COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

N.T.S. 92I/10

ASSESSMENT REPORT

DIAMOND DRILLING

HAPPY DAYS CLAIMS

ROPER LAKE AREA, KAMLOOPS M.D., B.C.

120°39'30"; 50°34'45"

WORK PERFORMED BETWEEN MAY 9 and MAY 25, 1981

ON HAPPY DAYS M.C., RECORD NO. 169

The drill core is stored at the site of
percussion hole 79-26

JUNE 1981

R.U. BRUASET

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COMINCO LTD.

EXPLORATION
NTS: 92I/10

WESTERN DISTRICT
24 June 1981

ASSESSMENT REPORT

DIAMOND DRILLING - HAPPY DAYS M.C.'s

ROPER LAKE AREA, KAMLOOPS M.D., B.C.

I. INTRODUCTION

This report contains the log and assay data from DDH 8105 which was drilled as part of a drilling program carried out on HAPPY DAYS Mineral Claim (Record No. 169) during last spring.

II. LOCATION

HAPPY DAYS M.C. is situated at Roper Lake which is centred at 50°34'45"; 120°39'30". Greenstone Mtn., a major topographic high for the area, is situated 4 km north of the lake. Greenstone Mtn. lies approximately 24.5 km southwesterly of downtown Kamloops. Access to the property from the Trans Canada Highway is via the Greenstone Mtn. road - a distance of 30 km. The attached plan shows HAPPY DAY M.C. in relation to Roper Lake and the latitude and longitude noted above.

III. SUMMARY

Cominco Ltd. has explored the Roper Lake property since 1978 under an option agreement with Keda Resources (1973) Ltd. The area of interest is the Roper Lake stock, a roughly circular granitic intrusion 2 km in diamter which intrudes the volcanic rocks of the Upper Triassic Nicola Group. A narrow belt of Nicola rocks, metamorphosed to hornfels and skarn, extends across approximately 3/4 the diameter of the stock in a southeastern direction. The earliest drilling in the stock was carried out by Dominic Lake Mining in 1967. A target for that drilling was a large Mo soil geochemical anomaly first indicated by a 1960 survey conducted by Kennco Exploration (Western) Limited on the former DRG claims. The main emphasis of Cominco Ltd. has been on the eastern half of the stock, where several percussion holes in 1979 first indicated encouraging molybdenum mineralization (Bruaset).

IV. DIAMOND DRILLING

The attached drill log contains descriptions of lithology, structure, alteration and mineralogy of DDH 8105 which was drilled to a depth of 1,137 feet. The attached drill plan shows the location of DDH 8105

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in relation to percussion holes drilled in 1979.

The principal lithology of DDH 8105 is Roper Lake megaphenocryst porphyry, a massive coarse grained granitic rock characterized by large poikilitic albite/perthite phenocrysts typically greater than 1 cm in diameter and biotite as the sole mafic mineral present. This granite is intruded by another massive, now fine to medium grained, porphyritic granite termed Variety "A". The latter contains the same modal minerals as the megaphenocryst porphyry in approximately the same proportions. The two rock types are the principal molybdenum hosts in the property. Variety "A" is dyke-like exhibiting chilled contacts against Roper Lake megaphenocryst porphyry. Intermediate dykes, aphanitic to fine grained, exhibiting chilled contacts and cutting mineralized fractures, are regarded as possible Tertiary feeders.

Moderately to steeply dipping faults, generally post-molybdenite, occur throughout the hole. Core angles of mineralized fractures (M.F.) are tabulated in the log . Mineralized fractures (M.F.) refer to quartz veins, hairline fractures, gouge zones or slips containing readily apparent molybdenite.

Alteration is classified according to the changes of the plagioclase and biotite, as well as the degree of apparent potash and or silica introduction (or reconstitution). Thus, for argillic alteration, weak, moderate and intense levels are noted and distinguished on the basis of the degree of clouding of the plagioclase and its softness relative to a knife blade. For instance, in weak argillic alteration, the plagioclase becomes light green in colour, but retains essentially its original hardness. For moderate argillic alteration, the plagioclase becomes slightly darker green and is appreciably softer to the knife. During intense argillic alteration, the plagioclase becomes dark green or even clayey and may be soft to the knife, occasionally to the extent that the plagioclase is soft to the finger nail. Chloritization is self explanatory. It is noted that sericite locally develops after chlorite, but no attempt is made to classify the degree of such sericite development because it appears volumetrically unimportant. No coarse sericite envelopes or selvages are noted in the drilling. Potassic alteration is expressed by kspar veins and selvages and by the degree of conversion of white albite megaphenocrysts to perthitic megaphenocrysts. The process of potassic alteration is typically sufficiently intense to convert nearly all of individual megaphenocrysts to a pink material indicated by etching and staining to be largely kspar. Silicification is expressed by quartz veins and some recrystallization of pre-existing anhedral grains to form quartz eyes. Such recrystallization is best developed in sections of moderate and intense argillic alteration.

Molybdenite occurs principally as fine fracture and open space fillings in quartz stockwork. Heavy molybdenite is occasionally noted in gouge zones. Disseminated molybdenite may be found in the areas between individual fractures. Pyrite is ubiquitous. Other sulphides such as chalcopyrite and bornite are conspicuous by their scarcity or complete absence.

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V. ANALYSIS

Conventional ten-foot samples were split in the field and submitted to the Cominco Exploration Research Laboratory in Vancouver for analysis. Individual samples were assayed for Mo and composites, normally representing fifty feet were geochemically analyzed for Cu, Au, Ag and W. The molybdenum determinations were done by conventional total extraction assay procedures. Cu and Ag were done by aqua regia digestion and atomic absorption; Au was done by aqua regia digestion, solvent extraction and atomic absorption; and W was done by pyrosulphate fusion and colorimetry.

VI. CONCLUSIONS

DDH 8105 intersected submarginal molybdenum mineralization to a depth of 1,137 feet. Cu, Au, Ag and W values are present in background levels. The significance of this hole will have to be determined in the light of other drilling information.

References

Bruaset, R.U., August, 1979: Assessment Report Percussion Drilling Roper Lake Property 50°34'45"N, 120°39'30"W. PH79-1 to 17

Bruaset, R.U., December, 1979: Assessment Report Percussion Drilling on Roper Lake Property. PH79-18 to 31.

Report by: R.U. Bruaset

R.U. Bruaset
Project Geologist

Endorsed by: D.L. Cooke

D.L. Cooke
Senior Geologist

RUB/vmk

Attachments

1) Drill Plan
2) Drill Log
3) Assay Sheets
4) Cost Statement
5) Statement of Qualifications

Endorsed for Release by: W.J. Wolfe for

G. Harden, Manager
Exploration
Western District

ROPER LAKE

REPORTING DATE 17 JUN 1981

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SAMPLE NUMBER	DDH NUMBER	DRILL FOOTAGE FROM	TO	Mo(1) %
R81 06017	DDHRL8105	000061.0	000070.0	.074
R81 06018	DDHRL8105	000070.0	000080.0	.062
R81 06019	DDHRL8105	000080.0	000090.0	.060
R81 06020	DDHRL8105	000090.0	000100.0	.050
R81 06021	DDHRL8105	000100.0	000110.0	.030
R81 06022	DDHRL8105	000110.0	000120.0	.043
R81 06023	DDHRL8105	000120.0	000130.0	.064
R81 06024	DDHRL8105	000130.0	000140.0	.080
R81 06025	DDHRL8105	000140.0	000150.0	.078
R81 06026	DDHRL8105	000150.0	000160.0	.014
R81 06027	DDHRL8105	000160.0	000170.0	.067
R81 06028	DDHRL8105	000170.0	000180.0	.102
R81 06029	DDHRL8105	000180.0	000190.0	.031
R81 06030	DDHRL8105	000190.0	000200.0	.019
R81 06031	DDHRL8105	000200.0	000210.0	.066
R81 06032	DDHRL8105	000210.0	000220.0	.026
R81 06033	DDHRL8105	000220.0	000230.0	.047
R81 06034	DDHRL8105	000230.0	000240.0	.019
R81 06035	DDHRL8105	000240.0	000250.0	.051
R81 06036	DDHRL8105	000250.0	000260.0	.013
R81 06037	DDHRL8105	000260.0	000270.0	.008
R81 06038	DDHRL8105	000270.0	000277.5	.048
R81 06039	DDHRL8105	000277.5	000291.5	<.001
R81 06040	DDHRL8105	000291.5	000300.0	.026
R81 06041	DDHRL8105	000300.0	000310.0	.010
R81 06042	DDHRL8105	000310.0	000320.0	.045
R81 06043	DDHRL8105	000320.0	000330.0	.028
R81 06044	DDHRL8105	000330.0	000340.0	.019
R81 06045	DDHRL8105	000340.0	000350.0	.132
R81 06046	DDHRL8105	000350.0	000360.0	.041
R81 06047	DDHRL8105	000360.0	000370.0	.053
R81 06048	DDHRL8105	000370.0	000380.0	.042
R81 06049	DDHRL8105	000380.0	000390.0	.062
R81 06050	DDHRL8105	000390.0	000400.0	.018
R81 06051	DDHRL8105	000400.0	000410.0	.064
R81 06052	DDHRL8105	000410.0	000414.0	.026
R81 06053	DDHRL8105	000414.0	000420.0	<.001
R81 06054	DDHRL8105	000420.0	000430.0	.001
R81 06055	DDHRL8105	000430.0	000440.0	.001
R81 06056	DDHRL8105	000440.0	000450.0	<.001

COPPER LAKE

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SAMPLE NUMBER	DDH NUMBER	DRILL FOOTAGE FROM	TO	Mo(1) %
R81 06057	DDHRL8105	000450.0	000456.5	(.001
R81 06058	DDHRL8105	000456.5	000470.0	.051
R81 06059	DDHRL8105	000470.0	000480.0	.041
R81 06245	DDHRL8105	000480.0	000490.0	.027
R81 06246	DDHRL8105	000490.0	000500.0	.094
R81 06247	DDHRL8105	000500.0	000510.0	.088
R81 06248	DDHRL8105	000510.0	000520.0	.068
R81 06249	DDHRL8105	000520.0	000530.0	.073
R81 06250	DDHRL8105	000530.0	000540.0	.041
R81 06251	DDHRL8105	000540.0	000550.0	.027
R81 06252	DDHRL8105	000550.0	000560.0	.067
R81 06253	DDHRL8105	000560.0	000570.0	.044
R81 06254	DDHRL8105	000570.0	000580.0	.068
R81 06255	DDHRL8105	000580.0	000590.0	.019
R81 06256	DDHRL8105	000590.0	000600.0	.025
R81 06257	DDHRL8105	000600.0	000610.0	.017
R81 06258	DDHRL8105	000610.0	000620.0	.034
R81 06259	DDHRL8105	000620.0	000630.0	.044
R81 06260	DDHRL8105	000630.0	000640.0	.029
R81 06261	DDHRL8105	000640.0	000650.0	.039
R81 06262	DDHRL8105	000650.0	000660.0	.017
R81 06263	DDHRL8105	000660.0	000670.0	.038
R81 06264	DDHRL8105	000670.0	000680.0	.035
R81 06265	DDHRL8105	000680.0	000690.0	.006
R81 06266	DDHRL8105	000690.0	000700.0	.013
R81 06267	DDHRL8105	000700.0	000710.0	.091
R81 06268	DDHRL8105	000710.0	000720.0	.007
R81 06269	DDHRL8105	000720.0	000730.0	.022
R81 06270	DDHRL8105	000730.0	000740.0	.035
R81 06271	DDHRL8105	000740.0	000750.0	.044
R81 06272	DDHRL8105	000750.0	000760.0	.019
R81 06273	DDHRL8105	000760.0	000770.0	.043
R81 06274	DDHRL8105	000770.0	000780.0	.035
R81 06469	DDH8105	000780.0	000790.0	.035
R81 06470	DDH8105	000790.0	000800.0	.010
R81 06471	DDH8105	000800.0	000810.0	.024
R81 06472	DDH8105	000810.0	000820.0	.036
R81 06473	DDH8105	000820.0	000830.0	.030
R81 06474	DDH8105	000830.0	000840.0	.062
R81 06475	DDH8105	000840.0	000850.0	.061

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SAMPLE NUMBER	DDH NUMBER	DRILL FOOTAGE FROM	TO	Mo(1) %
R81 06476	DDH8105	000850.0	000860.0	.052
R81 06477	DDH8105	000860.0	000870.0	.015
R81 06478	DDH8105	000870.0	000880.0	.038
R81 06479	DDH8105	000880.0	000890.0	.033
R81 06480	DDH8105	000890.0	000900.0	.035
R81 06481	DDH8105	000900.0	000910.0	.086
R81 06482	DDH8105	000910.0	000920.0	.019
R81 06483	DDH8105	000920.0	000930.0	.015
R81 06484	DDH8105	000930.0	000940.0	.025
R81 06485	DDH8105	000940.0	000950.0	.043
R81 06486	DDH8105	000950.0	000960.0	.049
R81 06487	DDH8105	000960.0	000970.0	.023
R81 06488	DDH8105	000970.0	000980.0	.015
R81 06489	DDH8105	000980.0	000990.0	.019
R81 06490	DDH8105	000990.0	001000.0	.047
R81 06491	DDH8105	001000.0	001010.0	.064
R81 06492	DDH8105	001010.0	001020.0	.040
R81 06493	DDH8105	001020.0	001030.0	.051
R81 06494	DDH8105	001030.0	001040.0	.021
R81 06495	DDH8105	001040.0	001050.0	.026
R81 06496	DDH8105	001050.0	001060.0	.062
R81 06497	DDH8105	001060.0	001070.0	.056
R81 06498	DDH8105	001070.0	001080.0	.045
R81 06499	DDH8105	001080.0	001090.0	.072
R81 06500	DDH8105	001090.0	001100.0	.022
R81 06501	DDH8105	001100.0	001110.0	.023
R81 06502	DDH8105	001110.0	001120.0	.030
R81 06503	DDH8105	001120.0	001130.0	.025
R81 06504	DDH8105	001130.0	001137.0	.020

WHERE ANALYSIS REQUESTED BUT NO VALUES SHOWN, RESULTS ARE TO FOLLOW

ANALYTICAL METHODS

Mo(1) Assay

ROPER LAKE

COMPOSITES

REPORTING DATE 18 JUN 1981

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SAMPLE NUMBER	DDH NUMBER	DRILL FOOTAGE FROM	TO	Cu PPM	Ag PPM	Au PPB	W PPM
R81 06063	DDHRL8105	000061.0	000110.0	19	.6	<10	35
R81 06064	DDHRL8105	000110.0	000160.0	14	<.4	<10	6
R81 06065	DDHRL8105	000160.0	000210.0	18	<.4	<10	7
R81 06066	DDHRL8105	000210.0	000260.0	16	<.4	<10	6
R81 06067	DDHRL8105	000260.0	000310.0	30	<.4	<10	10
R81 06068	DDHRL8105	000310.0	000360.0	23	.5	<10	8
R81 06069	DDHRL8105	000360.0	000414.0	140	<.4	<10	<2
R81 06070	DDHRL8105	000414.0	000456.5	52	<.4	<10	<2
R81 06071	DDHRL8105	000456.5	000480.0	24	.4	<10	8
R81 06275	DDHRL8105	000480.0	000530.0	21	<.4	<10	R200
R81 06276	DDHRL8105	000530.0	000580.0	25	<.4	20	10
R81 06277	DDHRL8105	000580.0	000630.0	23	<.4	10	10
R81 06278	DDHRL8105	000630.0	000680.0	24	0.4	20	12
R81 06279	DDHRL8105	000680.0	000720.0	25	<.4	12	10
R81 06280	DDHRL8105	000720.0	000760.0	24	1.0	<10	8
R81 06281	DDHRL8105	000760.0	000780.0	72	<.4	<10	35
R81 06505	DDH8105	000780.0	000830.0	26	1.1	<10	2
R81 06506	DDH8105	000830.0	000880.0	22	0.7	<10	5
R81 06507	DDH8105	000880.0	000930.0	24	0.4	<10	6
R81 06508	DDH8105	000930.0	000980.0	18	1.4	<10	9
R81 06509	DDH8105	000980.0	001030.0	26	1.5	<10	8
R81 06510	DDH8105	001030.0	001080.0	70	1.7	<10	3
R81 06511	DDH8105	001080.0	001137.0	15	1.4	<10	7

WHERE ANALYSIS REQUESTED BUT NO VALUES SHOWN, RESULTS ARE TO FOLLOW
R = REVISED VALUE, SUPERCEDES EARLIER REPORTED

ANALYTICAL METHODS

Au — AQUA REGIA DIGESTION / SOLVENT EXTRACTION / AA
W — PYROSULPHATE FUSION / COLORIMETRIC
Cu, Ag — AQUA REGIA DIGESTION / AA

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EXPLORATION — WESTERN DISTRICT

COST STATEMENT

Diamond Drilling contract charges	
1,137' @ $25.91/ft.	$29,459.67
Ground transportation	1,421.25
Domicile	2,046.60
Road access & drill site	2,774.28
Core storage	432.06
Communication	113.07
Assaying	898.23
Salaries	
R.U. Bruaset - 19 days	3,810.83
D. Carr - 18 days	2,010.60
R. Grant - 18 days	1,473.12
Total Cost	$44,440.34
Cost/ft.	$39.086
Cost/metre	$128.20

RUB/vmk

COMINCO LTD.

EXPLORATION WESTERN DISTRICT

STATEMENT OF QUALIFICATIONS

I, Ragnar U. Bruaset, with business address at 700 - 409 Granville St., Vancouver, British Columbia, V6C 1T2, do hereby certify that I have supervised the diamond drilling program on the Happy Days property.

I also certify that:

1. I am a graduate of the University of British Columbia with a degree of B.Sc., in Geology 1967;

2. That I have been involved in exploration work for Cominco Ltd. since 1967 and that I have been involved in all phases of porphyry copper exploration and development since 1968 to the present;

3. That I have been closely involved with the exploration work on the Happy Days property during the period July 1, 1978 to the present.

Respectfully Submitted:

R.U. Bruaset
Project Geologist

RUB/vmk

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	Roper Lake	District	Kamloops M.D.	Hole No.	DDH8105
Commenced	May 9, 1981	Location		Tests at	600', 1137'
Completed	May 25, 1981	Core Size	NQ with mud	Corr. Dip	89°, 88°
Co-ordinates				True Brg.	unknown
Objective	To test depth extension of mineralization in PH80-14			% Recov.	98.9

Hor. Comp. 32 feet
Vert. Comp. 1133 feet
Logged by DMC/RUB
Date May 10-25, 1981

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
HAPPY DAYS		-90°		1137'	DDH8105	1 of 18

Footage From	Footage To	Description	Sample No.	Length (ft.)	Analysis Rec.	%Mo	M.F.	Core Angles
		NOTE: 1) Mineralized fracture (M.F.) is a vein or fracture containing essential molybdenite.	06017	61-70	9	.074	14	10,30,35,40,50
		2) Core angle is the core angle of a M.F. No order of frequency implied by the order in	06018	70-80	10	.062	17	0,5,30,40,50,55
		which the fractures are listed.	06019	80-90	10	.060	15	15,20,30,40,50,60
		3) Samples are split core.	06020	90-100	10	.050	18	0,10,20,40,50
0	61.0	Overburden	06021	100-10	10	.030	12	0,40,45,50,85
61.0	309.0	Generally Roper Lake granite variety kspar megaphenocryst porphyry. Coarse grained, massive,	06022	10-20	10	.043	16	30,40,45,50
		porphyritic intrusive with larger irregularly distributed perthitic phenocrysts (termed kspar	06023	20-30	9.5	.064	10	30,40,70,75
		hereafter) usually several cm wide. The sole mafic mineral is biotite.	06024	30-40	9.5	.080	14	15,20,40,50,80
		Quartz is present in anhedral grains	06025	40-50	10	.078	11	0,10,20,40,50
		in the fresh megaphenocryst porphyry, but forms "eyes" when the porphyry is altered.	06026	50-60	9.5	.014	8	30,35,40
		Megaphenocrysts are typically poikilitic with biotite the most common mineral included. Sul-	06027	60-70	10	.067	14	35,40,45,55,60
		phide inclusions include pyrite and molybdenite.	06028	70-80	9.5	.102	24	10,20,30,40
			06029	80-90	10	.031	14	10,20,45,50
		61.0- 68.0 - "Hybridized" Roper Lake variety "A" (?). Fine to medium grained porphyritic	06030	90-200	10	.019	19	0,20,25,30,40,50,75
		granite containing the same modal minerals as kspar megaphenocryst porphyry,	06031	200-10	10	.066	19	0,15,35,50,65
		but finer grain and with no kspar megaphenocrysts over 1 cm. In this particu-	06032	10-20	10	.026	15	0,20,30,40,70,80
		lar section are numerous short biotite rich intervals which may be partially	06033	20-30	10	.047	16	0,25,30,40,45,60
		assimulated Nicola volcanic material.	06034	30-40	10	.019	17	30,35,40,50,70
		Alteration 61.0-68.0	06035	40-50	9.5	.051	18	10,15,30,40,60
		Argillic: Moderate argillic alteration - plagioclase greenish in colour yet still quite	06036	50-60	10	.013	19	35,40,70
		hard to the knife.	06037	60-70	10	.008	14	10,20,40,50
			06038	70-77.5	7.5	.048	11	25,30,40,70

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property Roper Lake	District Kamloops M.D.	Hole No. DDH 8105	
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. DDH8105 | Sheet 2 of 18

Footage From	Footage To	Description	Sample No.	Length	Analysis Rec.	%Mo	M.F.	Core Angles
61.0	309.0	Potassic: Very weak; few selvages and few pink kspar phenocrysts.	06039	277.5-291.5	14	<.001	nil	n/a
(cont'd.)		Chloritic: Biotite generally chloritized.	06040	291.5-300	8.5	.026	17	30,35,40,70
		Silicification: Few quartz veins and quartz eyes.	06041	300-10	10	.010	11	20,25,30,40,50,70
		68.0- 86.0 - Mineralized leucocratic feldspar porphyry dyke. Contacts are indistinct due to	06042	10-20	10	.045	24	15,20,30,40,45,50,70
		faulting, alteration and broken core. Phenocrysts are white and probably	06043	20-30	9.5	.028	11	20,30,40,50,80
		albite.	06044	30-40	10	.019	15	15,20,35,45,50,55,70
		Alteration 68.0-86.0	06045	40-50	10	.132	15	5,15,25,30,45,50
		Argillic: Weak (plagioclase generally very light green or white and hard to the knife).	06046	50-60	10	.041	19	10,15,40,75
		Potassic: Few kspar selvages along fractures. No pink kspar megaphenocrysts.	06047	60-70	10	.053	24	5,10,30,35,40,50,55
		Chloritization: All biotite altered to chlorite.	06048	70-80	10	.042	17	15,20,30,50
		Silicification: Moderate as quartz veins and quartz eyes.	06049	80-90	10	.062	15	15,30,45
		Mineralization: Two types: 1) Moly in hairline fractures; 2) Disseminated molybdenite	06050	90-400	10	.018	13	30,45,50
		(i.e. no apparent relationship to fractures)	06051	400-10	10	.064	13	15,25,30,35,40,50
		72.0 - White feldspar phenocrysts - probably albite - are poikilitic. The inclusions	06052	10-14	4	.026	5	15,20,25,35
		are molybdenite.	06053	14-20	6	<.001	nil	n/a
		Alteration 86.0-101.0	06054	20-30	10	.001	nil	n/a
		Argillic: Moderate.	06055	30-40	10	.001	nil	n/a
		Potassic: Moderate, kspar forms selvages relative to veins and fractures. Kspar	06056	40-50	10	<.001	nil	n/a
		megaphenocrysts common.	06057	50-56.5	6.5	<.001	nil	n/a
		Chloritization: Biotite generally altered to chlorite where the argillic alteration is	06058	56.5-70	13	.051	16	5,10,25,30,35
		most intense otherwise biotite is fresh.	06059	70-80	9.5	.041	9	10,20,40
		Silicification: Abundant quartz veins - all mineralized.	06245	80-90	10	.027	28	5,20,25,30,45,50

Scale

Colour Plot
A Dips

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Drill Hole Record

Cominco

Property Roper Lake	District Kamloops M.D.	Hole No. DDH 8105	
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. DDH8105 | Sheet 3 of 18

Footage From	Footage To	Description	Sample No.	Length	Analysis Rec.	%Mo	M.F.	Core Angles
61.0	309.0	91.0 - Moly slip @ 20°.	06246	490-500	10	.094	44	0,20,25,30, 35,40,50
(cont'd.)		89.5 - Minor fault, core angles obscured by the faulting and fracturing.	06247	500-10	10	.086	46	5,15,20,25, 40,45,55,60
		Alteration 101.0-157.0	06248	10-20	9	.068	47	10,15,20,30, 40,55,
		Argillic Alteration: Generally weak, local intervals of a few feet are moderate.	06249	20-30	10	.073	47	10,15,20,30, 40,55
		Potassic, chloritization, silicification as 86.0-101.0.	06250	30-40	10	.041	25	0,15,25,30, 35,40,50,70
			06251	40-50	10	.027	20	25,30,35,45
		108.5-109.5 - Intense faulting with up to 5 cm of gouge @ 80°. Also a few moly slips.	06252	50-60	10	.067	21	15,20,25,30, 40
		117.0 - 2.5 x 3 cm pink phenocryst appears to post-date a mineralized quartz vein.	06253	60-70	10	.044	13	20,40
		The phenocryst is located in the path of the vein, but the vein does not cut it.	06254	70-80	10	.068	19	15,30,45,55
		117.0 - Mafic inclusion.	06255	80-90	10	.019	13	10,25,35
		121.0-121.5 - Gouge zone @ 55°.	06256	90-600	10	.025	19	20,25,30
		134.0 - Heavy MoS_2 in slip @ 15°.	06257	600-10	10	.017	20	10,20,30,40
		133.0-133.5 - Biotite-rich mafic inclusion with biotite locally altered to chlorite.	06258	10-20	10	.034	20	20,25,30,40, 45
		155.5-156.0 - Gouge zone @ 10°. Molybdenite incorporated in the gouge.	06259	20-30	10	.044	18	0,10,15,45, 60
		Alteration 157.0-183.0	06260	30-40	9.5	.029	21	15,30,40
		Argillic: Moderate	06261	40-50	9.5	.039	25	15,20,25,55, 30,40
		Potassic: Moderate, kspar forms selvages relative to veins.	06262	50-60	10	.017	22	20,30,35,60
		Chloritic: Biotite generally altered to chlorite.	06263	60-70	10	.038	26	5,15,25,35, 50
		Silicification: Abundant quartz veins.	06264	70-80	9.5	.038	20	10,20,25,30, 40,45,60
		164.0 - 2 cm of gouge @ 50°.	06265	80-90	10	.006	11	30,35,50,55
		164.5-165.5 - Mafic inclusion.	06266	90-700	10	.013	24	10,20,25,30, 40
		168.0-169.0 - Heavy MoS_2 in quartz veins.	06267	700-10	10	.091	20	no data

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property Roper Lake	District Kamloops M.D.	Hole No. DDH 8105	
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

4028

Footage From	Footage To	Description	Sample No.	Length	Analysis Rec.	%Mo	M.F.	Core	Ang
61.0	309.0	168.0 - Moly slip @ 40°	06268	710-20	10	.007	9	30,35,4	
(cont'd.)		Alteration 183.0-193.0	06269	20-30	10	.002	22	20,25,6	
		Argillic: Generally weak, locally over a few feet, moderate.	06270	30-40	10	.035	12	20,25,3 45	
		Potassic: Moderate, kspar forms abundant selvages relative to veins and fractures.	06271	40-50	10	.044	23	0,20,30 55	
		Kspar megaphenocrysts common.	06272	50-60	10	.019	27	5,15,20 30,35,4	
		Chloritic: Biotite generally altered to chlorite where the argillic alteration is most	06273	60-70	10	.043	14	20,25,3 45	
		intense, otherwise the biotite is fresh to weakly chloritized.	06274	70-80	10	.035	3	30,50	
		Silicification: Abundant quartz veins.	06469	80-90	9.5	.035	10	30,35,4	
		181.5 - Heavy pyrite and hematite in quartz veins.	06470	90-800	10	.010	12	30,40	
		182.5 - Moly slip @ 20°.	06471	800-10	10	.024	15	20,30,3 40,55	
		183.0 - Moly slip @ 45°.	06472	10-20	10	.036	12	20,25,3	
		186.0 - 2 x 3 cm kspar megaphenocryst cut by mineralized quartz vein.	06473	20-30	10	.030	23	15,20,3 60	
		190.0 - Emerald green sericite.	06474	30-40	10	.062	19	0,20,30 45,50	
		Alteration 193.0-309.0	06475	40-50	10	.061	21	5,25,30 50,60	
		Argillic: Generally weak; plagioclase generally very light green and hard to knife,	06476	50-60	10	.052	18	5,20,25 35,50	
		except 211.0-213.0, 220.5 - 223.5, 228.5 - 236.0, 261.0 - 262.0 where the	06477	60-70	10	.015	18	20,25,3	
		plagioclase is moderately to intensely altered.	06478	70-80	9.5	.038	21	15,25,3 35,40	
		Potassic: Moderate with abundant kspar selvages and kspar phenocrysts.	06479	80-90	10	.033	12	10,30,3 65	
		Chloritic: Biotite generally fresh in sections of weak argillic alteration. In more	06480	90-900	10	.035	23	20,25,3 85	
		intensely altered sections, the biotite is altered to chlorite.	06481	900-10	10	.086	20	10,15,2 40	
		Silicification: Moderate.	06482	10-20	10	.019	21	35,40,5 55,85	
		200.0,210.0 - Molybdenite bearing quartz vein cuts megaphenocryst of kspar.	06483	20-30	10	.015	15	25,30,5	

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Drill Hole Record

Cominco

Property	Roper Lake	District	Kamloops M.D.	Hole No.	DDH8105
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

5918

Footage From	Footage To	Description	Sample No.	Length	Analysis Rec.	%Mo	M.F.	Core Ang
61.0	309.0	221.0 - Moly gouge in fault @ 50°.	06484	930-40	10	.025	33	20,30,40 60,70
(cont'd.)		210.0,227.0 - Mafic inclusions.	06485	40-50	9.5	.043	39	35,40,50 70,75,8
		212.5 - Minor fault @ 30°.	06486	50-60	10	.049	24	40,45,5
		254.0 - 9 cm mafic inclusion cut by moly bearing quartz vein.	06487	60-70	10	.023	19	15,40,4
		265.5-269.0 - Andesite dyke. Contacts chilled @ 40° and 50°. Upper and lower, respectively.	06488	70-80	10	.015	15	25,30,5
		Traces of pyrite in fractures. The dyke cuts moly bearing fracture.	06489	80-90	10	.019	17	20,35,4
		277.5-291.5 - Andesite dyke as 265.5 - 269.0. Upper contacts chilled with moly gouge along	06490	90-1000	19	.047	24	5,25,40 60
		it at 45°. Lower contact chilled and bleached @ 80°. Some mylonite at the	06491	1000-10	10	.064	20	20,30,4
		lower contact.	06492	1010-20	10	.040	16	20,25,3
		284.0 - Minor fault @ 45°. No moly in the gouge.	06493	1020-30	10	.051	14	20,25,4
		294.5-295.0 - Andesite dyke as above. Upper and lower contacts chilled @ 20° and 50°,	06494	1030-40	10	.021	25	5,20,25 40,50
		respectively.	06495	1040-50	10	.026	12	25,30,4
		298.0 - Andesite dykelet 5 cm wide @ 60°. Chilled contacts	06496	1050-60	10	.062	17	10,20,2
		302.0 - Andesite dykelet 4 cm wide contact @ 60°.	06497	1060-70	10	.056	33	10,20,3 35,40,7
		305.0-308.0 - Andesite dyke as at 302.0. Upper and lower contacts chilled @ 50° and 55°,	06498	1070-80	10	.045	17	30,35,4 50,55
		respectively.	06499	1080-90	9.5	.072	20	15,20,4 55,70
309.0	333.0	Roper Lake granite variety "A". Fine to medium grained porphyritic intrusive with kspar pheno-	065 00	1090-1100	10	.022	16	20,40,5
		crysts 0.7 cm (maximum), biotite as the sole mafic. Generally anhedral-quartz. Numerous	06501	1100-10	10	.023	24	40,45,5
		chloritized mafic inclusions about 1 cm in diameter. Mafic tends to be foliated. The same	06502	1110-20	10	.030	14	20,25,4 50,70
		lithology, but more intensely altered, was intersected throughout DDH 8102. Sharp upper	06503	1120-30	9	.025	13	30,40,4 60,80
		contact @ 70°. The grain size is noticeably finer in the border of variety A. The lower	06504	1130-37	7	.020	8	40,45,5
		contact is also sharp, but irregular.						

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	Roper Lake	District	Kamloops M.D.	Hole No.	DDH8105
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
309.0	333.0	Alteration			
(cont'd.)		Argillic: Generally very weak alteration of plagioclase - plagioclase remains white to very light green and hard to the knife, except 330.0-332.0 where plagioclase is moderately altered.			
		Potassic: Kspar as vein selvages moderate.			
		Silicification: In the form of quartz veins - veins are less numerous than normal. No recrystallization of quartz to produce quartz eyes.			
		Mineralization: MoS_2 in quartz veins. Minor MoS_2 in disseminated form (i.e. MoS_2 showing no apparent relationship to fractures).			
333.0	414.5	Roper Lake megaphenocryst porphyry. Coarser than 309.0-333.0 with abundant megaphenocrysts >1 cm (typically 1-3 cm).			
		Alteration			
		Generally weak, except where noted. (Plagioclase generally hard to the knife, generally white.			
		Occasionally very light green. Intense argillic (plagioclase soft to finger nail) 346.5-348.0,			
		358.5-362.0,380.0-384.0.			
		Chloritization: Biotite generally fresh.			
		Potassic: The dominant alteration - vein selvages and kspar phenocrysts.			
		Silicification: As quartz veins and a few quartz eyes.			
		347.0 - Fault @ 30^{o}. Heavy MoS_2 in sheared quartz vein.			
		363.0 - Mafic inclusion 3 cm wide cutting quartz vein.			
		380.0-384.0 - Several moly slips - gouge zones containing MoS_2. Quartz eyes well developed.			

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Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property Roper Lake	District Kamloops M.D.	Hole No. DDH8105	
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 7 of 18 | Hole No. DDH8105

Footage From	To	Description	Sample No.	Length	Analysis
333.0	414.5	397.0-406.0 - Several mafic inclusions e.g. 398.0, 404.0. Some indication of assimilation			
(cont'd.)		of mafic material by the relatively mafic ground mass.			
		406.0 - 3 cm wide dykelet of aplitic material filling fracture with irregular contacts.			
		Traces of disseminated MoS_2, also MoS_2 in quartz vein which cuts the aplite.			
		408.0 - Heavy MoS_2 in gouge @ 40^o			
		410.5 - Traces of chalcopyrite with pyrite in chloritic fracture.			
		411.0 - Mafic inclusion.			
414.5	457.0	Andesitic or dioritic dyke fine to medium grained. Upper contact is a fault @ 35^o. Quartz vein			
		has been deformed by the faulting at the contact. No MoS_2 seen in the dyke. No chilling evident -			
		possibly contact features have been destroyed by the faulting. Traces of pyrite in the dyke.			
		Dominant alteration of the dyke is chlorite after biotite - lower contact is sharp, but again			
		is obscured, this time by alteration. Heavy calcite throughout the ground mass of the andesite.			
		(This dyke is strikingly similar to one from 78.0 - 109.0 in DDH8106 located to the west of			
		DDH8105).			
		443.0 - Fault @ 40^o. Gouge			
457.0	486.5	Roper Lake kspar megaphenocrysts porphyry as above.			
		Alteration			
		Argillic: Moderate (plagioclase is greenish and fairly soft to knife.			
		Biotite: Variably fresh to chloritic.			
		Potassic: Kspar as vein selvages and phenocrysts.			
		Silicification: Quartz veins common.			
		471.0 - Mafic inclusion.			

Drill Hole Record

Cominco

Scale

Colour Plot & Dips

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Property Roper Lake	District Kamloops M.D.	Hole No. DDH8105	
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 848 | Hole No. | Sheet

Footage From	Footage To	Description	Sample No.	Length	Analysis
457.0	486.5	475.0 - Moly bearing vein cuts kspar phenocryst.			
(cont'd.)		479.0-480.0 - Fault indicated by gouge @ 40°. Also section of strong argillic alteration (soft to finger nails). Moly and pyrite present in gouge.			
		483.0 - Fault. Gouge @ 35°.			
486.5	507.5	Roper Lake Variety "A". Fine to medium grained porphyritic granite without the size of megaphenocrysts of kspar characteristic of the other principal Roper Lake lithology. Upper contact sharp @ 65°. Weak indication of chilled margin in Variety "A". Lower contact obscured by broken core.			
		Alteration			
		Argillic: Moderate - plagioclase is greenish and fairly soft to the knife.			
		Potassic: Kspar selvages along veins and fractures well developed.			
		Chloritic: Considerable amounts of fresh biotite - the biotite is fresher than would be characteristic in an interval of this degree of argillic alteration.			
		Silicification: Abundant quartz veins.			
		495.0 - Faulting @ 70°. 20 cm of broken core and gouge in total. The faulting is post-molybdenum.			
		500.5 - Very heavy MoS_2 in fracture cutting quartz vein. This mineralization is both fracture controlled and open space filling in vuggy quartz.			
507.5	630.0	Roper Lake megaphenocryst porphyry. Characterized by large kspar phenocrysts commonly 2 cm x 4 cm. A few dykes of Variety "A" included in the interval e.g. 517.0 - 519.5 (Upper contact @ 15°, moderate argillic alteration of the dyke, kspar selvages, mafic generally altered to chlorite. 559.5 - 563.5, (sharp upper contact @ 20°, chilled. Moderate			

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property Roper Lake	District Kamloops M.D.	Hole No. DDH8105	
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 9 of 10 | Hole No. DDH8105

Footage From	Footage To	Description	Sample No.	Length	Analysis
507.5	630.0	to weak argillic alteration, fresh biotite, kspar selvages, also pink kspar phenocrysts about			
(cont'd.)		0.5 cm, less well mineralized than section 517.0 - 519.5), 599.0 - 600.5 (upper contact @ 50°,			
		lower contact @ 20°. Contacts faint due to alteration, weak argillic alteration, mafic gener-			
		ally fresh, weak potassic). 620.5 - 621.0 (Variety "A" as 599.0 - 600.5).			
		Alteration of Roper Lake megaphenocryst porphyry 507.5 - 535.5			
		Argillic: Generally moderate to intense, plagioclase green in colour and fairly soft to			
		knife. Some of the plagioclase is emerald green in colour.			
		Potassic: Intense with lots of kspar along fractures.			
		Chloritic: Mafic generally altered to chlorite. A few short intervals of fresh biotite			
		where the argillic alteration is less intense than normal for this interval.			
		Silicification: Abundant quartz veins and some quartz eyes.			
		535.0 - Mafic inclusion.			
		Alteration of Roper Lake megaphenocryst porphyry 535.5 - 630.0			
		Argillic: Weak alteration of plagioclase (plagioclase hard to the knife and light			
		green).			
		Potassic: Lots of pink kspar megaphenocrysts and vein selvages.			
		Chloritic: Biotite generally fresh to weakly chloritized.			
		Silicification: Abundant quartz veins. Quartz eyes well developed.			
		564.5-566.5 - Fault @ 15°. Heavy gouge. This fault cuts mineralized quartz vein.			
		577.0,602.0,			
		605.0, 606.5 - Mafic inclusions.			
		622.0 - Faulting @ 20°. Gouge			

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property	Roper Lake	District	Kamloops M.D.	Hole No.	DDH8105
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. DDH8105 | Sheet 10 of 18

Footage From	Footage To	Description	Sample No.	Length	Analysis
630.0	1137.0	Roper Lake megaphenocryst porphyry. This section contains erratic ± 1.5 cm megaphenocrysts of kspar set in a medium grained ground mass of quartz, plagioclase and orthoclase. The grain size and the overall texture resembles Variety "A", but in view of the megaphenocrysts, this unit is classified as megaphenocryst porphyry. A few andesitic dykes cut this lithology.			
		Alteration 630.0-672.0			
		Argillic: Generally moderate with plagioclase.			
		Potassic: Strongly developed as vein selvages.			
		Chloritization: Biotite generally fresh.			
		Silicification: Quartz veins common. Few quartz eyes. Such quartz eyes are typically more strongly developed in sections of more intense argillic alteration.			
		666.0-667.5 - Post mineral andesite dyke cuts quartz vein containing MoS_2. Contacts chilled at 70^0 and 65^0 for the upper and lower contacts, respectively.			
		Alteration 672.0-688.0			
		The alteration in this section is more pervasive than 630.0-672.0 i.e. less fracture related.			
		Argillic: Intense. Soft to the knife and occassionally soft to the finger nail.			
		Potassic: Weak potassic. Few kspar selvages. Kspar phenocrysts common.			
		Chloritization: Biotite generally altered to chlorite.			
		Silicification: Quartz veins common and quartz "eyes" well developed.			
		679.5-680.5 - Post mineral andesitic dyke. Chilled contacts: upper @ 35^0, lower @ 10^0. Vuggy quartz vein without sulphides cuts the dyke. The dyke cuts molybdenite bearing quartz vein.			
		684.0-687.5 - Andesitic dyke. Contacts appear to be chilled @ 50^0. No cross cutting of mineralized structures.			

Scale

Colour Plot & Dips

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Drill Hole Record

Cominco

Property Roper Lake	District Kamloops M.D.	Hole No. DDH8105	
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
630.0	1137.0	688.0 - Minor faulting @ 10°.			
(cont'd.)		Alteration 688.0-807.0			
		Argillic: Generally moderate with plagioclase green and fairly soft to the knife.			
		Potassic: Strongly developed as vein selvages.			
		Chloritization: Biotite generally fresh.			
		Silicification: Abundant quartz veins. Few quartz "eyes".			
		709.5-714.0 - Post molybdenite andesite dyke with chilled contacts @ 50°. The dyke cuts a moly bearing vein.			
		719.5-728.0,			
		754.5-757.0,			
		795.0-798.0 - For these intervals the argillic alteration is intense. The plagioclase becomes clayey in appearance and easily scratched with the knife. Quartz eye development is enhanced in these sections.			
		714.5 - Minor displacement of mineralized quartz vein @ 25°.			
		724.0-725.0 - Quartz feldspar porphyry dyke @ 50°.			
		739.0 - Moly slip @ 40°.			
		743.0 - Moly bearing vein cuts other molybearing veins.			
		753.0-753.5 - Very heavy potassic alteration as abundant kspar selvages.			
		755.0 - Fault @ 30°. Gouge.			
		764.0-780.0 - Biotite rich inclusion occassionally cut by quartz-molybdenite veins. e.g. 779.5.			
		784.5 - Minor gouge zone @ 30°.			

Scale

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Drill Hole Record

Cominco

Property Roper Lake	District Kamloops M.D.	Hole No. DDH8105	
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. DDH8105 | Sheet 12 of 19

Footage From	Footage To	Description	Sample No.	Length	Analysis
630.0	1137.0	796.0 - Moly slip @ 30°.			
(cont'd.)		797.0 - Quartz-moly vein cuts kspar megaphenocryst.			
		798.5-799.0 - Aplitic dykelet containing minor molybdenite @ 20°.			
		801.0 - Shearing @ 40°.			
		802.0-809.5 - Biotite rich inclusion cut by quartz moly veins.			
		Alteration 807.0-848.0			
		Argillic: Intense. Plagioclase greenish and soft to knife.			
		Potassic: Moderate.			
		Chloritization: Biotite generally altered to chlorite.			
		Silicification: Abundant quartz veins.			
		807.0 - Faulting @ 30°.			
		810.0 - Fault @ 45°.			
		812.5 - 4 cm wide gouge zone @ 30°.			
		822.0 - Mineralized quartz vein cut by an unmineralized quartz vein.			
		829.0 - Megaphenocrysts (pink outer zones and white in the centre) cut by quartz vein.			
		845.0-846.0 - Heavy MoS_2 in gouge @ 5°.			
		Alteration 848.0-873.0			
		Argillic: Generally moderate, weak 855.0-862.0.			
		Potassic: Generally weak. Kspar occurs as vein selvages, and as pink phenocrysts.			
		Intense potassic 855.0-862.0.			
		Chloritic: Variably fresh to chloritic. Biotite fresh where argillic alteration is weak.			
		Silicification: Abundant quartz veins.			

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property Roper Lake	District Kamloops M.D.	Hole No. DDH8105	
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. DDH8105 | Sheet 13 of 18

Footage From	Footage To	Description	Sample No.	Length	Analysis
630.0	1137.0	863.0 - 10 cm mafic inclusion cut by quartz-moly vein.			
(cont'd.)		869.0 - Unmineralized quartz vein cuts mineralized quartz vein.			
		Alteration 873.0-898.5			
		Argillic: Moderate to intense.			
		Potassic: Weak to moderate as vein selvages and pink megaphenocrysts.			
		Chloritization: Biotite generally altered to chlorite, locally fresh.			
		Silicification: Abundant quartz eyes where the argillic alteration is most intense. Abundant quartz veins.			
		877.0-878.0 - Moly slip @ 40°.			
		890.5-891.5 - Andesite dyke @ 60° cuts mineralized quartz vein. Chilled contact.			
		892.5 - 2 cm wide andesitic dykelet @ 40°. Chilled contacts			
		894.5 - Heavy molybdenite in quartz vein @ 30°.			
		Alteration 898.5-906.0			
		Argillic: Weak. Plagioclase is light green and hard to the knife.			
		Potassic: Generally weak as selvages and pink megaphenocrysts.			
		Chloritization: Biotite variably fresh to chloritic.			
		Silicification: Moderate with fairly abundant quartz veins; quartz eyes not well developed.			
		Alteration 906.0-924.0			
		Argillic: Moderate to intense.			
		Potassic: Weak to moderate as vein selvages and pink megaphenocrysts.			
		Chloritization: Biotite altered to chlorite.			
		Silicification: Abundant quartz veins and quartz eyes.			

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	Roper Lake	District	Kamloops M.D.	Hole No.	DDH8105
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
630.0	1137.0	915.5 - Moly slip @ 35°.			
(cont'd.)		920.0 - Minor fault @ 50°.			
		924.0-947.0 - Quartz feldspar porphyry dyke. Intensely brecciated along fractures or faults. Angular breccia clasts 3 cm x 3 cm. The upper contact of the dyke @ 20° (approx.), lower @ 70°. The contacts are somewhat obscured by the alteration. The dominant alteration is silicification in the form of massive flooding by SiO_2. Disseminated pyrite in fractures. Also disseminated MoS_2 and MoS_2 in fractures. No potassic alteration. Biotite is absent. The dyke contains some inclusions of Roper Lake granite.			
		Alteration 947.0-958.0			
		Argillic: Moderate to intense.			
		Potassic: Weak to moderate as vein selvages and pink megaphenocrysts.			
		Chloritization: Biotite altered to chlorite.			
		Silicification: Abundant quartz veins and quartz eyes.			
		946.0,950.5 - Two moly slips @ 40° and 50°.			
		947.0-948.0 - Brecciated section.			
		953.0 - Minor mineralized gouge @ 50°.			
		Alteration 958.0-977.5			
		Argillic: Moderate.			
		Potassic: Generally weak.			
		Chloritization: Biotite generally altered to chlorite.			
		Silicification: Fairly abundant quartz veins. Quartz eyes common.			

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property Roper Lake	District Kamloops M.D.	Hole No. DDH8105	
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
630.0	1137.0	968.0 - Moly slips @ 60°.			
(cont'd.)		970.0,917.5 - Mineralized vein displaced.			
		976.5 - Minor fault @ 60°.			
		977.0 - Unmineralized quartz vein cut by mineralized quartz vein.			
		Alteration 977.5-996.5			
		Argillic: Moderate to intense. Plagioclase varies from light green and fairly hard to darker green and very soft to the knife.			
		Potassic: Weak to moderate as selvages. Few pink kspars.			
		Chloritization: Biotite generally altered to chlorite.			
		Silicification: Abundant quartz veins.			
		987.0 - Heavy MoS_2 in gouge zone.			
		992.5-993.0 - Heavy molybdenite in brecciated section. Similar to 517.5 to 519.5 in DDH8101.			
		993.0 - Moly slip @ 25°.			
		996.0 - Gouge zone @ 70°.			
		Alteration 996.5-1022.5			
		Argillic: Weak; plagioclase very light green.			
		Potassic: Generally weak.			
		Chloritization: Biotite generally altered to chlorite.			
		Silicification: Fairly abundant quartz veins.			
		1003.0-1003.5 - Gouge zone @ 60°; also emerald green sericite.			
		1008.0 - Moly slip @ 30°.			
		1009.0 - Minor gouge zone @ 60°.			

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property Roper Lake	District Kamloops M.D.	Hole No. DDH8105	
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. DDH8105 | Sheet 16 of 19

Footage From	Footage To	Description	Sample No.	Length	Analysis
630.0	1137.0	1010.5 - Minor gouge zone @ 35°.			
(cont'd.)		1018.0 - Minor gouge zone @ 85°.			
		Alteration 1022.0-1037.0			
		Argillic: Moderate to intense.			
		Potassic: Weak to moderate selvage development.			
		Chloritization: Biotite generally altered to chlorite.			
		Silicification: Abundant quartz veins.			
		1029.0 - Minor fault zone @ 85°.			
		1032.0-1035.0 - Emerald green sericite. Also faulting @ 25°, 40°.			
		1034.0 - Minor chalcopyrite in fracture.			
		1037.0 - Moly slip @ 40°.			
		Alteration 1037.0-1137.0			
		Argillic: Generally moderate, 1055.0-1058.0 intense.			
		Potassic: Generally weak. Moderate 1077.0-1078.0.			
		Chloritization: Biotite generally altered to chlorite. 1047.0-1048.0 fresh.			
		Silicification: Abundant quartz veins.			
		1054.0,1057.0 - Minor fault zones @ 40°.			
		1058.5 - Minor gouge @ 50°.			
		1061.0 - Minor fault @ 50°.			
		1061.0 - Barren quartz vein cuts mineralized vein.			
		1063.5 - 8 cm wide felsite dyke.			
		1072.0 - Mionr fault @ 55°, 2 x 4 cm mafic inclusion.			

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property	Roper Lake	District	Kamloops M.D.	Hole No.	DDH8105		
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
630.0	1137.0	1073.5 - Minor fault zone @ 60°.			
(cont'd.)		1078.0 - Shearing @ 55°.			
		1083.5-1084.0 - Faulting @ 50°.			
		1085.0 - Moly slips @ 20°, 55°.			
		1085.5-1091.0 - Minor faults @ 20°, 30°, 40°.			
		1087.5 - Shearing @ 40°, 70°.			
		1088.5-1089.0 - Fault @ 40°.			
		1096.0-1096.5 - Fault @ 20° including 1-3 cm fragments of quartz containing molybdenite.			
		1097.0-1098.0 - Olive green, fine grained dyke. Mafic mineral altered to chlorite.			
		1098.0-1098.5 - 8 cm of gouge @ 30°.			
		1100.0-1102.0 - Intense shearing @ 50°-60°.			
		1107.0,1108.5 - Minor gouge @ 40°, 65°.			
		1109.0 - Heavy molybdenite in gouge @ 50°			
		1110.5 - 1.5 cm thick calcite vein.			
		1112.0-1115.0 - Dyke as at 1097.0-1098.0. Upper and lower contacts obscured by faulting @ 50°.			
		1115.0-1117.0 - Minor faulting @ 70° - 80°.			
		1120.0-1126.0 - Dyke as at 1097.0-1098.0. Upper and lower ccntacts faulted. The lower contact contains 15 cm of gouge @ 20°. Heavy molybdenite in the gouge. Upper contact @ 50° approx.			
		1130.5 - Minor gouge @ 40°.			
		1132.0 - Shearing @ 40°.			

Scale

Colour Plot & Dips

0

Drill Hole Record

Cominco

Property Roper Lake	District Kamloops M.D.	Hole No. DDH8105	
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. DDH8105 | Sheet 18 of 18

Footage From	Footage To	Description			Sample No.	Length	Analysis
630.0	1137.0	1134.0	-	Faulting. Minor gouge @ 20^{0}, 50^{0}.			
(cont'd.)		1136.0	-	Shearing @ 40^{0}.			
		1137.0	-	END OF HOLE			

To Assessment Report by R.W. Stuart

Cominco

92I/10

ROPER LAKE PROPERTY
1979 PERCUSSION DRILLING
DDH 8105

Drawn by:	Traced by:	
Revised by: Date: RWS June 12/81	Revised by:	Date:

Scale: BAR | Date: DEC 1979 | Plate:

#210-0640

120° 39' 30"

To Dominic Lake Rd

79-14
79-13
79-17
79-16
79-12
79-11
79-10
79-9
79-15
79-21
79-26
79-28
79-27
79-30
79-29
79-23
79-3
79-1
79-6
79-20
79-19
79-18
79-4
79-5
79-2
79-22
79-31
79-24
79-25
8105
79-7
79-8

DOMINIC LAKE

ROPER LAKE

50° 34' 45"

HAPPY DAYS
HAPPY DAYS #3

HAPPY DAYS #4

To Peeka Lake Rd

120° 39' 30"

Legend

Road; definite, approx.

Stream

Diamond drill hole

Percussion hole

Legal corner post

0 100 200 300 400 500 M
1:10,000

NCI-114-CL