

86-860-15430

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

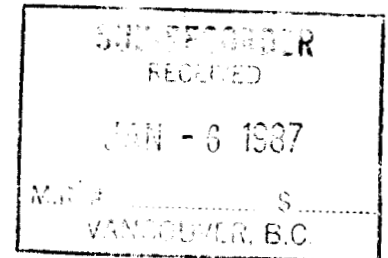
DIAMOND DRILLING REPORT

MAT 71 GROUP

Fort Steele Mining Division

Matthew Creek Area

N.T.S. 82F/9E



LATITUDE: 49° 43.6' N

LONGITUDE: 116° 06.8' W

OWNER: OPERATOR

Cominco Ltd.

Box 2000  
Kimberley, B.C.  
V1A 2G3

PART ① OF ②

FILMED

Work performed during June and July 1986

Report by **GEOLOGICAL BRANCH**  
P.W. Ranson **ASSESSMENT REPORT**  
Project Geologist

15,430

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COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

DIAMOND DRILLING REPORT

MAT 71 GROUP

Fort Steele Mining Division

1.00 INTRODUCTION

1.10 Specific Location

DDH 6459, the hole being reported on, was drilled on the west side of the northeast fork of Matthew Creek. Access to the drill site is by logging roads.

1.20 Property Description

The property being investigated forms part of the Sullivan Mine claim group, owned by Cominco Ltd. Cominco has operated the mine for about 75 years. The Sullivan stratiform Ag-Pb-Zn-Fe sulphide deposit is one of the most important of its type worldwide and has contributed significantly to the mineral wealth generated in the province of British Columbia.

1.30 Drilling

One hole is being reported on. It was collared at -90° dip and was drilled to a depth of 650 meters using H and N wireline tools.

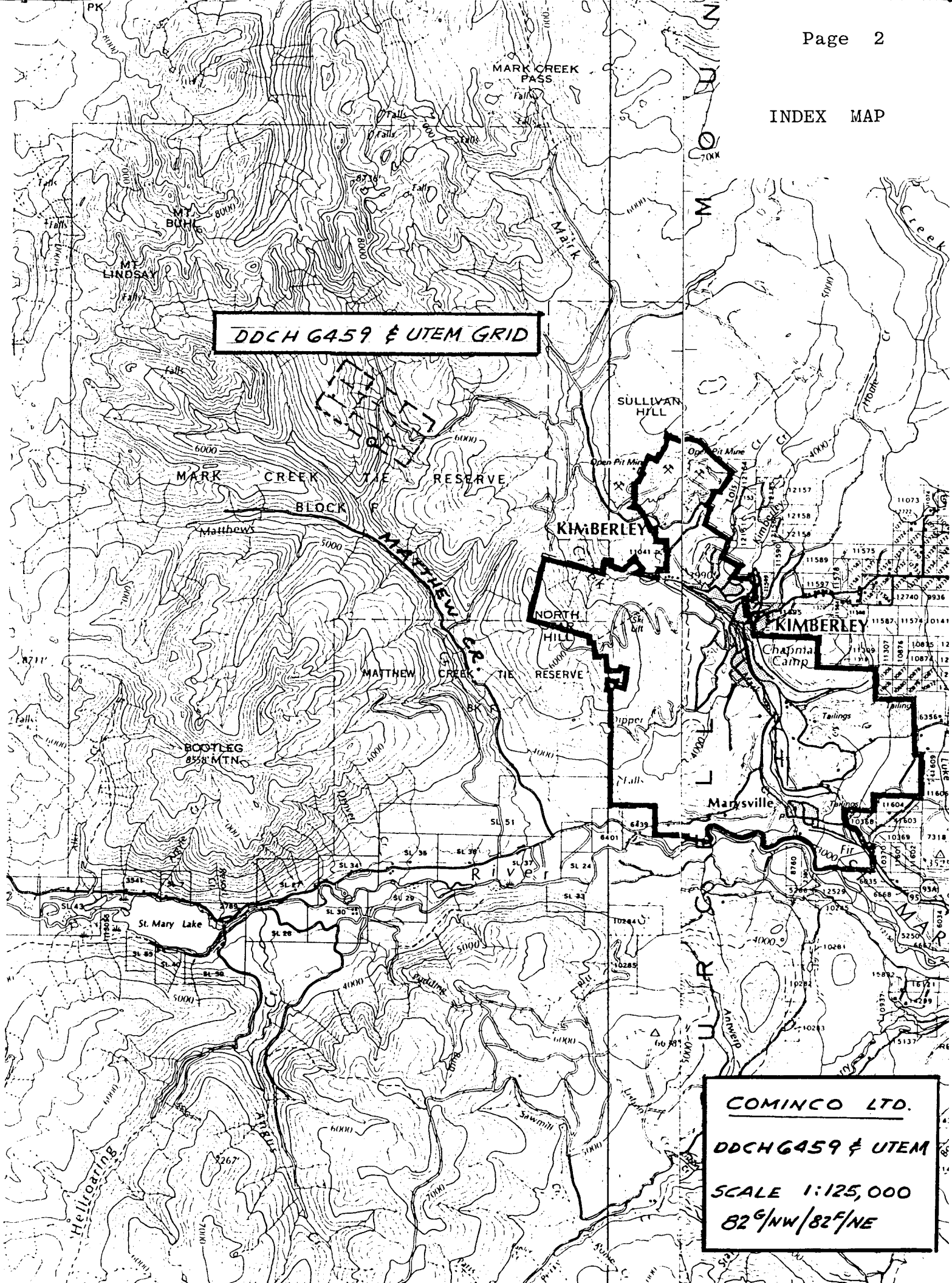
1.40 Claims Explored

DDH 6458 was drilled on the Mat 71 Mineral Claim.

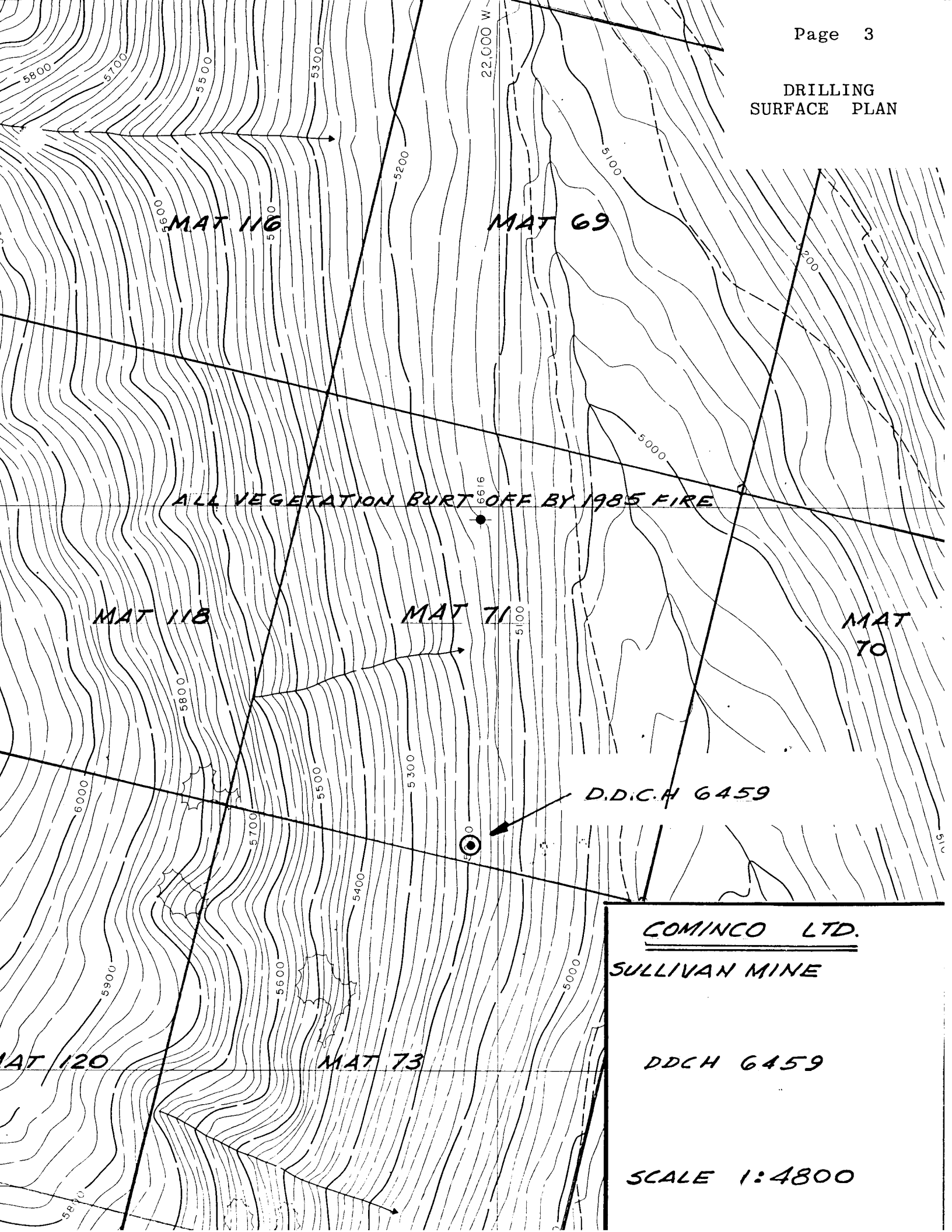
INDEX MAP

DDCH 6459 & UTEM GRID

COMINCO LTD.  
DDCH 6459 & UTEM  
SCALE 1:125,000  
82°/NW/82°/NE



DRILLING  
SURFACE PLAN



COMINCO LTD.

SULLIVAN MINE

DDCH 6459

SCALE 1:4800

## 2.00 DETAILED TECHNICAL DATA AND INTERPRETATION

### 2.10 Drilling

#### 2.11 Objective

The objective of drilling DDH 6459 was to locate stratiform Ag-Pb-Zn-Fe sulphide ore.

#### 2.12 Results

DDH 6459 intersected siliciclastic sedimentary rocks typical of the area. Pyrrhotite was noted locally, disseminated as an accessory mineral. Argillite with sparse weakly laminated and disseminated pyrrhotite was noted from 600 to 607 metres.

#### 2.13 Interpretation

0.0 - 12.5 m	Overburden
12.5 - 650.0 m	Siliciclastic sedimentary rocks, Aldridge Formation.

#### 2.14 Conclusion

DDH 6459 intersected siliciclastic sediments of turbidite and related origin, typical of the Middle Proterozoic Aldridge Formation.

Report by: P. Ransom

P.W. Ransom  
Project Geologist  
Cominco Ltd.

Endorsed by: John Hamilton

J.M. Hamilton  
Manager, Exploration  
Western Canada  
Cominco Ltd.

Copies: Mining Recorder (2) ✓  
Western District  
Sullivan Mine  
Kootenay Exploration

APPENDIX A





## Drill Hole Record



Property	MAT 71 (Sullivan)	District	Western	Hole No.	6459
Commenced	Location		Tests at		Hor. Comp.
Completed	Core Size		Corr. Dip		Vert. Comp.
Co-ordinates	True Brg.			Logged by	
Objective	% Recov.			Date	
Footage	(meters)	Description			
From	To				
to 295 (89.9)		Argillite and subwacke (50%), medium grey, thin bedded to laminated, contacts sharp and generally flat (some wavy); 292 to 295 has several thin cross-laminated beds; quartz arenite (40%), wacke (10%), medium grey, fine grained, two beds medium grained; AB and B turbidites; bedding contacts sharp, generally flat (some wavy). Bedding to core 70° to 261', 71° to 269', 75° to 284', 67° to 287'.			
to 331 (100.9)		Quartz arenite, minor wacke and argillite; medium grey; thick bedded; fine (one bed medium) grained; bedding contacts sharp, generally flat; most beds massive, rare rip-ups and faint laminae and one cross lamina. Bedding to core 75° to 302', 65° to 308'.			
to 343 (104.6)		Wacke and sub wacke, minor argillite and quartzitic wacke; medium grey; bedding contacts sharp and flat; thin to very thin bedded, few medium and thick beds; bedding to core 71° to 336'.			
to 362 (110.4)		Quartz arenite (85%), medium (some light, dark) grey; thick bedded; fine grained; bedding contacts sharp and flat; beds massive. Argillite and wacke; medium grey; thin bedded to laminated and graded tops of some thick beds; bed contacts sharp and flat, laminations even and parallel, one set of cross laminations; bedding to core 60° to 345', 84° to 348', 60° to 350', 80° to 353'.			
to 393 (119.8)		Quartz arenite and quartzitic wacke (40%), wacke (40%), subwacke/argillite (20%); medium grey; thick bedded; bed contacts sharp and flat; beds massive with graded tops; one ABDE and one BD turbidite; four beds have calcareous zones; bedding to core 75° to 368', 75° to 378', 70° to 390'.			
to 414 (126.2)		Quartz arenite; medium to light grey; fine grained thick bedded with some softer (poorly sorted) bases and graded tops; bed contacts generally sharp and flat (one wavy, one with ball and pillow base); bedding to core 65° to 398', 74° to 407', 70° to 414'.			

Claim	T Brg.	Collar Dip	Elev.	Length
Analysis				

## Drill Hole Record



Property	MAT 71 (Sullivan)	District	Western	Hole No.	6459
Commenced	Location		Tests at		Hor. Comp.
Completed	Core Size		Corr. Dip		Vert. Comp.
Co-ordinates	True Brg.			Logged by	
Objective	% Recov.			Date	
Footage		Description			
From	To				
to 452.5 (138.0)		Wacke, subwacke and argillite (75%); medium grey; thin bedded to laminated; bed contacts sharp and flat, and laminations even parallel. Quartz arenite and quartzitic wacke (25%); medium to light medium grey; thick and medium bedded; bedding contacts sharp and flat (2 wavy); bedding to core 70° to 420', 70° to 448'.			
to 475 (144.8)		Quartz arenite, medium to light medium grey; fine grained; thick bedded; some graded tops; bed contacts sharp and flat where observed. Core condition deteriorates to badly broken over the interval.			
to 502 (153.0)		Fault zone. Fault rock cohesive 475 - 485 and 493 - 502; schistose 475 - 485, 492.6 - 494 and 500 - 501.6; badly broken QW/QA 485 - 493; crush zone 494 - 500. Schist is greenish grey, very soft (like argillite), minor calcium carbonate parallel to schistosity; gouge noted; schistosity variable from 0° to 60° to core.			
to 580 (176.8)		Wacke, subwacke and argillite (70%); medium grey; medium, thick (& one very thick) bedded; bed contacts sharp and flat; quartzitic wacke and quartz arenite (30%); medium to light medium grey; fine (few medium) grained; bed contacts sharp and flat (one wavy, one with flases); beds massive, few with rip-ups; bedding to core 75° to 503', 75° to 504', 70° to 509', 74° to 516', 77° to 525', 74° to 533', 70° to 543', 67° to 544', 74° to 554', 72° to 562', 80° to 574', 75° to 578'. Proportion of quartzitic rocks increases downward, in this interval although lowest 3 feet is mostly argillite. There are several narrow intervals of even parallel laminated wacke.			
to 597.5 (182.2)		Quartz arenite, minor quartzitic wacke, wacke and argillite; light medium to medium grey; fine grained; thick and medium bedded; beds generally massive, bed contacts generally sharp and flat (some wavy or irregular); some thin and very thin beds; bedding to core 75° to 597'.			
to 610 (186.0)		Wacke (50%); argillite (30%); quartz wacke and arenite (20%); medium to medium dark grey; most beds medium, one very thick (5') wacke with QW central			

Claim	T Brg.	Collar Dip	Elev.	Length
Analysis				

## Drill Hole Record



Property	MAT 71 (Sullivan)	District	Western	Hole No.	6459
Commenced		Location		Tests at	
Completed		Core Size		Corr. Dip	
Co-ordinates		True Brg.		Logged by	
Objective		% Recov.		Date	

Footage	Description	Analysis
From	To	
to 610 (186.0)	portion; contacts sharp and flat to irregular; thick bed is laminated throughout (very fine, faint, closely spaced laminae); pyrrhotite flecks noted aligned along cleavage; bedding to core 73° @ 608'.	
to 642 (195.7)	Quartz arenite 80%; argillite tops and a group of very thin beds over 1.5 feet, a few medium wacke beds; light medium grey; fine grained; thick bedded; beds generally massive, grading near the tops, poor sorting (softer) bases of some; bed contacts sharp and flat; bedding to core 71° @ 621', 71° @ 626', 63° @ 630', 73° @ 638'. From 635 to 642' beds are quartzitic wacke and some wacke, with argillaceous tops; fine grained; medium bedded.	
to 652.5 (198.9)	Argillite and wacke; medium to dark grey; thin to very thin bedded; bed contacts sharp and wavy; cross laminated throughout lower two-thirds of interval, even parallel laminated in upper part; some lithic clasts in a single wacke bed; bedding to core 70° @ 642'.	
to 680.5 (207.5)	Quartz arenite; light medium grey; fine grained; massive beds; bed contacts generally sharp and flat; some beds have poorly sorted bases; intervals less than 35 cm of argillite/subwacke of very thin to laminated beds, one set of cross laminae; bedding to core 78° @ 665'.	
to 705 (214.9)	Wacke (50%), argillite-subwacke (30%), quartz arenite (20%); medium grey; fine grained; medium and thick bedded (W & QW), thin bedded to laminated (A/SW); some faint laminae in thick wacke; flecks of pyrrhotite in cleavage; bedding to core 69° @ 686', 73° @ 697'.	
to 724 (220.7)	Quartz arenite; light medium and medium grey; fine grained; thick and medium bedded; bed contacts sharp and generally flat, some wavy, flases noted; beds massive; bases of some poorly sorted; bedding to core 76° @ 714', 70° @ 721'.	
to 745 (227.1)	Wacke, subwacke and argillite (80%), quartzitic wacke and quartz arenite (20%); medium grey (some dark); a few beds fine grained; most beds thin to very thin	

21-4

## Drill Hole Record



Property	MAT 71 (Sullivan)	District	Western	Hole No.	6459
Commenced		Location		Tests at	
Completed		Core Size		Corr. Dip	
Co-ordinates		True Brg.		Logged by	
Objective		% Recov.		Date	

Footage	Description	Analysis
From	To	
to 745 (227.1)	bedded, arenaceous beds are medium bedded; bed contacts are sharp and flat (one 45 cm interval wavy); most beds massive; bedding to 79° @ 729', 76° @ 737'.	
to 802 (244.5)	Quartz arenite (40%), wacke (30%), subwacke and argillite (20%); medium grey (some medium dark & med. light); fine grained; the arenaceous rocks and some wackes are thick bedded, most of these are massive; some arenaceous rocks, wackes and subwackes are thin bedded, a few wackes, subwackes and argillites are laminated; bed contacts are sharp and usually flat, a few are wavy or irregular; bedding to core 70° @ 765', 77° @ 782', 66° @ 802'.	
to 826 (251.8)	Quartz arenite (80%), wacke and argillite (20%), mostly as bed tops, very weakly calcareous (hand lens needed to see effervescence with HCl); fine and medium grained; thick bedded; beds generally massive; bed contacts sharp and flat; bedding to core 71° @ 824'.	
to 915 (279.0)	Quartz arenite (50%), wacke (30%), subwacke and argillite (20%); medium (some dark, light) grey; the quartz arenite is fine grained or very fine grained; thick and in a few cases medium bedded generally isolated or in small groupings less than 10 feet overall; contacts are sharp and generally flat, a few have wavy or flase bases; some rip-up clasts observed; the beds are massive; some are very weakly calcareous; the other rock types are medium to thin bedded, some intervals are laminae wacke over several feet (829.5 - 832) or alternating with massive wacke (908 - 915); bed contacts are sharp & flat; bedding to core 71° @ 831', 65° @ 851', 81° @ 850', 68° @ 873', 76° @ 893', 76° @ 901', and 75° @ 908'. Pyrrhotite noted weakly disseminated in some bed tops near 885'.	
to 947.5 (288.9)	Quartz arenite; very weakly calcareous; medium grey; fine grained; thick and very thick bedded; bed contacts sharp and generally flat (one wavy, two slightly irregular); most beds massive; 50 cm argillite interval at 934' is very thin bedded with internal cross laminae; slight sericitic alteration in many of the beds; bedding to core 65° @ 942'.	

21



## Drill Hole Record



Property	MAT 71 (Sullivan)	District	Western	Hole No.	6459
Commenced	Location	Tests at	Hor. Comp.		
Completed	Core Size	Corr. Dip	Vert. Comp.		
Co-ordinates	True Brg.	Logged by			
Objective	% Recov.	Date			

Footage	Description	Analysis	Claim	T Brg.	Collar Dip	Elev.	Length
From	To						
to 1208 (368.3)	Wacke (70%), subwacke and argillite (30%); medium grey; medium bedded, some of argillite and subwacke is irregularly laminated, probably very low angle cross laminae within a bed top.						
to 1220 (372.0)	Wacke (80%) plus subwacke and argillite; light medium grey; thick bedded with some medium beds; some beds (or portions) are internally laminated; bed contacts and laminae are sharp and flat; cross laminae noted in a single QA bed at 1209'; bedding to core 77° @ 1215'.						
to 1226.5 (373.9)	Wacke, subwacke and argillite (85%), quartzitic wacke (15%); medium grey; thin bedded with some very thin beds and laminations plus two medium beds; bed contacts sharp and flat; two rip-up clasts noted; bedding to core 70° @ 1224'.						
to 1287.5 (392.5)	Quartz arenite and quartzitic wacke (60%), wacke (25%), subwacke and argillite as bed tops (15%); light medium grey; thick bedded with clusters of medium and thin beds over 1 or 2 feet, bed contacts are sharp and generally flat; beds usually massive, rare internal laminae; bedding to core 78° @ 1233', 73° @ 1252', 69° @ 1262', 65° @ 1286'.						
to 1303 (397.3)	Subwacke and argillite (85%), single thick bed of wacke 1299 - 1301; very thin and thin bedded with laminated intervals; bed contacts sharp and flat; bedding to core 75° @ 1292', 69° @ 1303'.						
tp 1314 (400.6)	Single 3.1 meter true thickness bed from quartzitic wacke to quartz arenite composition; light grey; medium grained; mild calcereous.						
to 1335.7 (407.2)	Quartz arenite with lesser quartzitic wacke and wacke, all with tops of wacke, subwacke and argillite; medium grey; thick bedded with few medium and thin beds; beds massive; bed contacts sharp and generally flat; subwacke/argillite interlaminae in tops of some beds; bedding to core 69° @ 1314'.						

21-0

## Drill Hole Record



Property	MAT 71 (Sullivan)	District	Western	Hole No.	6459
Commenced	Location	Tests at	Hor. Comp.		
Completed	Core Size	Corr. Dip	Vert. Comp.		
Co-ordinates	True Brg.	Logged by			
Objective	% Recov.	Date			

Footage	Description	Analysis	Claim	T Brg.	Collar Dip	Elev.	Length
From	To						
to 1341.5 (409.0)	Subwacke and argillite with two medium beds of quartzitic wacke; medium grey; thin and very thin bedded to laminated; contacts flat and sharp; low angle cleavage and some minor tight folds; bedding to core 80° @ 1337'.						
to 1386 (422.6)	Quartzitic wacke and quartz arenite (70%), wacke, subwacke and argillite (30%) both as graded bed tops and individual beds; medium grey; thick bedded with zones up to two feet of medium to thin beds; core is variably but not badly broken and shattered; bed contacts sharp or distinct, usually flat, some irregular; bedding to core 73° @ 1344', 56° @ 1362', 68° @ 1372', 43° @ 1383.5', 21° (vague and irregular) @ 1386'.						
to 1509 (460.0)	Core is parallel to bedding in large fold. From 1386' - 1414' is predominantly quartz arenite with some quartzitic wacke and minor wacke of a single bed; medium grey; massive; bedding to core 12° @ 1414'. From 1414 - 1441.5' single bed; argillite and subwacke to 1419', wacke to 1423', quartzitic wacke to 1427', quartz arenite to 1439.5', mixed W/QW and QA to 1441.5'; medium grey; massive; bedding to core curves through 0° @ 1418', is 18° at 1441.5'. From 1441.5 - 1458' back into same bed (overturned); light medium grey; massive; bedding to core 0° @ 1442.5, 10° in opposite sense to that at 1441.5' at 1443'. From 1458' to 1509' mostly wacke, subwacke and argillite with quartzitic wacke below 1500'; core intermittently broken, often with slickensides and minor gouges; medium to dark medium grey; some, if not all, overturned; bedding contacts sharp to vague, flat to irregular to deformed or broken; bedding to core 20° @ 1469', folded @ 1485', 60° @ 1500' (probably right way up), very irregular near 0° @ 1509'.						
to 1521 (463.7)	A couple of beds of quartzitic wacke followed by wacke, subwacke and argillite; medium grey; medium to thin bedded, some thin laminated zones; bed contacts generally sharp and flat; beds massive, graded; some have fine disseminated pyrrhotite; bedding to core 83° @ 1513'.						



# Drill Hole Record



Property	MAT 71 (Sullivan)	District	Western	Hole No.	6459
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

Footage From	To	Description	Analysis
to 1864.4 (588.4)		Quartz arenite (80%); quartzitic wacke (10%); subwacke and argillite as graded tops and with wacke in thin and very thin beds (10%); light medium grey; thick with a few medium beds; bases usually poorly sorted, bed contacts sharp to gradational and flat; bedding to core 81° @ 1854'.	
to 1880 (573.2)		Subwacke and argillite with minor wacke; medium grey; varies from apparently medium thickness and massive beds through weakly laminated medium thickness beds to thin and very thin bedded to laminated; bed contacts and laminations from distinct to vague, generally flat, some affected by low angle shearing; tight fold at 1870'; bedding to core 75° @ 1868'.	
to 1941.5 (591.9)		Quartzitic wacke and quartz arenite (60%), wacke (25%), subwacke and argillite (15%); medium grey; thick and medium bedded; short sections thin bedded; beds have massive bases and graded (some up to 50% of total thickness of bed) tops; bed contacts usually sharp or distinct, some are vague, and flat (some slightly irregular); minor faulting with minor shearing 1898-1900', folding 1900-1909'; bedding to core 73° - 85° near 1887', variable 1900-1909'; bedding to core 85° @ 1979', 70° @ 1937.5'.	
to 1949.5 (594.4)		Wacke, medium to dark medium grey; medium to thin bedded; beds or portions of beds vaguely laminated; bed contacts indistinct or vague and flat; minor fine sericite.	
to 1962.5 (598.3)		Argillite; medium grey; massive to vaguely bedded, trace of pyrrhotite flecks aligned in discontinuous fashion parallel to bedding and in fractures.	
to 1971.3 (601.0)		Wacke with minor quartzitic wacke; dark medium grey; vaguely bedded and faintly laminated in places.	
to 1977.0 (602.7)		Subwacke to wacke; dark medium grey; massive to vaguely bedded; weakly disseminated pyrrhotite, about half of which is in discontinuous laminations, at 1974' is 10 cm with 15% pyrrhotite both in fine laminae and cross-cutting veinlets.	

# Drill Hole Record



Property	MAT 71 (Sullivan)	District	Western	Hole No.	6459
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

Footage From	To	Description	Analysis
to 1986.7 (605.7)		Wacke and quartzitic wacke; dark medium grey; vaguely bedded; massive to intermittent vaguely laminated. Predominantly wacke 1983.8' to end.	
to 1993.2 (607.7)		Argillite and subwacke with minor wacke and one continuous wacke interval 1990.2 - 1992.0'; dark medium grey; vaguely very thin to medium bedded with pyrrhotite weakly disseminated in laminations and irregular elongate clusters parallel to bedding, some pyrrhotite in vague narrow cross-cutting zones and in disaggregated laminations. Bedding to core 75° @ 1992'.	
to 2017.0 (614.9)		Wacke; medium grey; thin bedded, a few medium beds; bed contacts generally sharp; beds are often graded and most are separated from adjacent beds by a dark medium grey laminae 1 to 3 cm thick. Pyrrhotite is weakly disseminated in some beds.	
to 2041.0 (622.3)		Wacke and subwacke, minor quartzitic wacke; medium grey; medium bedded, some thick and some thin beds; beds commonly graded, some have internal hardness variations; bed contacts are often indistinct or vague to distinct, most appear to be flat; pyrrhotite is irregularly but weakly disseminated; bedding to core 81° @ 2028'.	
to 2077.0 (633.2)		Quartzitic wacke and quartz arenite (60%), wacke (30%), subwacke and argillite (10%); medium grey; medium bedded with a few groupings of thin beds, some thick beds; beds often graded, many have vague internal variations in composition; bed contacts from sharp (most) to vague; faint internal lamination in some beds; coarse sericite present throughout some beds; pyrrhotite disseminated throughout wacke parts of thin beds and in some wacke or subwacke upper parts of medium beds and concentrated in basal few millimetres of many beds; bedding to core 85° @ 2057'.	
to 2097.0 (639.3)		Wacke; medium grey to dark medium grey; portions of some beds as hard as quartzitic wacke; medium bedded, a few thin beds; many beds faintly laminated throughout; bed contacts generally sharp and flat, a few are vague; coarse sericite noted; pyrrhotite is very weakly disseminated in places; bedding to core 84° @ 2079', 82° @ 2094'.	



SULLIVAN EXPL. -WD

JOB U 86-0494R  
 REPORT DATE 6 OCT 1986

LAB NO	FEET		Pb PPM	Zn PPM	
	From	To			
RR609851	14801	1939.3	1939.9	12	42
RR609852	14802	1941.5	1944.5	16	81
RR609853	14803	1944.5	1949.0	14	56
RR609854	14804	1949.0	1953.5	<4	55
RR609855	14805	1953.5	1957.5	<4	54
RR609856	14806	1957.5	1960.0	<4	54
RR609857	14807	1960.0	1963.0	<4	52
RR609858	14808	1963.0	1970.0	31	55
RR609859	14809	1970.0	1971.3	25	78
RR609860	14810	1971.3	1972.5	206	234
RR609861	14811	1972.5	1974.0	4	57
RR609862	14812	1974.0	1974.3	404	904
RR609863	14813	1974.3	1976.0	8	94
RR609864	14814	1976.0	1978.1	37	161
RR609865	14815	1978.1	1980.0	102	298
RR609866	14816	1980.0	1982.0	144	480
RR609867	14817	1982.0	1983.3	130	403
RR609868	14818	1983.3	1984.7	87	141
RR609869	14819	1984.7	1985.8	71	220
RR609870	14820	1985.8	1986.7	81	263
RR609871	14821	1986.7	1987.6	55	131
RR609872	14822	1987.6	1988.5	66	137
RR609873	14823	1988.5	1989.3	67	112
RR609874	14824	1989.3	1990.6	32	99
RR609875	14825	1990.6	1991.8	21	171
RR609876	14826	1991.8	1992.8	7	175
RR609877	14827	1992.8	1993.7	31	69
RR609878	14828	1993.7	1995.0	42	73
RR609879	14829	1995.0	1997.0	17	58
RR609880	14830	1997.0	1998.1	4	38

I=INSUFFICIENT SAMPLE X=SMALL SAMPLE E=EXCEEDS CALIBRATION C=BEING CHECKED R=REVISED  
 IF REQUESTED ANALYSES ARE NOT SHOWN RESULTS ARE TO FOLLOW

ANALYTICAL METHODS

Pb AQUA REGIA DECOMPOSITION / AAS

Zn AQUA REGIA DECOMPOSITION / AAS



APPENDIX B

SULLIVAN MINE GROUP OF MINERAL CLAIMS

NOVEMBER 27, 1986

Number of Units

1. Crown-Granted M.C.		680
2. Held by Assessment:		
2(a) TWO POST CLAIMS		
Luke Group	75	
Rho Group	20	
Med Group	15	
Donna, Etc. Group	15	
Uke Group	11	
Mar Group	17	
Bad Group	36	
Late Group	91	
Mat Group	268	
Jackpot	1	549
2(b) REVERTED CROWN GRANTED MINERAL CLAIMS		
Tip 4-12	9	
Hope 2-12	11	
Sun 2-12	11	
Cue 2-12	11	
B.C., Silver Bell, Tarrant	3	
Black Hills, Yankee Girl, Wasp Fr.	3	
Blue Dragon	1	49
2(c) MINERAL CLAIMS (54)		
Dip 1-8	56	
Fal 1-14	84	
Golf 1-3	17	
Quark 1&2	12	
Fin 1-3	18	
Mead 1-3	36	
Gin 1-9	110	
Clair 24-32	56	
Mark 1-3	17	406
3. Greenhorn Mineral Lease		<u>1</u>
GRAND TOTAL (1 + 2 + 3)		1,685

APPENDIX C

STATEMENT OF EXPENDITURES

DIRECT COSTS

Contractor: Longyear Canada Inc.  
721 Aldford Avenue, Annacis Island,  
Westminster, B.C. V3M 5P5

<u>Item</u>	<u>Invoice No.</u>	<u>Amount</u>
0-2133 ft (0-650m) coring	8854	\$39,891.40
	8855	6,110.40
Mobilization	8854	1,800.00
Move In	"	1,395.00
Move From (false start)	"	775.00
Move to storage (part)	8855	2,092.50
Reaming	8854	884.40
Reaming	"	186.00
Hole Reduction	"	1,323.00
Standby	"	1,896.00
Surveys	"	372.00
Surveys	8855	46.50
Casing left in hole	"	980.45
Demobilization	9104	1,800.00
Hole Reduction (Remove HQ)	"	558.00
Move Out	"	1,550.00
	TOTAL =	\$61,660.65

INDIRECT COSTS

Salaries

P.W. Ransom - Geologist - Supervision, core logging,  
report writing 36 days @ \$250/day 9,000.00

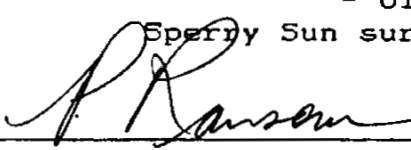
Mobilization

Cominco Ltd., Kimberley, B.C. - Cat and operator 1,168.00  
Henderson Heavy Hauling, Cranbrook, B.C. 1,085.00  
Wright Contracting, Cranbrook, B.C. - Bulldozer 910.00  
S+D Hunt Logging, Cranbrook, B.C. - Bulldozer 300.00  
Mountain Meadows, Fort Steele, B.C. - Bulldozer 1,511.25

Transportation 4X4 truck - 14 days @ \$40/day 560.00

Supplies Core Boxes 64 X \$5.50 352.00  
Drill Mud - Gel 240 X \$5.50 1,320.00  
- Trol 22 X \$98.00 2,156.00  
- Oil 3 X \$267.00 801.00  
Sperry Sun survey equipment 62.54

TOTAL \$80,886.44

Signed:   
P.W. RANSOM, Project Geologist

APPENDIX D

IN THE MATTER OF THE

B.C. MINERAL ACT

AND

IN THE MATTER OF A DIAMOND DRILL PROGRAMME

CARRIED OUT ON THE MAT 71 CLAIM GROUP

MATTHEW CREEK AREA

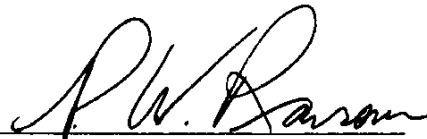
in the Fort Steele Mining Division of  
the Province of British Columbia

More Particularly N.T.S. 82F/9

A F F I D A V I T

I, P.W. Ransom, of the rural district of Wycliffe, in the Province of British Columbia, make Oath and say:

1. That I am employed as a Geologist by Cominco Ltd. and as such, have a personal knowledge of the facts to which I hereinafter depose:
2. That annexed hereto and marked as Appendix C to this my Affidavit is a true copy of expenditures incurred on a Diamond Drill programme, on the Mat 71 mineral claim group.
3. That the said expenditures were incurred between the 27th day of June, 1986 and the 10th day of October, 1986 for the purpose of mineral exploration on the above noted claim group.



P.W. RANSOM  
PROJECT GEOLOGIST

APPENDIX E

STATEMENT OF QUALIFICATIONS

As author of this report, I, Paul W. Ransom, certify that:

I am a geologist active in minerals exploration.

I am a graduate of McGill University with a degree of Bachelor of Science.

I have been continuously engaged in mining and exploration since 1966.

I am a member of the Geological Association of Canada.

I supervised Cominco Ltd.'s Sullivan Mine area exploration drilling program in 1986.

  
P.W. RANSOM, G.A.C.