80	1030		0.26 ✓		0.0066 ✓	950'		
80	290		0.51 ✓		0.0064	210'		

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Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	Highland Valley	Hole No.	Rim 69-1
Commenced	August 9, 1969	Location		Tests at	Tropari @ 790'
Completed	August 26, 1969	Core Size	N.Q.	Corr. Dip	-49°
Co-ordinates	North 100, 434.09 East 106, 723.49			True Brg.	257° 30'
Objective				% Recov.	89.9%

Hor. Comp.

Vert. Comp.

Logged by RFN

Date Aug. 12-26/69.

Claim | T Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Footage From	Footage To	Description Mineralization						Sample No.	Length	Analysis
80	90	0.39% Cu	0.0017	290	300	0.21	0.0170			
	100	0.19	0560		310	0.42	0068			
	110	0.54	0075		320	0.44	0035			
	120	0.44	0049		330	0.34	0027			
	130	0.65	0043		340	0.14	0025			
	140	0.44	0079		350	0.22	0091			
	150	0.51	0014		360	0.15	0071			
	160	0.51	0026		370	0.16	0049			
	170	0.97	0008		380	0.38	0040			
	180	0.41	0016		390	0.28	0053			
	190	0.60	0038		400	0.34	0050			
	200	0.53	0026		410	0.12	0027			
	210	0.67	0039		420	0.28	0045			
	220	0.44	0008		430	0.33	0086			
	230	0.60	0020		440	0.34	0170			
	240	0.29	0006		450	0.44	0098			
	250	0.52	0008		460	0.30	0015			
	260	0.61	0033		470	0.34	0047			
	270	0.45	0028		480	0.36	0045			
	280	0.36	0099		490	0.35	0200			
	290	0.55	0160		500	0.19	0095			

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	Highland Valley	Hole No.	Rim 69-1
Commenced	August 9, 1969	Location		Tests at	Tropari @ 790'
Completed	August 26, 1969	Core Size	N.Q.	Corr. Dip	-49°
Co-ordinates	North 100, 434.09 East 106, 723.49			True Brg.	257° 30'
Objective				% Recov.	89.9%

Hor. Comp.

Vert. Comp.

Logged by RFN

Date August 12-26/69.

Claim | T Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Footage From	To	Description Mineralization						Sample No.	Length	Analysis
500	510	0.23% Cu	0.0022	720	730	0.27	0.0037			
	520	0.14	0026		740	0.20	0059			
	530	0.07	0038		750	0.21	0093			
	540	0.18	0056		760	0.24	0130			
	550	0.16	0049		770	0.15	0037			
	560	0.07	0050		780	0.06	0042			
	570	0.15	0069		790	0.09	0047			
	580	0.09	0063		800	0.17	0027			
	590	0.13	0017		810	0.20	0034			
	600	0.14	0110		820	0.67	0045			
	610	0.16	0240		830	0.11	0014			
	620	0.11	0011		840	0.16	0019			
	630	0.04	0014		850	0.13	0039			
	640	0.10	0071		860	0.09	0060			
	650	0.14	0054		870	0.13	0073			
	660	0.17	0130		880	0.24	0015			
	670	0.07	0022		890	0.04	0010			
	680	0.25	0300		900	0.05	0010			
	690	0.18	0190		910	0.12	0007			
	700	0.09	0048		920	0.23	0064			
	710	0.31	0210		930	0.12	0120			
	720	0.28	0310		940	0.13	0120			

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	Highland Valley	Hole No.	Rim 69-3
Commenced	August 23, 1969	Location	Lake Zone	Tests at	310' Tropari
Completed	September 4, 1969	Core Size	N.Q.	Corr. Dip	-46°
Co-ordinates	North 99, 843.41 East 106, 520.38			True Brg.	
Objective				% Recov.	87,9%

Hor. Comp.

Vert. Comp.

Logged by RFN

Date Aug. 24-28, Sept. 4/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
DF-1	250°	-45°	4175.92'	770'	Rim 69-3	

Footage From	Footage To	Description	Sample No.	Length	Analysis
		Summary of Geology			
0	60	Overburden			
60	247	Bethsaida Quartz Diorite.			
		Slight to moderate kaolinization (argillic) with a few patches of intense kaolinization. Qtz.			
		veining and sericite moderately developed.			
		132 - 163' Fault zone.			
		237 - 264' Fault zone.			
247	377	Porphyry dyke - "porphyritic Bethsaida".			
377	770	Bethsaida Quartz Diorite			
		Alteration as follows:			
		377 - 399' Intense kaolinization. Qtz. veins and sericite well developed.			
		399 - 572' Moderate kaolinization. Qtz. veining poor, sericite predominantly poor,			
		occasionally well developed.			
		510-528' Fault zone.			
		572 - 640' Fresh to only slight kaolinization. Qtz. veins and sericite poor.			
		Chalcopyrite main Cu - Sulphide.			
		770' END OF HOLE.			

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Dips

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	Highland Valley,	Hole No.	Rim 69-3
Commenced	August 23, 1969	Location	Lake Zone	Tests at	310' Tropari
Completed	September 4, 1969	Core Size	N.Q.	Corr. Dip	-46°
Co-ordinates	North 99, 843.41 East 106, 520.38			True Brg.	
Objective				% Recov.	87.9%

Hor. Comp.
Vert. Comp.
Logged by RFN
Date Aug. 24-28, Sept. 4/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
DF-1	250°	-45°	4175.92'	770'	Rim 69-3	

Footage From	Footage To	Description		Sample No.	Length	Analysis
		Summary of Mineralization				
0	60	Overburden				
60	210	0.34% Cu	0.0047% Mo			
210	360	0.22 ✓	0.0050			
360	490	0.35 ✓	0.0041			
490	640	0.46	0.0043			
640	770	0.25 ✓	0.0089			
60	770	0.33	0.0053			
60	180		0.0053			
240	380		0.0060			
600	770		0.0078			

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Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	Highland Valley	Hole No.	Rim 69-3
Commenced	August 23, 1969	Location	Lake Zone	Tests at	310' Tropari
Completed	September 4, 1969	Core Size	N.Q.	Corr. Dip	-46°
Co-ordinates	North 99, 843.41 East 106, 520.38			True Brg.	
Objective				% Recov.	87.9%

Hor. Comp.

Vert. Comp.

Logged by RFN

Date Aug. 24-28; Sept.4/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
DF-1	250°	-45°	4175.92'	770'	Rim 69-3	1

Footage From	Footage To	Description	Sample No.	Length	Analysis Cu	Analysis Mo		
0	60	Overburden	31301	10'	.25	.0034	60'	70'
		No oxidized zone.	02	10'	.32	.0067	70	80
60	247	Bethsaida qtz. diorite.	03	10'	.37	.010	80	90
		60 - 98' Slight to occasionally moderate kaolinization of the plag. Mafics fresh to	04	10'	.34	.0040	90	100
		chloritic. Qtz. veining ≈ 1 every 2' with moderate sericite development,	05	10'	.34	.0025	100	110
		occasionally getting intense along their borders. Bn. ≥ cpy.	06	10'	.23	.0035	110	120
		Sericitic fracs. usually 2-4/ft. occasionally up to 6/ft.	07	10'	.21	.0110	120	130
		Main attitude 30-40° also 70° occasional sericitic fracs. @ 10-15°.	08	10'	.41	.0023	130	140
		Minor ortho. along veins and fracs.	09	10'	.42	.0028	140	150
		98 - 132' Predominantly moderate kaolinization of plag. (pale green - just touched with knife).	10	10'	.47	.0023	150	160
		Mafics variable fresh to sericitic. Frequency of qtz. veining and sericitic fracs.	11	10'	.41	.0035	160	170
		appears unchanged from above section (60-98).	12	10'	.28	.0114	170	180
		99-99½' ½" qtz. vein and heavy conc. sericite, attitude of 45°.	13	10'	.32	.0021	180	190
		113-114' Patchy emerald green sericite.	14	10'	.43	.0012	190	200
		128-129' " " " "	15	10'	.32	.0016	200	210
		132-135' Possible low angle (to core) shears.	16	10'	.18	.0025	210	220
		132 - 163' Intense kaolinization (shear fault zone) (decrease in mineralization) fault.	17	10'	.21	.0034	220	230
		142' ~~Gouge attitude indeterminate 10-20; or 60°.~~	18	10'	.15	.0023	230	240
		143' 6" qtz. vein - blebs of bornite.	19	10'	.10	.014	240	250
		146-148' Shears and gouge @ 10-20°	20	10'	.23	.0074	250	260
		151' Gouge very intense kaolinization.	21	10'	.47	.0087	260	270
		153' Shear with 1" gouge @ 50°.	22	10'	.23	.0034	270	280

Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Property VALLEY COPPER	District Highland Valley	Hole No. Bim 69-3	
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
					Bim 69-3	2

Footage From	Footage To	Description	Sample No.	Length	Analysis Cu	Analysis Mo			
60	247	(continued)	31323	10'	.16	.0058	280	290	
		132 - 163 (continued)	24	10'	.28	.0055	290	300	
		155-160' Shearing with gouge, attitudes of 0-15° and 45° noted.	25	10'	.24	.0037	300	310	
		162' 4" qtz. vein - a few blebs of bn.	26	10'	.18	.0023	310	320	
		163 - 237' Predominantly moderate kaolinization of plag. - occasional patches of intense	27	10'	.20	.0057	320	330	
		mafics fresh to chloritic. Qtz. vein approx. 1/2 ft. of core - sericite poorly to	28	10'	.28	.0039	330	340	
		moderately developed on vein borders, main attitude 60° minor @ 30°.	29	10'	.28	.0050	340	350	
		Qtz.-sericite stringers variously well to poorly developed. Main attitude 0-30°.	30	10'	.15	.0016	350	360	
		Bn. ≥ cpy. (In this definition qtz. 1/10" or less wide).	31	10'	.34	.0094	360	370	
		Minor ortho. along veins and fracs.	32	10'	.46	.0072	370	380	
		163½' 1" sericite - stringer of bn. (MoS_2 on shear @ 60°).	33	10'	.58	.0043	380	390	
		176' ¼" qtz. vein @ 30° bn., cpy. and minor MoS_2.	34	10'	.41	.0012	390	400	
		185-194' Predominantly intense kaolinization. Shearing @ 30°, also 45°.	35	10'	.28	.0006	400	410	
		186½' Gouge (crumbly core).	36	10'	.22	.014	410	420	
		188 - 189' Gouge (crumbly core)	37	10'	.19	.0010	420	430	
		189½' 4" qtz. vein @ 45° bn. abundant in the vein and sericitic borders, also	38	10'	.50	.0090	430	440	
		cpy. and minor MoS_2.	39	10'	.28	.0003	440	450	
		191½' Qtz. vein @ 55° bn. = cpy. minor MoS_2.	40	10'	.41	.0009	450	460	
		191' Orthoclase (possibly some is hematized plagioclase) along veins and fracs (5-15%).	41	10'	.25	.0024	460	470	
		195' Qtz.-sericite 1/10' qtz. stringer with heavy bn., massive sericite up to 1" wide	42	10'	.34	.0020	470	480	
		abundant disseminated bn.	43	10'	.31	.0015	480	490	
		212' Shear @ 60° (?).	44	10'	.45	.0065	490	500	

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	Highland Valley
Hole No.	Rim 69-3		
Commenced		Location	
Tests at		Hor. Comp.	
Completed		Core Size	
Corr. Dip		Vert. Comp.	
Co-ordinates		True Brg.	
Logged by			
Objective		% Recov.	
Date			

Sheet 3

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.
					Rim 69-3

Footage From	Footage To	Description	Sample No.	Length	Analysis Cu	Analysis Mo				
60	247	(continued)	31345	10'	.45	.0115		500	510	
		163 - 237' (continued)	46	10'	.36	.0010		510	520	
		218' Shear @ 0° to core slickensides @ 40° across shear face.	47	10'	.45	.0034		520	530	
		237 - 264' Fault. 4 - 5' of core recovered.	48	10'	.45	.0047		530	540	
		At approximately 247o fragments are of "porphyritic" Bethsaida.	49	10'	.35	.0033		540	550	
247	377	Dyke of "porphyritic" Bethsaida. Large often euhedral qtz. eyes and rectangular felds phenocrysts	50	10'	.45	.0033		550	560	
		~~large often~~ in at an aphanitic groundmass. Small irregular mafics "peppered" throughout.	51	10'	.46	.0060		560	570	
		Mineralization is confined to narrow qtz. veins (1/2 ft. of core) and a few scattered qtz.-sericite	52	10'	.45	.0011		570	580	
		fractures. Bn.>cpy.	53	10'	.58	.0012		580	590	
		281' Shear 2" gouge.	54	10'	.54	.0023		590	600	
		295' Shear @ 60° 1" gouge, emerald green sericite above and below.	55	10'	.55	.012		600	610	
		304 - 320' K-spar (up to 30%) forms part of groundmass imparting a tan - pink color to the core.	56	10'	.49	.0015		610	620	
		Plag phenocrysts grading to intense kaolinization.	57	10'	.23	.0034		620	630	
		307' Shear @ 15° offsets qtz.-sericite vein by 1".	58	10'	.65	.0011		630	640	
		331 - 355' K-spar as per 304 - 320'. Red hematite stain on fracs.	59	10'	.18	.0023		640	650	
		355 - 377' Intense kaolinization of the feldspar.	60	10'	.37	.010		650	660	
		358' Qtz. vein @ 45° - vuggy - with calcite in vugs, also blebs cpy.	61	10'	.36	.010		660	670	
		Shear @ 45° on lower contact.	62	10'	.15	.0024		670	680	
		366' Qtz. vein gouge on top contact.	63	10'	.16	.0064		680	690	
		367½' Shear @ 10°.	64	10'	.12	.0014		690	700	
		Possible lower contact ∧ dyke and Bethsaida qtz. diorite @ 60-70°.	65	10'	.37	.034		700	710	
			66	10'	.16	.0010		710	720	

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	Highland Valley	Hole No.	Rim 69-3
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Sheet 4

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.
					Rim 69-3

Footage From	Footage To	Description	Sample No.	Length	Analysis Cu	Analysis Mo				
377	770	Bethsaida qtz. diorite.	31367	10'	.24	.0056		720	730	
		377 - 378' Qtz.- sericite veining, large blebs of cpy.	68	10'	.29	.0030		730	740	
		377 - 399' Intense kaolinization of plag. Mafics predominantly to sericite. Qtz. veining	69	10'	.30	.0059		740	750	
		up to 1/1½ ft. Sericitic borders moderate to well developed.	70	10'	.25	.0025		750	760	
		392' 3" sheared lamprophyre dykelet @ 80°.	71	10'	.27	.025		760	770	
		400'- 4" " " " @ 60°.								
		399 - 572' Slight to predominantly moderate kaolinization of plag. Mafics fresh to chloritic.		END OF HOLE						
		Qtz. veining uncommon. Sericitic fractures occasionally well developed, but								
		predominantly poorly developed. Main attitude 45°, secondary @ 15-30o.								
		Ortho. occasionally along veins and on fracs.								
		407-409' Lamprophyric dyke @ 60° top contact sheared.								
		411½-416½' " " " bottom contact sheared.								
		424' Shear @ 30°.								
		430' 1" qtz. vein @ 60°. Shear also @ 60° ½" gouge emerald green sericite above								
		and below qtz. vein.								
		437' Heavy conc. of sericite (3") massive blebs of cpy. to ½" wide.								
		447-448' Fault gouge, appears to be low angle.								
		460' 6" conc. of sericite - disseminated bn. and cpy.								
		463,466' 1" pink aphanitic dykelets @ 70-80°.								
		496' 3" gouge. Attitude of fault 60°.								
		501-505' Intense kaolinization.								
		507' 6" gouge. Approx. 45° attitude.								

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	Highland Valley
Hole No.	Rim 69-3		
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. Rim 69-3 | Sheet 5

Footage From	Footage To	Description	Sample No.	Length	Analysis
377	770	(continued)			
		399 - 572 (continued)			
		507½-508½' Qtz. vein - blebs of cpy. streaks of dark grey (mylonite).			
		508½-509' 6" gouge. Appears part of qtz. vein with cpy. also sheared.			
		510-528' Sheared zone. Flags predominantly very intensely kaolinized.			
		511,516,518 }			
		524, 525,526, } Most appear to be 15-30° to core axis.			
		528½' }			
		534-537' Intense kaolinization.			
		536' Gouge.			
		540' @ Gouge.			
		541' Emerald green sericite.with			
		541½-542½' Massive sericite with 2" qtz. vein @ 45°.			
		547-550' Qtz. vein close to pegmatite patchy brick red ortho. throughout.			
		(Poorly mineralized).			
		553-562' Flags. altered to sericite or emerald green sericite leaving the rock as a			
		qtz.-sericite aggregation with no granitic texture remaining abundant cpy.			
		throughout.			
		561' Shear @ 30° dark grey gouge.			
		572 - 640' Slight to moderate kaolinization of plag. except adjacent to qtz. veins and some			
		sericitic fractures where kaolinization becomes intense. Mafics predominantly			
		fresh, variable chloritic to sericitic. Sericite generally well developed,			

211-9437—H.P.

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property VALLEY COPPER	District Highland Valley	Hole No. Rim 69-3	
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. Rim 69-3 | Sheet 4

Footage From	Footage To	Description	Sample No.	Length	Analysis
377	770	(continued)			
		572 - 640' (continued)			
		often as borders along ¼ - ½" wide qtz. veins. Bn. abundant and disseminated			
		throughout the sericite. Bn. also as blebs in the qtz. Bn. > cpy.			
		Main attitude between 0-30°, secondary @ 45°. Ortho. common along vein borders			
		and on fracs. adjacent to the sericite envelopes.			
		582-585' Shear zone - gouge - broken core. Top contact @ 30°.			
		613-616' Intense kaolinization 613 - shear @ 20° minor gouge.			
		615' Fragments from qtz. vein - blebs of cpy..			
		623' Shear @ 50° ½" gouge.			
		640 - 770' Sericite more poorly developed, and thus the mineralization becomes poorer.			
		Shearing - faulting encountered throughout and adjacent to the shears the plags			
		are intensely kaolinized, away from the shears the alteration grades to only slight			
		kaolinization. Cpy the main Cu-sulphide. Qtz. veins as noted below:			
		647' Shear @ 60° 1" gouge, broken core.			
		649' Shear @ 50° thin dark grey gouge - also 2-3" gouge.			
		653' Shear 1" gouge.			
		¼" qtz. vein @ 10° bn., cpy. in sericite.			
		655' ½" " " " bn. blebs. narrow sericite border.			
		656' ½" " " 20° cpy. blebs. " " "			
		661' ½" " " " cpy. thin bn. rims. " "			
		662' Thin stringer of calcite.			

211-9437—H.P.

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property VALLEY COPPER	District Highland Valley	Hole No. Rim 69-3	
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. Rim 69-3	Sheet

Footage From	Footage To	Description	Sample No.	Length	Analysis
377	770	(continued)			
		640 - 770' (continued)			
		663' Gouge - shearing.			
		669' 1" qtz. vein @ 15°, large blebs cpy. - minor bn. & MoS_2.			
		670-671' Concentration of mafics (biotite) 10-20%.			
		672' Shearing - gouge.			
		678' 2" qtz. vein @ 60°.			
		679' Shearing - gouge.			
		686' Pink aphanitic veinlet @ 10°.			
		690' Shearing - gouge.			
		697-702' Fault - gouge - mud.			
		702-703' Qtz. vein pyrite and MoS_2.			
		703-705' Fault - gouge - some muddy.			
		705-706½' Qtz. vein pyrite and MoS_2.			
		710-750' Ortho. up to 20%.			
		720' Small shear @ 30°.			
		721-722' Flags predominantly to emerald green sericite - hematite staining around serc. and mafics.			
		724-726' Shearing - small shears @ 30° up to ¼" gouge in each.			
		732' 6" qtz. vein @ 80° - vuggy. Only minor mineralisation. Shears on vein @ 80°.			
		740' Shear @ 30° minor gouge.			
		766' Shear @ 30°.			
		770' END OF HOLE.			

211-9437—H.P.

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	Valley Copper	District	Highland Valley	Hole No.	RIM - 69 - 4		
Commenced	August 27th, 1969	Location		Tests at	500' (tropari)	Hor. Comp.	
Completed	September 9th, 1969	Core Size	NQ	Corr. Dip	-44°	Vert. Comp.	
Co-ordinates	North 100,000.89; East 106,861.04			True Brg.	254°	Logged by	R. F. Nichols J. D. Stowell
Objective				% Recov.	90.8	Date	Aug. 31 - Sept. 9, 1969

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
DF - 1	254°	-45°	4,108.43	1,046	RIM - 69 - 4	1.

Footage From	To	Description	Sample No.	Length	Analysis
		Summary of Geology			
0 -	122	Overburden			
122 -	754	Bethsaida quartz diorite; alteration as follows:			
		122 - 231 intense kaolinization (argillitic); quartz veining and sericite well developed.			
		231 - 754 moderate kaolinization; local patches (2' - 20') of intense kaolinization; quartz veining and sericite poor to moderately developed.			
		399 - 404.5 lamprophyre dyke - post-mineral.			
		620 - 621 lamprophyre dyke - post-mineral.			
754 -	838	Porphyry dyke (porphyritic phase of the Bethsaida) - feldspar phenocrysts generally slight to moderately kaolinized; quartz veining poor; sericite poor to moderate.			
838 -	1,046	Bethsaida quartz diorite; alteration as follows:			
		838 - 1,046 slight to moderate kaolinization; occasional patches of intense kaol; quartz veining poor; sericite generally poor to moderate; a few local areas of well developed sericite.			
	1,046	End Hole RIM-69-4.			

211-9437—H.P.

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	District	Hole No. RIM - 69 - 4	
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. RIM - 69 - 4	Sheet 2.

Footage From	To	Description	Mineralization	Sample No.	Length	Analysis					
0 -	123	Overburden									
123 -	250	0.60% Cu	0.0060% Mo								
250 -	650	0.42	0.0043								
650 -	1,046	0.25	0.0068								
123 -	250		0.0060								
450 -	500		0.0144								
780 -	880		0.0125								
123 -	1,046	0.37	0.0056								
RFN:jr											

211-9437—H.P.

Drill Hole Record

Cominco

Property	District	Hole No. RIM - 69 - 4	
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. RIM - 69 - 4 | Sheet 3

Footage From To | Description | Mineralization | Sample No. | Length | Analysis

Sample	Footage	% Cu	% Mo	Sample	Footage	% Cu	% Mo
30760	123 - 130	0.66	0.0014	30781	340 - 350	0.47	0.0093
30761	130 - 140	0.54	0.0063	30782	350 - 360	0.29	0.0030
30762	140 - 150	0.52	0.0071	30783	360 - 370	0.36	0.0043
30763	150 - 160	0.65	0.0076	30784	370 - 380	0.52	0.0039
30764	160 - 170	0.77	0.012	30785	380 - 390	0.51	0.0048
30765	170 - 180	0.53	0.0007	30786	390 - 400	0.55	0.0006
30766	180 - 190	0.65	0.012	30787	400 - 410	0.19	0.0018
30767	190 - 200	0.84	0.0008	30788	410 - 420	0.32	0.0053
30768	*200 - 210	0.44	0.012	30789	420 - 430	0.32	0.0015
30769	223 - 230	0.58	0.0046	30790	430 - 440	0.39	0.0029
30770	230 - 240	0.43	0.0010	30791	440 - 450	0.29	0.0021
30771	240 - 250	0.66	0.0072	30792	450 - 460	0.51	0.0065
30772	250 - 260	0.34	0.0014	30793	460 - 470	0.39	0.0022
30773	260 - 270	0.27	0.0016	30794	470 - 480	0.33	0.056
30774	270 - 280	0.27	0.0027	30795	480 - 490	0.20	0.0022
30775	280 - 290	0.46	0.0050	30796	490 - 500	0.27	0.0053
30776	290 - 300	0.39	0.0014	30797	500 - 510	0.53	0.0020
30777	300 - 310	0.23	0.0005	31372	510 - 520	0.51	0.0003
30778	310 - 320	0.52	0.0006	31373	520 - 530	0.37	0.0009
30779	320 - 330	0.49	0.0005	31374	530 - 540	0.38	0.0061
30880	330 - 340	0.40	0.0006	31375	540 - 550	0.27	0.0003

* Assume 210 - 230 is 0.58% Cu.

Drill Hole Record

Cominco

Property	District	Hole No. RIM - 69 - 4	
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
					RIM - 69 - 4	4

Footage From To | Description | Sample No. | Length | Analysis

Sample	Footage	% Cu	% Mo	Sample	Footage	% Cu	% Mo
31376	550 - 560	0.74	0.0046	31397	760 - 770	0.08	0.0016
31377	560 - 570	0.45	0.0073	31398	770 - 780	0.23	0.0010
31378	570 - 580	0.37	0.0002	31399	780 - 790	0.19	0.015
31379	580 - 590	0.53	0.0020	31400	790 - 800	0.23	0.0021
31380	590 - 600	0.86	0.0045	31451	800 - 810	0.52	0.067
31381	600 - 610	0.82	0.0004	31452	810 - 820	0.27	0.0010
31382	610 - 620	0.60	0.0051	31453	820 - 830	0.23	0.012
31383	620 - 630	0.21	0.0032	31454	830 - 840	0.22	0.0071
31384	630 - 640	0.13	0.0014	31455	840 - 850	0.26	0.0074
31385	640 - 650	0.57	0.0071	31456	850 - 860	0.27	0.0065
31386	650 - 660	0.31	0.0023	31457	860 - 870	0.36	0.0012
31387	660 - 670	0.20	0.014	31458	870 - 880	0.18	0.0061
31388	670 - 680	0.29	0.0008	31459	880 - 890	0.26	0.0007
31389	680 - 690	0.19	0.012	31460	890 - 900	0.16	0.0029
31390	690 - 700	0.14	0.0007	31461	900 - 910	0.30	0.0045
31391	700 - 710	0.15	0.0009	31462	910 - 920	0.32	0.0067
31392	710 - 720	0.16	0.0020	31463	920 - 930	0.34	0.0007
31393	720 - 730	0.16	0.0009	31464	930 - 940	0.23	0.0012
31394	730 - 740	0.27	0.0005	31465	940 - 950	0.40	0.012
31395	740 - 750	0.50	0.0009	31466	950 - 960	0.31	0.0032
31396	750 - 760	0.20	0.0010	31467	960 - 970	0.18	0.0023

Scale

Colour Plot
& Dips

Drill Hole Record

Cominco

Property	District	Hole No. RIM - 69 - 4	
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
					RIM - 69 - 4	5

Footage From	To	Description	Sample No.	Length	Analysis					
		Sample Footage % Cu % Mo								
		31468 970 - 980 0.23 0.0009								
		31469 980 - 990 0.21 0.0007								
		31470 990 - 1,000 0.28 0.0047								
		31471 1,000 - 1,010 0.21 0.0049								
		31472 1,010 - 1,020 0.19 0.0045								
		31473 1,020 - 1,030 0.42 0.0017								
		31474 1,030 - 1,040 0.16 0.0039								
		31475 1,040 - 1,046 0.38 0.054								

Drill Hole Record

Cominco

Property	District	Hole No. RIM - 69 - 4	
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
					RIM - 69 - 4	6

Footage From	To	Description	Sample No.	Length	% Mo	Analysis % Cu	% Recovery				
0 -	122	Overburden					0	-	122	O/B	
			30760		.0014	.66	122	-	130	8.0	
122 -	183	Intensely altered Bethsaida quartz diorite - plagioclases soft, white, chalky,	30761		.0063	.54	130	-	140	5.6	
		some pseudomorphic, most have no crystalline shape; sericite heavy to intense,	30762		.0071	.52	140	-	150	9.0	
		both as sericitic fractures and as envelopes - 80% as fractures up to 10 feet;	30763		.0076	.65	150	-	160	3.6	
		emerald green sericite minor throughout (1%), concentrated locally at 125 - 126	30764		.012	.77	160	-	170	5.5	
		(10%) and 151 - 154 (20%); Kspar fairly abundant - up to 25%, down to 5%, average	30765		.0007	.53	170	-	180	5.4	
		15%, disseminated but concentrated adjacent to sericitic fractures; mafics velic	30766		.012	.65	180	-	190	10.0	
		only; mineralization good, bornite and chalcopyrite in quartz veins and veinlets,	30767		.0008	.84	190	-	200	8.4	
		bornite in sericite.	30768		.012	.44	200	-	210	9.0	
		124 quartz veins ½" at 45° and 30° (not related), cutting core and	30769		.0046	.58	210	-	220	9.8	
		sericitic fractures; bornite > chalcopyrite in veins, bornite in					220	-	230	9.5	
		sericite; grade ≈ 0.55% Cu.	30770		.0010	.43	230	-	240	9.5	
		126 ½" quartz vein at 30° to core axis; bornite abundant.	30771		.0072	.66	240	-	250	9.5	
		139 ¼" chalcopyrite fracture at 35° to core axis.	30772		.0014	.34	250	-	260	4.0	
		142.5 8" quartz; chalcopyrite and MoS_2.	30773		.0016	.27	260	-	270	7.5	
		143 1/8" chalcopyrite fracture at 60° to core axis.	30774		.0027	.27	270	-	280	8.0	
		145.5 4" quartz; bornite = chalcopyrite.	30775		.0050	.46	280	-	290	10.0	
		145 - 154 sericitic fracturing at 20° to core axis.	30776		.0014	.39	290	-	300	8.5	
		152 ½" quartz vein at 20° to core axis; bornite/chalcopyrite.	30777		.0005	.23	300	-	310	8.0	
		154 - 162 very little core; quartz at 162; bornite > chalcopyrite; very	30778		.0006	.52	310	-	320	6.0	
		highly altered area - fault?	30779		.0005	.49	320	-	330	9.5	

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olour Plot
Dips

Drill Hole Record

Cominco

Property	District	Hole No. RIM - 69 - 4	
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
					RIM - 69 - 4	7

Footage From	To	Description	Sample No.	Length	Analysis %Cu	% Recovery			
				% Mo					
		164 8" quartz vein at 40° to core axis; bornite > chalcopyrite.	30880	.0006	.40	330	-	340	10.0
		178 ½" quartz vein at 65° to core axis; bornite/chalcopyrite; ½"	30781	.0093	.47	340	-	350	9.5
		sericitic border.	30782	.0030	.29	350	-	360	10.0
		180 2" quartz vein at 40° to core axis; bornite > chalcopyrite.	30783	.0043	.36	360	-	370	10.0
			30784	.0039	.52	370	-	380	10.0
183 -	200	Moderately altered Bethsaida quartz diorite - plagioclases clouded, white, hard,	30785	.0048	.51	380	-	390	10.0
		most retain shape; sericite heavy, mainly as fractures to ½" width, up to 2	30786	.0006	.55	390	-	400	9.5
		fractures per foot; no emerald green sericite; Kspar minor, some places 5% = 183 -	30787	.0018	.19	400	-	410	9.5
		184, 196 - 200; mafics in all stages of alteration; mineralization moderate (≈ 0.4%	30788	.0053	.32	410	-	420	10.0
		Cu) ab bornite in quartz and sericite; chalcopyrite in quartz.	30789	.0015	.32	420	-	430	9.5
		183 2" quartz vein at 70° to core axis; bornite = chalcopyrite;	30790	.0029	.39	430	-	440	9.5
		massive sericite envelope 1" wide.	30791	.0021	.29	440	-	450	10.0
		186 ½" quartz vein in ab sericite at 30° to core axis; bornite >	30792	.0065	.51	450	-	460	9.0
		chalcopyrite in vein; also bornite in sericite.	30793	.0022	.39	460	-	470	10.0
		187 2" quartz vein at 85° to core axis; bornite > chalcopyrite.	30794	.056	.33	470	-	480	9.5
		198 ½" quartz vein at 40° to core axis; chalcopyrite > bornite, both	30795	.0022	.20	480	-	490	9.5
		abundant.	30796	.0053	.27	490	-	500	10.0
			30797	.0020	.53	500	-	510	10.0
200 -	231	Intensely altered Bethsaida quartz diorite - plagioclases white, soft, most are	31372	.0003	.51	510	-	520	10.0
		amorphous; moderate alteration only 213 - 215.5, 201 - 201.5, 218 - 225, with	31373	.0009	.37	520	-	530	9.5
		plagioclases white to light green and hard, again most area amorphous; sericite	31374	.0061	.38	530	-	540	10.0
		heavy to intense, up to 7 fractures per foot, many areas mottled (intense),	31375	.0003	.27	540	-	550	10.0

Drill Hole Record

Cominco

Property	District	Hole No. RIM - 69 - 4	
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
					RIM - 69 - 4	8

Footage From	Footage To	Description	Sample No.	Length	Analysis % Mo	Analysis %Cu					
		80% as sericitic fractures, 20% as envelopes developed on quartz veins; emerald	31376		.0046	.74	550	-	560	10.0	
		green sericite has pseudomorphs, soft, green, 1% over 224 - 225.5; Kspar more	31377		.0073	.45	560	-	570	10.0	
		than moderate, 20%, disseminated but concentrated more around sericitic fractures;	31378		.0002	.37	570	-	580	10.0	
		mafics in all stages of alteration, mostly relic and sericitized; mineralization	31379		.0020	.53	580	-	590	10.0	
		grade moderate (0.4% Cu), bornite and chalcopyrite in quartz veins; chalcopyrite	31380		.0045	.86	590	-	600	9.5	
		fractures, bornite in sericite.	31381		.0004	.82	600	-	610	9.5	
	203.5	½" quartz vein at 75° to core axis; bornite.	31382		.0051	.60	610	-	620	9.5	
	205.8	½" quartz vein at 60° to core axis; sericite border; bornite.	31383		.0032	.21	620	-	630	10.0	
	206.5	chalcopyrite fracture with quartz 1/4" - 1/8".	31384		.0014	.13	630	-	640	9.0	
	211.7	½" quartz vein at 55° to core axis; bornite.	31385		.0071	.57	640	-	650	9.0	
	219	1½" quartz vein at 50° to core axis; chalcopyrite = bornite.	31386		.0023	.31	650	-	660	7.5	
	221.5	1" quartz vein at 45° to core axis; bornite chalcopyrite;	31387		.014	.20	660	-	670	10.0	
		1/8" sericite border.	31388		.0008	.29	670	-	680	9.5	
	223	½" quartz vein at 45° to core axis; bornite; 1/8" sericite	31389		.012	.19	680	-	690	9.0	
		border.	31390		.0007	.14	690	-	700	9.5	
	225.5	1" quartz; chalcopyrite = bornite.	31391		.0009	.15	700	-	710	9.5	
	227.5	2" quartz vein at 30° to core axis; ¼" sericite border;	31392		.0020	.16	710	-	720	8.0	
		bornite chalcopyrite.	31393		.0009	.16	720	-	730	10.0	
	229.3	½" quartz vein at 45° to core axis; ¼" sericite border;	31394		.0005	.27	730	-	740	9.5	
		bornite/chalcopyrite.	31395		.0009	.50	740	-	750	9.0	
			31396		.0010	.20	750	-	760	9.5	
			31397		.0016	.08	760	-	770	10.0	

Drill Hole Record

Cominco

Property	District	Hole No. RIM - 69 - 4	
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
					RIM - 69 - 4	9

Footage From	To	Description	Sample No.	Length	Analysis % Mo	Analysis % Cu	% Recovery From	To	% Recovery
231 -	754	Moderate argillic alteration of Bethsaida quartz diorite - plagioclases white to	31398		.0010	.23	770 -	780	6.5
		light green, hard, most are amorphous; poor to occasionally moderate sericite	31399		.015	.19	780 -	790	8.5
		development on vein borders and fractures; quartz veining uncommon; orthoclase on	31400		.0021	.23	790 -	800	9.0
		fractures and vein borders.	31451		.067	.52	800 -	810	9.0
		237 concentration of mafics up to 25% (3" band).	31452		.0010	.27	810 -	820	9.5
		239 patchy emerald green sericite.	31453		.012	.23	820 -	830	9.0
		241 - 242 three small shears at 30°.	31454		.0071	.22	830 -	840	8.0
		243 6" quartz vein at 30°; chalcopyrite and MoS_2; minor emerald	31455		.0074	.26	840 -	850	9.0
		green sericite.	31456		.0065	.27	850 -	860	9.0
		264 - 266 pink aphanitic dykelet (aplitic) cut by a few quartz-sericite	31457		.0012	.36	860 -	870	10.0
		stringers.	31458		.0061	.18	870 -	880	10.0
		quartz veins as follows - all have narrow sericite borders to ¼" approximately	31459		.0007	.26	880 -	890	10.0
		1/6 feet:	31460		.0029	.16	890 -	900	9.0
		272 ¼" at 45°; chalcopyrite blebs.	31461		.0045	.30	900 -	910	10.0
		283 ¼" at 30°; bornite main sulphide.	31462		.0067	.32	910 -	920	9.0
		287 ½" at 45°; bornite.	31463		.0007	.34	920 -	930	10.0
		289 2" at 30°; barren, bornite in sericite borders.	31464		.0012	.23	930 -	940	10.0
		290 ¼" at 30°; bornite.	31465		.012	.40	940 -	950	8.0
		291.5 ¼" at 20°; bornite and chalcopyrite.	31466		.0032	.31	950 -	960	8.0
		299 ¼" at 60°; bornite and chalcopyrite.	31467		.0023	.18	960 -	970	10.0
		307 ¼" at 30°.	31468		.0009	.23	970 -	980	10.0
		315 ½" at 60°; minor bornite.	31469		.0007	.21	980 -	990	10.0

Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Property	District	Hole No. RIM - 69 - 4	
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
					RIM - 69 - 4	10

Footage From	To	Description	Sample No.	Length	Analysis % Mo	Analysis %Cu	Footage From	To	% Recovery
	318	3/4" at 30°; blebs of bornite.	31470	.0047	.28	990	-	1,000	9.5
	323	½" at 30°; bornite and chalcopyrite.	31471	.0049	.21	1,000	-	1,010	8.5
	328	½" at 30°; very little mineralization (bornite); orthoclase	31472	.0045	.19	1,010	-	1,020	9.0
		border; no sericite.	31473	.0017	.42	1,020	-	1,030	9.0
	333	3/4" at 20°; equal amounts of bornite and chalcopyrite.	31474	.0039	.16	1,030	-	1,040	9.5
	340	3/4" at 45°; bornite and chalcopyrite.	31475	.054	.38	1,040	-	1,046	5.5
	341	very coarse sericite and bornite.							
345	- 351	intense kaolinization and sericitization of plagioclase;							
		chalcopyrite main sulphide.							
	351	1" quartz vein at 45°; bornite and some chalcopyrite.							
	357	¼" at 30°.							
	360	2' quartz vein at 30°; coarse sericite border; only minor							
		bornite.							
370	- 380	intense kaolinization; moderate sericitic development on veins							
		and fractures.							
	376	1" quartz vein at 45°; vuggy; mainly chalcopyrite.							
	384	½" quartz vein at 60°; bleb bornite; vuggy.							
394	- 399	intense kaolinization.							
	394	6" emerald green sericite followed by 3" quartz vein; ¼"							
		stringer of chalcopyrite and calcite in vug.							

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	District	Hole No. RIM - 69 - 4	
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. RIM - 69 - 4 | Sheet 11

Footage From	To	Description	Sample No.	Length	Analysis
		399 - 404.5 lamprophyric dyke - top contact at 70° (sheared); bottom contact at 70° followed by 6" emerald green sericite.			
		408 3/4" quartz at 55°; minor bornite/chalcopyrite.			
		410.5 minor emerald green sericite.			
		412 - 424 intense kaolinization with patchy emerald green sericite.			
		414 2" quartz vein at 0° - 10°; chalcopyrite; sheared at 45°; ¼" gouge.			
		418 ½" quartz vein at 30°; large blebs chalcopyrite.			
		422, 423 shears at 60°; 1" gouge.			
		425 ½" quartz vein at 65°; bornite and chalcopyrite.			
		428 1" quartz vein at 70°; minor bornite, chalcopyrite.			
		429.5 1" quartz vein at 60°; ½" sericite borders, bornite and chalcopyrite.			
		431 ½" quartz vein sheared at 30°; bornite - chalcopyrite.			
		432 ½" quartz vein at 50°; bornite; minor chalcopyrite.			
		439 shear at 60°, 1" gouge; borken rock; minor emerald green sericite.			
		442 ¼" quartz vein at 45°; minor chalcopyrite.			
		443.5 ¼" quartz vein at 30°; bornite, chalcopyrite.			
		445 2 quartz veins cross at 35°; bornite, chalcopyrite.			
		450 1½" quartz vein at 30°; bornite, chalcopyrite.			

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Drill Hole Record

Cominco

Property	District	Hole No. RIM - 69 - 4	
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. RIM - 69 - 4	Sheet 12

Footage From	To	Description	Sample No.	Length	Analysis
		454.5 ½" quartz vein at 40°; bornite, chalcopyrite.			
		456 3/4" quartz vein at 45°; chalcopyrite, bornite.			
		458 emerald green sericite.			
		463 ½" quartz vein at 30°; chalcopyrite, bornite.			
		464.5 ½" quartz vein at 30°; mainly chalcopyrite.			
		468 ½" quartz vein at 30°; bornite, chalcopyrite.			
		470 ½" quartz vein at 45°; bornite, chalcopyrite.			
		quartz veins as above (272 - 472) approx. one every 5 feet.			
		470 - 473 leucocratic; vuggy (felds. to sericite).			
		475 - 476 emerald green sericite.			
		476 - 478 quartz vein; top contact sheared at 45°; chalcopyrite, MoS_2,			
		and hematite; also minor calcite.			
		481 - 484 patchy emerald green sericite.			
		489 emerald green sericite.			
		492 2" band of mafics at 20°; sub-parallel alignment.			
		496 ¼" band of mafics.			
		¼" quartz vein at 0° to core; ¼" sericitic border; blebs of bornite and chalco-			
		pyrite at 501 - 504, 507 - 509, 511 - 513.			
		515 - 516 pink aphanitic dykelet at 30°.			
		521 - 524 patchy emerald green sericite; vugs with minor calcite.			
		522 shear at 60°; ¼" gouge.			
		523.5 shear at 60°; ½" gouge.			

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	District	Hole No. RIM - 69 - 4	
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
					RIM - 69 - 4	13

Footage From	To	Description	Sample No.	Length	Analysis
		531 - 533 intense kaolinization; minor emerald green sericite.			
		531.5 2" quartz vein; sheared bottom contact (attitude of 35°).			
		547 - - 549 intense kaolinization; minor emerald green sericite; shearing at 60°.			
		553 - 554 intense kaolinization.			
		556 - 562 intense kaolinization.			
		561 - 562 emerald green sericite.			
		562 shear at 60°.			
		574 - 575 emerald green sericite.			
		593 - 620 predominantly intense kaolinization; sericite well developed on fractures and quartz veins; bornite disseminated throughout the sericite and in the quartz; minor chalcopyrite; quartz veins mainly 45° - 60° with one every two feet.			
		609 shear at 45°; emerald green sericite below the shear.			
		613 - 615 emerald green sericite.			
		617 shear at 55°; ¼" gouge.			
		620 - 621 lamprophyric dyke; top contact at 40°, lower contact at 30°; "post mineral".			
		633 - 634 emerald green sericite.			
		641.5 - 642 emerald green sericite.			
		645 - 665 predominantly intense kaolinization; patchy emerald green sericite.			

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Colour Plot & Dips

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Drill Hole Record

Cominco

Property	District	Hole No. RIM - 69 - 4	
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

Footage From	To	Description	Sample No.	Length	Analysis
		646 shear at 45°; 1" gouge.			
		648 - 649 fault; gouge at 45°.			
		663 shear at 45°; ½" gouge.			
		686 - 687 emerald green sericite.			
		687 - 693 intense kaolinization.			
		687 shear at 60°; 1½" gouge.			
		688 shear at 45°; 1" gouge.			
		689 shear at 60°; 2" - 3" gouge, borken rock.			
		689.5 3" quartz vein at 60°; chalcopyrite; minor MoS_2.			
		702 small shear.			
		713 shear at 90°; minor gouge.			
		720 shear at 85°; 2" gouge.			
		726 - 744 intense kaolinization; moderate sericite development on vein borders and fractures.			
		736 emerald green sericite.			
		750 2" quartz vein at 60°; large blebs bornite, chalcopyrite.			
754 -	838	Porphyritic dyke - porphyritic phase of Bethsaida; large, often euhedral quartz eyes; rectangular phenocrysts of feldspar; small irregular mafics peppered throughout; medium green to tan aphanitic ground mass; the dyke is poorly mineralized; feldspar phenocrysts intensely kaolinized locally adjacent to fractures and veins.			

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	District	Hole No. RIM - 69 - 4	
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
					RIM - 69 - 4	14

Footage From	To	Description	Sample No.	Length	Analysis
		779 vuggy calcite.			
		803 fault gouge 4" - 6", possibly at 30°.			
		804 4" quartz vein at 30°; chalcopyrite and bornite.			
		808 2" quartz vein at 25°; chalcopyrite; MoS_2 on border.			
		818 ½" quartz vein at 30°; large blebs bornite.			
		821 1/10" chalcopyrite stringer at 90°.			
		838 possible 2" chilled contact.			
838 -	960	Bethsaida quartz diorite - slight to occasionally moderate kaolinization; mafics			
		predominantly fresh; quartz veins uncommon - one every 3 - 4 feet; sericite bor-			
		ders generally poorly to moderately developed; attitude between 45° - 60°;			
		sericite on fractures developed poorly generally and with some sections becoming			
		moderately to well developed; bornite:chalcopyrite = 1:1; orthoclase usually on			
		fractures outside of the sericite; main attitude 60°, secondary at 10° - 20°, 45°.			
		845 shearing at 60°; 2" gouge; ½" quartz vein at 60°; bornite,			
		chalcopyrite and MoS_2.			
		849 - 852 intense kaolinization.			
		851 2" quartz vein at 50°; contacts are sheared; chalcopyrite,			
		MoS_2; minor bornite.			
q		866 shearing at 60°.			
		870 3" band of sericite at 45°; mainly chalcopyrite.			
		873 shear at 45°; broken core.			

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	District	Hole No. RIM - 69 - 4	
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
					RIM - 69 - 4	15

Footage From	To	Description	Sample No.	Length	Analysis
		875 4" band sericite at 60°; chalcopyrite, minor bornite.			
		879 quartz - calcite vein at 50°; minor intense kaolinization.			
		885 shear at 70°; minor gouge.			
		895 shear at 45°; gouge, broken core.			
		901 6" of sericite; two bands at 60°; predominantly chalcopyrite with bornite, MoS_2.			
		905.5 1/10" chalcopyrite stringer at 60°.			
		912 shear at 20°; chalcopyrite at same angle.			
		912 - 915 intense kaolinization.			
		919 shear at 45°; ½" gouge; fragments of quartz vein with blebs of bornite.			
		925 - 926 intense kaolinization.			
		934 - 960 moderate to predominantly intense kaolinization.			
		939 shear at 45°; ½" gouge.			
		941 - 954 shearing common; main attitude 0° - 10°, also 30° and 60°.			
960	1,046	960 - 964 intense kaolinization.			
		963 2" quartz vein at 60°; sheared contacts; 5" sericite below quartz vein; chalcopyrite.			
		964 - 972.5 slight alteration; no quartz; sericite uncommon.			
		972.5 - 977.5 intense kaolinization.			
		975 quartz vein; shear at 75°.			

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	District	Hole No. RIM - 69 - 4	
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
					RIM - 69 - 4	

Footage From	To	Description	Sample No.	Length	Analysis
		983 shear at 80°.			
		977.5 - 988 slight alteration; quartz vein at 60°; sericite uncommon.			
		988.5 4" sericite band at 60°; 1" orthoclase borders; disseminated chalcopyrite.			
		990 - 993 intense kaolinization.			
		990 - 992 quartz vein at 15°; shearing along borders; mainly chalcopyrite.			
		999 shear at 30°; ¼" gouge.			
		1,002 shear at 60°; agjacent Bethsaida quartz diorite intensely kaolinized; chalcopyrite.			
		1,004 - 1,006 massive sericite; shear 5° - 10°; chalcopyrite.			
		1,011 shear at 80°; ¼" gouge.			
		1,014 - 1,015 shear at 0° - 5°; ¼" gouge.			
		1,029 3" band sericite at 30°; sheared; chalcopyrite blebs ¼" wide.			
		1,042 quartz vein at 60°; sheared contacts; chalcopyrite; minor MoS_2.			
1046		End Hole RIM - 69 - 4.			

JDS:jr
Vancouver Office
October 24th, 1969

211-9437—H.P.

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	Highland Valley	Hole No.	Rim 69-5
Commenced	September 5, 1969	Location		Tests at	Hor. Comp.
Completed	September 11, 1969	Core Size	N.Q.	Corr. Dip	- 45°
Co-ordinates	North 99, 375.00 East 106, 516.62.			True Brg.	225°
Objective				% Recov.	93%
				Vert. Comp.	
				Logged by	RFN, MJC
				Date	Sept. 6-11/69.

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
LTK-7		-45°	4277.66	566'.	Rim 69-5	

Footage From	Footage To	Description	Sample No.	Length	Analysis
		Summary of Geology			
0	74	Overburden			
74	553	Bethsaida quartz diorite.			
553	566	Porphyry dike - "porphyritic Bethsaida".			
		Alteration as follows:-			
		74 - 179' Slight to moderate kaolinization. Sericite and qtz. veins poor to moderate development.			
		179 - 214' Intense kaolinization, qtz. veins and sericite well developed.			
		214 - 553' Generally moderate kaolinization.			
		323-369' Slight kaolinization.			
		436-476' Intense kaolinization.			
		Sericite and qtz. veins developed as follows:-			
		214-368' Poor to moderate development.			
		368-516' Moderate to intense development.			
		516-553' Poor development.			
		566' END OF HOIE.			

211-9437—H.P.

Scale

Colour Plot
& Dips

Drill Hole Record

Cominco

File

Property	VALIEY COPPER	District	Highland Valley	Hole No.	69-5
Commenced	September 5, 1969	Location		Tests at	Hor. Comp.
Completed	September 11, 1969	Core Size	N.Q.	Corr. Dip	-45° Vert. Comp.
Co-ordinates	North 99, 375.00 East 106, 516.62			True Brg.	225' Logged by RFN, MJC
Objective				% Recov.	93% Date Sept. 6-11/69

Claim | T Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Footage From	Footage To	Description			Sample No.	Length	Analysis
		Summary of Mineralization					
0	74	Overburden					
74	290	Cu	0.41% ✓	Mo 0.0078%			
290	370		0.22	0.0023			
370	520		0.45 ✓	0.0217			
520	566		0.20 ✓	0.0039			
120	180			0.0206			
240	290			0.0097			
370	550			0.0190			
74	566		0.37	0.0096			

211-9437—H.P.

Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	Highland Valley	Hole No.	Rim 69-5
Commenced	September 5, 1969	Location		Tests at	Hor. Comp.
Completed	September 11, 1969	Core Size	N.Q.	Corr. Dip	-45°
Co-ordinates	North 99, 375.00 East 106, 516.62			True Brg.	225'
Objective				% Recov.	93%

Vert. Comp.

Logged by RFN, MJC

Date Sept. 6-11/69.

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
LTK-7		-45°	4227.66	566'	Rim 69-5	1

Footage From	Footage To	Description	Sample No.	Length	Analysis Cu	Analysis Mo				
0	74	Overburden. No oxidized zone encountered.	31476	6'	.37	.0011		74	80	4.0
74	129	Bethsaida qtz. diorite predominantly slight to moderate kaolinization. Mafics mostly fresh	77	10'	.37	.0009		80	90	8.5
		variable locally to chlorite or sericite.	78	10'	.30	.0012		90	100	8.5
		One qtz. vein every 2-3 feet. Poor to moderate sericite on borders. Main attitude 45-60°,	79	10'	.33	.0009		100	110	8.5
		secondary @ 30°. Sericite fractures poorly developed. Very occasional ortho. with sericite fracs.	80	10'	.30	.0008		110	120	9.5
		Bornite > cpy. MoS_2 patchy throughout. Hematite stain on some of the fracs.	81	10'	.47	.089		120	130	
		84' - Shear @ 60° ½ gouge. Heavy sericite.	82	10'	.26	.0052		130	140	
		85 - 103' Local patches of intense kaolinization adjacent to qtz.-sericite veins. Sericite	83	10'	.58	.018		140	150	
		fracs. occasionally moderately developed.	84	10'	.37	.0010		150	160	
		97-102' Pervasive intense kaolinization - brick red hematite stain on fracs.	85	10'	.23	.0023		160	170	
		98' Shear @ 45° minor gouge.	86	10'	.70	.0052		170	180	
		123' - 1" qtz. vein @ 30°, heavy sericite borders - abundant MoS_2 in the sericite.	87	10'	.74	.0038		180	190	
		123½' - ½" vein (qtz.) @ 30°, bornite-cpy. and MoS_2.	88	10'	.57	.0037		190	200	
		125' 1" pink K-spar aphanitic dykelet @ 30° - cut by ¼" qtz. vein @ 20°.	89	10'	.47	.0024		200	210	
129	179	Moderate kaolinization grading to intense adjacent to qtz. veins. (felds. pale green just scratched	90	10'	.50	.0018		210	220	
		by knife). Poor serc. development. Patchy emerald green sericite, disseminated hematite 1-2%.	91	10'	.47	.0004		220	230	
		1" qtz. vein every 2 ft.	92	10'	.36	.0015		230	240	
		130' 3" qtz. vein @ 60°, cpy.- MoS_2. Minor calcite.	93	10'	.31	.024		240	250	
		143' 8" qtz. vein @ 60°, abundant cpy.-bn. and MoS_2. Bottom contact sheared 45° ½" gouge.	94	10'	.33	.0025		250	260	
		152 - 154' Pink K-spar aphanitic dykelet @ 45° - cut by sericite stringer with cpy.-bn.	95	10'	.28	.0013		260	270	
		173' 3" qtz. vein @ 50° ¼" blebs bn.-cpy.	96	10'	.31	.0098		270	280	
		176 - 179' Emerald green sericite common.	97	10'	.33	.011		280	290	

211-9437—H.P.

Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Property VALLEY COPPER	District Highland Valley	Hole No. Rim 69-5	
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. Rim 69-5 | Sheet 2

Footage From	To	Description	Sample No.	Length	Analysis Cu	Mo		
129	179	(continued)	31498	10'	.21	.0021	290	300
		178' 3" qtz. vein @ 50°, cpy main sulphide, minor MoS_2, bornite.	99	10'	.28	.0023	300	310
179	214	Intense kaolinization. Qtz. veining usually 1-2" wide - 1 every 2 feet. Attitudes 30-45.	(500	10'	.20	.0022)	20'	Assay
		Some @ 0° and 60°. Sericite well developed on borders of veins occasionally tending to become	(551	10'		)	310	320
		pervasive. Abundant disseminated bornite and cpy. Bn.> cpy.	52	10'	.13	.0014	320	330
		181' - Shear @ 30°, emerald green sericite adjacent.	53	10'	.24	.0074	330	340
		186' - Shear @ 30°.	54	10'	.19	.0004	340	350
		189 - 192' 3 foot qtz. vein attitude observed - appears to be low (10°).	55	10'	.27	.0008	350	360
		Bornite on hairline fracs.	56	10'	.62	.012	360	370
		194½' - Shear @ 0°. Slickensides @ 90° to core axis.	57	10'	.38	.0020	370	380
		195' - Shear @ 15°.	58	10'	.42	.016	380	390
		199 - 200' Pervasive sericite - bornite and hematite stain.	59	10'	.46	.068	390	400
		200 - 205' Sericite fracs. have ortho borders.	60	10'	.31	.0038	400	410
214	323	Predominantly moderate kaolinization (felds. pale green, just scratched). Local patches of	61	10'	.28	.0022	410	420
		intense kaolinization - usually adjacent to qtz. veins. Qtz. veins 1 every 2-3 feet, poor to	62	10'	.43	.017	420	430
		moderate sericite development. Bn.> cpy.	63	10'	.92	.035	430	440
		223 - 224' Sericite well developed - bornite disseminated.	64	10'	.25	.087	440	450
		230 - 236' Intense kaolinization.	65	10'	.22	.0009	450	460
		231' Shear @ 10°.	66	10'	.47	.051	460	470
		232' Shear @ 60°, 1" qtz. vein.	67	10'	.62	.0037	470	480
		232-233' Emerald green sericite.	68	10'	.53	.0020	480	490
		233-236' Shear @ 60°.	69	10'	.37	.0012	490	500

211-9437—H.P.

Scale
Colour Plot & Dips

Drill Hole Record

Cominco

Property VALLEY COPPER	District Highland Valley	Hole No. Rim 69-5	
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
					Rim 69-5	3

Footage From	Footage To	Description	Sample No.	Length	Analysis Cu	Analysis Mo			
214	323	(continued)	31570	10'	.43	.0136	500	510	
		255' - Emerald green sericite.	71	10'	.35	.0006	510	520	
		274' - Emerald green sericite.	72	10'	.25	.0009	520	530	
		306' - Emerald green sericite.	73	10'	.20	.016	530	540	
		314' - Emerald green sericite @ 45°.	74	10'	.08	.0009	540	550	
		290-293' Intense kaolinization.	75	10'	.12	.0011	550	560	
		291' Emerald green sericite. Shear @ 60°.							
		295-303' Intense kaolinization. Moderate sericite development.							
		302' Shear @ 60°, 1" gouge.							
		319' Intense kaolinization.							
323	368.9	Generally now alteration. Plag. slightly greeny. Biot. scarce to absent. Small. Plag. hard.							
		330 - 333' Mod.-intense alteration. Plag. has kaolin permeated into it.							
		334.4-335.4' Moderate alteration. Plag. softer, kaolin coat.							
		334.5-335' Generally mod. alteration. Plag. kaolin coat.							
		339.8- 341' Intense alteration. Plag very soft.							
		342.5- 347' Intense alteration.							
		356.5- 357' Intense alteration. Argillic all through.							
		364 - 368.9' Moderate alteration. Plag. kaolin coat. Biot. scarce. Sericite low.							
		veins = 326, 335, 336.5, 338, 341, 346.5-347, 350.5, 355, (357-368.6 =).							
		Many veins ½". No common direction. Large vein 360.6-364.6 = 1" vein							
		bordering ½" qtz. vein. Contain bornite.							
		K-spar. 5-8% and mainly disseminated. 10% associated with qtz. veins & sericitic							
		veins.							

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property VALLEY COPPER	District Highland Valley	Hole No. Rim 69-5	
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. Rim 69-5 | Sheet 4

Footage From	Footage To	Description	Sample No.	Length	Analysis
323	368.9	(continued).			
		Qtz. veins 3" 359 = bn.			
		366.6-364 = bn.			
		Emerald green sericite 324 - 326.5, 329.5 - 330.5, 335.-336.5.			
		Cu mainly as bn. Bn.>> cpy. Mainly in ser.			
368.9	409	365 - 368' Mod. alteration. Plag. thin skin. Generally mod. intense. Plag. permeated deeply. Biotite alteration.			
		383.5- 385' Moderate alteration.			
		393 - 395' Low - mod.			
		369 - 378.5' Intense alteration.			
		389.5- 409' Intense alteration.			
		371 - 401' Sericite intense: veins average 2" but are mottled over 6-8"			
		Sericite in ore 368.9 - 371 low. In mottled areas no definite directions.			
		Emerald green sericite 370-371, 378.8-379.2, 385-386, 396-409 = in these areas sericite			
		disseminated 20-25%.			
		Qtz. veins 371 - 373.5 3 qtz. veins are 6-12" Cpy. bn. moly.			
		396'- 3" vein, bn.			
		401'- 1" qtz. vein bn.			
		391' 2" cpy. & bn.			
		396' 3" bn.			
		407.5'- 4" cpy. & moly. Cu present mainly in ser. in zone 371-409. Cu mainly in			
		this zone as cpy. Cpy 2 : 1 over bn.			
		Shears 343.5, 346, 349, 372.5, 374, 388.5, 392.5.			

211-9437—H.P.

Scale

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	Highland Valley	Hole No.	Rim 69-5
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Sheet 5

Hole No. Rim 69-5

Claim | T Brg. | Collar Dip | Elev. | Length

Footage From	To	Description	Sample No.	Length	Analysis
409	436.5	Generally moderate alteration. Plag. has argillic coat. Biot. is absent.			
		415 - 418' Intense alteration. Plag. to e.g. ser.			
		Sericite = mod. veins 3-4/ft. Angle 60-80°. Some veins 2-3".			
		411.5' K-spar = 1" cpy. & moly.			
		416' = 1" cpy. & moly.			
		428'- 1" cpy. & moly.			
		Cu mainly in ser. as cpy. & bn. Cpy. ≥ bn. Cu 0.45 - 0.50.			
436.5	476	Mostly intense alteration. Plag. heavily permeated by argillite.			
		448.6- 451')			
		452.5- 455') Mod. alteration. Plag. creamy green. Biot. small & scarce.			
		458.5- 460.5')			
		463 - 470)			
		Sericite mod.-intense. Veins ≈ 1" and 3-4/ft. 60-80°.			
		455 - 458' Emerald green ser. Disseminated 30%.			
		473 - 473.5' = & 470 - 471' Emerald green ser. Disseminated 25%.			
		K-spar = 10%. Half disseminated and half associated with qtz. veins and ser. veins.			
		Cu is as bn. mainly but cpy. in qtz. and emerald green ser. veins (predominates here).			
		Cu 0.45 - 0.50'.			
		Qtz. veins 438 - 440' 2' vein. Cpy. & moly.			
		455' 1" = cpy. & moly.			
		467' 1" = cpy.			
		476' 1" cpy. & moly.			

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property VALLEY COPPER	District Highland Valley	Hole No. Rim 69-5	
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. Rim 69-5 | Sheet 6

Footage From	To	Description	Sample No.	Length	Analysis
476	516	Generally moderate alteration. Plag. creamy-green. Can be scratched but only a skin.			
		Biotite present but small and evenly distributed.			
		483 - 486' = Mod.-intense kaolinization permeated fairly deeply.			
		493 - 498' Intense alteration. Argillic, deeply permeated.			
		509 - 509.5' Intense shear. Sericite mod.-intense veins = 1-2" 60-80°.			
		2-3/ft. and tend to be grouped rather than evenly distributed.			
		486 - 486.5') Disseminated ser. 20%.			
		493 - 493.5')			
		488 - 488.6' Large area mottled with ser. heavily.			
		494.5- 496' " " " " " "			
		496.5- 500.5' Several veins and mottled sections.			
		502 - 507' " " " " " "			
		Other areas are low in sericite. K-spar intense 15-20% and mainly			
		disseminated but in places associated with ser. and qtz. veins .			
		Qtz. veins 467'- 1" cpy. 482 - 482.5' - 1" cpy.			
		474'- 4" cpy. & moly. 484.5' - 1" born. & cpy.			
		475'- 2" cpy. 486' - 1" cpy.			
		480'- 1" bn. 490' - 4" born.			
		496' - 1" cpy. & born.			
		497.5' - 2" bn.			
		513' - 1" cpy. & bn.			
		Cu mainly in ser. but also heavily in qtz. as cpy. Bn. : Cpy. 3 : 1. Cu 0.5.			

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District Highland Valley	Hole No. Rim 69-5
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. Rim 69-5 | Sheet 7

Footage From	To	Description	Sample No.	Length	Analysis
516	553.5	Generally mod. alteration. Light argillic coat. Biot. relic. Plag. hard but greeny.			
		523.2- 524.8' Intense shear.			
		531.5- 534' Mod.-intense. Argillic coat deeper and plag. soft.			
		543 - 545' Intense. Argillic deeply permeated. Sericite: Ser. low = veins primarily ≈ 60 - 80° 1/ft.	1"		
		K-spar. 3-5%. Primarily disseminated. Little associated with qtz. ser. veins.			
		Qtz. veins: 516' - 1" 4" cpy. & moly.			
		528' - 1" bn.			
		530' - 1" cpy.			
		535' - 1" bn.			
		543' - 1" bn.			
		544' - 4" cpy. & moly.			
		Cu mainly in ser. Bn. in ser. & cpy. in qtz. Return Bn. 2 : 1 over cpy. Cu 0.35.			
553.5	566	Porphyry dike. Large feldspar phenos. 30-40%.			
		Green groundmass phenos 3-8 mm. K-spar 3% & dissem. Qtz. eyes 10% 5-8 mm.			
		538.5- 539' Emerald green ser. Dissem. Contains tiny cpy. stringers & dissem. blebs.			
		Disseminated hematite also 0.5%			
		560 - 560.5' Emerald green ser. Dissem. Dike generally fresh.			
		563 - 564' Alteration mod.-intense.			

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Drill Hole Record

Cominco

Property VALLEY COPPER	District Highland Valley	Hole No. RIM 69-6	
Commenced September 9, 1969	Location	Tests at 1000' tropari	Hor. Comp.
Completed September 20, 1969	Core Size NQ	Corr. Dip 46°	Vert. Comp.
Co-ordinates North 99,665.16 East 106,660.91		True Brg. 250°	Logged by RFN
Objective		% Recov. 93.5%	Date September 12-20/69

Claim | T Brg. | Collar Dip -45 | Elev. 4,134.46 | Length 1223 | Hole No. RIM 69-6 | Sheet 1

Footage From	To	Description	Sample No.	Length	Analysis
		SUMMARY OF GEOLOGY			
0	60	Overburden			
60	1223	Bethsaida Quartz Diorite			
		Alteration as follows:-			
		60-385 slight to moderate Kaolinization (argillic) local patches of intense Kaolinization.			
		quartz veining and sericite poor to occasionally moderate development.			
		353-357 lamprophyre dyke.			
		385-850 predominately intense Kaolinization			
		499-524; 545-574;780-786; 824-836 moderate Kaolinization quartz veining and sericite developed			
		as follows:			
		-385-544 well developed			
		-574-850 poor to moderate development.			
		-Moderately Kaolinized sections noted above - poor to occasional moderate development.			
		808-813 porphyry dyke porphyritic bethsaida			
		850-968 porphyry dyke porphyritic bethsaida			
		968-1223 Bethsaida Quartz Diorite Alteration as follows:-			
		968-1079 Moderate to intense Kaolinization			
		-968-1026 poor qtz veining and sericite development.			
		-1026-1079 moderate to well developed qtz and sericite.			

Drill Hole Record

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Property	District	Hole No. RIM 69-6	
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 2

Footage From	Footage To	Description	Sample No.	Length	Analysis					
		SUMMARY OF GEOLOGY (page two)								
		1079-1098 Lamprophyre dyke.								
		1098-1140 Intense Kaolinization; poor to moderate qtz and sericite development								
		1140-1180 slight to moderate Kaolinization - poor qtz and sericite development								
		1180-1223 Intense Kaolinization; poor qtz and sericite development								
	1223	END OF HOLE								

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Colour Plot
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Drill Hole Record

Cominco

Property	District	Hole No. RIM 69-6	
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
		45°		1223'	RIM 69-6	3

Footage From	To	Description	Sample No.	Length	Analysis					
		MINERALIZATION								
62-250		0.33 ✓ 0.0014								
250-500		0.51 0.0037								
500-620		0.30 ✓ 0.0042								
620-820		0.40 ✓ 0.0056								
820-1000		0.24 0.0095								
1000-1080		0.45 0.0050								
1080-1223		0.22 ✓ 0.0085								
62-1223		0.36 0.0053								
750-990		0.0104 %Mo								
1170-1223		0.0194 "								

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Drill Hole Record

Cominco

Property	District	Hole No. RIM 69-6	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Sheet 4

Footage From	To	Description												Sample No.	Length	Analysis Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.
62	70	0.20	0006	280-290	.56	0003	500-510	.29	0022	720-730	.55	0049	940-950	.20	0083	1160	1170	.28	0024		
80		.24	0005	300	.52	0003	20	.19	0046	40	.41	0007	60	.22	0083		80	.07	0230		
90		.44	0004	10	.66	0006	30	.38	0053	50	.61	0015	70	.18	0028		90	.15	0070		
100		.70	0052	20	.53	0008	40	.45	0019	60	.30	0075	80	.08	0049		1200	.23	0085		
10		.51	0004	30	.49	0002	50	.17	0010	70	.34	0370	90	.19	0061		10	.33	0480		
20		.24	0010	40	.43	0017	60	.32	0065	80	.38	0130	1000	.13	0016		20	.12	0230		
30		.29	0009	50	.28	0008	70	.14	0037	90	.14	0008	10	.31	0036		1223	.09	0071		
40		.33	0003	60	.23	0040	80	.39	0033	800	.17	0031	20	.36	0080						
50		.26	0003	70	.38	0045	90	.23	0027	10	.42	0066	30	.27	0028						
60		.23	0013	80	.39	0067	600	.24	0080	20	.65	0130	40	.49	0010						
70		.27	0099	90	.30	0004	10	.49	0110	30	.27	0005	50	.37	0018						
80		.38	0021	400	.51	0082	20	.29	0004	40	.33	0260	60	.84	0050						
90		.27	0002	10	.84	0014	30	.34	0003	50	.24	0009	70	.49	0022						
200		.38	0018	20	.63	0140	40	.40	0033	60	.18	0050	80	.45	0160						
10		.28	0006	30	.57	0005	50	.38	0025	70	.18	0018	90	.01	0001						
20		.32	0004	40	.61	0025	60	.51	0031	80	.23	0330	1100	.13	0003						
30		.28	0007	50	.48	0016	70	.42	0010	90	.35	0088	10	.23	0008						
40		.43	0003	60	.60	0021	80	.62	0003	900	.37	0260	20	.32	0008						
50		.26	0003	70	.56	0052	90	.50	0110	10	.23	0079	30	.47	0005						
60		.45	0004	80	.62	0042	700	.28	0007	20	.26	0100	40	.32	0011						
70		.46	0063	90	.75	0032	10	.30	0012	30	.32	0150	50	.32	0020						
80		.35	0006	500	.43	0220	20	.32	0004	40	.28	0032	60	.28	0023						

Drill Hole Record

Cominco

Colour Plot & Dips

Property VALLEY COPPER	District HIGHLAND VALLEY	Hole No. RIM 69-6	
Commenced September 9, 1969	Location	Tests at 1000' tropari	Hor. Comp.
Completed September 20, 1969	Core Size NQ	Corr. Dip 46°	Vert. Comp.
Co-ordinates		True Brg.	Logged by RFB
Objective		% Recov.	Date Sept 12-20, 1969

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
						5

Footage From	Footage To	Description	Sample No.	Length	Analysis					
0	60(?)	OVERBURDEN	31712	8'	.20	0006		60-	170	7½
			31713	10'	.24	0005			80	8
60	-137	Bethsaida Quartz Diorite	31714	10'	.44	0004			90	8
		slight to moderate Kaolinization of plag	31715	10'	.70	0052		90-	100	9.5
		mafics predominately fresh - some to chlorite	31716	10'	.51	0004			110	8.5
		1 qtz vein every 3-4 feet main attitude 20-30°	31717	10'	.24	0010			120	9.5
		poor to mod sericite on vein borders. - qtz veins usually contain abundant bornite blebs.	31718	10'	.29	0009			130	8.5
		Sericite generally poorly developed on fracture. Ortho also present on fracs - is Vugsy.	31719	10'	.33	0003			140	8
		main attitude 30° secondary @ 45°	31720	10'	.26	0003			150	8.5
		66 - 1" pink - K-spar dykelet @ 30°	31721	10'	.23	0013			160	10
		94-99 Sericite well developed - abundant disseminated bornite in sericite and qtz veins.	31722	10'	.27	0099			170	9
		97 - shear @ 40° 2" gouge, broken core.	31723	10'	.38	0021			180	10
		111-113 thin shear @ 0-5° minor gouge.	31724	10'	.27	0002			190	9.5
		117-118 pink - K-Spar dykelet (aphamitic) @20°	31725	10'	.38	0018		190-	200	8
			31726	10'	.28	0006			210	8.5
			31727	10'	.32	0004			220	10
			31728	10'	.28	0007			230	9
			31929	10'	.43	0003			240	9.5
			31930	10'	.26	0003			250	10

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Scale

Colour Plot
Dips

Drill Hole Record

Cominco

Property	District	Hole No.	
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
					RIM 69-6	6

Footage From	Footage To	Description	Sample No.	Length	Analysis					
		120 - 2" qtz vein @ 10° ½ - 1" sericite borders	31731	10'	.45	0004		250-260		9.5
		127 - shear - broken core gouge. appears to be low angle	31732	10'	.46	0063		270		8.5
		129½ - minor emerald green sericite	31733	10'	.35	0006		280		9.5
		130-130½ - shear @ 30 (?) gouge - broken core.	31734	10'	.56	0003		290		10
			31735	10'	.52	0003		290-300		10
137	153	137-153 predominately intense Kaolinization	31736	10'	.66	0006		300	310	
		141-143 emerald green sericite	31737	10'	.53	0008		310	320	
		143-143½ fault - @ 45° 6" gouge.	31738	10'	.49	0002		320	330	
		151-155 ortho up to 10% - mod (pale green) Kaol.	31739	10'	.43	0017		330	340	
153	332	slight to Mod Kaol of plag mafics predominately fresh save cholorite or sericite locally	31740	10'	.28	0008		340	350	
		(adjacent to veins & fracs) qtz veining 1 every 3-4 feet occasionally as frag vent as 1/2 feet.	31741	10'	.23	0040		350	360	
		main attitude 45-60°.	31742	10'	.38	0045		360	370	
		Sericite predominately poor; locally becoming moderate to well developed along veins 4 fracs.	31743	10'	.39	0067		370	380	
		att: 45-60° secondary @ 30° minor ortho along veins and fracs.	31744	10'	.30	0004		380	390	
		Bornite : chalco = 1-2:1 Hematite also common in sercite and on fracs.	31745	10'	.51	0082		390	400	
		Grade - generally poor	31746	10'	.84	0014		400	410	
			31747	10'	.63	014		410	420	
			31748	10'	.57	0005		420	430	
			31749	10'	.61	0025		430	440	
			31750	10'	.48	0016		440	450	
			31752	10'	.60	0021		450	460	
			31753	10'	.56	0052		460	470	

Scale

Colour Plot
Dips

Drill Hole Record

Cominco

Property	District	Hole No. RIM 69-6	
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
					RIM 69-6	7

Footage From	To	Description	Sample No.	Length	Analysis					
		172-175 Intense Kaolinization	31754	10'	.62	0042		470	480	
		186 - emerald green sericite	31755	10'	.75	0032		480	490	
			31756	10'	.43	022		490	500	
		193-210 Mainly "Pathchy" intense Kaolinization	31757	10'	.29	0022		500	510	
		most intense areas seem to be the result of shearing (@60°)	31758	10'	.19	0046		510	520	
		216-221 intense Kaolinization	31759	10'	.38	0053		520	530	
		228 shear @ 50° 1" gouge	31760	10'	.45	0019		530	540	
		228-229 intense Kaolinization	31761	10'	.17	0010		540	550	
		233-235 intense Kaolinization	31762	10'	.32	0065		550	560	
		233½ - 334½ emerald green sericite	31763	10'	.14	0037		560	570	
		234 shear @ 60° ½" gouge	31764	10'	.39	0033		570	580	
		243- shear @ 45° ¼" gouge minor emerald green sericite	31765	10'	.23	0027		580	590	
		244 - shear @ 60° minor gouge intense Kaolinization adjacent	31766	10'	.24	0080		590	600	
		266 -269 pathchy emerald green sericite and intense Kaolinization	31767	10'	.49	011		600	610	
		286-290 ½° qtz vein @ 0° to core axis mod sercite borders - bornite	31768	10'	.29	0004		610	620	
		293 - shear @ 60° intense Kaolinization adjacent	31769	10'	.34	0003		620	630	
		297 - minor emerald green sericite	31770	10'	.40	0033		630	640	
			31771	10'	.38	0025		640	650	
			31772	10'	.51	0031		650	660	
			31773	10'	.42	0010		660	670	
			31774	10'	.62	0003		670	680	
			31775	10'	.50	011		680	690	

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olour Plot
Dips

Drill Hole Record

Cominco

Property	District	Hole No. RIM 69-6	
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. RIM 69-6	Sheet 8

Footage From	To	Description	Sample No.	Length	Analysis				
		303 - intense Kaolinization, broken core - possible shearing	31736	10'	.28	0007	690	700	
		310 - shear - broken core @ 5°	31777	10'	.30	0012	700	710	
		319-321 intense Kaolinization	31778	10'	.32	0004	710	720	
		320-321 massive sericite - disseminated bornite	31779	10'	.55	0049	720	730	
			31780	10'	.41	0007	730	740	
332-358		mostly moderate Kaolinization: (felds pale green still hard to just scratched by knife)	31781	10'	.61	0015	740	750	
		ortho up to 5% on fracs and veins	31782	10'	.30	0075	750	760	
		1 qtz vein every 3 feet. Sericite borders generally moderately developed. main attitude 60°	31783	10'	.34	037	760	770	
		352½ - BQD flooded by K-spar	31784	10'	.38	013	770	780	
			31785	10'	.14	0008	780	790	
353-357		lamprophyric dyke - is post mineral - thin calcite stringers in it.	31786	10'	.17	0031	790	800	
		353 - 3" sheared lamprophyric dyke @ 50°	31787	10'	.42	0066	800	810	
		353-354 - BQD flooded by K-spar	31788	10'	.65	013	810	820	
		354 - 3" sheared lamprophyric kyke @ 50°	31789	10'	.27	0005	820	830	
		354½-355 - K-spar flooded BQD	31790	10'	.33	026	830	840	
		355-357 lamprophyric dyke top and bottom contacts sheared contacts @ 50°	31791	10'	.24	0009	840	850	
358 - 385		slight to mod as per (153-332)	31792	10'	.18	0050	850	860	
		45-60° main attitude secondary @ 30°	31793	10'	.18	0018	860	870	
			31794	10'	.23	033	870	880	
			31795	10'	.35	0088	880	890	
			31796	10'	.37	026	890	900	
			31797	10'	.23	0079	900	910	

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Colour Plot & Dips

Drill Hole Record

Cominco

Property	District	Hole No. RIM 69-6	
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
					RIM 69-6	6

Footage From	To	Description	Sample No.	Length	Analysis					
		362 - 6" massive Sericite @ 30°? ½° qtz vein cuts sericite @ 70°	31798	10'	.26	010		910	920	
		364 - 6" massive Sericite @ 60°?	31799	10'	.32	015		920	930	
385-499		predominately intense Kaolinization: mafics mostly sericitic	31800	10'	.28	0032		930	940	
		qtz veining 1 every 1½ - 2 feet. @ 60° and 10-30°	31851	10'	.20	0083		940	950	
		sericite well developed on vein borders and fractures	31852	10'	.22	0083		950	960	
		Bonite 2:1 over chalco - Good Grade	31853	10'	.18	0028		960	970	
		Ortho often on fracs.	31854	10'	.08	0049		970	980	
		391 - shear @ 70° ¼° gouge	31855	10'	.19	0061		980	990	
		395 - shear @ 60° 2" gouge and broken core	31856	10'	.13	0016		990	1000	
		397 - shear @ 50°	31857	10'	.31	0036		1000	1010	
		413 - shearing @ 60° minor gouge; emerald green sericite	31758	10'	.36	0080		1010	1020	
		417 shear @ 45° ½ gouge qtz vein below shear	31859	10'	.27	0028		1020	1030	
		433-441 mostly moderate Kaolinization	31860	10'	.49	0010		1030	1040	
		sericite not as abundant as rest of section	31861	10'	.37	0018		1040	1050	
		450 - shearing @ 45° ¼" gouge	31862	10'	.84	0050		1050	1060	
		464 - shear @ 40° ½" gouge	31863	10'	.49	0022		1060	1070	
		465 shear @ 50° 1" gouge	31864	10'	.45	016		1070	1080	
		469 - shear @ 60° ¼" gouge	31865	10'	.01	0001		1080	1090	
		471-485 - moderate Kaolinization predominant. Sericite slightly less abandant than	31866	10'	.13	0003		1090	1100	
		385-471 grade somewhat lower.	31867	10'	.23	0008		1100	1110	
			31868	10'	.32	0015		1110	1120	
			31869	10'	.47	0005		1120	1130	

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Colour Plot & Dips

Drill Hole Record

Cominco

Property	District	Hole No. RIM 69-6	
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
						10

Footage From	To	Description	Sample No.	Length	Analysis					
		489-490 shearing @ 60° - gouge	31870	10'	.32	0011		1130	1140	
499-524		mostly moderate Kaolinization - local patches to intense Kaolinization	31871	10'	.32	0020		1140	1150	
		sericite only poor to moderately developed and thus the grade declines compared to (385-499)	31872	10'	.28	0023		1150	1160	
		approximately 1 qtz vein every 4-5 feet	31873	10'	.28	0024		1160	1170	
			31874	10'	.07	023		1170	1180	
		503-504 ortho to 15%	31875	10'	.15	0070		1180	1190	
		507 pink aphanitic dykelet - mineralized	31876	10'	.23	0085		1190	1200	
		509 emerald green sericite	31877	10'	.33	048		1200	1210	
		510 band with hemitite up to 5%	31878	10'	.12	023		1210	1220	
		521 4" pink aphonitic dykelet @ 45°	31879	3'	.09	0070		1220	1223	
524-544		intense Kaolinization								
		well to moderately developed sericite on veins & Fracs								
		1 qtz vein every 2 feet. most @ 60° or 15-30°								
		Bornite 3:1 over chalco								
		526 - emerald green sericite								
		529 - shear @ 30° (on bottom of qtz vein) minor gouge								
		536 - shearing @ 60-70°								
		543 - shear @ 30° 1" gouge								
544½ - 545		lamprophyre dyke - sheared								

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Drill Hole Record

Cominco

Property	District	Hole No. RIM 69-6	
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. RIM 69-6 | Sheet //

Footage From	To	Description	Sample No.	Length	Analysis					
545-574		moderate Kaolinization as per (499-524)								
		556,562, 566, 570 emerald green sericite								
574-780		intense Kaolinization - emerald green sericite as noted								
		approximately 1 qtz vein every 2 feet - sericite only poorly to moderately developed								
		Bornite ? chalcopyrite MoS_2 sporadic thoughout.								
		weakly to moderately mineralized.								
		577 - shear @ 60°								
		582-583 patchy emerald green sericite								
		586, 591 emerald green sericite								
		596- 1" qtz vein @ 60° MoS_2 on fracs in quartz vein								
		599- emerald green sericite								
		601- 6" qtz vein @ 60° abundant MoS_2 on fracs in qtz vein - chalco								
		605-606 1 foot qtz vein @ 45° MoS_2, chalco and calcite								
		606-608 shearing @ 45°								
		610-615 emerald green sericite and intense Kaolinization								
		611 - shear @ 45°								
		615-617 massive sericite								
		abundant disseminated chalcopyrite and bornite								
		625, 627 emerald green sericite								
		630 - shear @ 80° 1" gouge								
		2" qtz vein below shear @ 40° chalco and MoS_2								

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Drill Hole Record

Cominco

Property	District	Hole No. RIM 69-6	
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 12

Footage From	To	Description	Sample No.	Length	Analysis					
		633 - ½" band of small specs of hematite @ 30°								
		635 - 3" qtz vein @ 60° Vuggy chalco minor MoS_2 minor calcite								
		644 - emerald green sericite shear @ 60°								
		648-649 massive sericite bornite, chalco and hermatite								
		655-656 emerald green sericite 2 shears @ minor gouge								
		657 - shear @ 60°								
		657-666 mostly emerald green sericite								
		664 - 1" qtz vein @ 55° chalco blebs.								
		674-676 qtz vein @ 0-5° to core. blebs of Bornite & chalco								
		677 - 3" qtz vein @ 60° chalcopyrite								
		678 - 1" qtz vein @ 30° chalco								
		683 - 3" qtz vein @ 40° chalco - bornite and MoS_2								
		684 - shear @ 70° 2" gouge								
		687 - shear @ 60°								
		1" qtz vein above, chalco and MoS_2 @ 60°								
		2" qtz vein below chalco and MoS_2 @ 60°								
		688-701 predominately moderate Kaolinization								
		696 shear @ 60° ½" gouge								
		716-717 moderate Kaolinization								
		718-723 ortho up to 10-20%								
		726-727 emerald green sericite								

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	District	Hole No. RIM 69-6	
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
						13

Footage From	To	Description	Sample No.	Length	Analysis					
		730 - shear - broken core, gouge @ 60°?								
		733-734 shearing @ 45°, 60° 2" qtz vein - bornite and chalco.								
		735, 736, 738, 740, 741, 743 emerald green sericite								
		744 - 2 - ½" qtz veins @ 30° large blebs of Bornite, chalco								
		Bornite in serc borders.								
		746½ - shear @ 70° minor gouge.								
		750-755 predominately emerald green sericite								
		sericite also well developed along veins & fracs								
		757, 762,763,764, emerald green sericite								
		757½ - thin stringer of MoS_2 along qtz vein border.								
		765-768 shearing @ 45° also 10-20"								
		gouge broken core								
		771 - shear @ 30° dark grey gouge (qtz vein along shear chalco and MoS_2)								
		775-776 emerald green sericite								
		777- shear @ 45° 1" gouge, broken core								
		emerald green sericite above and below.								
780-796		mostly moderate kaolinization								
		781,782,784 emerald green sericite								
		785-796 mostly moderate Kaolinisation								
		ortho 570%								
		786,787½, 788,792,795 emerald green sericite								

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Drill Hole Record

Cominco

Property	District	Hole No. RIM 69-6	
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
					RIM 69-6	14

Footage From	To	Description	Sample No.	Length	Analysis
796-824		Intenser Kaolinization and patchy emerald green sericite			
		801-805 pervaisive sericite - dissein chalco, minor MoS_2, bornite			
808-813		Dyke of porphyritic phase of Bethsaida qtz. diorite. Heavily altered in places			
		812 - small stringer with pyrite			
		813 - 819 Qtz. vein at 10° - chalco, pyrite (?) and MoS_2, top contact sheared - 1" gouge - remnants of qtz. eyes, bottom contact has 1 foot sericite with dissem. chalco and bornite			
824-836		Predominately moderate kaolinization			
		832 Vuggy calcite vein at 45° ¼" blebs of chalco,eg serc. adjacent			
		832½ 4" qtz. vein at 60° chalco and MoS_2			
836-850		Intense kaolin. and patchy e.g. ser.			
		840 Sheared qtz. vein at 50° - chalco - MoS_2			
850-968		Dyke of porphyritic phase Bethsaida, large euhedral to slightly rounded qtz. eye, phenocrysts of feldspar also have corners rounded mafics peppered throughout - Matrix dark green. Poorly mineralized approx. 1 qtz. vein/2 ft. Very poor ser. development.			
		852 Shear at 60° 1" gouge			
		858 - 860 Ortho clase pervaisive throughout matrix.			
		870 minor e.g. sericite			
		873 — 8[illegible] felds phenocrysts intensly kaolin., patchy throughout e.g. sericite also patchy throughout e.g. sericite also patchy throughout. Some intervals remain unaffected.			
		888 - 890 ortho pervaisive throughout matrix.			
		930 - 960 ortho matrix plag. mostly intensly kaolinized.			

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Drill Hole Record

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Property	District	Hole No.	
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 15

Footage From	To	Description	Sample No.	Length	Analysis					
		968 @ 970 shear at 10° fragments of lamprophyre.								
968	1079	Bethsaida Quartz diorite., Mod. to intense Kaolinization, qtz. veining and ser. development poor.								
		974 - 979 Ortho up to 15%								
		980 - 981½ E.G. sericite								
		985 3" gouge								
		990 - 991 E.G. sericite								
		992 - 1002 mostly mod. kaol.								
		1008-1012 shear zone - shears at 60° up to 1" gouge								
		1013 Small patch of "porphyritic Bethsaida plag intenmly kaol.								
		1013-1015 Ortho up to 20%								
		1026-1079 Mostly intense kaolin. fairly good grade. Moderate to well developed sericite								
		1 qtz. vein every 2 - 3 feet. Bornite: chalco = 2:1, ortho 5 - 10%								
		1031 shear								
		1042-1045 Shearing 60 - 45° gouge								
		1050 Salmon pink ortho								
		1053 1" qtz. vein at 60° chalco - MoS_2 - minor bornite								
		1055 3" qtz vein @ 60° small specs of chalco and Bn peppered throughout								
		1066-1067 emerald green serc.								
		1077 - qtz vein @ 20° MoS_2 and chalco								
1079	1098	Lamprophyric dyke								
		thin stringers of calcite, ¼" chilled upper contact @ 20°								
		1094-1095 Bethsaida qtz diorite (Mod Kaol)								
		1096 -1098 Lamprophyre badly sheared								

211-9437—H.P.

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

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

Sheet 6

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.

Footage From	Footage To	Description	Sample No.	Length	Analysis					
		1098-1103 ortho up to 15%								
1098	1140	Bethsaida qtz Diorite								
		mostly intense Kaol some only to moderate Kaol.								
		1 qtz vein every 3 ft. main attitude 0-;0° (wavy) also secondary @ 30; 45-50°								
		serc. poorly to moderately developed along veins and fracs. minor ortho also along veins & fracs								
		Bn. : chalco = 2-1 : 1								
		1113 shear @ 10° ¼" gouge. (minor em green serc.)								
		1114- shear @ 0°								
		1127 - small concentration of hernatite								
		1135 - shear @ 60° ¼° gouge - minor em green sericite								
1140	1180	generally low to moderate Kaol. patchy intense and em green serc. as noted below								
		1 qtz vein every 4-5' poor to occasionally moderite serc. development. attitudes some as								
		(1098-1140)								
		1152 shear @ 70° ½" gouge em green serc adjacent								
		1160 emerald green serc.								
		1163-1168 patchy intense Kaol and em green serc.								
		1171, 1172 em green serc.								
		1177 intense Kaol								
		1180 intense Kaol 2" qu @ 60° Minor MoS_2								
1180	1219	predominately intensly Kaol. plag. grade generally poor Sporadic occurences of qtz serc to								
		improve grade locally								
		Chalcopyrite main Cu-Salphide also MoS_2 scattered throughout.								

211-9437—H.P.

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	District	Hole No.	
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

Footage From	Footage To	Description	Sample No.	Length	Analysis					
		1186-1188 low to dom Kaol								
		1191 -1194 em green serc.								
		1199 em green serc.								
		1204 - 1" qtz vein @ 10° chalco and MoS_2								
		1205 - 3" qtz vein @ 60-70° chalco and MoS_2 some pyrite bottom shear @ 60°								
		1207-1209 shearing @ 60°								
		1208 4" qtz vein - sheared								
		1215 shear @ 30° dark grey gouge & chalco, pyrite, minor em green serc. adjacent								
1219	1223	slight to mod Kaolinization								
1223		END OF HOLE								

211-9437—H.P.

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Valley Cu.

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	RIM 69 - 7
Commenced	SEPTEMBER 11, 1969	Location		Tests at	TROPARI @ 550'
Completed	SEPTEMBER 17, 1969	Core Size	NQ	Corr. Dip	-53°
Co-ordinates	NORTH 98,962.58 EAST 106,629.03			True Brg.	225
Objective				% Recov.	95.8%

Hor. Comp.

Vert. Comp.

Logged by RFN

Date SEPTEMBER 13 - 17/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
		-450	4,243.62	559'	RIM 69 - 7	

Footage From	To	Description	Sample No.	Length	Analysis
		SUMMARY OF GEOLOGY			
		0 - 30 Overburden			
		30 - 559 Bethsaida Quartz Diorite			
		Alteration as follows:			
		30 - 102 Moderate Kaolinization (Argillic)			
		Sericite and quartz veining poorly developed.			
		102 - 282 Slight to moderate Kaolinization (Argillic)			
		Sericite and quartz veining very poorly developed.			
		282 - 343 Moderate Kaolinization (Argillic)			
		Sericite and quartz veining moderately developed.			
		343- 395 Fresh to slight Kaolinization.			
		395 - 428 Moderate Kaolinization (Argillic) Minor intense Kaolinization adjacent to quartz veins.			
		428 - 559 Fresh Bethsaida to only slight Kaolinization.			
		559 END OF HOLE			

211-9437—H.P.

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Dips

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	RIM 69 - 7
Commenced	SEPTEMBER 11, 1969	Location		Tests at	TROPARI @ 550'
Completed	SEPTEMBER 17, 1969	Core Size	NQ	Corr. Dip	-53°
Co-ordinates	NORTH 98,962.58 EAST 106,629.03			True Brg.	225
Objective				% Recov.	95.8%

Hor. Comp.
Vert. Comp.
Logged by RFN
Date SEPTEMBER 13 - 17/69

Claim | T Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Footage From	To	Description		Sample No.	Length	Analysis
		MINERALIZATION				
		Cu	Mo			
30	100	0.46	0.0017			
100	240	0.21	0.0044			
240	410	0.30	0.0166			
410	559	0.08	0.0075			
210	430		0.0143% Mo			
30	559	0.23	0.0088			

211-9437—H.P.

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	RIM 69 - 7		Claim	T Brg.	Collar Dip -45°	Elev. 4,243.62'	Length 559	Sheet 1 Hole No. RIM 69 - 7
Commenced	SEPTEMBER 11, 1969	Location		Tests at	TROPARI @ 550'	Hor. Comp.						
Completed	SEPTEMBER 17, 1969	Core Size	NQ	Corr. Dip	-53°	Vert. Comp.						
Co-ordinates	NORTH 98,962.58 EAST 106,629.03			True Brg.	225°	Logged by RFN						
Objective				% Recov.	95.8%	Date SEPTEMBER 13-17/69						

Footage From	To	Description	Sample No.	Length	Analysis Cu	Mo		
0	30	Overburden	31576	10	.50	.0003	30 - 40	8.5
			31577	10	.31	.0002	40 - 50	9
30	102	Bethsaida Quartz Diorite	31578	10	.42	.0007	50 - 60	10
		No oxidized zone (i.e. no malachite present)	31579	10	.49	.0003	60 - 70	10
		30 - 40 minor limonite on fracs.	31580	10	.51	.0004	70 - 80	7
			31581	10	.65	.0095	80 - 90	6.5
		BQD is predominately moderately Kaolinized (felds pale green)	31582	10	.31	.0008	90 -100	3.5
		local patches of intense kaol & emerald green (just scratched big knife)	31583	10	.24	.0008	100-110	9.5
		sericite.	31584	10	.19	.0013	110-120	8
		Mafics predominately sericitized - some only progressed to chlorite.	31585	10	.13	.0006	120-130	7.5
		1 qtz vein every 3 feet. Main attitude 60°	31586	10	.06	.0004	130-140	10
		Sericitic fractures, with a few exceptions are poorly developed.	31587	10	.14	.0007	140-150	9.5
		Sericitic borders on quartz vein are thin.	31588	10	.22	.0005	150-160	10
		Bornite: Chalcopyrite = 1 - 2 : 1	31589	10	.24	.0030	160-170	10
		31 - 33 Intense Kaol and em green sericite	31590	10	.31	.026	170-180	9.5
		31 - Small shear @ 60°	31591	10	.25	.0005	180-190	10
		32 - Shear @ 60° 1" gouge.	31592	10	.21	.0048	190-200	10
		37 - Qtz - sericite frac @ 0 - 10° borite, chalco.	31593	10	.24	.0025	200-210	10
		Intense Kaol adjacent.	31594	10	.31	.012	210-220	10
			31595	10	.17	.0032	220-230	9.5
			31596	10	.19	.0054	230-240	10
			31597	10	.35	.0055	240-250	9.5

211-9437—H.P.

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	District	Hole No. RIM 69 - 7	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Sheet 2

Hole No. RIM 69-7

Footage From	Footage To	Description	Sample No.	Length	Claim	T Brg.	Collar Dip	Elev.	Length	Analysis
		40 - 46 Alteration oscillates between intense Kaol and emerald green sericite.	31598	10	.32	.0074		250-260		10
		44 Shear @ 60° 1/2" gouge.	31599	10	.16	.0021		260-270		9.5
		49 Shear @ 75° minor gouge.	31600	10	.32	.0091		270-280		10
		52 Qtz - sericite fracture @ 0 - 10° borite chalco.	31634	10	.21	.032		280-290		10
		56 - 58 Heavy emerald green sericite.	31635	10	.37	.017		290-300		9.5
		60½ Shear @ 70° minor gouge. Adjacent intense Kaol for 1" - minor em green serc.	31636	10	.35	.0031		300-310		8
		69 - 93 Predominately intense Kaolinization - some patchy emerald green sericite,	31637	10	.30	.0053		310-320		9
		also some mod Kaol remains. 1 Qtz vein every 2 feet. C 60° amd 20 - 30°	31638	10	.18	.0024		320-330		9
		Sericite mod to well developed. Bn: chalco = 3 : 1	31639	10	.23	.0032		330-340		9.5
		84 4" qtz vein @ 60° mostly bornite - minor chalco. bottom contact - shear	31640	10	.16	.0056		340-350		10
		@ 60° 6" gouge, broken core	31641	10	.27	.021		350-360		9
102 - 282		Slight to moderate Kaolinization of plag (BQD) Very Poor Grade. Mafics fresh to chlorite	31642	10	.40	.014		360-370		10
		1 qtz veing every 4 - 5 feet. Main attitudes - 60°; 30° - borite = chalco also Hematite common	31643	10	.48	.054		370-380		10
		Sericite on veings and fracs poorly developed - also minor ortho along fracs & veins.	31644	10	.15	.0097		380-390		9.5
			31645	10	.23	.030		390-400		10
			31646	10	.66	.061		400-410		9.5
			31647	10	.11	.0058		410-420		10
			31648	10	.06	.0050		420-430		10
			31649	10	.06	.0029		430-440		10

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	District	Hole No. RIM 69 - 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	Hole No.	Sheet
					RIM 69 - 7	3

Footage From	Footage To	Description	Sample No.	Length	Analysis Cu	Analysis Mo				
		114 - 116 Increase in ortho to 10%	31650	10	.07	.0024		440-450	10	
		130 - 131½ Intense Kaol and em green sericite	31701	10	.23	.023		450-460	9	
		157 - Shearing @ 80° - gouge, broken core	31702	10	.05	.0029		460-470	7	
		157½- 159 Emerald green sericite 2 qtz veins @ 30° and 10°	31703	10	.03	.0084		470-480	10	
		163 - 172 Ortho up to 10 - 15%	31704	10	.05	.0060		480-490	10	
		164 - 165 Intense Kaol. 1/4" qtz vein @ 20°	31705	10	.02	.0064		490-500	10	
		175 - 177 Shear @ 0° slickensides @ 90° to core axis	31706	10	.18	.021		500-510	10	
		Possible MoS_2 on frac plane	31707	10	.05	.0031		510-520	10	
		178 - Shear @ 30° gouge - broken core	31708	10	.08	.0025		520-530	10	
		185 - Minor emerald green sericite	31709	10	.07	.011		530-540	10	
		191 - 192½ Emerald green sericite	31710	10	.08	.0045		540-550	10	
		192½- 194½ Fault - @ 60°	31711	9	.07	.0075		550-559	7	
		194½- 197 Emerald green sericite								
		207 - Shear @ 60° 1/4" gouge						E N D		
		1" qtz vein @ 60° and minor emerald green sericite above shear.								

211-9437—H.P.

Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Property	District	Hole No. RIM 69 - 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 | Hole No. RIM 69-7 | Sheet 4

Footage From	To	Description	Sample No.	Length	Analysis					
		212 Shear @ 60° minor gouge.								
		214 Shear @ 60° minor gouge.								
		217 1" qtz vein @ 45° - chalco - em green sericite adjacent								
		219 1" qtz vein @ 60° - chalco surrounded by bornite								
		236 Minor emerald green sericite								
		240½ Shear @ 45° qtz vein with large blebs of chalco								
		3" emerald green sericite below shear.								
		241-244½ Emerald green sericite								
		245 Shear @ 60°								
		248½-249½ 3 - ½" qtz veins @ 30 - 40° pervasive sericite between them								
		Bornite 2:1 over chalco								
		254 Minor emerald green sericite								
		255 - 256 2 - 1" qtz veins @ 55 - 60° - 1-2" sericite borders								
		large blebs of bornite and chalco								
		266 Shear @ 60° - emerald green sericite above								
		273 Shear @ 45° - qtz vein also sheared								
		275 2" qtz vein @ 30° 3" sericite border below								
		bornite - chalco - MOSZ								

211-9437—H.P.

Scale

Colour Plot & Dips

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Drill Hole Record

Comineo

Property	District	Hole No. RIM 69 - 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	Hole No. RIM 69 - 7	Sheet 5

Footage From	To	Description	Sample No.	Length	Analysis
		276 - 2 1/2" qtz veins @ 50° 6" sericite bornite chalco			
282 - 343		Predominately moderate Kaolinization. Mafics mainly to chlorite patches of			
		intense Kaol and emerald green sericite as noted below.			
		1 qtz vein every 2 feet - moderate sericite borders developed.			
		Main attitude 45° also 60°. Sericitic fractures generally poorly developed.			
		Chalco 2 - 1 over Bornite.			
		284 - 285 Emerald green sericite			
		287 - 289 Intense Kaol and em green sericite - 287½" - shear @ 60°			
		291 - 292 Emerald green sericite			
		Shear @ 60°			
		293 - 3" qtz vein @ 45° - Chalco and stringers of MoS_2			
		296 - 2" qtz vein @ 45° - Sheared off @ 60°			
		297 - 306½ Predominately emerald green sericite - some Intense Kaol.			
		315 - Minor em green sericite			
		319 - Shear @ 60° 2" qtz vein above it.			
		326 - 1" qtz vein @ 60° 2" serc borders.			
		Minor MoS_2			

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	District	Hole No. RIM 69 - 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	Hole No. RIM 69-7	Sheet 6

Footage From	To	Description	Sample No.	Length	Analysis					
		331 and 332 Small patches of porphyritic phase Bethsaida Lyke								
		336, 337, Minor emerald green sericite								
		339, 341								
343 - 395		Fresh to occas moderate Kaolinization of BQD poor grade								
		357 3" qtz - sericite chalco and MoS_2								
		363 - 366 qtz sericite bands (2 - 4") common. @ 45°								
		occasional intense Kaol adjacent								
		369 - 382 Moderate to intense Kaolinization (adjacent to qtz - serc)								
		1 qtz vein / 1½ feet. Sericite moderate to well developed								
		on qtz veins. Main atttitude @ 60°								
		chalco - moly - some bernite								
		375 Shear @ 60° 2" gauge and broken core								
		377 Shearing @ 45° - stringer of hematite								
		378 Shearing @ 60°								
		381 Shear @ 60° 2" gauge								

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	District	Hole No. RIM 69 - 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 | Hole No. RIM 69 - 7 | Sheet 7

Footage From	To	Description	Sample No.	Length	Analysis
395	415	Predominately moderate Kaolinization. Occasional patches of Intense Kaol			
		adjacent to veins.			
		1 qtz vein every 2 feet 60° main attitude			
		Moderate sericite development on vein borders.			
		Poorly developed sericite on fracs			
		Bornite - MoS_2 - Chalco in veins and sericite			
	402 -	Shear @ 60°			
	408 - 409	1 foot qtz vein @ 60° large blebs chalco - MoS_2 on fracs in vein			
	409 - 410	Core gougy - badly broken - shearing @ 60?			
415	420	Fresh to slight Kaol - Mafics to chlorite			
420	428	Moderate Kaol			
	422 -	1" qtz vein @ 45° emerald green sericite adjacent. Chalco - MoS_2			
	424 -	Shear @ 60° 1" gouge - minor em green serc adjacent			
428	440	Fresh to slight Kaol - Mafics fresh to Chloritic - Very poor grade.			
440	458	Moderate Kaol.			
	441 -	Minor em green sericite			

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Colour Plot & Dips

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Drill Hole Record

Cominco

Property	District	Hole No. RIM 69 - 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 | Hole No. RIM 69-7 | Sheet 8

Footage From	To	Description	Sample No.	Length	Analysis					
		449½ - 452 Intense Kaolinization								
		452 - 453½ Quartz vein @ 60° Chalco; pyrite and MOSZ								
		6" emerald green sericite - below vein								
458 - 559		Fresh to slight Kaolinization mafics fresh to chloritic								
		very poor mineralization.								
		465 Core ground - fragment of intense Kaolinization								
		487 - 488 Emerald green sericite								
		502 2" qtz vein @ 70° chalco and MOSZ								
		506 - 507 Em green sericite								
		517 - 518 Em green sericite and intense Kaol shear @ 60°								
		541 Shear @ 60° 1" gauge								
		556 4" gauge @ 45°								
559 End of Hole										

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Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-8
Commenced	September 22, 1969	Location		Tests at	Tropari @ 1,000'
Completed	October 2, 1969	Core Size	NQ	Corr. Dip	-45°
Co-ordinates	99, 210.43 N, 106, 888.00E			True Brg.	228°
Objective				% Recov.	

Hor. Comp.

Vert. Comp.

Logged by RFN

Date Sept. 25-Oct. 2/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	228°	-45°	4174.76	1077'	Rim 69-8	

Footage From	To	Description	Sample No.	Length	Analysis
		SUMMARY OF GEOLOGY			
0	72	OVERBURDEN			
72	863½	BETHSAIDA QUARTZ DIORITE Alteration as follows:			
		72-187 Slight to Moderate Kaolinization Quartz Veins and Seriate poor to occasionally fair development.			
		74-80 porphyry dyke (porphyritic Bethsaida)			
		187-354 Moderate to intense Kaolinization			
		Quartz Veins and Sericite generally well developed, occasionally only moderate.			
		354-413 Moderate Kaolinization, poor to occasionally moderate quartz-sericite			
		413-461 Intense Kaclinization, moderate quartz-sericite development			
		461-863½ Predominately moderate Kaolinization, local patches of intense quartz Veins and Sericite poorly developed, occasionally to moderate.			
863½	912	PORDHYRY DYKE (Porphyritic Bethsaida)			
		Quartz-Sericite development very poor.			
912	1077	BETHSAIDA QUARTZ DIORITE Alteration as follows:			
		912-1077 Predominately moderate Kaolinization local patches of intense (10-20') quartz veining and sericite poorly developed.			
1033	1042	PORDHYRY DYKE (Porphyritic Bethsaida)			
1077		END OF HOLE.			

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Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-8		
Commenced	September 22, 1969	Location		Tests at	Tropari @ 1,000'	Hor. Comp.	
Completed	October 2, 1969	Core Size	NQ	Corr. Dip	-45°	Vert. Comp.	
Co-ordinates	99, 210.43 N, 106, 88.00E			True Brg.	228°	Logged by	RFN
Objective				% Recov.		Date	Sept. 25-Oct. 2/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	228°	-45°	4174.76	1077'	Rim 69-8	

Footage From	To	Description	Sample No.	Length	Analysis
		MINERALIZATION			
0-72		OVERBURDEN			
		% Cu / % Mo			
72-220		0.40 / 0.0036			
220-330		0.61 / 0.0027			
330-610		0.43 / 0.0053			
610-1077		0.16 / 0.0090			
72-1077		0.32 / 0.0065			
810-1077		0.0141			
		Using 0.33% Cu as weighted average for 10' interval 670'-680'			
		Using 0.0031% Mo as weighted average for 10' interval 670'-680'			

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Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-8		
Commenced	September 22, 1969	Location		Tests at	Tropari @ 1000'	Hor. Comp.	
Completed	October 2, 1969	Core Size	NQ	Corr. Dip	-45°	Vert. Comp.	
Co-ordinates	99, 210.43 N, 106, 888.00 E			True Brg.	228°	Logged by	RFN
Objective				% Recov.		Date	Sept. 25-Oct 2/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	228°	-45°	4174.76	1077'	Rim 69-8	

Footage From To

Description

Sample No.

Length

Analysis

SAMPLE NO.	FOOTAGE From	FOOTAGE To	%Cu	%Mo	SAMPLE NO.	FOOTAGE From	FOOTAGE To	%Cu	%Mo	SAMPLE NO.	FOOTAGE From	FOOTAGE To	%Cu	%Mo
31934	72	80	.47	.0004	31956	290	300	.68	.0008	31978	510	520	.41	.0032
31935	80	90	.45	.0022	31957	300	310	.90	.0015	31979	520	530	.33	.0008
31936	90	100	.41	.0005	31958	310	320	.54	.0039	31980	530	540	.44	.0140
31937	100	110	.30	.0005	31959	320	330	.74	.0032	31981	540	550	.26	.0012
31938	110	120	.39	.0008	31960	330	340	.49	.0050	31982	550	560	.38	.0042
31939	120	130	.27	.0035	31961	340	350	.44	.0040	31983	560	570	.35	.0058
31940	130	140	.36	.0061	31962	350	360	.36	.0009	31984	570	580	.39	.0034
31941	140	150	.40	.0009	31963	360	370	.33	.0006	31985	580	590	.38	.0043
31942	150	160	.38	.0034	31964	370	380	.43	.0004	31986	590	600	.50	.0032
31943	160	170	.56	.0034	31965	380	390	.29	.0029	31987	600	610	.51	.0270
31944	170	180	.50	.0016	31966	390	400	.33	.0041	31988	610	620	.12	.0010
31945	180	190	.37	.0015	31967	400	410	.35	.0083	31989	620	630	.12	.0002
31946	190	200	.21	.0110	31968	410	420	.35	.0031	31990	630	640	.13	.0006
31947	200	210	.42	.0037	31969	420	430	.57	.0081	31991	640	650	.15	.0008
31948	210	220	.44	.0140	31970	430	440	.48	.0260	31992	650	660	.19	.0024
31949	220	230	.63	.0025	31971	440	450	.41	.0036	31993	660	670	.18	.0032
31950	230	240	.51	.0040	31972	450	460	.53	.0077	31994	670	672	.89)	.0238)
31951	240	250	.42	.0004	31973	460	470	.42	.0042	31995	672	680	.19) .53	.0032) 0.0030
31952	250	260	.51	.0012	31974	470	480	.75	.0019	31996	680	690	.24	.0005
31953	260	270	.64	.0002	31975	480	490	.58	.0005	31997	690	700	.12	.0004
31954	270	280	.57	.0006	31976	490	500	.48	.0005	31998	700	710	.08	.0019
31955	280	290	.56	.0120	31977	500	510	.36	.0006	31999	710	720	.04	.0004

211-9437—H.P.

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-8
Commenced	September 22, 1969	Location		Tests at	Tropari @ 1000'
Completed	October 2, 1969	Core Size	NQ	Corr. Dip	-45°
Co-ordinates	99, 210.43 N, 106, 888.00 E			True Brg.	228°
Objective				% Recov.	

Hor. Comp.

Vert. Comp.

Logged by RFN

Date Sept. 25-Oct. 2/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	228°	-45°	4174.76	1077'	Rim 69-8	

Footage From To | Description | Sample No. | Length | Analysis

SAMPLE NO.	FOOTAGE From	FOOTAGE To	%Cu	%Mo	SAMPLE NO.	FOOTAGE From	FOOTAGE To	%Cu	%Mo
32000	720	730	.09	.0017	33172	940	950	.11	.0073
33151	730	740	.31	.0052	33173	950	960	.09	.0086
33152	740	750	.32	.0035	33174	960	970	.08	.0039
33153	750	760	.24	.0035	33175	970	980	.19	.0082
33154	760	770	.42	.0044	33176	980	990	.18	.0330
33155	770	780	.26	.0038	33177	990	1000	.12	.0130
33156	780	790	.10	.0005	33178	1000	1010	.09	.0019
33157	790	800	.08	.0033	33179	1010	1020	.05	.0080
33158	800	810	.13	.0057	33180	1020	1030	.26	.0420
33159	810	820	.15	.0110	33181	1030	1040	.09	.0075
33160	820	830	.20	.0160	33182	1040	1050	.17	.0091
33161	830	840	.09	.0140	33183	1050	1060	.10	.0190
33162	840	850	.24	.0200	33184	1060	1070	.11	.0042
33163	850	860	.38	.0069	33185	1070	1077	.09	.0120
33164	860	870	.19	.0041	[illegible]	[illegible]			
33165	870	880	.15	.0150					
33166	880	890	.16	.0340					
33167	890	900	.09	.0110					
33168	900	910	.16	.0140					
33169	910	920	.14	.0430					
33170	920	930	.04	.0040					
33171	930	940	.12	.0088					

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-8
Commenced	September 22, 1969	Location		Tests at	Tropari @ 1000'
Completed	October 2, 1969	Core Size	NQ	Corr. Dip	-45°
Co-ordinates				True Brg.	228°
Objective				% Recov.	

Hor. Comp.

Vert. Comp.

Logged by RFN

Date Sept. 25 - Oct. 2/69

Claim

T Brg. 228°

Collar Dip -45

Elev.

Length 1077'

Hole No. Rim 69-8

Sheet 1

Footage From	Footage To	Description	Sample No.	Length	Analysis			% Recovery	
0	72	OVERBURDEN						72 - 80	7
								80 - 90	10
72	-	Bethsaida Quartz Diorite						90 -100	9
		No oxidized zone encountered						100-110	8.5
		72 - 187 Slight to moderate Kaolinization of the Plagioclases - alteration often						110-120	9.5
		variable to intense as noted below.						120-130	9.5
		1 quartz vein every 2 feet. Sericite development poor to occasionally						130-140	10
		moderate on vein borders and fractures, and thus the mineralization is						140-150	7
		poor to only fair.						150-160	10
		74 - 80 Porphyry dyke. Mostly tan to dark green aphanitic ground mass with						160-170	8.5
		scattered quartz eyes and feldspar phenocrysts - poorly mineralized.						170-180	9
		Contacts vaugue - appears steep.						180-190	6
		81 - 82 Massive sericite @ 45-60° abundant disseminated bornite.						190-200	6
		93 - 96 Emerald green sericite common. Chalcopyrite the main sulphide.						200-210	8
		102 - 108 Intense Kaolinization						210-220	8
		106 Shear @ 60° - 6" gauge.						220-230	9.5
		118 - 128 Predominately intense Kaolinization.						230-240	9.5
		Approx. 1 quartz Vein/4 feet. Poor Sericite development						240-250	10
		125 - 4" quartz Vein @ 45°						250-260	9.5
		127 - Shear with MoS_2 on shear plane.						260-270	9.5
		131 - 133 Shearing @ 60° 1" gouge						270-280	9.5
								280-290	9.5

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim69-8		
Commenced	September 22, 1969	Location		Tests at	Propari @ 1000'	Hor. Comp.	
Completed	October 2, 1969	Core Size	NQ	Corr. Dip	-45o	Vert. Comp.	
Co-ordinates				True Brg.	228°	Logged by	RFN
Objective				% Recov.		Date	Sept. 25 - Oct. 2/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	228°	-45°	4174.76	1077'	Rim 69-8	2

Footage From	To	Description	Sample No.	Length	Analysis			% Recovery	
		145 - 151 Emerald green sericite common also some Intense Kaol						290-300	9.5
		148 - 149 Shearing @ 60° predominately gouge.						300-310	10
		158 - 172 Intense Kaolinization						310-320	10
		Sericite often moderately developed (only fair grade)						320-330	10
		161 - 3" quartz Vein @ 45°						330-340	9.5
		Grade shows slight alteration (I - Mod.)						340-350	10
		177 - 180 Intense to very intense Kaolinization						350-360	9.5
		179 - 1½" quartz vein @ 10° chalco, bornite						360-370	9.5
		187 - 240 Moderate oscillating to intense Kaolinization of the plag. grade appears						370-380	9.5
		fair to good with 1 quartz Vein every 1½ feet and sericite moderately to						380-390	9.5
		well developed on Veins and fractures, ortho common along Veins and						390-400	10
		seri-fractures.						400-410	9.5
		Bornite = chalcopyrite						410-420	9.5
		188-190 Emerald green sericite						420-430	9.5
		193 - 2" quartz Vein @ 50° chalco-bornite						430-440	9.5
		193½ - fragements of quartz Vein - MoS_2						440-450	9.5
		207 - 1½" quartz Vein @ 20° - bornite						450-460	9
		208 - 209 3 quartz Veins as follows:						460-470	9
		1" @ 45° chalco-bornite						470-480	10
		1" @ 60° chalco-bornite - MoS_2						480-490	9.5
		1¼" @ 45° chalco-bornite						490-500	9.5
		213 - 217 Emerald green sericitecommon						500-510	9.5

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-8		
Commenced	September 22, 1969	Location		Tests at	Propari @ 1000'	Hor. Comp.	
Completed	October 2, 1969	Core Size	NQ	Corr. Dip	-45°	Vert. Comp.	
Co-ordinates				True Brg.	228°	Logged by	RFM
Objective				% Recov.		Date	Sept. 25 - Oct. 2/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	228°	-45°	4174.76	1077'	Rim 69-8	5

Footage From	Footage To	Description	Sample No.	Length	Analysis			% Recovery	
		218 - 219 Shears @ 60°						510-520	8.5
		6" quartz Vein between 1-2" gouge						520-530	8.5
		Chalco - MoS_2						530-540	8.5
		226 - 2 - ½" quartz Veins @ 30-35° large blebs - chalco- bornite						540-550	9
		Well developed serc. borders.						550-560	9.5
		229 - Emerald green sericite Shear(?)						560-570	9.5
		231 - 1½" quartz Vein @ 20° large blebs - chalco - bornite						570-580	9.5
		1-2" serc. borders.						580-590	9.5
		235 - 1" quartz Vein @ 30° bornite chalco. 1" serc. borders.						590-600	10
	240 - 272	Mostly moderate Kaol Sericite and quartz Veining mod. to poor development						600-610	9.5
		- grade poor to fair.						610-620	9.5
		250 - 2" quartz Vein 50° bornite - chalco abundant.						620-630	9.5
		251 Emerald green sericite						630-640	10
		255 - 4" quartz Vein @ 60° bottom contact sheared. Bornite - chalco						640-650	10
		259 - ½" quartz Vein @ 30° blebs bornite - chalco.						650-660	9
		263 - 264 Shearing @ 45 and 60° Quartz Veining 3" Veins bornite						660-670	9
	272 - 319	Mostly Intense Kaol. Sericite mod. to well developed - fair to good grade.						670-680	9.5
		281 - 284 patchy emerald green sericite - chalcopyrite						680-690	9.5
		284 Shear quartz Vein @ 60° chalco, MoS_2						690-700	9.5
		286 - emerald green sericite - chalco						700-710	10
		290 - 294½ Shearing @ 30°, 10-20° gouge common.						710-720	10
		304 - 2" quartz Vein @ 15° blebs of chalco, some bornite						720-730	10

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Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-8		Claim	T Brg. 228°	Collar Dip -45°	Elev. 4174.76	Length 1077'	Sheet 4
Commenced	September 22, 1969	Location		Tests at	Propari @ 1000'	Hor. Comp.						Hole No. Rim 69-8
Completed	October 2, 1969	Core Size	NQ	Corr. Dip	-45°	Vert. Comp.						
Co-ordinates				True Brg.	228°	Logged by	RFN					
Objective				% Recov.		Date	Sept. 25 - Oct. 2/69					

Footage From	To	Description	Sample No.	Length	Analysis			% Recovery	
		310 - 1" quartz Vein @ 15° Very coarse grained Sericite borders (up to 2" thick)						730-740	9
		large blebs chalco, bornite.						740-750	6
	319 - 335	Mostly moderate Kaolinization grade lower than (272-319)						750-760	8
		326 - 328 Intense Kaol. and patchy emerald green sericite						760-770	8
		326½ - ½" quartz Vein @ 30° ¼" solid chalco stringer						770-780	9
		335 - 2" quartz Vein @ 30°						780-790	9
	335 - 354	Mostly intense Kaolinization						790-800	9.5
		Sericite and quartz usually only moderately developed. 1 quartz Vein/3-4 feet						800-810	9.5
		Grade only fair.						810-820	9.5
		341 - Shear @ 60(?) 4" gouge emerald green sericite adjacent						820-830	9.5
		345 - 4" quartz Vein @ 60° chalco - MoS_2, bornite						830-840	9.5
		emerald green serc. adjacent.						840-850	9.5
		350 - emerald green sericite - shears @ 60, 45°						850-860	9.5
		~~Verg.~~ Vug with chalco, hematite, quartz crystals, minor calcite.						860-870	9.5
	354 - 413	Predominately moderate Kaolinization						870-880	9
		Generally poor to occasionally moderate sericite development.						880-890	9
		1 quartz Vein / 4-5 feet						890-900	8
		Grade poor.						900-910	9.5
		368 - 375 Emerald green sericite common						910-920	10
		387 - 3" orthorich dykelet @ 50° cut by mineralized serc. and quartz Veins.						920-930	9.5
		394 - 4" quartz Vein @ 45° few blebs of chalco.						930-940	9.5
		399 - 401 Emerald green sericite						940-950	9

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-8		
Commenced	September 22, 1969	Location		Tests at	Propari @ 1000'	Hor. Comp.	
Completed	October 2, 1969	Core Size	NQ	Corr. Dip	-45°	Vert. Comp.	
Co-ordinates				True Brg.	228°	Logged by	RPN
Objective				% Recov.		Date	Sept. 25 - Oct. 2/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	228°	-45°	4174.76	1077'	Rim 69-8	5

Footage From	Footage To	Description	Sample No.	Length	Analysis		% Recovery	
		404 - 2" quartz Vein @ 60° - chalco, MoS_2					950-960	9
	413 - 461	Intense Kaolinization - occasionally only to moderate Kaol.					960-970	9
		Sericite now moderately developed.					970-980	9
		Approx. 1 quartz vein/3 feet					980-990	9
		Grade up to fair.					990-1000	10
		413 - 417 Emerald green sericite common					1000-1010	9
		424 - shear @ 45° 1" gouge, quartz, chalco.					1010-1020	9
		436 - 2" quartz Vein @ 45° chalco - MoS_2 - bornite					1020-1030	8
		437 - 1" quartz Vein @ 60° chalco - MoS_2					1030-1040	8
		438 - 1½" quartz Vein @ 60° Bornite - chalco					1040-1050	9.5
		440 - 2" quartz Vein @ 60° few blebs of bornite					1050-1060	9.5
		442 Minor emerald green sericite					1060-1070	8.5
		458 - 2" quartz Vein @ 40° blebs of bornite - chalco - MoS_2					1070-1078	6
	461 - 863½	Predominately moderate Kaolinization variable to intense Kaol - usually locally						
		adjacent to quartz Veining and heavy Sericite development. Mafics to chlorite						
		generally the mineralization is poor to only fair. (Quartz-sericite poorly						
		developed). Local patches of good grade as noted below.						
		465 - 3" quartz Vein @ 50° chalco-hematite minor bornite						
		470 - 495 Mostly intense Kaolinization - Sericite well developed with						
		attendant good grade.						
		1 quartz Vein/2 feet. Bornite - chalcopyrite Veins @ 20-30° and 50-60°						
		474 - 475 emerald green sericite - 2" quartz Vein @ 20° - chalcopyrite, calcite						

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Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-8
Commenced	September 22, 1969	Location		Tests at	Propari @ 1000'
Completed	October 2, 1969	Core Size	NQ	Corr. Dip	-45°
Co-ordinates				True Brg.	228°
Objective				% Recov.	

Hor. Comp.

Vert. Comp.

Logged by RFN

Date Sept. 25 - Oct. 2/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	228°	-45°	4174.76	1077'	Rim 69-8	6

Footage From	To	Description	Sample No.	Length	Analysis					
		480 Shear @ 20°								
		488 Shear @ 45°(?) 3" gouge emerald green sericite adjacent								
		503 1" quartz Vein @ 20° large blebs of bornite - chalco								
		well developed Sericite borders.								
		504 2" quartz Vein @ 25° few blebs of chalco - thin serc. borders.								
		Vein and Sericite cut by quartz - hematite stringer @ 30°								
		524 - 554 Patchy emerald green sericite throughout - Intense Kaolinization								
		also common. Grade generally poor. Quarts sericite poorly developed.								
		525 - Shear @ 70° minor gouge								
		534 - Shearing @ 70° 1" quartz Vein - chalco								
		534 - Shear @ 75° 3" quartz Vein - abundant chalco - MoS_2								
		550 3" quartz Vein @ 65° chalco - MoS_2								
		580 -582 quartz Veining and Shearing @ 60-70° emerald green serc. and Intense								
		Kaol adjacent - chalco - MoS_2								
		584 - Shear @ 70° 1" quartz with chalco also sheared.								
		587 - Emerald green sericite - abundant chalcopyrite - Shear @ 40°								
		600½ - 2" quartz Vein @ 40° abundant Chalco minor emerald green serc. and								
		Intense Kaol adjacent								
		603 - 1½" quartz Vein @ 60° chalco, MoS_2, Shearing on contact.								
		603½ 1" quartz Vein @ 40° chalco, MoS_2, Sheared contact.								
		610 - 612 Emerald Green Sericite								
		613 Emerald green sericite								

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Drill Hole Record

Cominco

Property	Valley Copper	District	Highland Valley	Hole No.	Rim 69-8
Commenced	September 22, 1969	Location		Tests at	Propari @ 1000'
Completed	October 2, 1969	Core Size	NQ	Corr. Dip	-45°
Co-ordinates				True Brg.	228°
Objective				% Recov.	

Hor. Comp.

Vert. Comp.

Logged by RFN

Date Sept. 25 - Oct. 2/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.
	228°	-45°	4174.76	1077'	Sheet 7 Rim 69-8

Footage From	To	Description	Sample No.	Length	Analysis
		640 - 647 Emerald green sericite			
		646 Shears @ 45°			
		660 - Shear @ 40° slickensides @ 90° to core axis minor emerald green sericite			
		670 - 672 Massive Sericite - disseminated bornite and chalco			
		675 - Shear @ 60°			
		682½ - 6" massive sericite disseminated bornite, minor chalco.			
		687 - 688 Emerald green sericite			
		692 - 712' thin (1/10") stringers of quartz-hematite scattered throughout			
		724 - 732 fresh Bethsaida quartz diorite - very poor grade.			
		736 - 738 Shearing @ 45° and 60° gouge - minor emerald green sericite			
		741 - 755 Emerald green sericite - shearing @ 10-30° and 45°			
		Chalcopyrite common throughout			
		Quartz Veins contain chalcopyrite and cubes of pyrite			
		minor MoS_2 - also some calcite			
		761 - 775 Intense Kaolinization grade is poor.			
		761 - 762 Emerald green sericite. Shear @ 60°			
		767 Shear @ 60°			
		768½ - Shear @ 30°			
		769 - 771 Emerald green sericite chalco - MoS_2			
		770½ - Shear @ 80°			
		777 - 781 Intense Kaol and emerald green sericite			
		780 Shear @ 45° and 60° 4" gouge.			

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Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-8		
Commenced	September 22, 1969	Location		Tests at	Propari @ 1000'	Hor. Comp.	
Completed	October 2, 1969	Core Size	NQ	Corr. Dip	-45°	Vert. Comp.	
Co-ordinates				True Brg.	228°	Logged by	RFN
Objective				% Recov.		Date	Sept. 25 - Oct. 2/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	228°	-45°	4174.76	1077'	69-8	

Footage From	To	Description	Sample No.	Length	Analysis					
		806 Emerald green sericite								
		807½ - Shear @ 30°								
		808 - 814 Emerald green sericite								
		810 - Shear @ 45°								
		820 - 823 - few quartz-hematite stringers @ 30-45°								
		828 - 829 - Emerald green sericite								
		Shear @ 20°								
		830 - Quartz Vein @ 20° large blebs of chalco - also MoS_2 - associated								
		sericite . Vein and sericite but by hematite stringer @ 0°.								
		830½ Shear @ 60° - gouge - rock crumbly.								
		832 - Emerald green sericite								
		840 - 841 Emerald green sericite								
		2" quartz Vein @ 10° - slicken sides on shear in quarts @ 80 to core axis								
		large blebs of chalcopyrite, MoS_2								
		844 - 844 Patchy emerald green sericite - few shears @ 45°								
		858 Shear @ 0-5°								
		861 Shear @ 60° 1" gouge - emerald green seric. adjacent								
	863½ - 912	Porphyrydyke - porphyritic phase of the Bethsaida								
		large euhedral to slightly rounded quartz eyes.								
		plagioclase phenocrysts - usually intensly Kaolinized								
		Small, irregular mafics peppered throughout dark green groundmass								
		Quartz Veining and sericite development very poor.								

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-8		
Commenced	September 22, 1969	Location		Tests at	Propari @ 1000'	Hor. Comp.	
Completed	October 2, 1969	Core Size	NQ	Corr. Dip	-45°	Vert. Comp.	
Co-ordinates				True Brg.	228°	Logged by	RN
Objective				% Recov.		Date	Sept. 25 - Oct. 2/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	228°	-45°	4174.76	1077'	RM 69-8	9

Footage From	To	Description	Sample No.	Length	Analysis
		874 - Vuggy quartz vainlet - calcite in Vug.			
		878 - 883 Shear @ 0° - minor dark grey gouge.			
		902 - 912 Pervaisive Intense Kaolinization only quartz eyes remain unaffected.			
		912 - 1033 Predominately moderate Kaolinization - plagioclase green - just scratched by			
		a knife.			
		quartz Veining very uncommon)			
		sericite poorly developed) poor grade.			
		desseminated hematite (1-2%)			
		minor ortho on some of the fractures.			
		chalco - MoS_2 sparse throughout			
		occasional quartz - hematite stringer encountered			
		919 - Specs of MoS_2 on hairline fracture @ 60°			
		920 - quartz stringer @ 30° - specs of MoS_2			
		930 - shear @ 50°			
		932 - shear @ 80° 1" gouge			
		939 - shear in quartz vein @ 65° chalco, MoS_2			
		943 - 1" quartz Vein @ 45° chalco - 3" sericite adjacent			
		958 Shearing @ 60° 6" gouge 3 feet Intense Kaol. adjacent on either side.			
		fragments of quartz vein below shear - chalco in it.			
		967 - quartz hematite stringer appears to be several small			
		"en-echelon" fractures @ 20°			
		973 - 993 predominately intense Kaolinization patchy emerald green sericite.			

211-9437—H.P.

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-8		
Commenced	September 22, 1969	Location		Tests at	Propari @ 1000'	Hor. Comp.	
Completed	October 2, 1969	Core Size	NQ	Corr. Dip	-45°	Vert. Comp.	
Co-ordinates				True Brg.	228°	Logged by	RFN
Objective				% Recov.		Date	Sept. 25 - Oct. 2/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	228°	-45°	4174.76	1077'	Rim 69-8	10

Footage From	To	Description	Sample No.	Length	Analysis					
		978 6" quartz Vein @ 60° blebs of chalco, MoS_2								
		minor emerald green sericite adjacent								
		979 - 981 - Shearing @ 60°								
		@ 980 - 4" gouge also shear @ 30°								
		patchy emerald green sericite								
		981' 1" gouge								
		982 - MoS_2 slip @ 20°								
		987 - Shear @ 60° ½" dark grey gouge								
		2" quartz Vein chalco - MoS_2								
		998 - Shear @ 45' 6" gouge, broken core								
		1012 - emerald green sericite1025 - 1033								
		1025 - 1033 Intense Kaolinization								
		1026 Shear @ 45°, ¼" quartz Vein - chalco - MoS_2								
		1028 - 1029 Shearing @ 30-45° 6" gouge								
		1032 Shear @ 45°, 60°								
	1033 - 1042	Porphyrydyke (porphyritic phase of the Bethsaida)								
		1042 - MoS_2 on fracture.								
		1046 - Shear @ 10° - 2" gouge								
		1051 - MoS_2 on fracture @ 10°								
		1042 - 1076 Mod. to Intense Kaol.								
		Very poor quartz - sericite development.								
		1062 - emerald green sericite								

211-9437—H.P.

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-8		
Commenced	September 22, 1969	Location		Tests at	Propari @ 1000'	Hor. Comp.	
Completed	October 2, 1969	Core Size	NQ	Corr. Dip	-45°	Vert. Comp.	
Co-ordinates				True Brg.	228°	Logged by	RFN
Objective				% Recov.		Date	Sept. 25 - Oct. 2/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	228°	-45°	4174.76	1077'	Rim 69-8	11

Footage From	Footage To	Description	Sample No.	Length	Analysis
		1071 - MoS_2 on Shear @ 20°			
		1072 - Shear - quartz Vein @ 45° chalco - MoS_2			
		1076 - 1077 Porphyry dyke (Bethsaida phase)			
		1077 END OF HOLE			

211-9437—H.P.

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	RIM 69-9
Commenced	Sept. 18/69	Location		Tests at	Tropari at 570'
Completed	Sept. 26/69	Core Size	NQ	Corr. Dip	-46°
Co-ordinates				True Brg.	225
Objective				% Recov.	92.5

Hor. Comp.

Vert. Comp.

Logged by RFN

Date Sept. 22-26/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
		-45°		580'	RIM 69-9	

Footage From	Footage To	Description	Sample No.	Length	Analysis
		SUMMARY OF GEOLOGY			
0	51	Overburden			
51	580	Bethsaida Quartz Diorite			
		Predominately fresh to only slight Kaol. (argillic) Sericite poorly developed,			
		qtz. veining poor 1 every 6 feet (average)			
		199 - 221 moderate kaolinization			
		261 - 277 Massive sericite and well mineralized			
		325 - 357 Moderate to Intense Kaolinization			
		366 - 380 Intense Kaolinization			
		485 - 501 Predominately Intense Kaol.			
	580	END OF HOLE			

211-9437—H.P.

cale

olour Plot
Dips

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	RIM 69-9
Commenced	September 18, 1969	Location		Tests at	Tropari @ 570'
Completed	September 26, 1969	Core Size	NQ	Corr. Dip	-46°
Co-ordinates				True Brg.	
Objective				% Recov.	

Hor. Comp.
Vert. Comp.
Logged by RFN
Date Sept. 22-26/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
		-45°		580'	Rim 69-9	1

Footage From	Footage To	Description	Sample No.	Length	Analysis Cu	Analysis Mo			
0	51	Overburden	31880	9	.16	.0024		51	60
51	580	Bethsaida Quartz Diorite predominately fresh to slight Kaolin. (qtz. veining	31881	10	.41	.0017		60	70
		uncommon, 2 - 6 thin ser. frac./ft. at 10 - 30°). Mineralization is poor except	31882	10	.28	.0005		70	80
		where quartz veins and sericite are noted below.	31883	10	.77	.0014		80	90
			31884	10	.33	.0007		90	100
		62½ 2½" qtz. vein at 80 few blebs of bornite, chalco.	31885	10	.40	.0044		100	110
		63 - 65 3 - ½" qtz. veins at 60° adjacent sericite and emerald green. Sericite	31886	10	.61	.0089		110	120
		chalco pyrite, minor bornite. Sericite chalco pyrite, minor bornite	31887	10	.38	.0060		120	130
		74 1" qtz. vein at 55°, Bornite, chalco.	31888	10	.20	.0037		130	140
		79 Small patch Intense Kaolinization.	31889	10	.28	.0023		140	150
		84½ - 86 Massive Ser. contact at 45°, abundant disseminated bornite, chalco	31890	10	.30	.0087		150	160
		85½ - 1" qtz. vein at 60° - cuts the sericite blebs of bornite,	31891	10	.22	.0130		160	170
		some chalco.	31892	10	.24	.0071		170	180
		88 1" qtz. vein at 60° blebs of bornite - chalco	31893	10	.14	.0021		180	190
		89 2" qtz. vein at 60° - srct. and intense kaol adjacent large blebs	31894	10	.26	.0009		190	200
		of chalco pyrite.	31895	10	.25	.0270		200	210
		90 1½" qtz. vein at 60° bornite, chalco	31896	10	.15	.0010		210	220
		90½ - 92 ¼" qtz. ser. stringer at 0 - 5° bornite.	31897	10	.27	.0055		220	230
		96 2 bands of mafics up to 20% approx. 45° to core.	31898	10	.35	.0430		230	240
		99 - 103 qtz. veining and sericite well developed. chalco - minor bornite 5 qtz.	31899	10	.19	.0017		240	250
		veins between ¼ - ½" at 0 - 10, 45, 60°.	31900	11	.06	.0008		250	261
		103½ 3" qtz. vein at 60°	31901	9	1.90	.0006		261	270
		112 1" qtz. vein at 30° little mineralization MoS_2 in ser. borders ¼" qtz.	31902	7	1.90	.0013		270	277
		vein cutting at 30° bornite, chalco.	31903	3	.28	.0004		277	280
			31904	10	.12	.0024		280	290
			31905	10	.13	0010		290	300
			31906	10	.24	.0010		300	310
			31907	10	.25	.0011		310	320

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Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Property	District	Hole No.	
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
					RIM 69-9	2

Footage From	To	Description	Sample No.	Length	Analysis Cu	Mo		
		113 - 114 ¼ qtz. serc. vein at 0 - 5° bornite.	31908	10	.29	.0140	320	330
		114 - 4" qtz. vein at 60° bornite 6" qtz. serc. adjacent	31909	10	.27	.0013	330	340
		115 2 ¼" qtz. serc. veins at 10° blebs of bornite	31910	10	.26	.0026	340	350
		127 4" qtz. vein at 60° bornite minor chalco, MoS_2	31911	10	.36	.0060	350	360
		133 2 - ¼" qtz.s.veins at 30° bornite	31912	10	.37	.0310	360	370
		143 - 145 Emerald green sericite minor chalco	31913	10	.45	.0095	370	380
		150½ 1/2" qtz. vein at 30° chalco - bornite	31914	10	.18	.0039	380	390
		151½ 1" qtz. vein at 60° bornite - chalco	31915	10	.14	.0055	390	400
		156 ½" qtz. vein at 30° bornite - MoS_2	31916	10	.15	.0017	400	410
		165 2" qtz. vein at 60° bn, chalco, MoS_2	31917	10	.20	.0040	410	420
		171 3" qtz. vein at 60° shearing also present - chalco - MoS_2	31918	10	.08	.0018	420	430
		173 3" sericite bornite - hematite.	31919	10	.21	.0110	430	440
		189 ¼" qtz. vein at 20° blebs of bornite	31920	10	.21	.0032	440	450
		191 patch of ortho. - vuggy with calcite xls.	31921	10	.14	.0100	450	460
		192 3" sericite - bornite.	31922	10	.15	.0025	460	470
		199 - 211 moderate to just becoming intense kaol.	31923	10	.07	.0051	470	480
		203 - 204 fragments of qtz. vein at 60° abundant chalco and MoS_2	31924	10	.18	.0130	480	490
		205 - 3" and 1" qtz. veins at 60° chalco, MoS_2	31925	10	.32	.0050	490	500
		210 - ½" qtz vein at 30° chalco.	31926	10	.15	.0059	500	510
		216 ½" qtz. veins at 45° chalco	31927	10	.08	.0041	510	520
		221 2" qtz. vein at 70° bornite, chalco - Intense Kaol. adjacent	31928	10	.10	.0280	520	530
		225 3" qtz. vein at 70° - bornite, chalco, MoS_2	31929	10	.17	.0330	530	540
			31930	10	.25	.0280	540	550
			31931	10	.12	.0170	550	560
			31932	10	.13	.0270	560	570
			31933	10	.12	.0055	570	580

Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Property	District	Hole No.	
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. RIm 69-9 | Sheet 3

Footage From	Footage To	Description	Sample No.	Length	Analysis
		227 6" band with 40% mafics (biotite), 30% magnetite, remainder qtz.			
		eyes are plag.			
		231 1" qtz. vein at 60° bornite, chalco			
		237½ 2" qtz. vein at 45° chalco, MoS_2 bornite, Orthoclase adjacent			
		240½ 1 qtz. vein at 60° another at 45° ortho and intense kaol. adjacent			
		chalco, bornite.			
		256 1/4" qtz. vein at 60°. Intensly kaol. and sheared BQD adjacent			
		261 - 277 Massive ser. - very well mineralized abundant diss. bornite and chalco			
		remnant "books" of ser. biotite. Top contact shear at 30°, bottom			
		contact at 60° 2" intense kaol. adjacent			
		265 - ½" qtz. veins cuts ser. at 60°			
		268 - 6" qtz. vein at 45 - 60 blebs of bornite			
		271 - ¼" qtz. vein at 45° chalco - minor bornite			
		274 - ½" qtz. vein at 50° blebs of chalco			
		276 - ½" qtz. vein at 30° blebs of chalco.			
		285 - 292 Ortho up to 15 - 20%			
		293 - 298 Shearing at 0° and 45°			
1		307 1½" qtz. vein at 60° chalco, bornite) Intense Kaol. adjacent			
		307½ 1" qtz. vein at 30° chalco)			
		312 ½" qtz. vein at 75° chalco			
		315 Emerald green sericite, chalco			
		316 ½" qtz. vein at 60° Intense Kaol. adjacent			

211-9437—H.P.

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	District	Hole No.	
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
					RIM 69-9	4

Footage From	To	Description	Sample No.	Length	Analysis					
		323 2" qtz. vein at 40° chalco, MoS_2								
		325-357 Moderate to intense kaol. locally around qtz. veins and qtz. - serc. fract. up to 3 - 6 fracs/ft.								
		325 - 1" qtz. vein at 60° bornite, minor chalco								
		326 - 1/10" stringer of bornite at 60°								
		336½ - shear at 60°, intense kaol. adjacent								
		338 - ¼" qtz. vein at 0 - 5° bornite, chalco								
		340 - ½" qtz. vein at 70° bornite, chalco.								
		342½ - 3" massive sericite - disseminated bornite								
		348½ - shearing at 45°, and 80°, intense kaol. adjacent								
		353 - ½" qtz. vein at 45° large blebs of bornite and chalco								
		366 - 380 Mostly Intense kaolinization								
		366½-367½ - ser. abundant ¼" qtz. vein at 60° bornite								
		368 - shear at 10 - 20°								
		368½ - 4" qtz. vein at 60° chalco - bornite blebs - MoS_2								
		372 - 2 - ½" qtz. veins at 60° bornite								
		372½ - shear at 60°								
		375 - 2 - ½" qtz. veins at 60° bornite								
		377 - 2" qtz. vein at 60° blebs of bornite								
		378 - fragments of qtz. veining - chalco								
		395 - 398 Moderate kaol. - ptchy. e.g. ser. chalco. main sulphide								
		403 2" qtz. vein at 60° bornite, chalco.								

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Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Property	District	Hole No.	
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
					RIM 69-9	5

Footage From	To	Description	Sample No.	Length	Analysis
		405 - 408 Mod. Kaol. Ser. fract. fairly well developed.			
		411 - 417 Intense Kaol.			
		413 - 1" qtz. vein at 60° chalco, MoS_2			
		414 - 416 - shearing at 60° (?)			
		416 - 1" qtz. vein at 60° chalco, MoS_2			
		420 Shear at 45° e.g. ser. adjacent			
		429 ½" qtz. vein at 70° chalcopyrite			
		431 Shear at 60° ½" gouge e.g. ser. and ser. adjacent			
		433 ½" qtz. vein at 20° minor bornite			
		437 2" qtz. vein at 60° - bornite - chalco - MoS_2			
		442 ½" qtz. vein at 10° chalco - bornite			
		443 1" band of Sericite at 20° dissem. bornite, some chalco			
		446 2" qtz. vein at 60° bornite - sericite			
		456½ shear at 45° - minor gouge, MoS_2			
		458 1" band of ser. at 10° dissem. bornite			
		475 E.G. ser. and intense Kaol. - shearing at 60°			
		480 ½" qtz. vein at 60° E.G. serc. and intense kaol. adjacent, chalco, MoS_2			
		482½ ½" qtz. vein at 60° chalco - E.G. ser. adjacent			
		485½ - 490 Intense Kaol. and patchy E.G. serc.			
		487 - ½" qtz. vein at 45° chalco, MoS_2			
		488 - 1½" qtz. vein at 30° - chalco, MoS_2			
		494-501½ Intense Kaol. and E.G. sericite			

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Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	District	Hole No.	
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
					RIM 69-9	6

Footage From	Footage To	Description	Sample No.	Length	Analysis					
		495 - shear at 70°								
		497 - shear at 60° 6" gouge, shear at 70° 2" gouge								
		499								
	516	Shear at 50° e.g. ser. adjacent								
		517 ~~Shear at 60° chalco. ser. and chalco adjacent~~								
		528 Shear at 70° MoS_2, qtz. stringer								
		539 1" qtz. vein at 45° chalco, MoS_2								
		542 ½" qtz. vein at 75° chalco and MoS_2								
		550 4" qtz. vein at 60° chalco and MoS_2								
		553 ½ qtz. vein at 60° ser. borders 1" - chalco								
		562 1/10" stringer of MoS_2 at 60°								
		564 ½" qtz. vein at 75° - chalco								
		565½ ½" qtz. vein at 75° - chalco								
		566½ 2" qtz. vein with shearing at 80°, intense kaol. adjacent								
		574 1/2" qtz. vein at 30° adjacent intense kaol. and e.g. ser.								
		578 1/2" qtz. vein at 45° - chalco								
580		END OF HOLE								

211-9437—H.P.

Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Ima Retain

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-10
Commenced	September 27, 1969.	Location		Tests at	Tropari @ 600'
Completed	October 7, 1969.	Core Size	NQ	Corr. Dip	-43°
Co-ordinates	98,114.97 N, 107,610.19 E			True Brg.	
Objective				% Recov.	

Hor. Comp.

Vert. Comp.

Logged by RFH

Date Oct. 1-8/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
		-45°	4203.27	620'	Rim 69-10	

Footage From	To	Description	Sample No.	Length	Analysis
		SUMMARY OF GEOLOGY			
0	61	OVERBURDEN			
61	620	BETHSAIDA QUARTZ DIORITE Alteration as follows:			
		61-450 Slight to Moderate Kaolinization (argillic) - Occasional patch to intense quartz veining and Sericite poorly developed with a few areas of moderate.			
		224-262 Orthoclase up to 20 - 35%.			
		450-538 Moderate to intense Kaolinization. Poor to occasionally moderate qtz. and Sericite development.			
		538-620 Slight to Moderate Kaolinization - quartz veining and sericite poorly developed.			
620		END OF HOLE.			

211-9437—H.P.

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-10
Commenced	September 27, 1969.	Location		Tests at	Tropari @ 600'
Completed	October 7, 1969.	Core Size	NQ	Corr. Dip	-43°
Co-ordinates	98,114.97 N, 107,610.19 E			True Brg.	
Objective				% Recov.	

Hor. Comp.

Vert. Comp.

Logged by RFN

Date Oct. 1-8, 1969.

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
		-45°	4203.27	620'	Rim 69-10	

Footage From	To	Description			Sample No.	Length	Analysis
			MINERALIZATION				
		Cu	Mo				
61-160		0.41	~~0.0087~~	.0083			
160-450		0.24	~~0.213~~	.0183			
			(Mo Average from 160' - 380' only)				
450-560		0.45	.0057				
560-620		0.23	.0011				
61-620		0.31	0.0122				
190-460			0.0209% Mo				

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Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-10
Commenced	September 27, 1969.	Location		Tests at	Tropari @ 600'
Completed	October 7, 1969.	Core Size	NQ	Corr. Dip	-45°
Co-ordinates	98,114.97 N, 107,610.19 E			True Brg.	
Objective				% Recov.	

Hor. Comp.

Vert. Comp.

Logged by RFN

Date Oct. 1-8, 1969

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
		-45°	4203.27	620'	Rim 69-10	

Footage From To

Description

SAMPLE NO.	FOOTAGE From	FOOTAGE To	%Cu	%Mo	SAMPLE NO.	FOOTAGE From	FOOTAGE To	%Cu	%Mo	SAMPLE NO.	FOOTAGE From	FOOTAGE To	%Cu	%Mo
33186	61	70	.60	.0440	32006	260	270	.54	.0930	32026	460	470	.23	.0013
33187	70	80	.40	.0078	32007	270	280	.21	.0077	32027	470	480	.42	.0008
33188	80	90	.23	.0120	32008	280	290	.48	.1300	32028	480	490	.66	.0022
33189	90	100	.45	.0015	32009	290	300	.36	.0590	32029	490	500	.61	.0066
33190	100	110	.23	.0060	32010	300	310	.23	.0037	32030	500	510	.61	.0005
33191	110	120	1.06	.0036	32011	310	320	.36	.0110	32031	510	520	.49	.0004
33192	120	130	.19	.0034	32012	320	330	.17	.0085	32032	520	530	.48	.0053
33193	130	140	.17	.0018	32013	330	340	.16	.0079	32033	530	540	.34	.0005
33194	140	150	.39	.0012	32014	340	350	.30	.0160	32034	540	550	.23	.0006
33195	150	160	.37	.0017	32015	350	360	.26	.0022	32035	550	560	.34	.0008
33196	160	170	.15	.0019	32016	360	370	.35	.0390	32036	560	570	.21	.0013
33197	170	180	.21	.0047	32017	370	380	.21	.0038	32037	570	580	.21	.0012
33198	180	190	.31	.0025	32018	380	390	.10	.0017	32038	580	590	.13	.0019
33199	190	200	.30	.0077	32019	390	400	.11	.0063	32039	590	600	.42	.0012
33200	200	210	.24	.0160	32020	400	410	.17	.0056	32040	600	610	.18	.0005
32001	210	220	.25	.0018	32021	410	420	.22	.0062	32041	610	620	.20	.0005
32002	220	230	.24	.0290	32022	420	430	.25	.012	32042				
32003	230	240	.12	.0033	32023	430	440	.23	.023					
32004	240	250	.06	.0021	32024	440	450	.22	.006					
32005	250	260	.21	.0190	32025	450	460	.58	.044					

Sample No. | Length | Analysis

211-9437—H.P.

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-10
Commenced	September 27, 1969.	Location		Tests at	Tropari @ 600'
Completed	October 7, 1969.	Core Size	NQ	Corr. Dip	-43°
Co-ordinates	98,114.97 N, 107,610.19 E			True Brg.	
Objective				% Recov.	

Hor. Comp.

Vert. Comp.

Logged by RFN

Date Oct. 1-8, 1969.

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
		-45°	4203.27	620'	Rim 69-10	1

Footage From	To	Description	Sample No.	Length	Analysis					
0-61		OVERBURDEN						61-	70	8
								70-	80	9.5
61 - 620		Bethsaida Quartz Diorite. Moderate to slight Kaolinization - mafics mostly fresh to chloritic -						80	-90	9.5
		qtz. veining and sericite poorly developed and thus the grade is also poor - with the few						90-	100	10
		exceptions as noted below. Chalco - bornite.						100-	110	9.5
		64 2" qtz. vein @ 60° - abundant MoS_2, chalcopyrite.						110-	120	9.5
		64½ 3" qtz. vein @ 60° - " " " .						120-	130	10
		67-69 1" sericite along fracture @ 0 - 5° - disseminated bornite, chalco.						130-	140	9
		75 ½" qtz. vein @ 60° - chalco, MoS_2.						140-	150	9
		76½ ½" Qtz. vein @ 80° - vuggy - chalco - bornite.						150-	160	9
		77 1" qtz. vein @ 65° - vuggy - blebs of chalco, MoS_2.						160-	170	10
		83 ½" qtz. vein @ 60° - chalco - MoS_2 - bornite.						170-	180	10
		87-97 Intense Kaolinization.						180-	190	9.5
		92 Shear @ 60° - 1" gouge - emerald green sericite adjacent.						190-	200	10
		93-94 Massive sericite - chalco - bornite						200-	210	10
		97 Qtz. vein @ 60 - 70° - chalco - calcite - emerald green sericite adjacent.						210-	220	9.5
		100 ¼" chalcopyrite stringer @ 50° - minor emerald green sericite adjacent.						220-	230	7
		114½-117 Massive sericite @ 0 - 10° - bornite - chalco.						230-	240	6
		118 Qtz. vein @ 20° - ¼" stringer of chalco in vein - minor emerald green sericite.						240-	250	3
		124 2 - ½" qtz. veins @ 45° - bornite - chalco.						250-	260	8
		133-152 Intense Kaolinization - patches of emerald green sericite - grade up to fair.						260-	270	5

211-9437—H.P.

Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Property	District	Hole No. Rim 69-10	
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 -45°	Elev. 4203.27	Length 620'	Hole No. Rim 69-10	Sheet 2

Footage From	To	Description	Sample No.	Length	Analysis					
		143-144½ Massive sericite - disseminated bornite and chalco.						270-280		5
		151½ 2" qtz. vein @ 20° - chalco - MoS_2.						280-290		7.5
		152-2~~2~~4 Slight to occasionally moderate Kaolinization. Grade very poor - qtz. veining						290-300		7
		and sericite very poorly developed.						300-310		9.5
		162-163 Emerald green sericite.						~~310-320~~		~~9.5~~
		185-187 Predominately sericite and em. green sericite - bornite and chalco.						320-330		10
		196 1" qtz. vein @ 60° - chalco - bornite.						330-340		9.5
		207 6" qtz. vein @ 60° - chalco - MoS_2.						340-350		10
		213 1" qtz. vein @ 60° - large blebs of chalco.						350-360		9.5
		224 2" qtz. vein @ 40° - chalco - MoS_2.						360-370		9.5
		224-262 BQD has ortho introduced up to 20-35%. No change in grade or qtz. - sericite						370-380		9
		development (still poor).						380-390		9.5
		257 Intense Kaol. occurs throughout - also moderate Kaol. present - grade occasionally						390-400		9
		up to fair.						400-410		10
		259 2 - 1" qtz. veins @ 60½ - MoS_2 - chalco.						410-420		9
		266 6" qtz. vein @ 45° - MoS_2 - chalco.						420-430		9.5
		284 8" qtz. vein @ 60° (?) - chalco - MoS_2.						430-440		9.5
		286 Shear @ 30° - 4" gouge. ½" qtz. vein - chalco - MoS_2.						440-450		9
		287½ 7" qtz. vein @ 60° (?) - MoS_2 ~~chalco~~ chalco.						450-460		5
		295 3" qtz. vein @ 60° - MoS_2 - chalco						460-470		6.5
		297 4" qtz. vein @ 60° - MoS_2 - chalco.						470-480		6

211-9437—H.P.

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	District	Hole No. Rim 69-10	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Sheet 3

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. Rim 69-10

Footage From	To	Description	Sample No.	Length	Analysis					
		294-375 Mostly moderate Kaolinization - occasional patches of intense adjacent to some						480-490		9.5
		of the qtz. veins and sericite. Grade generally poor - occasionally to fair.						490-500		10
		Chalco the main Sulphide - MoS_2 also throughout.						500-510		9.5
		300 1" qtz. vein @ 20° - chalco.						510-520		9.5
		311 2" qtz. vein @ 60° - chalco - MoS_2 - sericite, intense Kaol. adjacent						520-530		9.5
		318 1" vein - mostly calcite @ 80° - sheared lower contact. Intense Kaol adjacent.						530-540		10
		344 2" qtz. vein @ 60° - MoS_2 - bornite, minor chalco.						540-550		10
		366-367 1 foot qtz. vein @ 60° - chalco - MoS_2.						550-560		9.5
		371 2" qtz. vein @ 75° - Bornite - chalco.						560-570		9.5
		375-436 Slight to occasionally moderate Kaolinization. Grade very poor - qtz. veins uncommon,						570-580		10
		sericite development on fractures also very poor.						580-590		9.5
		395½ Shear @ 70° - ¼" gouge, ¼" qtz. vein - minor emerald green sericite adjacent.						590-600		10
		396½ Shear @ 50° - ¼" gouge - ¼" qtz. vein - bornite.						600-610		9.5
		408 ½" qtz. vein @ ~~45° - Sere border~~ - bornite.						610-620		9.5
		409 ½" qtz. vein @ 60° - chalco MoS_2.						END		
		436-450 Predominately moderate Kaolinization. Still poor grade. Qtz. - sericite								
		poorly developed.								
		437 ½" qtz. vein @ 50° - chalco.								
		439 Qtz. vein - shear @ 45° - MoS_2 - chalco.								
		440 ½" qtz. vein @ 85° - chalco - bornite.								
		445 ½" qtz. vein @ 85° - abundant MoS_2 - chalco								
		451 Shear @ 55° - 4" broken core.								

211-9437—H.P.

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	District	Hole No. Rim 69-10	
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. Rim 69-10 | Sheet 4

Footage From	To	Description	Sample No.	Length	Analysis					
		450-538 Moderate to Intense Kaolinization. Overall poor to only fair grade - occasional								
		local patches of good grade where a large qtz. vein occurs, or sericite becomes								
		well developed.								
		452-453 1 foot qtz. vein @ 50° - bottom contact sheared - chalcopyrite, MoS_2.								
		453-457 Emerald green sericiate - chalcopyrite - 2 qtz. veins @ 45°.								
		456½ Shear @ 30°.								
		461 Shears @ 45° - 6" gouge.								
		463 Fragment of a qtz. vein @ 30° - chalco - minor MoS_2.								
		477 Frags. of qtz. - sericite. Bornite - minor chalco.								
		480 Shear @ 0 - 5° - sericite - bornite along it.								
		481 1" qtz. vein @ 10° - chalco - bornite - MoS_2.								
		481½ 3" qtz. vein @ 60-70° - chalco - bornite - MoS_2.								
		483 Shear @ 30°. 3" gouge.								
		483½-486 Shear @ 0° up to ¼" gouge.								
		488 2" qtz. vein @ 70° - bornite - chalco.								
		488-491 Sericite fracs. @ 10 -30° - hematite - chalco - bornite.								
		491-493 Em. green sericite - chalco.								
		495 Shear @ 40° - ¼" gouge - em. green sericite - chalco.								
		506-508 2 - 3" (?) qtz. vein @ 10° - chalco - minor bornite, MoS_2.								
		509 3/4" qtz. vein @ 10 - 20 ° - bornite - chalco.								
		521-524 Massive sericite appears along fracture @ low angle to core. Hematite -								
		bornite - chalco.								

211-9437—H.P.

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	District	Hole No. Rim 69-10	
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. Rim 69-10	Sheet 5

Footage From	To	Description		Sample No.	Length	Analysis					
		527	4" qtz. vein @ 45° - abundant bornite also chalco - MoS_2.								
		528	Small shear @ 60°.								
		532-533	Qtz. - sericite @ 0 - 10°. Hematite - bornite - chalco.								
		538-620	Slight to occasional Moderate Kaolinization - mafics fresh to chloritic -								
			grade poor - sericite and qtz. veins poorly developed - sericite - ortho on fractures.								
		539	½" qtz. vein @ 50° - bornite.								
		541	2" qtz. vein @ 80° - minor chalco.								
		548	1" qtz. vein @ 70° - bornite. 1½" qtz. vein @ 85° - minor chalco.								
		552	2" qtz. vein @ 70° - bornite, chalco.								
		553-578	Moderate Kaolinization occasional intense. Ortho common along fracs. - up to								
			30% locally. Grade still poor.								
		553	½" qtz. vein @ 70° - bornite, chalco.								
		554	½" qtz. vein @ 0° - bornite, chalco.								
		554½	2" qtz. vein @ 80 - 85° bornite, chalco.								
		560	Shear @ 65° - 2" gouge, broken core.								
		568	½" qtz. vein @ 0 - 5° - chalco.								
		570	Shear @ 60° - 6" gouge.								
		572	1" qtz. vein @ 80 - 85° - minor chalco.								
		576	6" qtz. vein @ 45° - minor chalco, MoS_2.								
		590	½" qtz. vein @ 20° - bornite, chalco.								
		590½	1" qtz. vein @ 60° - bornite, chalco.								
		594	1" sericite on fracture @ 15° - bornite - chalco.								

211-9437—H.P.

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	District	Hole No. Rim 69-10	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Sheet 6

Hole No. Rim 69-10

Claim | T Brg. | Collar Dip | Elev. | Length

Footage From	Footage To	Description	Sample No.	Length	Analysis					
		598 3" qtz. vein @ 30 - 40° - bornite - MoS_2.								
		611 ¼" sericite on frac. @ 5° - bornite - chalco.								
		619 Qtz. - sericite @ 45° - bornite - minor chalco.								
		619½ 1/10" qtz. - sericite stringer @ 30 and 80° - bornite chalco.								
	620	END OF HOLE.								

211-9437—H.P.

Scale

Colour Plot
Dips

Drill Hole Record

Cominco

File

Property VALLEY COPPER	District HIGHLAND VALLEY	Hole No. RIM 69-9	
Commenced Sept. 18/69	Location	Tests at Tropari at 570'	Hor. Comp.
Completed Sept. 26/69	Core Size NQ	Corr. Dip -46°	Vert. Comp.
Co-ordinates		True Brg.	Logged by RFN
Objective		% Recov.	Date Sept. 22-26/69

Claim | T Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Footage From	To	Description		Sample No.	Length	Analysis
		MINERALIZATION				
0	51	Overburden				
51	130	0.42% Cu	0.0032% Mo			
130	261	0.22 ✓	0.0090 ✓			
261	277	1.90 ✓	0.0009 ✓ (Mo Average is weighted)			
277	300	0.15 (weighted Average)	0.0015 (weighted Average)			
300	380	0.31	0.0083 ✓			
380	580	0.16 ✓	0.0108 ✓			
430	580		0.0132% Mo			
51	580	0.29% Cu	0.0081% Mo			

211-9437—H.P.

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

J.M.A. Relaim

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-11		
Commenced	October 8, 1969	Location		Tests at	Tropari @ 690'	Hor. Comp.	
Completed	October 22, 1969	Core Size	NQ	Corr. Dip	-45°	Vert. Comp.	
Co-ordinates	97, 803.67 North, 107, 982.04 East			True Brg.	195°	Logged by	RFN
Objective				% Recov.	85.8%	Date	October 20-23/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	195°	-45°	4,188.94	695	Rim 69-11	

Footage From	To	Description	Sample No.	Length	Analysis
		SUMMARY OF GEOLOGY			
0	73	OVERBURDEN			
73	695	BETHSAIDA QUARTZ DIORITE			
		Finer Grained "Mottled" BQD			
		Characteristic quartz eyes and biotite books. Still present, but the feldspar rich groundmass is finer grained, and often grey in color. Small black specs of biotite and hematite peppered throughout.			
		Alteration as follows:			
		73 - 140 Oxidized Zone (Malachite present)			
		73 - 356 BQD generally fresh minor alteration along fractures			
		356 - 548 Moderate Kaolinization - desimates fine grained texture.			
		548 - 695 BQD fresh to slight Kaol along fractures.			
695		END OF HOLE			

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-11		
Commenced	October 8, 1969	Location		Tests at	Tropari @ 690'	Hor. Comp.	
Completed	October 22, 1969	Core Size	NQ	Corr. Dip	-45°	Vert. Comp.	
Co-ordinates	97, 803.67 North 107, 982.04 East			True Brg.	195°	Logged by	RFN
Objective				% Recov.	85.8%	Date	October 20-23/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	195°	-45°	4,193.94	695	69-11	1

Footage From	Footage To	Description	Sample No.	Footage From	Footage To	% Cu	%Mo	Sample No.	Footage From	Footage To	% Cu	%Mo	Sample No.	Footage From	Footage To	Length	%Cu	Analysis %Mo
			33351	73	80	.15	.0013	33373	290	300	.11	.0060	33395	510	520	.08		.0150
			33352	80	90	.12	.0025	33374	300	310	.26	.0035	33396	520	530	.08		.0033
			33353	90	100	.11	.0015	33375	310	320	.15	.0048	33397	530	540	.08		.0045
			33354	100	110	.11	.0006	33376	320	330	.21	.0013	33398	540	550	.07		.0034
			33355	110	120	.07	.0003	33377	330	340	.23	.0320	33399	550	560	.05		.0008
			33356	120	130	.10	.0002	33378	340	350	.22	.0046	33400	560	570	.13		.0110
			33357	130	140	.07	.0009	33379	350	360	.16	.0340	32651	570	580	.05		.0015
			33358	140	150	.14	.0007	33380	360	370	.16	.0028	32652	580	590	.08		.0110
			33359	150	160	.10	.0031	33381	370	380	.22	.0150	32653	590	600	.07		.0064
			33360	160	170	.10	.0390	33382	380	390	.14	.0091	32654	600	610	.11		.0087
			33361	170	180	.09	.0094	33383	390	400	.29	.0210	32655	610	620	.25		.0210
			33362	180	190	.22	.0640	33384	400	410	.44	.0350	32656	620	630	.13		.1200
			33363	190	200	.30	.0140	33385	410	420	.28	.0220	32657	630	640	.11		.0044
			33364	200	210	.14	.0074	33386	420	430	.20	.0490	32658	640	650	.09		.0038
			33365	210	220	.11	.0011	33387	430	440	.24	.0100	32659	650	660	.07		.0014
			33366	220	230	.08	.0120	33388	440	450	.21	.0220	32660	660	670	.07		.0015
			33367	230	240	.14	.0019	33389	450	460	.09	.0014	32661	670	680	.07		.0250
			33368	240	250	.10	.0079	33390	460	470	.05	.0007	32662	680	690	.16		.0390
			33369	250	260	.15	.0240	33391	470	480	.14	.0031	32663	690	695	.09		.0110
			33370	260	270	.18	.0170	33392	480	490	.13	.0013						
			33371	270	280	.19	.0023	33393	490	500	.17	.0032						
			33372	280	290	.22	.0140	33394	500	510	.11	.0058						

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-11		
Commenced	October 8, 1969	Location		Tests at	Tropari @ 690'	Hor. Comp.	
Completed	October 22, 1969	Core Size	NQ	Corr. Dip	-45°	Vert. Comp.	
Co-ordinates	97, 803.67 North	107, 982.04 East		True Brg.	195°	Logged by	RPN
Objective				% Recov.	85.8%	Date	October 20-23/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	195°	-45°	4,182.94	695	Rim 69-11	2

Footage From	Footage To	Description	Sample No.	Length	Analysis
		Footage From To Length % Cu % Mo			
		73 280 207' 0.13 0.0101			
		280 450 170' 0.22 0.0168			
		450 695 245' 0.10 0.0123			
		160 - 450 0.0168% Mo			
		500 - ~~550~~			
		500 - 695 0.0149% Mo			

211-9437—H.P.

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-11		
Commenced	October 8, 1969	Location		Tests at	Tropari @ 690'	Hor. Comp.	
Completed	October 22, 1969	Core Size	NQ	Corr. Dip	-45°	Vert. Comp.	
Co-ordinates				True Brg.	195°	Logged by	RFN
Objective				% Recov.		Date	October 20-23/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	195°	-45°	4,188.94	695	Rim 69-11	1

Footage From	To	Description	Sample No.	Length	Analysis			Recovery	
0	73	OVERBURDEN						73 - 80	5
								80 - 90	8
73	695	Bethsaida Quartz Diorite						90 -100	9
		Characteristic quartz eyes and books of biotite present.						100-110	9
		Feldspar rich groundmass appears finer grained than the normal BQD. Small, zoned						110-120	6.5
		plagioclase phenocrysts common and are grey in color, quite often outlining the qtz eyes.						120-130	4
		Small black specs peppered throughout (biotite/hematite).						130-140	4
		The core has a somewhat mottled appearance.						140-150	9
		Quartz Veining very uncommon as is sericite (Very poor grade)						150-160	9.5
		Slight increase in alteration adjacent to Veins and fractures						160-170	10
		73 - 104 Oxidized zone, as defined by the presence of Malachite. Due to the low						170-180	8.5
		grade of the hole - Malachite is not very abundant.						180-190	7
		Limonite and pyrolusite also present and these two extend down to 176' on						190-200	9.5
		fractures. (The pyrolusite is occasionally dendritic.)						200-210	7
		73 - 356 Rock is generally fresh with the feldspar only slightly affected - Mafics						210-220	6.5
		are fresh to occasionally chloritic.						220-230	6.5
		160 Fracture/shear @ 10° - chalco, MoS_2						230-240	7
		167 $2\frac{1}{2}$" qtz Vein @ 50° MoS_2, Chalco						240-250	10
		173 - 214 Slight to moderate Kaolinization felds just scratched by Knife.						250-260	9.5
		177 - 187 Fault/shearing main attitude @ 10°						260-270	9
		Mostly intense Kaolinization, some gouge						270-280	10
		181 Few fragments of qtz Vein - chalco, MoS_2						280-290	9.5

211-9437—H.P.

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-11		
Commenced	October 8, 1969	Location		Tests at	Tropari @ 690'	Hor. Comp.	
Completed	October 22, 1969	Core Size	NQ	Corr. Dip	-45°	Vert. Comp.	
Co-ordinates				True Brg.	195°	Logged by	RFN
Objective				% Recov.		Date	October 20-23/69

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	195°	-45°	4,188.94	695	RIM 69-11	2

Footage From	To	Description	Sample No.	Length	Analysis			Recovery	
		185 Fragments of qtz Vein chalco, MoS_2						290-300	9
		186 3" qtz Vein @ 55° minor chalco, MoS_2						300-310	10
		187 1" qtz Vein @ 60° abundant MoS_2, chalco						310-320	9
		197 - ¼" qtz Vein @ 20° - chalco						320-330	9
		198 3 - ¼" qtz Veins @ 40° chalco MoS_2						330-340	8.5
		199½ - 201 Qtz sericite stringer @ 0-10° chalco						340-350	10
		209 - 211 Fault - 8" gouge @ 30°						350-360	9
		218 Shear @ 30° minor emerald green sericite adjacent.						360-370	8
		236 ½" qtz Vein @ 50° chalco						370-380	8.5
		244½ ¼" qtz - sericite Vein @ 60° chalco - minor bornite						380-390	7.5
		250 - 253 Chlorite on fractures @ 0-10°. Minor MoS_2 and chalco also present.						390-400	7
		Small Shears also @ 0°.						400-410	8
		255 - 259 Small Shear @ 0-10°						410-420	9
		260 ½" qtz Vein @ 60° chalco						420-430	7.5
		262 ½" qtz Vein @ 60° chalco						430-440	8
		267 Chalco on seric fracture @ 60°						440-450	9.5
		267-268; 271-302 Moderate Kaolinization						450-460	7
		271 1" qtz Vein @ 60° bornite - chalco, MoS_2						460-470	9
		275 ½" qtz Vein @ 60° Chalco						470-480	9
		279 Shears @ 0° and 40°						480-490	9
		282 ¼" qtz Vein @ 30° Chalco, MoS_2						490-500	9
		283 Shear @ 40°						500-510	9

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property VALLEY COPPER	District HIGHLAND VALLEY	Hole No. Rim 69-12	
Commenced October 28, 1969	Location	Tests at Tropari @ 1300' 600'	Hor. Comp.
Completed November 13, 1969	Core Size NQ	Corr. Dip -38° -39°	Vert. Comp.
Co-ordinates 98,151.13 North; 108,084.58 East		True Brg. 201° Reliable(?)	Logged by RFN, RUB
Objective		% Recov. 84.2%	Date Oct. 31 - Nov. 13,1969

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	201°	-45°	4,176.81	1,323	Rim 69-12	

Footage From	To	Description	Sample No.	Length	Analysis
		SUMMARY OF GEOLOGY			
0	112	OVERBURDEN			
112	170	BETHSAIDA QUARTZ DIORITE Finer grained "mottled" variety. Fresh to slight kaolinization. Sericite poor.			
170	212	PORPHYRY DYKE Same dyke as the one intersected underground. Fewer phenocrysts than the porphyry dyke on the west of the ore zone.			
212	1323	BETHSAIDA QUARTZ DIORITE Alteration as follows:			
		212-379 Slight to mderate kaolinization. Sericite moderately developed.			
		379-598 Fresh to slight kaolinization - sericite poor			
		598-862 Moderate kaolinization, local patches of intense kaolinization, moderate sericite development; 760-862 sericite poor			
		640-655 Fault zone @ 50-60°			
		862-966 Fresh to slight kaolinization. Very poor sericite			
		966-1073 Slight to moderate kaolinization. Sericite poor			
		1000-1323 Gypsum, clear in colour, becomes widespread on fractures			
		1073-1151 Fresh to slight kaolinization. Sericite poor			
		1151-1323 Slight to moderate kaolinization. Sericite poor			

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	RIM 69-12
Commenced	October 28, 1969	Location		Tests at	Tropari @ 1300' / 600' Hor. Comp.
Completed	November 13, 1969	Core Size	NQ	Corr. Dip	-38° / -39° Vert. Comp.
Co-ordinates	98,151.13 North; 108,084.58 East			True Brg.	201° Logged by RFN, RUB
Objective				% Recov.	84.2% Date Oct. 31,-Nov 13/69

Claim | T Brg. | Collar Dip | Elev. | Length | Hole No. RIM 69-12 | Sheet Analysis 1

Footage From	Footage To	Description Sample No.	Footage From	Footage To	% Cu	% Mo	Sample No.	Footage From	Footage To	% Cu	% Mo	Sample No.	Footage From	Footage To	Sample No.	Length % Cu	Analysis % Mo
		31533	112	120	.56	.0007	33305	330	340	.51	.0031	33327	550	560		.51	.0190
			120	130	.60	.0009		340	350	.54	.0300		560	570		.57	.0009
			130	140	.36	.0062		350	360	.44	.0007		570	580		.42	.0011
			140	150	.26	.0010		360	370	.33	.0026	33330	580	590		.24	.0043
			150	160	.39	.0020		370	380	.29	.0009		590	600		.23	.0020
			160	170	.48	.0034	33310	380	390	.21	.0013		600	610		.23	.0160
			170	180	.47	.0016		390	400	.26	.0018		610	620		.33	.0086
		31540	180	190	.58	.0120		400	410	.35	.0008		620	630		.82	.0008
			190	200	.38	.0024		410	420	.45	.0044		630	640		.97	.0003
			200	210	.24	.0006		420	430	.29	.0025		640	650		.49	.0055
			210	220	.52	.0021		430	440	.47	.0011		650	660		.48	.0160
			220	230	.42	.0020		440	450	.57	.0010		660	670		.28	.0080
			230	240	.56	.0037		450	460	.40	.0011		670	680		.32	.0029
			240	250	.58	.0070		460	470	.26	.0026	33340	680	690		.27	.0016
			250	260	.52	.0022		470	480	.25	.0020		690	700		.31	.0039
			260	270	.49	.0300	33320	480	490	.32	.0016		700	710		.29	.0005
			270	280	.65	.0033		490	500	.36	.0007		710	720		.37	.0003
		33550	280	290	.47	.0063		500	510	.25	.0011		720	730		.43	.0018
		33301	290	300	.49	.0025		510	520	.19	.0092		730	740		.23	.0012
		[illegible]	300	310	.88	.0300		520	530	.24	.0057		740	750		.26	.0030
			310	320	.47	.0035		530	540	.26	.0028		750	760		.28	.0021
			320	330	.55	.0050		540	550	.52	.0009		760	770		.35	.0011

cont'd

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-12
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. Rim 69-12 | Sheet Analysis 2

Footage From	Footage To	Description Sample No.	Footage From	Footage To	% Cu	% Mo	Sample No.	Footage From	Footage To	% Cu	% Mo	Sample No.	Footage From	Footage To	Length % Cu	Analysis % Mo
		33349	770	780	.35	.0011	33466	990	1000	.24	.0006	33488	1210	1220	.23	.0004
		33350	780	790	.26	.0011		1000	1010	.26	.0006	33489	1220	1230	.36	.0100
		32689	790	800	.18	.0170		1010	1020	.40	.0004	32951	1230	1240	.24	.0210
			800	810	.31	.0008		1020	1030	.32	.0055		1240	1250	.30	.0014
			810	820	.30	.0006	33470	1030	1040	.23	.0011		1250	1260	.20	.0003
			820	830	.35	.0007		1040	1050	.24	.0012		1260	1270	.22	.0031
			830	840	.49	.0007		1050	1060	.33	.0003		1270	1280	.20	.0016
			840	850	.39	.0004		1060	1070	.30	.0025		1280	1290	.19	.0012
			850	860	.31	.0008		1070	1080	.21	.0004		1290	1300	.16	.0007
			860	870	.38	.0004		1080	1090	.18	.0010		1300	1310	.52	.0041
			870	880	.25	.0009		1090	1100	.27	.0007	32959	1310	1323	.21	.0004
			880	890	.17	.0003		1100	1110	.27	.0005					
			890	900	.35	.0009		1110	1120	.34	.0003					
		32700	900	910	.20	.0003		1120	1130	.12	.0003					
		33458	910	920	.34	.0002	33480	1130	1140	.24	.0003					
			920	930	.31	.0002		1140	1150	.14	.0001					
			930	940	.34	.0011		1150	1160	.15	.0002					
			940	950	.16	.0008		1160	1170	.15	.0004					
			950	960	.12	.0005		1170	1180	.24	.0003					
			960	970	.21	.0010		1180	1190	.15	.0027					
			970	980	.38	.0032		1190	1200	.13	.0004					
			980	990	.50	10011		1200	1210	.15	.0032					

211-9437—H.P.

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-12
Commenced	October 28, 1969	Location		Tests at	Hor. Comp.
Completed	November 13, 1969	Core Size	NQ	Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by RFN, RUB
Objective				% Recov. 84.2%	Date Oct. 31, - Nov. 13,1969

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
		- 45°		1323	Rim 69-12	1

Footage From	To	Description	Sample No.	Length	Analysis
0	112	OVERBURDEN			
112	170	BETHSAIDA QUARTZ DIORITE (finer grained type)			
		Fresh to slight kaolinization			
		Local patches of intense (up to 2-10')			
		Sericite poorly developed, qtz veining poor; as noted below			
		112-129 Oxidized zone as defined by the presence of Malachite. Also limonite and pyrolusite. Limonite extends to 151 (on fractures)			
		134 1" qtz vein @ 60°. Bornite			
		143 1/2" qtz vein @ 80°. Bornite			
		155½ 1" qtz vein @ 60. Minor bornite			
		156 1" qtz vein @ 60°. Minor bornite			
170	212	Porphyry dyke. Medium green in colour. Very fine grained groundmass. Only a few qtz "eyes" and feldspar phenocrysts. Sericite locally to moderate development. 1 qtz vein 5 feet.			
		Local patches bleached to cream colour			
		170½-173 1' sericite - bornite			
		1½' qtz vein - bornite @ 60°			
		174 2" qtz vein @ 45° - bornite			
		180 2" qtz vein @ 30° - bornite			

Recovery	
112-120	5.5
120-130	9
130-140	9
140-150	9
150-160	9.5
160-170	9.5
170-180	9.5
180-190	9.5
190-200	9.5
200-210	10
210-220	6
220-230	7.5
230-240	10
240-250	7
250-260	8
260-270	10
270-280	10
280-290	9.5
290-300	9.5

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-12
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 - 45° | Elev. | Length 1323 | Sheet 2 | Hole No. Rim 69-12

Footage From	To	Description	Sample No.	Length	Analysis
		190 1/2" qtz vein @ 30° - bornite			
		194 1/2" qtz vein @ 60° - bornite			
		202-215 2 feet of core. Possible blocks numbered wrongly.			
212	379	Bethsaida Quartz Diorite. Finer grained variety as per Rim 69-11. Plagioclase slight			
		to moderately kaolinized. Plags were fresh are often grey in colour.			
		Qtz - sericite fractures from 2-5/foot, up to 1/2" wide, usually approx. 1/4" wide			
		1 qtz vein/5 feet			
		Bornite 2-4:1 over chalco			
		Qtz vein over 1/2" as noted below:			
		215 1" qtz vein @ 10° - bn, chalco			
		231 3" qtz vein @ 45° - bn, minor chalco			
		232-234 ¼-½" qtz vein @ 0-10° - sericite up to 1½" on borders, abundant bornite			
		240-241 ½" qtz vein @ 0°. Sericite borders up to 3/4". Abundant bornite.			
		241-253 Mostly intense kaolinization - patchy emerald green sericite			
		245 Shear @ 20°			
		248 2" qtz vein @ 30° - chalco, MoS_2			
		252½ 8" massive sericite - bornite, chalco			
		256 Shear @ 45° - 2" gouge, mostly sericite			
		259 1" qtz vein @ 45° - bn - chalco			

Recovery	
300-310	10
310-320	9
320-330	9
330-340	4.5
340-350	9.5
350-360	8.5
360-370	8.5
370-380	8.5
380-390	8.5
390-400	9.5
400-410	9.5
410-420	9
420-430	9.5
430-440	9
440-450	10
450-460	9.5
460-470	9.5
470-480	9
480-490	9.5
490-500	9.5

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-12
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 - 45° | Elev. | Length 1323 | Hole No. Rim 69-12 | Sheet 3

Footage From	To	Description	Sample No.	Length	Analysis					
		264 5" qtz vein @ 60°; top 2" mostly chalco - MoS_2, bottom bornite					Recovery			
		266 1" qtz vein @ 60°, bornite - minor chalco; ortho					500-510			10
		273 4" qtz vein @ 45°, abundant bornite					510-520			9
		276-278 Shears @ 10 and 60°					520-530			9.5
		288-292 Heavy sericite development on fracs @ 30-45°					530-540			9.5
		297 3/4" qtz vein @ 70°					540-550			10
		300 1½" qtz vein @ 20°, abundant bornite					550-560			9
		1" qtz vein @ 60°, abundant bornite - chalco					560-570			9
		304 3" vuggy qtz vein @ 45°, abundant MoS_2, chalco, ortho					570-580			9
		305-309 1" qtz vein @ 0°, - 1" massive sericite borders, abundant bornite, chalco					580-590			10
		310-323 1 qtz vein/foot, most 1/4 to 1/2" wide, moderate sericite borders,					590-600			10
		most @ 45-60°, a few @ 30°; intense kaol. adjacent to veins.					600-610			9.5
		319½ 2" qtz vein @ 60°, bn-chalco					610-620			10
		322 3" qtz vein @ 45°, chalco, minor bornite, MoS_2					620-630			10
		323-331 patchy K-spar up to 10%, moderate kaolinization of plag.					630-640			9.5
		334-343 Sericitic fractures, moderate to well developed, mostly intense kaolinization					640-650			7
		343-349 6" core recovered, most are fragments of qtz veining - MoS_2 - chalco					650-660			8
		1/4" gouge on qtz frag. @ 30°					660-670			10
		349½ bottom contact of qtz vein @ 30°					670-680			8.5
		367 Shear @ 10° - slight foliation					680-690			9
		368 Shearing @ 20°, up to 1/4" gouge					690-700			5
		371 Shear @ 20°, up to 1/2" gouge, 1/2" qtz vein								

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	RIM69-12
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 - 45° | Elev. | Length 1323 | Hole No. Rim 69-12 | Sheet 4

Footage From	To	Description		Sample No.	Length	Analysis
		374	Shear @ 20°, also 70°			
		376	1" qtz vein @ 30°, chalco			
379	598		Fine grained BQD. fresh to only slight kaolinization, patches of mod. to intense			
			kaol. adjacent to seric. fracs. Sericite and quartz poorly developed. 1-3 seric. fracs./foot			
			and 1/10" wide. One 1/4" or wider qtz vein/6feet. Occasional ortho along fractures.			
		386	1/2" qtz vein @ 40°, bn - chalco			
		393	1/5" qtz vein @ 30°, bn - chalco			
		396	1/4" qtz vein @ 45°, blebs of bornite			
		400	1/4" qtz vein @ 30°, offset by shear @ 80° (1/10" gouge)			
		401-434	Mostly moderate kaolinization - some intense adjacent to sericite fracs.			
			Sericite fracs up to 5/foot			
		419½	Shear @ 80°			
		420-434	Ortho along fractures (up to 10%)			
		421	Specs of bornite on fracture @ 30°			
		424	1-2" qtz vein @ 30° - bn - chalco			
		424½	Specs of bornite on fracture @ 30°			
		427	Bornite - chalco on fracs @ 60°			
		432	Shear @ 30°			
		432½	1/2" qtz vein @ 60°, bn- chalco			
		436	1" qtz vein @ 30°, blebs of bornite - chalco			
		444	1" qtz vein @ 20°, bn - chalco. Very thin sericite border			

Recovery	
700-710	8
710-720	8.5
720-730	8.5
730-740	9
740-750	7.5
750-760	7
760-770	10
770-780	9.5
780-790	9.5
790-800	9
800-810	9.5
810-820	9
820-830	6
830-840	9.5
840-850	9.5
850-860	9
860-870	9.5
870-880	9
880-890	9.5
890-900	9

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-12
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
		- 45°		1323	Rim 69-12	5

Footage From	To	Description	Sample No.	Length	Analysis					
		446-447 1-2" qtz vein @ 0-10°, bn-chalco, very thin sericite border					Recovery			
		449 1" qtz vein @ 80°, blebs of chalco - bn					900-910			9
		466 1" pink aplitic dykelet @ 45°					910-920			9
		467 1" qtz-sericite vein @ 60°, bn-chalco					920-930			9.5
		469 frags of pink aplitic dykelet					930-940			9.5
		497 2" sericite -qtz band @ 60°, blebs of chalco-bn					940-950			9.5
		497½ 2" sericite-qtz band @ 50°, chalco minor bn, MoS_2					950-960			9
		500 3/4" sericite band @ 30°, bn-chalco					960-970			9.5
		515 Shear @ 20°, minor sericite, hematite stain					970-980			9.5
		518 1/2" qtz-sericite vein @ 60°, bn-chalco					980-990			9
		520 2" qtz vein @ 45°, bornite, chalco					990-1000			10
		524 1/2" qtz-sericite vein @ 15°, bn-chalco, ortho on fracs up to 20%					1000-1010			10
		527 1/2" qtz vein @ 35°, bornite					1010-1020			10
		535 1/2" qtz -sericite vein@ 10°, bornite					1020-1030			9.5
		539½ 1" qtz-sericite @ 30°, bornite					1030-1040			10
		540-541 up to 2" band of sericite-chlorite - dissem. chalco - bornite @ 0-10°					1040-1050			8
		544 2" qtz-sericite vein @ 45°, bn-chalco					1050-1060			8.5
		544½ 1" Qtz-sericite vein @ 45°, bn-chalco					1060-1070			9.5
		547 1/2" qtz-sericite vein @ 30°, bn-chalco					1070-1080			9
		548-549 2" qtz-sericite vein @ 15°, blebs of bornite-chalco					1080-1090			10
							1090-1100			10
		549-574 Mod. to occasionally intense kaolinization. Sericite up to 5/foot, avg. 1/4" wide								

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-12
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 - 45° | Elev. | Length 1323 | Hole No. Rim 69-12 | Sheet 6

Footage From	To	Description	Sample No.	Length	Analysis
		549-574 cont'd Bornite and hematite speckled on fracs. bornite also in seric. and in veins			
		557 2" sericite @ 20°			
		558 4" qtz vein @ 40°, bottom and top contacts sheared up to 1/2" gouge.			
		Intense kaol. adjacent below vein. Chalco-MoS_2			
		559 1½" qtz vein @ 60°, ¼" gouge on bottom contact. Chalco			
		560 ½" qtz-sericite vein @ 60°, bornite			
		560½ 1/2" qtz vein @ 30°, bornite			
		564-566 Six ¼" qtz veins @ 30°, blebs of bornite			
		572 ¼" qtz vein @ 40°, also @ 60°, blebs bn chalco			
		573 1" qtz-sericite @ 45°, chalco-bn			
		575½ 1/4" qtz vein @ 30°, blebs of bn-chalco			
		577 1/4" qtz vein @ 30°, bn-chalco			
		580 1/4" qtz-sericite @ 30°, bn-chalco			
		592 1" qtz vein @ 60°			
598	862	Mostly moderate kaolinzation, local patches of intense kaol.			
		Sericite moderate to occasionally well developed. 5/foot, avg: 1/2" wide			
		Qtz veins as noted below			
		603 6" qtz vein @ 55°, chalco- MoS_2			
		604½ 1/2" qtz vein @ 20°, bn-chalco			

Recovery	
1100-1110	9.5
1110-1120	9.5
1120-1130	9.5
1130-1140	10
1140-1150	9.5
1150-1160	9.5
1160-1170	10
1170-1180	9.5
1180-1190	10
1190-1200	10
1200-1210	9.5
1210-1220	10
1220-1230	9.5
1230-1240	9.5
1240-1250	10
1250-1260	10
1260-1270	10
1270-1280	10
1280-1290	10
1290-1300	10

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property VALLEY COPPER	District HIGHLAND VALLEY	Hole No. Rim 69-12	
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 - 45° | Elev. | Length 1323 | Hole No. Rim 69-12 | Sheet 7

Footage From	To	Description	Sample No.	Length	Analysis					
		614 1/2" qtz vein @ 80°, bn-chalco					Recovery			
		619 Shear @ 10°, up to 1" gouge					1300-1310			10
		1" qtz vein @ 60°, bn-chalco					1310-1320			9.5
		620-623½ 1" qtz vein @ 0°, 1/2" sericite borders, bn-chalco					1320-1323			3
		627 1" qtz-sericite @ 60°, chalco-bn								
		628 1/2" qtz vein @ 60°, bn-chalco								
		629-630 1" qtz-sericite @ 0-10°, blebs bn-chalco								
		631 3/4" qtz vein @ 30°, up to 1" sericite borders								
		631-640 Sericite well developed, 1/2-1" on fractures.								
		633 5" qtz vein @ 40°, bornite-chalco								
		635 1" qtz vein @ 45°								
		640-655 Fault zone @ 50-60°								
		Mostly fault gouge and qtz veining								
		642 4" qtz vein @ 50°, bn-chalco								
		643½-645½ 2 foot q.v. @ 60°, bn-chalco-MoS_2								
		651-653 2 foot q.v. @ 45-50°, chalco-MoS_2, minor bornite								
		Bottom of qtz vein (3") appears to be brecciated, i.e. qtz frags surrounded by								
		dark grey matrix, chalco								
		658 Shear @ 10-30°								
		659 Shears @ 70-80°								
		662 1/2" qtz vein @ 10°, bornite								
		667 1/2" qtz vein @ 10°, chalco-bn								

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-12
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
		- 45°		1323	Rim 69-12	8

Footage From	To	Description		Sample No.	Length	Analysis					
		670½	1/2" qtz sericite @ 45°								
		675	Shear @ 10°, up to 1/2" gouge								
		676	1½" qtz vein @ 30°, stringer of chalco 1/10-15" on bottom contact, bn-chalco in vein								
		676½	1/2" qtz vein @ 45°, 1" sericite adjacent, bn-chalco								
		678-680	Shear @ 0-10°, up to 1/2" gouge								
		681	Shear @ 0°, slickensides @ 20°, to C/A								
		693-694	Shearing @ 10°, up to 1" core, also shears @ 45°								
		700	Shearing @ 40-45°, qtz fragments. Bn-chalco								
		704	Shear @ 0-10°								
		705	Shear @ 45°, 1/4" gouge								
		711	1" qtz vein @ 60°, chalco-bn								
		714-715	Shears @ 0° - 20° & 60°, up to 1/2" gouge								
		721	1/2" qtz-sericite vein @ 60°, bn-chalco								
		722	1/2" qtz vein sheared @ 45°, bn								
		723	Shear @ 60°								
		725	Shear @ 20°, up to 1" gouge								
		728-732	Shearing @ 0-10°								
		729-730	Mostly gouge								
		733	1" qtz vein @ 70°, bn-chalco								
		736-739	Shearing @ 0-10°, up to 1/2" gouge								
		741-742	Shearing @ 0-10°, up to 1/2" gouge								
		741½	Frag. of qtz vein - Chalco-bn								

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No. Rim 69-12	
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
		-45°		1323	Rim 69-12	9

Footage From	To	Description		Sample No.	Length	Analysis					
		743	Small shear @ 60°								
		748	Shear @ 30°, 1/2" gouge								
		754	1" qtz vein @ 70°, chalco-bn.								
		756-758	Specs of bornite on fracs. @ 30-45°								
		760	1" qtz vein @ 60°, bn-chalco								
		761	Shear @ 30°, 1/4" gouge								
		760-862	Sericite becomes poorer developed.								
			1/10-1/5" wide up to 5/foot								
			Qtz veins as noted:								
		765	2" qtz vein @ 60°, bn-chalco								
		773	1" qtz-sericite vein @ 35°, bn-chalco								
		799	1" qtz vein @ 30°, chalco								
		802	1" qtz vein @ 60°, chalco								
		803	Shear @ 30°, 1/4" gouge								
		805-806	Quartz vein - chalco-bornite								
		807½	Shear @ 30°, 1/4" gouge								
		812	1" qtz vein @ 30°, chalco								
		814½	1" qtz vein @ 30°, shear @ 45°								
		822	Shear @ 10°, 1/4" gouge								
		829-830	Shearing @ 30°								

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-12
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
		- 45°		1323	Rim 69-12	10

Footage From	Footage To	Description	Sample No.	Length	Analysis					
		831-833 Shear @ 0-10°, Minor emerald green sericite adjacent								
		835-836 Qtz vein @ 10°, blebs of bn-chalco								
		837 1/2" qtz vein @ 30°, bn								
		844 1/4" qtz vein @ 15°, bn								
		847 1" qtz vein @ 30°, minor bn								
		853 5" qtz vein @ 60°, blebs of bornite, sheared contacts								
862	966	Fresh to only slightly kaolinized BQD - finer grained variety. Very poor								
		sericite development. 1-2 hairline stringers of sericite/foot, also occasional wider								
		sericite fractures. Qtz veining very poor as noted below:								
		869 1/2" qtz vein @ 30°, bn-chalco								
		870 1" qtz vein @ 60°, minor bn								
		871 1/4" qtz vein @ 10°, bn								
		872 2" qtz vein @ 80°, bn-chalco								
		877 1/2" qtz vein @ 80°, bn								
		890 1" qtz vein @ 70°, minor bn								
		892 1/2" qtz vein @ 80°, blebs of bn								
		894 1" qtz-sericite @ 70°, bn								
		896 1/2" qtz vein @ 30°, bn								
		898 1" sericite band @ 0°, disseminated bornite								
		899 1" qtz vein @ 20°, bornite								

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-12
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
		- 45°		1323	Rim 69-12	11

Footage From	To	Description	Sample No.	Length	Analysis
		910 Fragment of qtz vein - bn			
		915 2" qtz vein @ 65°, bn-chalco			
		918 1" qtz vein @ 60°, bn			
		931 4" qtz vein @ 60°, bn			
		934 1/4" qtz vein @ 20°, bn			
966	- 1073	Slight to moderate kaolinization of finer grained BQD. Sericite still poorly			
		developed, local patches of moderate development. Qtz veining as noted. Gypsum becomes			
		widespread from 1000' and deeper, is clear (no colour)			
		968 2 - 1" qtz veins @ 60°, bn			
		979-980 Sericite well developed, dissem. bn-chalco			
		981-983½ Shear @ 0°, qtz-sericite adjacent			
		984 1" qtz-sericite @ 0°, dissem. bn.			
		990 1½" qtz vein @ 30°, barren			
		990½ 1/4" qtz vein @ 45°, chalco			
		994 Shear @ 30°, minor em. green sericite, chalco			
		1000 2" qtz vein @ 20°, minor chalco			
		1003 3" sericite band @ 30°, chalco			
		1004 1/2" vein of gypsum @ 45°, shear contact			
		1005 1" qtz vein @ 30°, minor chalco			
		1008 1" sericite @ 60°			

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-12
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 - 45° | Elev. | Length 1323 | Hole No. Rim 69-12 | Sheet 12

Footage From	To	Description	Sample No.	Length	Analysis
		1009 1/2" qtz vein @ 50°, bn, stringer of gypsum			
		1011 2" sericite @ 60°, bn			
		1014 1/4" gypsum stringer @ 20° (sparry)			
		1018 1" qtzvein @ 45°, bn, cut by gypsum stringer			
		1019 5" qtz vein @ 50°, 1" sericite borders - bornite			
		1025 1" qtz vein @ 40°, chalco, MoS_2			
		1032 Shearing, evidenced by vague foliation of BQD			
		1037 1" qtz vein @ 60°, bn			
		1042 1/4" qtz vein @ 45°, bn			
		1047 1/2" qtz vein @ 60°, bn-chalco			
		1050 1" qtz-sericite @ 10°, chalco, minor bn			
		1052 1" qtz vein @ 60°, bn-chalco			
		1053-1060)			
		1065-1067) Orthoclase up to 20%			
		1059 1/2" qtz vein @ 60°			
		1066 Shear @ 0°, gouge, gypsum			
		1072 1/2" qtz vein @ 60°, bn			
1073	- 1151	Fresh BQD to only slight kaolinization, gypsum common on fractures.			
		1079 2 - 1" qtz veins @ 60-50°, barren			
		1091 Massive sericite, disseminated bn			

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property VALLEY COPPER	District HIGHLAND VALLEY	Hole No. RIM 69-12	
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
		- 45°		1323	Rim 69-12	13

Footage From	To	Description	Sample No.	Length	Analysis					
		1101 Chlorite band @ 60°, cut by gypsum								
		1105 1/2" qtz vein @ 30°, bn								
		1106-1123 Sericite moderately developed, disseminated bornite								
		1133 3/4" qtz vein @ 45°, chalco								
		1136-1138 Sericite well developed, dissem. bn								
		1137 1" qtz vein @ 30°, bn.								
		1146 2" sericite @ 20°, bn, cut by gypsum								
		1149 2" sericite @ 30°, bn, cut by gypsum								
		1151 3/4" sericite @ 10°, chalco, cut by gypsum								
1151	- 1323	Slight to moderate kaolinization, small patches of fresh. Sericite generally								
		poor, qtz as noted: Gypsum common, is clear.								
		1162 1/4" qtz vein @60°, bn								
		1170-11 Massive sericite, bn-chalco								
		1176 Qtz stringer @ 60°, chalco								
		1185 1/4-1/2" qtz vein @ 10°, bn-chalco, gypsum along border								
		1201 Shear @ 45°, 1/4" gouge								
		1203 Shear @ 45°, 1" gouge								
		1207 Shear @ 20°, 1/2" gouge								
		1217 1/2" qtz vein @ 15°, chalco								

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-12
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
		- 45°		1323	Rim 69-12	14

Footage From	Footage To	Description	Sample No.	Length	Analysis
		1221 Sericite well developed, bn-chalco			
		1224 Qtz-sericite @ 10°, chalco			
		Gypsum cuts qtz vein. Qtz vein offset since gypsum does not cut through			
		adjacent BQD.			
		1233 Shearing @ 0°, 1/2" qtz vein - chalco			
		1242 Shearing @ 0°, also 30-45°, minor gouge. Mostly intense Kaol.			
		1244 1" qtz vein @ 30°, bn-chalco abundant			
		1245 2" qtz vein @ 20°, bn-chalco			
1252	1323	Generally weak to moderate kaolinization of plagioclase. Sericite alt. weak to			
		moderate. Weak potassic alternation. Gypsum fairly common. Dominant core angles of			
		mineralization 20-30°. Mafic generally chloritized. Bn >> Cp. Hematite frequently surround			
		bn-grains.			
		1250-1252 Fault @ 20°, Gougy, intensely kaolinized core.			
		1303-1305 Fault with gouge on fractures @ 20°.			
1323		END OF HOLE			

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-13
Commenced	October 28, 1969	Location		Tests at	Tropari @ 100'
Completed	November 9, 1969	Core Size	NQ	Corr. Dip	- 51
Co-ordinates	98,332.55 North; 108,752.12 East			True Brg.	198°
Objective				% Recov.	83.3%

Hor. Comp.

Vert. Comp.

Logged by RFN

Date Nov. 5-9, 1969

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	198°	-45°	4,121.71	1,030'	Rim 69-13	

Footage From	To	Description	Sample No.	Length	Analysis
		SUMMARY OF GEOLOGY			
0	142	OVERBURDEN			
142	1030	BETHSAIDA QUARTZ DIORITE			
		Evidence of fine grained "mottled" variety. BQD found sporadically throughout the hole; most of the texture obscured by kaolinization of varying degrees.			
		142 - 244 OXIDIZED ZONE - Malachite present			
		A distinctive feature encountered in the top part of the hole is a post-mineral barren quartz vein phase. The qtz veins are finer grained than the mineralized veins and do not have sericitic borders. These veins seem to form a "stockwork" from 142 to 501.			
		In the remainder of the hole and from 247 to 380 barren qtz veins are much less common.			
		Alteration as follows:			
		142 - 685 Slight to moderate kaolinization. Sericite poor to very poor except 470-500 well developed.			
		535½-565 Intense kaol.			
		685-838 Slight kaolinization, sericite poor			
		838-848 Intense			
		848-1030 Fresh to moderate kaolinization. Sericite poor to occasionally moderate.			
1030		END OF HOLE			

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-13
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. Rim 69-13 | Sheet Mineralization

Footage From	To	Description	Sample No.	Length	Analysis

SUMMARY OF MINERALIZATION

Length	Footage	% Cu	% Mo
98'	142 - 240	.25	.0005
600'	240 - 840	.36	.0031
100'	840 - 940	.54)	
		)	.0006
90'	940 - 1030	.41)	
888'	142 - 1030	.37	.0023

211-9437—H.P.

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-13
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. Rim 69-13 | Sheet Assay 1

Footage From	Footage To	Description Sample No.	Footage From	Footage To	% Cu	% Mo	Sample #	Footage From	Footage To	% Cu	% Mo	Sample #	Footage From	Sample No.	Footage To	Length % Cu	Analysis % Mo
		32051	142	150	.20	.0005	32073	360	370	.21	.0010	32095	580		590	.27	.0014
			150	160	.30	.0004		370	380	.20	.0015		590		600	.55	.0003
			160	170	.40	.0006		380	390	.35	.0410		600		610	.41	.0003
			170	180	.27	.0010		390	400	.46	.0067		610		620	.36	.0009
			180	190	.21	.0004		400	410	.34	.0017		620		630	.41	.0004
			190	200	.20	.0003		410	420	.32	.0020	32100	630		640	.34	.0007
			200	210	.21	.0004		420	430	.32	.0019	32960	640		650	.32	.0012
			210	220	.21	.0005	32080	430	440	.23	.0170		650		660	.62	.0006
			220	230	.21	.0003		440	450	.32	.0026		660		670	.80	.0037
		32060	230	240	.25	.0007		450	460	.32	.0016		670		680	.40	.0027
			240	250	.34	.0014		460	470	.39	.0082		680		690	.32	.0020
			250	260	.39	.0038		470	480	.50	.0016		690		700	.38	.0015
			260	270	.33	.0015		480	490	.56	.0022		700		710	.32	.0003
			270	280	.27	.0011		490	500	.50	.0043		710		720	.48	.0029
			280	290	.38	.0099		500	510	.26	.0026		720		730	.31	.0031
			290	300	.35	.0017		510	520	.25	.0010		730		740	.42	.0044
			300	310	.24	.0032		520	530	.35	.0014	32970	740		750	.32	.0024
			310	320	.23	.0007	32090	530	540	.35	.0006		750		760	.36	.0004
			320	330	.31	.0017		540	550	.33	.0010		760		770	.32	.0004
		32070	330	340	.23	.0004		550	560	.30	.0064		770		780	.44	.0012
			340	350	.29	.0010		560	570	.20	.0004		780		790	.33	.0007
			350	360	.23	.0060		570	580	.25	.0040		790		800	.42	.0012

211-9437—H.P.

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-13
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. Rim 69-13 | Sheet Assay 2

Footage From To | Description | Sample No. | Length | Analysis

Sample #	Footage From	Footage To	% Cu	% Mo	Sample #	Footage From	Footage To	% Cu	% Mo
32976	800	810	.34	.0031	32997	1010	1020	.27	.0012
	810	820	.52	.0034	32998	1020	1030	.44	.0003
	820	830	.31	.0011					
	830	840	.37	.0047					
32980	840	850	.53	.0009					
	850	860	.50	.0004					
	860	870	.39	.0001					
	870	880	.94	.0009					
	880	890	.50	.0002					
	890	900	.35	.0004					
	900	910	.59	.0005					
	910	920	.56	.0010					
	920	930	.49	.0007					
	930	940	.57	.0003					
32990	940	950	.34	.0003					
	950	960	.40	.0005					
	960	970	.38	.0009					
	970	980	.52	.0004					
	980	990	.35	.0007					
	990	1000	.54	.0007					
	1000	1010	.45	.0012					

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-13
Commenced	October 28, 1969	Location		Tests at	Tropari @ 100°
Completed	November 9, 1969	Core Size	NQ	Corr. Dip	- 51
Co-ordinates	98,332.55 North; 108,752.12 East			True Brg.	198°
Objective				% Recov.	83.3%

Hor. Comp.

Vert. Comp.

Logged by RFN

Date Nov. 5 - 9, 1969

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
	198°	-45°		1030	Rim 69-13	1

Footage From	To	Description	Sample No.	Length	Analysis					
0 - 142		OVERBURDEN					Recovery			
							142-150			5
142 -		BETHSAIDA QUARTZ DIORITE					150-160			6
		A notable feature is the presence of a later (post-mineral) barren phase of quartz					160-170			6
		veining. The veining occurs as a "stockwork" (small scale) and is finer grained than					170-180			8
		the mineralized quartz veins. Sericite is not associated with this qtz vein phase.					180-190			7.5
							190-200			8
		142 - 244 Oxidized zone (defined by the presence of malachite)					200-210			8.5
		Limonite and pyrolusite also on fractures.					210-220			6
							220-230			8
		142 - Plags slight to moderate kaolinization.					230-240			5.5
		Sericite development and mineralized quartz veining very poor (as noted below)					240-250			5
		Sericite usually as stringers on hairline fractures.					250-260			7.5
							260-270			8
		144 Qtz vein frags - bornite					270-280			9
		151 1" qtz-sericite vein @ 30°, bn					280-290			7
		161-168 Mafics up to 25%, disseminated magnetite up to 5-10%					290-300			7.5
		165 Frags of approx. 1/2" qtz vein, malachite					300-310			6
		197 2" qtz vein @ 30°, minor bn-chalco					310-320			6.5
		200 2" qtz vein @ 30°, sericite - bn - chalco					320-330			8
		229 Shear @ 0-10°, 1/4" gouge					330-340			9
		230 Disseminated sericite and hematite					340-350			7.5

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Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Property VALLEY COPPER	District HIGHLAND VALLEY	Hole No. Rim 69-13	
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
	198°	-45°		1030	Rim 69-13	2

Footage From	To	Description	Sample No.	Length	Analysis
		247 1/4" qtz vein @ 45°, bn-chalco			
		247- Sericite shows slight increase (1-2 1/2" sericite bands/foot), dissem. bn. Qtz veining still poor (as noted). Bornite speckled along hairline fracs. (247-360); barren qtz phase much less pronounced to 380, also some hematite, then become more abundant again, has K-spar adjacent.			
		255 1/10" chalco-bn stringer @ 5°			
		256 1/10" chalco-bn stringer @ 45°			
		257 1/2" qtz vein - minor bornite			
		262-263 Bornite speckled along hairline fracs @ 45°			
		264 Shear @ 0-10°, minor emerald green sericite adjacent			
		265 1/2" qtz vein @ 45°, bn-chalco			
		273 1/2" qtz vein @ 30°, minor bn.			
		281 1/2" qtz vein @ 45°, bn-chalco			
		283½ 3/4" qtz vein @ 40°, blebs of bn-chalco, MoS_2			
		284-287 2 feet core lost. Shear @ 45°, 2" gouge, frags of qtz vein - bn-chalco			
		289 1/2" band of biotite-magnetite @ 60°			
		295 1/2" sericite-biotite band @ 30°			
		299 Shear @ 20°, 1/2" gouge			
		306 Frag of 2" qtz vein @ 45°, chalco, MoS_2,-bn			
		320 Shear @ 30°, qtz-sericite			

Recovery	
350-360	4
360-370	5.5
370-380	6.5
380-390	4.5
390-400	7.5
400-410	8
410-420	9
420-430	8
430-440	8
440-450	8.5
450-460	10
460-470	9.5
470-480	9.5
480-490	9
490-500	9.5
500-510	8
510-520	9
520-530	9.5
530-540	9
540-550	10

Scale

Colour Plot & Dips

0

Drill Hole Record

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-13
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
	198°	-45°		1030	Rim 69-13	3

Footage From	To	Description	Sample No.	Length	Analysis
		321 2" qtz-sericite @ 30°, minor bn			
		322 Shear @ 45° (?), 1/2" gouge			
		323½ Shear @ 30°			
		325 1/10" chalco stringer @ 45°, MoS_2			
		326 1" qtz vein @ 10°, minor bn-chalco			
		330 4" band of sericite @ 60°, dissem. bn.			
		331 1/2" qtz vein @ 30°, bn			
		332 Vuggy K-spar			
		337 1/5" sericite band @ 40°, bn			
		339 1" qtz vein @ 60°, minor bn			
		340 Shear @ 10°, 1/4" gouge			
		341-345 K-spar on fracs. - vuggy			
		345½ Frags of qtz vein			
		353 Shear @ 45°			
		355-366 Shearing @ 30°, gouge BQD intense kaol. 3' recovered			
		358 Qtz frags. chalco-MoS_2			
		376-377 Shear @ 0°, minor gouge			
		379 1" qtz vein @ 60°, very minor bn; chalco-bn in thin sericite borders			
		382-394 5 feet recovered, shearing @ 10-20°, gouge, BQD intense kaol.			
		385 3" qtz vein @ 30°, MoS_2 - minor chalco			
		398 1/2" barren qtz vein @ 70°, cuts, sericite-bn band			
		399 1" qtz vein @ 60°, blebs bn-chalco			

Recovery	
550-560	10
560-570	9.5
570-580	7.5
580-590	9
590-600	9.5
600-610	8.5
610-620	9
620-630	8
630-640	9.5
640-650	9
650-660	8
660-670	8.5
670-680	9
680-690	9
690-700	9
700-710	8
710-720	9
720-730	8.5
730-740	9
740-750	9

211-9437—H.P.

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No. Rim 69-13	
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
	198°	-45°		1030	Rim 69-13	4

Footage From	To	Description	Sample No.	Length	Analysis		Recovery		
		424 Qtz stringer offset by qtz stringer 1/4"							
		432 1/10" MoS_2 stringer @ 70°					750-760		9
		444 1/2" qtz vein, MoS_2 in sericite borders					760-770		9
		455 1/2" qtz vein @ 30°, bn-chalco					770-780		9
		469-471 1-2" qtz-sericite @ 0-10°, bn					780-790		9.5
		475 2 - 1/2" qtz-sericite veins @ 30°, blebs of bn cut by 1" barren vein					790-800		10
							800-810		9.5
		470-500 Sericite often well developed(up to 1-2" bands), dissem. bornite					810-820		9.5
		486-488 1/2" qtz vein @ 0-10°, bn					820-830		10
		489 1½" qtz vein @ 15°, few blebs of bn					830-840		9
		493 1/4" qtz vein @ 0°, bn					840-850		10
		496 1/2" qtz vein @ 60°, bn					850-860		8
		497 1" qtz vein @ 20°, bn					860-870		9
		498 4" sericite band @ 20-30°, dissem. bn.					870-880		9.5
		499 1/4" qtz vein @ 60°, bn					880-890		8.5
		501 Shear @ 50°, minor gouge					890-900		8.5
		Barren decreasing again, grade still ore.					900-910		9
		517 Texture of f.g. BQD remains					910-920		9
		519 1/2" qtz vein @ 30°, bn-chalco					920-930		9
		524 Shear @ 45°, 1/4" gouge					930-940		6
		526 1/2" qtz vein @ 60°, bn-chalco					940-950		9.5
		529 1/2" qtz-sericite vein @ 20°, bn-chalco					950-960		8

Scale

Colour Plot & Dips

0

Drill Hole Record

Comico

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-13
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
	198°	-45°		1030	Rim 69-13	5

Footage From	Footage To	Description	Sample No.	Length	Analysis		Recovery			
		535½-565 Intense kaolinization. Sericite fracs (up to 1/4" wide) 3-5/foot								
		Mineralized qtz veins over 1/4", approx 1/4feet, barren qtz stringers common					960-970		9	
		540 Shearing @ 70°, 4" gouge					970-980		9.5	
		541 Shear @ 30°, 1/4" gouge					980-990		9	
		544 Shearing @ 70° (?), 6" gouge					990-1000		9	
		546 Shear @ 30°, 1/4" gouge					1000-1010		9	
		558 Shear @ 60°, 1/2" gouge					1010-1020		9	
563	563	Shear @ 60°, 1/2" gouge					1020-1030		9	
		573 Shear @ 50°, 1" gouge								
		584 1½" qtz vein @ 50°, blebs bn-chalco								
		585 Remnant texture of f.g. BQD as per R-69-11, R-69-12								
		590 2" qtz vein @ 60°, bn-chalco								
		591 2" qtz-sericite @ 40°, bn								
		594 1" qtz vein @ 40°, bn								
		596 1/2" qtz vein @ 60°, bn								
		596½ 1/2" qtz vein @ 30°, bn-chalco								
		600 1" qtz vein @ 60°								
		602 f.g. texture BQD								
		602½ 2" qtz vein, minor bn								
		617 1" qtz vein @ 45°, chalco, bn								
		624-626 Pink aplitic dyke @ 10° (?)								
		632½ 1/2" qtz vein @ 60°, 1/10" stringer MoS_2								

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-13
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
	198°	-45°		1030	Rim 69-13	6

Footage From	To	Description	Sample No.	Length	Analysis					
		641 Shear @ 60°, 1/4" gouge								
		646 6" qtz vein @ 40°, minor chalco								
		653 1/2" - 1" qtz vein @ 30°, chalco blebs								
		659 1/2" qtz vein @ 10°, bn								
		660 1" qtz vein @ 30°, chalco								
		665-683 Emerald green sericite common. Chalcopyrite main sulphide								
		667 1/5" stringer of chalco @ 0°								
		670 1" qtz vein @ 30°, bn								
		680½ Shear @ 45°, 8" gouge								
		685 - Slight kaolinization of the BQD. Appears to be finer grained than the normal								
		variety. Sericite and qtz veining poorly developed. The barren phase of qtz								
		veining is uncommon.								
		688 2" qtz vein @ 30°, minor bornite								
		693 2" qtz vein @ 70°, bn								
		700 Shear @ 0-10°								
		712-716 Ortho on fracs.								
		712 3" qtz vein @ 45°, bn								
		715 MoS_2 on shear at 50°								
		722 1½" qtz vein @ 60°, bn								
		731 Shears @ 45°								

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District HIGHLAND VALLEY	Hole No. Rim 69-13
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.
	198°	-45°		1030	Sheet 7 Rim 69-13

Footage From	To	Description	Sample No.	Length	Analysis
		734-736 Shear @ 0°, 1/2" gouge			
		777 Shear @ 30°, 1/2" gouge			
		782 Shearing @ 30°, also 0°, up to 1/2" gouge			
		788-792 Shearing @ 0° and 30°			
		801 1/2" qtz-sericite @ 0°, bn			
		809 3/4" qtz vein @ , bn			
		810 2" qtz vein @ 30°, bn			
		812 1½ feet massive sericite, dissem, bornite			
		816 1/2" qtz vein @ 30°, bn			
		817 1/2" qtz vein @ 0-10°, bn			
		819-820½ 1/2" qtz vein @ 0-10°, bn			
		833 2" massive sericite @ 30°			
		838-848 Intense kaolinization, grade mod. up to 5 sericite fracs/foot, bn			
		845 1" qtz vein @ 30°, chalco blebs			
		845½ 1" qtz vein @ 30°, minor bn			
		846 1/2" qtz-sericite @ 60°, bn			
		848-1030 Alteration patchy - fresh to moderate kaolinization. Sericite poor to moderate,			
		1-5 seric. fracs/foot. Mineralized qtz veins poor, 1/4-5 feet. Barren qtz veins			
		also present, some up to 1-2" wide. Bornite > chalcopyrite			

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Colour Plot & Dips

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Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	Rim 69-13
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
	198°	-45°		1030	Rim 69-13	8

Footage From	Footage To	Description	Sample No.	Length	Analysis
		859-862 Sericite well developed, up to 1½" on fracs @ 10°, chalco-bn			
		867 Emerald green sericite, vuggy, chalco			
		887-889 1" qtz vein @ 0-10°, blebs of bornite			
		908-910 Bornite and hematite on fractures @ 30°			
		909½ Shear @ 70°			
		918-920 Pink aplite dyke @ 45° (?)			
		931 1" band sericite @ 20°, bn-chalco			
		931-1030 Sericite generally poorly developed, only slight kaolinization			
		952-953 Ortho floods BQD, vuggy			
		994-998 Ortho along veins and fracs, occasionally vuggy			
		1009 2" band of sericite @ 60°			
		1015-1017 Vuggy ortho along veins and fracs.			
1030		END OF HOLE			

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Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	RIM-69-14		
Commenced	November 12, 1969	Location	Lake Zone	Tests at	545'	1380'	Hor. Comp. 990
Completed	November 30, 1969	Core Size	NQ	Corr. Dip	48°	44°	Vert. Comp. 995
Co-ordinates	98,757.29 N; 109,435.77 E			True Brg.	243°	023°	Logged by RUB, RFN
Objective				% Recov.	91.2		Date

(P.S. The azimuth at 545 considered unreliable - rods too close to Tropari)

Claim	T Brg. 225°	Collar Dip -45°	Elev. 4,007.38'	Length 1402'	Hole No. RIM-69-14	Sheet Summary

Footage From	To	Description	Sample No.	Length	Analysis
		SUMMARY OF GEOLOGY			
0	192	OVERBURDEN			
192	263	Oxidized Zone (the interval in which malachite occurs)			
263	546	Kaolinization and sericitization generally weak to moderate. Potassic alteration weak.			
546	689	Kaolinization and sericitization generally weak. Biotite generally chloritized. Weak potassic alteration. Kspar selvages occasionally along borders of quartz veins.			
		586 - 588 -- barren quartz veins common			
689	842	Intense kaolinization. Weak potassic alteration.			
		740 - 742 -- barren quartz veins common.			
842	1402	Quartz-rich core of core body. This section characterized by a great abundance of barren, or almost barren, quartz veins. The veins are typically irregular in attitude and frequently cut each other. "Stock-work" is often a good descriptive term for the material. The barren veins lack sericitic borders, but Kspar may or may not be present in the vein borders or the veins themselves. Barren veins generally cut mineralized veins.			
1402		END OF HOLE			

211-9437—H.P.

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	RIM-69-14
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. RIM-69-14 | Mineralization

Footage From To | Description | Sample No. | Length | Analysis

SUMMARY OF MINERALIZATION

Length	From	To	% Cu	% Mo
129'	191	320	.33	.0021
110	320	430	.43	.0043
	(430	440	Missing)	
120	440	560	.28	.0074
90	560	650	.41	.0041
190	650	840	.27	.0084
562	840	1402	.11	.0021
1211	191	1402	.23	.0040

Oxidized zone 191-263' i.e. 191-270' Total Cu. 0.33% Soluble Cu. 0.24% Oxidized Cu. 0.09%

211-9437—H.P.

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Valley Cu.

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	RIM-69-14
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 1402' | Hole No. Rim-69-14 | Sheet Assays 1

Footage From To | Description | Sample No. | Length | Analysis

Sample #	Footage From	To	% Cu	Oxide Cu %	% Mo	Sample #	Footage From	To	% Cu	% Mo	Sample #	Footage From	To	% Cu	% Mo
32151	191	200	.28	.21	.0008	32239	400	410	.42	.0096	32246	610	620	.24	.0004
52	200	210	.31	.27	.0004	40	410	420	.38	.0039	47	620-	630	.29	.0025
53	210	220	.23	.20	.0003	41	420-	430	.37	.0008	48	630	640	.44	.0042
54	220	230	.31	.28	.0003	42	430	440	.30	.0050	49	640	650	.50	.0150
55	230	240	.36	.32	.0005	43	440	450	.27	.0092	32250	650	660	.32	.0014
56	240	250	.37	.32	.0006	32244	450	460	.24	.0240	35051	660	670	.27	.0026
57	250	260	.38	.25	.0017	32178	460	470	.24	.0022	52	670	680	.26	.0068
58	260	270	.41	.04	.0092	79	470	480	.35	.0022	53	680	690	.26	.0069
59	270	280	.35	.005	.0022	80	480	490	.27	.0130	54	690	700	.24	.0150
60	280	290	.39	.005	.0064	81	490	500	.22	.0033	55	700	710	.32	.0083
61	290	300	.32	<.005	.0011	82	500	510	.29	.0036	56	710	720	.33	.0032
62	300	310	.19	.005	.0012	83	510	520	.24	.0012	57	720	730	.17	.0190
63	310	320	.36	.01	.0022	84	520	530	.35	.0033	58	730	740	.33	.0150
64	320	330	.62	.05	.0028	85	530	540	.28	.0034	59	740	750	.34	.0130
65	330	340	.40	.01	.0046	86	540	550	.33	.0130	60	750	760	.33	.0068
66	340	350	.49	.04	.0015	87	550	560	.23	.0130	61	760	770	.23	.0064
67	350	360	.59	.01	.0009	88	560	570	.51	.0020	62	770	780	.24	.0080
68	360	370	.36	.005	.0140	89	570	580	.34	.0027	63	780	790	.18	.0069
69	370	380	.59		.0010	90	580	590	.60	.0045	64	790	800	.17	.0083
70	380	390	.15		.0004	32191	590	600	.40	.0054	65	800	810	.19	.0042
32171	390	400	.38		.0074	32245	600	610	.37	.0006	66	810	820	.27	.0130

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	RIM-69-14
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 1402' | Hole No. R1m-69-14 | Sheet Assays 2

Footage From To | Description | Sample No. | Length | Analysis

Sample #	Footage From	Footage To	% Cu	% Mo	Sample #	Footage From	Footage To	% Cu	% Mo	Sample #	Footage From	Footage To	% Cu	% Mo
35067	820	830	.31	.0063	35088	1030	1040	.06	.0011	35036	1240	1250	.11	.0010
68	830	840	.29	.0083	89	1040	1050	.11	.0044	37	1250	1260	.05	.0033
69	840	850	.19	.0028	90	1050	1060	.11	.0062	38	1260	1270	.08	.0007
70	850	860	.23	.0031	91	1060	1070	.09	.0014	39	1270	1280	.52	.0033
71	860	870	.12	.0008	92	1070	1080	.07	.0008	40	1280	1290	.08	.0014
72	870	880	.13	.0008	93	1080	1090	.06	.0022	41	1290	1300	.03	.0004
73	880	890	.11	.0007	94	1090	1100	.16	.0045	42	1300	1310	.09	.0012
74	890	900	.15	.0008	95	1100	1110	.12	.0250	43	1310	1320	.07	.0004
75	900	910	.19	.0014	96	1110	1120	.22	.0049	44	1320	1330	.07	.0010
76	910	920	.25	.0005	97	1120	1130	.12	.0006	45	1330	1340	.08	.0004
77	920	930	.10	.0016	98	1130	1140	.14	.0016	46	1340	1350	.04	.0011
35078	930	940	.12	.0049	99	1140	1150	.08	.0008	47	1350	1360	.03	.0016
79	940	950	.12	.0013	35100	1150	1160	.09	.0008	48	1360	1370	.03	.0005
80	950	960	.09	.0018	35028	1160	1170	.11	.0016	49	1370	1380	.08	.0012
81	960	970	.14	.0005	29	1170	1180	.04	.0017	35050	1380	1390	.05	.0007
82	970	980	.09	.0004	30	1180	1190	.08	.0006	35401	1390	1402	.05	.0005
83	980	990	.09?	.0004*	31	1190	1200	.12	.0035					
84	990	1000	.10	.0014	32	1200	1210	.09	.0038					
85	1000	1010	.10	.0009	33	1210	1220	.07	.0040					
86	1010	1020	.06	.0004	34	1220	1230	.07	.0007					
87	1020	1030	.12	.0005	35	1230	1240	.07	.0036					

* (Assumed)

211-9437—H.P.

Scale

Colour Plot & Dips

Drill Hole Record

Comnco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	RIM-69-14		
Commenced	Nov 12, 1969	Location	Lake Zone	Tests at	545	1380	Hor. Comp. 990
Completed	Nov 30, 1969	Core Size	NQ	Corr. Dip	-48	-44	Vert. Comp. 995
Co-ordinates	98,757.29 N 109,435.77E			True Brg.	243°	023	Logged by RWB, RFN
Objective				% Recov.	91.2%		Date

Azimuth unreliable
Tropari probably too close to drill-rods

Claim	T Brg. 225	Collar Dip -45°	Elev. 4007.38	Length 1402'	Hole No. RIM-69-14	Sheet 1

Footage From	To	Description	Sample No.	Length	Analysis	Recovery	
0	192	Overburden					
		BETHSAIDA:				192-200	3.5
192	263	Oxidized zone (the interval in which malachite is present). Limonitic and pyrolusic fractures				200-210	7
		common. The bulk of the copper in this section is carbonate copper. Sericitization weak to moderate.				210-220	8
						220-230	9.5
263	546	Kaolinization generally weak to moderate. Plagioclase generally quite hard to knife and light				230-240	9.5
		green in colour. Sericitization weak to moderate. Sericite frequently occur along mineralized				240-250	9
		fractures. Unmineralized quartz veins have no sericitic borders. Potassic alteration weak.				250-260	10
		Max. kspar in the order of 2%. Kspar probably related to mineralization because it occurs				260-270	7
		principally in areas of mineralization and sericite alteration.				270-280	10
						280-290	10
		263 - 313: Chalcopyrite more abundant than ~~cp~~ bn. Mineralization principally as fine dissem.				290-300	10
		in areas of sericite. Fresh and chloritized biotite coexist in the same core				300-310	9
		specimens but chlorite alteration is generally more intense near mineralization.				310-320	10
						320-330	10
		265 Fault at 20°. Sericitic gouge				330-340	10
		271 Fault at 20°. Gauge				340-350	10
		290.5 Barren quartz vein: no sericitic border				350-360	10
		291 Minor native copper in vuggy quartz vein				360-370	6.5
		301-335 Barren quartz veins common. These veins frequently cut mineralization, e.g. 334'.				370-380	4
		307 Emerald green sericite				380-390	5
		336 Moly slip at 25°				390-400	8.5

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	VALLEY COPPER	District	HIGHLAND VALLEY	Hole No.	RIM-69-14
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 1402' | Hole No. Rim 69-14 | Sheet 2

Footage From	To	Description	Sample No.	Length	Analysis		Recovery			
263 - 546		363 Minor moly in quartz vein								
cont'd		363.5-366 Fault. 1/2' of core recovered. Minor gouge.					400-410			9.5
		368.5 Minor fault at 25°. Gouge					410-420			9.5
		377 Emerald green sericite					420-430			8
		379.5-381 Fault at 10°					430-440			9
		383-389 Emerald green sericite common					440-450			10
		383-388 Fault at 25°. About 1/2 foot of core recovered.					450-460			9
		391 Moly in quartz vein at 50°					460-470			9
		378 - 431 Bn ≥ cp. Minor dissem. moly frequently associated with copper.					470-480			10
		398 Dissem. moly in sericite					480-490			7
		441-456 Emerald green sericite common. Dissem. moly and fracture-controlled moly common.					490-500			8.5
		Dissem. pyrite. Chalcopyrite is the chief copper mineral.					500-510			10
		450 Fault at 35°. Gouge					510-520			9
		457 Fault at 55°. Very heavy concentration of moly in 6-inch quartz vein. Also cp & Pyrite.					520-530			9
		486-490 Emerald green sericite common. Dissem. moly & cp. & pyrite.					530-540			9
		487 minor fault at 10°					540-550			6
		511 Minor fault at 25°					550-560			8
		511-518 Emerald green sericite common. Faulting.					560-570			9
		528 Minor fault at 15°					570-580			9.5
		528-546 Moly on fracture					580-590			9.5
							590-600			8.5
							600-610			10

Scale

Colour Plot & Dips

0

Drill Hole Record

Comnco

Property VALLEY COPPER	District HIGHLAND VALLEY	Hole No. RIM-69-14	
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 1402' | Sheet 3 | Hole No. Rim-69-14

Footage From	To	Description	Sample No.	Length	Analysis		Recovery			
546	- 689	Kaolinization generally weak, occasionally intense in areas of faulting, e.g. 552-569.								
		Sericitization weak. Biotite generally chloritized. Cp < bn. Potassic alteration weak. Kspar					610	-620		9.5
		selvages occasionally occur along borders of quartz veins.					620	-630		7.5
							630	-640		9.5
		555 Minor fault					640	-650		10
		561 Minor fault at 40°					650	-660		7
		562.5-567.5 Fault with core angles at 30-70°. Mostly gouge.					660	-670		8
		580 Minor fault at 45°					670	-680		9.5
		586-588 Barren quartz veins common. No sericitic borders.					680	-690		9.5
		604 Minor fault at 33°					690	-700		9
		640 Minor fault at 15°. Gouge					700	-710		9.5
		650 Minor fault at 15°. Gouge					710	-720		9.5
		660 Shear at 60°. Gouge					720	-730		9
		670-740 Barren qutz. vein phase - only a few sporadic throughout core.					730	-740		2
		688 Shear at 60°. 1/2" gouge.					740	-750		8
							750	-760		10
689	- 842	Intense kaolinization. Mafics to sericite. Qtz-sericite generally poor to moderate. Bn main					760	-770		9
		sulphide. Kspar very poorly developed/only occasional occurrence along veins & fracs.					770	-780		9
							780	-790		9.5
		696.5 3" qtz vein at 60°. Minor bn.					790	-800		8.5
		697-701 Fault zone, at 60°, minor at 0-10°. Mostly gouge.					800	-810		8
		702 2" qtz vein at 45°. Minor bn					810	-820		8.5

211-9437—H.P.

Scale

Colour Plot & Dips

Drill Hole Record

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Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim | T Brg. | Collar Dip | Elev. | Length 1402' | Hole No. Rim-69014 | Sheet 4

Footage From	To	Description		Sample No.	Length	Analysis
689 - 842		712	1" quartz vein at 20°. Chalco-bn.			
cont'd		713	3" quartz vein at 45°. Bn - minor chalco			
		719	Shear at 45°. 1/2" gouge.			
		740-745	Fault at 45-60°. Mostly gouge.			
		740 - 842	Barren quartz veins now common throughout. Appears to alt. Mineralized sericite-			
			quartz veins.			
		766	Shear at 60°			
		772-785	Kspar 10-15%			
		779	Shear at 60°			
		799-802	Lamprophyre dyke at 60°. Chilled contacts.			
		809	Shear at 10°, also at 45°			
		817	3" quartz vein at 60°. MoS_2			
		818	Shear at 20°			
		824	Shear at 60°. 1" gouge			
		824.5	Shear at 60°. Gouge			
		827	Minor fault at 25°			
		830	Slickensided sulphide on fracture at 15°.			
		839	Moly on fracture.			

Recovery	
820-830	9.5
820	9
830	10
830-840	9
840-850	10
850-860	5
860-870	8
870-880	9.5
880-890	9
890-900	10
900-910	10
910-920	10
920-930	9.5
930-940	10
940-950	10
950-960	10
960-970	4
970-980	9
980-990	10
990-1000	10
1000-1010	10

Scale

Colour Plot & Dips

Drill Hole Record

Cominco

Property VALLEY COPPER	District HIGHLAND VALLEY	Hole No. RIM-69-14	
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 1402' | Hole No. Rim-69-14 | Sheet 5

Footage From	To	Description	Sample No.	Length	Analysis					
842	1402	This part of the hole is definitely in the quartz rich core of the ore body. Some of the previous					Recovery			
		section 740-842 probably also in the low-grade core. This section characterized by a great					1010-1020			10
		abundance of barren or almost barren quartz veins. The veins are typically irregular in					1020-1030			10
		attitude and frequently cut each other. "Stock-work" is often a good descriptive term for this					1030-1040			10
		material. The barren veins lack sericitic borders but Kspar frequently occurs in the veins and					1040-1050			9
		occasionally form borders to the veins. The age relationship between the barren and mineralized					1050-1060			10
		quartz veins is inconclusive. Barren quartz veins appear, generally speaking, to cut the					1060-1070			10
		mineralized veins. The intensity of kaolinization is quite variable throughout. There is					1070-1080			10
		occasionally a weak, direct, relationship between the frequency of barren quartz veins and the					1080-1090			10
		intensity of kaolinization. Bn RUB cp. Barren quartz veins cut other barren quartz veins. The					1090-1100			9.5
		frequency of barren quartz veins (or stringers) occasionally 20 per foot or more depending on					1100-1110			10
		their widths.					1110-1120			10
							1120-1130			9
		868.5-871.5 Barren greenish grey lamprophyre dyke. The lower contact at 50°. Minor faulting					1130-1140			10
		parallel to the lower contact at the contact. The lamprophyre has been bleached					1140-1150			10
		for a distance of 1 foot at the lower contact.					1150-1160			10
		878-883 Lamprophyre dyke at 868.5-871.5. Sharp intrusive contacts. Lower contact bleaced for 1".					1160-1170			10
		900 Barren quartz veins cut mineralized sericite.					1170-1180			10
		933 Barren quartz vein cuts and offsets other barren quartz veins.					1180-1190			10
		937-938 Minor fault at 30°					1190-1200			10
		955 Minor fault at 55°.					1200-1210			10
		970 Minor fault					1210-1220			10

211-9437—H.P.

Scale

Colour Plot & Dips

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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	T Brg.	Collar Dip	Elev.	Length 1402'	Hole No. RIM-69-14	Sheet 6

Footage From	To	Description	Sample No.	Length	Analysis
		981-1000 Very intense kaolinization. Plagioclase is "clayey" and soft to finger nail.			
		Barren quartz veins are cut by other quartz veins.			
		1014 Very well developed Kspar envelope adjacent to barren quartz vein. No sericite.			
		1025 Minor fault at 20°			
		1026 Emerald green sericite			
		1039-1042 Fault. Gouge on fracture at 20, 70°			
		1044-1046 Fault. Moly on fracture at 70°			
		1088 Barren quartz vein cuts mineralized sericite			
		1094 Minor fault at 20°			
		1096 Heavy concentration of cp and bn in vuggy sericite aggregate.			
		1106 Heavy concentration of moly on fractures in 3/4" wide quartz vein at 50°			
		1110-1111 Heavy concentration of moly on fracture at 10°. Gouge and slickensided moly is			
		present. The slickensided shear fracture cuts a quartz vein containing cp.			
		1113 Heavy concentration of bn and cp in sericite band 2" wide, the sericite is cut by			
		a barren quartz vein.			
		1117-1140 Very intense kaolinization. Fedspars soft to finger nails. The intense kaolinization			
		here appears to correspond to a section of very high frequency of barren quartz			
		veins and quartz stringers.			
		1117-1122 Fault at 50°. Gougy core. Slickensided sulphides.			
		1125 Very coarse bn and cp in quartz vein having sericitic border.			
		1136 Very heavy bn in quartz vein.			

Recovery	
1220-1230	10
1230-1240	10
1240-1250	10
1250-1260	10
1260-1270	10
1270-1280	10
1280-1290	10
1290-1300	10
1300-1310	10
1310-1320	10
1320-1330	10
1330-1340	10
1340-1350	10
1350-1360	9
1360-1370	8.5
1370-1380	9
1380-1390	10
1390-1400	10
1400-1402	2

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property VALLEY COPPER	District HIGHLAND VALLEY	Hole No. RIM-69-14	
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 1402' | Hole No. Rim-69-14 | Sheet 7

Footage From	To	Description	Sample No.	Length	Analysis
		1141-1224 Very weak kaolinization. Silicification by introduction of barren quartz veins and			
		and chloritization of the biotite are the dominant alteration types. Cp greater			
		than bn.			
		1158 Minor fault at 40°			
		1166 Minor fault at 60°. Gouge.			
		1224-1264 Quartz as barren veins constitute 60-65% of the core on the average. Trace cp in this section.			
		1224-1357 Generally moderate kaolinization. Silicification and chloritization dominant			
		alteration types.			
		1225 Emerald green sericite. Minor fault at 60°.			
		1238 Heavy concentration of MoS_2 in quartz vein. Moly slip at 50°.			
		1242 Minor emerald green sericite			
		1276 Minor fault at 75°			
		1277-1278 Dissem. moly and massive cp in seam at 15°.			
		1305-1306 Minor bn along sericitic fracture.			
		1331-1333 Relatively well mineralized section with dissem. cp & bn in sericite.			
		1338-1350 Aplitic material shot through with a stockwork of barren quartz veins.			
		1380 Minor dissem. bn in sericite			
		1400 Minor moly on fracture.			
1402		END OF HOLE			