

COMINCO LTD.

EXPLORATION

NTS : 82K/7W

LOG NO: 0510	RD.
ACTION:	
FILE NO: WESTERN CANADA	

ASSESSMENT REPORT
DIAMOND DRILLING
DUNCAN LAKE CLAIM GROUP
SLOCAN MINING DISTRICT, B.C.

Latitude : 50°24'N

Longitude : 117°27'W
116 57

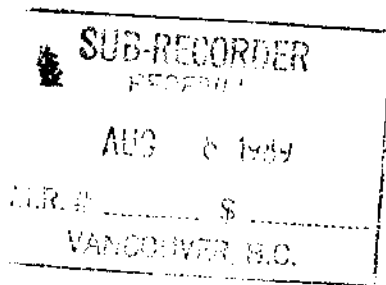
Work Performed by : April 25 - June 15, 1989

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

18,942

JULY 1989

Reported by: D.L. CRAIG



ASSESSMENT REPORT
DUNCAN LAKE CLAIMS
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Figure 3 Property & Ownership

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Scale

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Central Area Geology (DDH Location) - Plate 89-1 1:5000
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DDH C-89-6

Appendix A - Statement of Expenditures April 1-June 8, June 8-30, 1989
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ASSESSMENT REPORT
DUNCAN LAKE PROPERTY

1. SUMMARY

Drill hole C-89-5 was drilled at -55° during April-May, 1989 to test the possibility of mineralization 2 km north of the Duncan Mine adit and to establish structural control over the northern portion of the Duncan anticline. The hole intersected mineralization from 542 metres to 705 metres with four significant intervals:

		<u>Pb %</u>	<u>Zn %</u>	<u>Meters</u>
1.	542.93 - 546.35 m	1.13	1.78	3.42
2.	553.00 - 563.00 m	4.00	6.42	10.00
3.	570.50 - 577.80 m	1.50	4.62	7.30
4.	631.00 - 635.22 m	1.79	2.92	3.22

Drill hole C-89-6 was drilled at -60° during May-June, 1989 at the same site to establish the size of the ore zone intercepted by C-89-5. A smaller intersection of the mineral horizon was intercepted over 2.52 m from 603.48 to 606.00 metres grading 1.67% Pb and 11.00% Zn.

The drill holes proved that mineralization exists on the east limb of the Duncan anticline north of the Duncan adit.

2. INTRODUCTION

On April 12, 1989 field work commenced on the Duncan property in preparation for the arrival of Tonto Drilling on April 25, 1989.

Drilling was done by Tonto Drilling of Burnaby, B.C. using a Longyear 44 drill. Two holes were completed. Hole C-89-5 was cored with HQ to 429.46 metres then NQ to 809.24 m. Hole C-89-6 was cored with HQ to 527.0 m then NQ to 714.93 m. Core recovery was excellent running 98%+ in mineralized and unmineralized sections.

Target intercepts of mineralization were obtained resulting from projections by Senior Geologist A.B. Mawer. The projections were from past drilling 2 km south of the 1989 program. A total of 1,524.17 metres were drilled during the period of April 25 to June 15, 1989.

The drill site and access road required minor preparation and widening. Previous road and drill site preparation had been roughed in 2 years previously and the current work took one and one-half days with a D-7 Cat. Mobilization and demobilization was also done by the D-7, skidding the equipment approximately 4 km from the lowbed off-loading site.

Tonto ran 2 ten hour shifts per day. Drilling was continuous from the beginning of C-89-5 to the completion of C-89-6. Drilling was generally good except for a 72 metre thick unit of a very hard cherty silicified unit that had a propensity for consuming drill bits at a rapid rate. Both holes were cemented to the top and the HQ casing removed.

Three core storage sheds were constructed approximately 150 metres north of the drill site. The sheds contain steel racks with a sheet metal roof capable of providing year round protection.

The diamond drilling was supervised by A.B. Mawer and D.L. Craig.

3. LOCATION AND ACCESS

The claims are located on the east side of Duncan Lake on map sheet 82K/7W centred on Latitude 50°23' and Longitude 117°20' (see Figure 1). Access to the area is by paved road to 6 km north of Lardeau, B.C. and then 31 km of dirt logging road along the east side of Duncan Lake.

The claim group sits on the west side of Duncan Island and extends northward across the lake onto the eastern side of Howser Ridge. The claims also extend southeast from the island onto the eastern side of Duncan Lake through Glacier Creek.

4. TOPOGRAPHY

The claim group elevation ranges from 560 metres at lake level to a maximum of 1,065 metres on the eastern side of Howser Ridge. Slopes are moderate to the east and steep to the west. Vegetation consists of small 4" to 24" coniferous forest with some areas of moderate to tight underbrush. Current topography was molded by glaciation.

5. PROPERTY AND OWNERSHIP

Property consists of the following claims (100% owned by Cominco Ltd.): See Figure 3.

FIGURE 3

89/07/18

DUNCAN

Page 1

PROPERTY	CLAIM NAME	CLAIM SIZE	CLAIM UNIT	RECORD #	DATE/REC	DUE DATE	MISCELL.
DUNCAN	BILL 1	1.00	UNITS	1444	51/03/05	99/03/05	
DUNCAN	BILL 2	1.00	UNITS	1445	51/03/05	99/03/05	
DUNCAN	BILL 3	1.00	UNITS	1446	51/03/05	99/03/05	
DUNCAN	BILL 4	1.00	UNITS	1447	51/03/05	99/03/05	
DUNCAN	PAT	1.00	UNITS	1441	51/03/05	99/03/05	
DUNCAN	JIM	1.00	UNITS	1442	51/03/05	99/03/05	
DUNCAN	QIMC	1.00	UNITS	1443	51/03/05	99/03/05	
DUNCAN	MARGE	1.00	UNITS	1448	51/03/05	99/03/05	
DUNCAN	DAVE	1.00	UNITS	1449	51/03/05	99/03/05	
DUNCAN	MARIE	1.00	UNITS	1450	51/03/05	99/03/05	
DUNCAN	JIGG	1.00	UNITS	1451	51/03/05	99/03/05	
DUNCAN	TOM	1.00	UNITS	1440	51/03/05	99/03/05	
DUNCAN	APT 1	1.00	UNITS	1429	51/03/09	99/03/09	
DUNCAN	APT 2	1.00	UNITS	1430	51/03/09	99/03/09	
DUNCAN	APT 3	1.00	UNITS	1431	51/03/09	99/03/09	
DUNCAN	APT 4	1.00	UNITS	1432	51/03/09	99/03/09	
DUNCAN	APT 5	1.00	UNITS	1433	51/03/09	99/03/09	
DUNCAN	APT 6	1.00	UNITS	1434	51/03/09	99/03/09	
DUNCAN	L.D.	1.00	UNITS	1615	51/05/19	99/05/19	
DUNCAN	L.D. 1	1.00	UNITS	1616	51/05/19	99/05/19	
DUNCAN	L.D. 2	1.00	UNITS	1617	51/05/19	99/05/19	
DUNCAN	L.D. 3	1.00	UNITS	1618	51/05/19	99/05/19	
DUNCAN	L.D. 4	1.00	UNITS	1619	51/05/19	99/05/19	
DUNCAN	L.D. 5	1.00	UNITS	1620	51/05/19	99/05/19	
DUNCAN	L.D. 6	1.00	UNITS	1621	51/05/19	99/05/19	
DUNCAN	L.D. 7	1.00	UNITS	1622	51/05/19	99/05/19	
DUNCAN	ALICE	1.00	UNITS	1657	51/06/18	99/06/18	
DUNCAN	FRANK	1.00	UNITS	1658	51/06/18	99/06/18	
DUNCAN	RUTH	1.00	UNITS	1711	51/07/14	99/07/14	
DUNCAN	JOE	1.00	UNITS	1712	51/07/14	99/07/14	
DUNCAN	LAKE SHORE	1.00	UNITS	1828	51/10/10	99/10/10	
DUNCAN	LAKE SHORE 1	1.00	UNITS	1829	51/10/10	99/10/10	
DUNCAN	ROSCO 1	1.00	UNITS	2325	52/07/03	99/07/03	
DUNCAN	ROSCO 2	1.00	UNITS	2326	52/07/03	99/07/03	
DUNCAN	ROSCO 3	1.00	UNITS	2327	52/07/03	99/07/03	
DUNCAN	ROSCO 4	1.00	UNITS	2328	52/07/03	99/07/03	
DUNCAN	ROSCO 5	1.00	UNITS	2329	52/07/03	99/07/03	
DUNCAN	ROSCO 6	1.00	UNITS	2330	52/07/03	99/07/03	
DUNCAN	ROSCO 7	1.00	UNITS	2331	52/07/03	99/07/03	
DUNCAN	ROSCO 8	1.00	UNITS	2332	52/07/03	99/07/03	
DUNCAN	ROSCO 9	1.00	UNITS	2333	52/07/03	99/07/03	
DUNCAN	ROSCO 10	1.00	UNITS	2334	52/07/03	99/07/03	
DUNCAN	ROSCO 11	1.00	UNITS	2335	52/07/03	99/07/03	
DUNCAN	ROSCO 12	1.00	UNITS	2336	52/07/03	99/07/03	
DUNCAN	JEN FR.	1.00	UNITS	4700	58/05/09	99/05/09	
DUNCAN	TED 1 FR.	1.00	UNITS	4868	59/02/25	99/02/25	
DUNCAN	TED 2 FR.	1.00	UNITS	4869	59/02/25	99/02/25	
DUNCAN	TED 3 FR.	1.00	UNITS	4870	59/02/25	99/02/25	
DUNCAN	TED 4	1.00	UNITS	4871	59/02/25	99/02/25	
DUNCAN	ROSCO 13	1.00	UNITS	5135	60/04/19	99/04/19	
DUNCAN	ROSCO 14	1.00	UNITS	5136	60/04/19	99/04/19	
DUNCAN	ROSCO 15	1.00	UNITS	5137	60/04/19	99/04/19	
DUNCAN	ROSCO 16	1.00	UNITS	5138	60/04/19	99/04/19	

PROPERTY	CLAIM NAME	CLAIM SIZE	CLAIM UNIT	RECORD #	DATE/REC	DUE DATE	MISCELL.
DUNCAN	L.D. 8 FR.	1.00	UNITS	5442	60/11/01	99/11/01	
DUNCAN	L.D. 8 FR.	1.00	UNITS	5443	60/11/01	99/11/01	
DUNCAN	APT. 8 FR.	1.00	UNITS	5444	60/11/01	99/11/01	
DUNCAN	L.D. 1 FR.	1.00	UNITS	5473	60/11/18	99/11/18	
DUNCAN	D.L. 1	20.00	UNITS	5275	88/11/18	99/11/18	
DUNCAN	D.L. 1	20.00	UNITS	6023	89/05/08	90/05/08	
DUNCAN	D.L. 3	8.00	UNITS	6020	89/05/18	98/05/18	
DUNCAN	GRIZZLY	26.50	BA	14271-L	/ /	88/07/11	

125.90*

6. PREVIOUS WORK

The Duncan claims cover the Badshot and Mohican Formations on the eastern limb of the Duncan anticline. The properties were located in 1925, although lead-zinc mineralization has been known in the area since 1911. Exploration by the Berens River Mines Ltd. began in 1952, and in 1956 exploration by the Bunker Hill Co. of Kellogg, Idaho began on the peninsula with trenching and diamond drilling. In 1957 the property was optioned by Cominco Ltd. Subsequent geological mapping and diamond drilling were followed by underground exploration with several million tons of lead-zinc mineralization indicated. Subsequent drilling by Cominco has continued over the years to establish the tonnage and grade of the deposit. The last drilling prior to 1989 took place on the peninsula during 1979.

7. REGIONAL GEOLOGY

The Duncan Lake area includes about 200 square miles in southeastern B.C. The region covers the Purcell Trough, the Purcell Mountains on the east and the Selkirk Mountains on the west. Rocks of the area form the Kootenay Arc which extends from Revelstoke south to the U.S. border. Although no fossils have been found in the Duncan Lake area, the rocks are pre-Mississippian. The Badshot limestone, a well known marker in the region, contains lower Cambrian fossils in different localities. Regional metamorphism grades from low northwest of Duncan Lake to a higher garnet grade along Kootenay Lake. A garnet isograd tends north from the north end of Kootenay Lake to the north end of Duncan Lake.

The Duncan Lake area contains complex folded sedimentary and volcanic rocks of low to medium grade regional metamorphism. Sills of felsite and feldspar porphyry intrude into the area to the southwest. Some rare mafic dykes and amphibolite sills occur locally. Plutonic rocks are absent from the immediate area but the Fry Creek Batholith begins 5 miles south of Lardeau.

The major mineralization in the area consists of medium to low grade lead-zinc hosted by the Badshot limestone/dolomite, and extends primarily along the eastern limb of the Duncan anticline from Mt. Lavina to the Duncan properties. Some minor mineralization takes place along the western limb of the anticline at the Mag Property. Silver assays have been recorded at the Moonshine, Argenta and Surprise properties, not necessarily associated with the Badshot Formation.

8. PROPERTY GEOLOGY

The structure of the Duncan Lake area is complex, resulting from various styles of repeated folding. Most of the folds have a low plunge, the majority to the north. The most important folds have resulted from polyphase deformation and

are classified as Phase I and Phase II folds. Later phases of folding beyond Phase II are on a small local scale and not relevant to the regional structure. Phase I folds are generally isoclinal and plunge to the north at low angles. The limbs and axial planes of these folds are curved and result from the effects of the Phase II deformation. Phase II structures are generally more open than Phase I structures. Slip is common parallel to cleavage planes of Phase II folds resulting in small faults. Some major faulting is known, with the movement principally being dip slip with the west side down and very small strike slip.

Three major groups comprise the stratigraphy of the Duncan claims in order of youngest to oldest: Lardeau, Badshot/Mohican and the Hamill.

The Duncan claims extend along the eastern limb of the Duncan anticline which consists of the Hamill group quartzites at the core, overlain by the Badshot/Mohican dolomite-limestones and the Lardeau group argillite-phyllites on the limbs. The anticline plunges at 10° to the north. Primary mineralization occurs at the contact between the Badshot Formation and the lower argillites of the Lardeau group. At this interface is a very hard cherty silicified rock unit locally called Silica Rock for lack of a better identifier. Stringer lead/zinc mineralization begins in this unit, becoming enriched as the unit approaches the underlying Badshot limestone/dolomite. The ore zones are lenticular and tend to decrease down the limb to the east. Three faults cross the eastern limb of the anticline parallel to the axis, with the principle movement west side down and left hand strike slip.

Principle mineralization on the Duncan peninsula occurs at the top of the Phase II fold on the eastern limb of the anticline. Glacial erosion has removed the peak of the anticline from the southern edge of the lake to the north end of the Duncan peninsula resulting in the mineralization being exposed at surface.

9. DIAMOND DRILLING

Drill hole C-89-5 commenced on April 15, 1989 at -55° and achieved a depth of 809.45 m on May 27. Drill hole C-89-6 commenced on May 28 at -60° immediately below C-89-5 and achieved a depth of 714.93 metres on July 12, 1989. Drill hole C-89-5 was targeted to test the northern portion of the east limb of the Duncan anticline for mineralization and to gain structural and stratigraphic control of the area. As a result of the mineralization intercept in C-89-5, a second hole was drilled to determine the down dip extension of the orebody and to provide structural control for further drilling programs.

C-89-5 intercepted a mineralized horizon from 541 metres to 700 metres with 4 major zones.

		<u>Pb %</u>	<u>Zn %</u>	<u>Meters</u>
1.	542.93 - 546.35 m	1.13	1.78	3.42
2.	553.00 - 563.00 m	4.00	6.42	10.00
3.	570.50 - 577.80 m	1.50	4.62	7.30
4.	631.00 - 635.22 m	1.79	2.92	3.22

C-89-6 intercepted a mineralized horizon from 602 metres to 642 metres with one major zone:

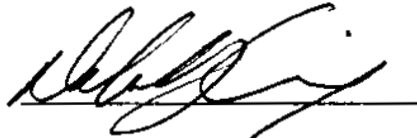
	<u>Pb %</u>	<u>Zn %</u>	<u>Metres</u>
1. 603.48 - 606.00 m	1.67	11.00	2.52

The drill holes were logged by A.B. Mawer and D.L. Craig. The drill holes are described in detail in Appendices B and C.

10. CONCLUSION

Drill holes C-89-5 and C-89-6 displayed that mineralization exists on the eastern limb of the Duncan anticline up to 2 km north of the Duncan adit.

Report by:



Dunham L. Craig
Assistant Geologist

Endorsed for Release by:



W.J. Wolfe
Manager, Exploration-
Western Canada

DLC/jd

REFERENCES

- Fyles, James T, 1964,
Geology of the Duncan Lake Area, Lardeau District, British Columbia;
B.C. Department of Mines & Petroleum Resources; Bulletin No. 49.
- Reesor, J.E., 1973,
Geology of the Lardeau Map Area, East-Half, British Columbia;
Geological Survey of Canada Memo 369.

APPENDIX A
STATEMENT OF EXPENDITURES

APRIL 1 - JUNE 8, 1989

SALARIES:

A.B. Mawer - April 10-14, May 5-10, May 25-31 June 1-6, 22 days @ \$392.30	\$ 8,630
D.L. Craig - April 1 - June 8, 63 days @ \$211.48	13,323
T.W. Muraro- May 1 - June 7, 32 @ \$128.61	<u>4,115</u>
	\$ 26,068.00
Communication	134.00
Geology Expenses	6,449.00
Diamond Drill Camp Supplies	3,702.00
Diamond Drill Assays	2,948.00
Transportation 4 x 4	3,662.07
Domicile	2,219.06
Diamond Drill Consulting	135.00
Diamond Drill Equip. Purchase	2,175.35
Geological Equip	2,587.83
Food	2,814.96
Diamond Drill Contract	<u>162,031.50</u>
	\$ 214,926.77

APPENDIX A
STATEMENT OF EXPENDITURES

STATEMENT OF EXPENDITURES

JUNE 9-30, 1989

SALARIES:

D.L. Craig - 9 days @ \$211.48	\$1903.32	
A. Johnson June 12-16 5 @ \$240.20	<u>1201.00</u>	
		\$ 3,104.32
Geology Expenses		697.00
Diamond Drilling Camp Supplies		1,684.00
Transportation 4 x 4		400.00
Domicile		315.00
Food		252.00
Diamond Drill Contract		18,733.00
Drafting & Report Writing		<u>4,000.00</u>
		\$29,185.32

Cost per metre of drilling \$244,112.00 for 1524.4 m = \$160.13 per metre.

Cost for Diamond Drill Holes C-89-5 and C-89-6 \$244,112.09

APPENDIX B

DIAMOND DRILL HOLE C-89-5 LOG

DRILL HOLE RECORD

COMINCO LTD.

Property:	DUNCAN LAKE	District:	Slocan M.D.	Hole No.	C-89-5				C-89-5
Commenced:	April 24, 1989	Location:	Duncan Lk 82K/7W	Tests at:	100 m intervals	Hor. Comp:	498.34 m		Page 1
Completed:	May 25, 1989	Core Size:	HQ to 429.57; NQ to 809.45	Corr. Dip:	-52°	Vert. Comp:	637.85 m		
Co-ordinates:	50°23'; 117°27'	Collar Dip:		True Brg:	237°	Logged by:	D.L. Craig		
Objective:	Extension N of mine mineralization & to investigate structure	Length:	809.45 m	% Recov:	100%	Date:	May 27, 1989		

METERAGE		DESCRIPTION	ANALYSIS					
FROM	TO		SAMPLE	FROM	TO	Pb	Zn	Ag
0	4.58	Overburden, casing to 4.57 m.						
4.57	469.60	<p>ARGILLITE: Black and dark grey: laminated fine black argillite with grey mudstone laminations 1 mm to 10 mm wide. Pyrite and pyrrhotite bands 1 mm to 3 mm wide parallel to laminations. Pyrite and pyrrhotite are equal to 1-2% of core. Rusty weathering on fractured surface mildly calcareous throughout. Micaceous throughout unit.</p> <p>40.85 - Fault: fracture zone 0.3 mm in width; loss of drilling return.</p> <p>67.26-79.11 - Argillite: black carbon rich, very carbonaceous, broken and crumbly and euhedral pyrite to 2%.</p> <p>79.11-108.23 - Argillite: silicified.</p> <p>108.23-132.00 - Argillite: very calcareous, biotite porphyroblasts evident.</p> <p>132.00-145.16 - Limestone: grey cream coloured, microcrystalline; mottled and banded with pyrite bands and biotite phenocrysts. Some argillite bands.</p> <p>145.16-164.20 - Argillite: grey to medium grey banded and mottled interbedded argillite and limestone. Strongly calcareous.</p> <p>164.20-165.80 - Fault zone: fractured and rubble argillite.</p> <p>165.80-271.4 - Argillite: medium grey to dark grey interbedded argillite and calcareous mudstone with pyrite and pyrrhotite disseminated blebs and bedding parallel laminations.</p> <p>271.4-273.12 - Argillite: carbon rich and calcareous fracture zone possible fault 0.3-0.5 m wide.</p>						

DRILL HOLE RECORD

COMINCO LTD.

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METERAGE FROM TO	DESCRIPTION	ANALYSIS					
		SAMPLE	FROM	TO	Pb	Zn	Ag
469.6 - 511.1	<p><u>SILICA ROCK</u>: dark to medium grey, fine grained, banded and nodular cherty quartz. Calcite and quartz nodules and bands with pyrite 1 to 2 mm. Cross-cutting quartz veinlets. Pyrite equal to 0.5 to 1%. Some vuggy zones. Some small breccia zones with breccia up to 2 cm diameter.</p> <p>498.17-499.52 - Minor 1-2 mm bands of honey coloured sphalerite and disseminated rare flecks of galena.</p> <p>499.52-504.35 - Silica rock.</p> <p>504.35-511.10 - Silica rock: interbedded silica rock and limestone. Sugary texture, banded and mottled. Scattered 1 to 3 mm foliation parallel bands of pyrite and sphalerite. Very minor disseminated anhedral and subhedral sphalerite.</p>						
511.1 - 511.7	Limestone: light grey, sugary, mottled and wavy, silicified.						
511.7 - 551.0	<p>Silica rock: minor disseminated sphalerite flecks and pyrite bands 1-2 mm parallel to foliation and in blebs. Some thin interbeds of calcareous mudstone.</p> <p>528.0-532.45 - Silica rock: increased pyrite stringers 0.1 to 2 cm width with sphalerite laminations 1-2 mm wide parallel to foliation. Sphalerite is honey coloured and anhedral.</p> <p>532.45-533.6 - <u>SILICA ROCK</u>: dark grey and medium grey. Banded with calcite laminations 0.2 cm to 0.5 cm wide with minor sphalerite stringers and disseminations associated with pyrite and calcite in foliation parallel bands.</p> <p>533.6-537.2 - <u>SILICA ROCK</u>: 0.2 m band of foliation parallel to massive pyrite with disseminated and 1-3 mm bands of sphalerite with calcite gangue.</p> <p>537.2-537.4 - <u>SILICA ROCK</u>: pyritic zone, massive and blebby pyrite with galena and sphalerite as disseminated blebs and flecks in mildly calcareous gangue. Pyrite equal to 60% of section.</p>						

DRILL HOLE RECORD

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METERAGE FROM TO	DESCRIPTION	ANALYSIS				
		SAMPLE	FROM	TO	Pb%	Zn%
511.7 - 551.0 continued	537.4-541.32 - <u>SILICA ROCK</u> : well banded grey, medium-fine grained with very little pyrite.					
	541.32-543.0 - <u>SILICA ROCK</u> : increased pyrite to 15% with stringers of sphalerite and galena up to 0.25 cm wide in some sections.		541.93	542.93	.08	.89
	543.0-543.80 - <u>SILICA ROCK</u> : interbedded silica rock and grey fine grained calcite with massive and laminated pyrite and galena. pyrite is equal to 40-60% of core. Soft grey sulphide mud matrix in calcite and silica. Some small shale clasts, 0.2-1 cm diameter at 543.80 m.		542.93	543.93	1.6	2.06
	543.80-546.20 - <u>SILICA ROCK</u> : 30% pyrite; banded and disseminated with galena and sphalerite laminations and disseminated grains. Some calcareous pods and laminations. At 546.6, 4 cm wide band of sulphide mudstone with base of massive coarse crystalline galena fining upwards to muddy sulphide. Possible mylonized zone.		543.93	544.93	.15	2.65
			544.93	545.35	.69	4.55
			545.35	546.35	1.9	1.53
	546.2-551.0 - <u>SILICA ROCK</u> : Silicified limestone/marble with pyrite stringers and blebs equal to 5%. Mottled grey and cream coloured with trace sphalerite and galena.		546.35	547.25	.14	.11
			547.25	548.25	.01	.03
551.0 - 560.9	<u>LIMESTONE</u> : Light grey to cream; medium-fine grained with massive and disseminated anhedral pyrite; sugary texture. Coarse grained galena and sphalerite. Fine grained grey groundmass in matrix. Sphalerite is light green coloured.		548.25	549.00	.004	.04
			549.00	550.00	.006	.02
			550.00	551.00	.009	.04
			551.00	552.00	.83	2.65
	551.0-555.22 - Limestone as above; sulphides equal to 60-80% high grade.		552.00	553.00	1.6	2.38
	555.22-558.5 - Limestone as above; sulphides equal to 90% high grade.		553.00	554.00	3.93	4.3
			554.00	555.00	6.12	3.75
	558.5-560.9 - Limestone and interbedded silica rock; nodular and banded consisting of 50% massive sulphides with 5-9% visible honey coloured sphalerite and trace galena.		555.00	556.00	6.1	10.0
			556.00	557.00	6.4	5.9
			557.00	558.00	5.0	6.42
560.9 - 566.0	<u>DOLOMITE</u> : Medium to light grey; mottled. Interbedded with 0.1-0.4 m beds of silica rock; light grey and mottled 50% sulphides with occasional 0.2 to 1 cm stringers of dark brown		558.00	559.00	3.6	9.0
			559.00	560.00	1.5	11.9
			560.00	561.00	3.8	5.4

DRILL HOLE RECORD

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METERAGE		DESCRIPTION	ANALYSIS				
FROM	TO		SAMPLE	FROM	TO	Pb%	Zn%
560.9	566.0	sphalerite and disseminated sphalerite. Strong fine grained galena with some 0.20 metre sections grading to 20% galena and sphalerite.	561.00	562.00	1.45	4.4	
continued			562.00	563.00	2.1	3.1	
566.0	570.4	DOLOMITE: Same as above only massive sulphides equal to 15-20%.	563.00	564.00	.06	2.05	
570.4	577.79	LIMESTONE: Cream, sugary texture with massive fine grained sulphide equal to 60-70%. Limestone is banded and mottled visible sphalerite and galena in bands 0.1-1 cm wide with disseminated blebs and flecks of sphalerite and galena, possible menegenite. 570.4-572.85 - Limestone: 60-70% sulphides. 572.85-573.80 - Limestone: 80% massive sulphides with sphalerite and galena in disseminated blebs and bands. 573.50-574.50 - Limestone: 15-20% sulphides in stringers. 574.50-577.79 - Limestone: 60-70% sulphides with sphalerite equal to 20% of sulphides in bands and stringers.	564.00	565.23	.89	1.73	
			565.23	566.10	.09	.92	
			566.10	567.00	.09	.89	
			567.00	568.00	.21	1.6	
			568.00	569.00	.23	.04	
			569.00	570.50	.80	.43	
			570.50	571.50	2.6	4.2	
			571.50	572.00	2.53	2.0	
			572.00	573.00	2.2	3.25	
			573.00	573.80	3.0	4.26	
577.79	580.2	DOLOMITE: Light grey, fine grained, blocky and massive with small blebs of calcite. Banded and mottled. Pyrite and sphalerite stringers 1-4 mm wide. Sphalerite is honey coloured in disseminations, dark brown in stringers; anhedral.	573.80	574.50	.86	1.75	
			574.50	575.50	.79	2.63	
			575.50	576.00	.28	3.23	
			576.00	577.00	.48	8.3	
			577.00	577.80	.30	10.7	
577.80	579.00	.02	.28				
580.2	582.7	GREENSCHIST: Green mica schist with pyrite and pyrrhotite in laminations parallel to foliation. Some wispy red rusty limonitic bands of questionable material. Medium light green bright mica present in blebs and small (3 mm) bands. Presumed fushite or mariposite.					
582.7	587.3	DOLOMITE: Light-medium grey - blocky and massive fine grained. Minor pyrite blebs and bands. Barren of mineralization. Sericite abundant in 20 cm stringers and blebs. Some breccia zones with breccia clasts 0.2 to 1 cm of dolomite in dolomite matrix. Pyrite is associated with breccia zones.					

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METERAGE		DESCRIPTION	ANALYSIS					
FROM	TO		SAMPLE	FROM	TO	Pb%	Zn%	Ag
587.3	597.6	<u>QUARTZITE SCHIST</u> : Light green to light grey with well developed foliation cleavage. Fine-medium grains of quartz visible in hand lens. Some 0.1 metre chlorite zones within the quartzite. At 597.0 m - tight isoclinal fold evident in foliation. Quartzite is micaceous throughout. Very uniform and consistent unit.						
597.6	605.15	<u>DOLomite</u> : Light to medium grey, mottled and lightly banded, contact with quartzite schist distinct. 597.60-598.37 - Dolomite as above. 598.37-601.32 - Dolomite, very tightly folded with stringers of sericite + pyrite + pyrrhotite + sphalerite. Sphalerite is dark brown. Mariposite/fushite present with sericite. Mottled dolomite with 1-10 mm dolomite breccia clasts at 601.0-601.32. 601.32-605.15 - Dolomite: dolomite grading into sandy quartzite, dolomite bands and folds with disseminated sphalerite flecks and pyrite stringers and laminations. At 603.35 - interbeds of dolomite, quartzite shale and some calcareous mudstone intermixed in 1-5 cm bands with some sphalerite and pyrite in disseminated flecks, blebs and stringers.						
				600.10	600.90	.40	.85	
				607.00	608.00	.74	1.43	
				608.00	608.50	.42	1.35	
				608.50	609.50	.40	2.7	
				609.50	611.00	.05	.98	
				611.00	612.00	.24	.44	
				612.00	612.78	.19	.72	
				612.78	613.50	.44	1.72	
				613.50	614.50	.710	.40	
				618.18	618.84	1.23	1.35	
				629.00	630.00	2.10	1.16	
				630.00	631.00	.17	1.71	
				631.00	632.00	2.5	3.0	
				632.00	633.00	.53	2.25	
				634.00	635.22	2.3	3.4	
605.15	609.56	<u>LIMESTONE</u> : Grey, coarse grained, some disseminated pyrite and sphalerite in blebs and stringers. Interbedded with minor shale and silica rock. Well banded and banding parallel to core at 608.23 m.						
609.56	635.22	<u>SILICA ROCK</u> : Light grey, banded, grainy-medium-coarse with bands of pyrite 1-4 mm with disseminated sphalerite flecks. Pyrite is blebby and nodular, some galena flecks and zones 15 cm wide of massive pyrite nodules.						
635.22	637.2	<u>SILICIFIED ARGILLITE</u> : Black to grey, mottled with calcareous wisps and nodules of mud/siltstone. Disseminated pyrite; pyrrhotite and very minor disseminated sphalerite.						

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METERAGE		DESCRIPTION	ANALYSIS					
FROM	TO		SAMPLE	FROM	TO	Pb	Zn	Ag
707.60	713.50	709.82-713.50 - Interbedded marble, dolomite and white silica in nodules and bands.						
	continued							
713.50	716.32	<u>GREENSCHIST</u> : Light green, crenulated, soft. Bands and blebs of pyrite and pyrrhotite, mottled appearance. Micaceous interbeds (small) of grey mudstone.						
716.32	716.82	<u>MUDSTONE</u> : Interbedded mudstone, light grey and grey crystalline marble.						
716.82	733.29	<u>QUARTZ SERICITE BIOTITE PHYLLITE</u> : Dark grey, crenulated phyllite with sericite parallel to foliation with biotite porphyroblasts 0.1-1 mm diameter. Biotite up to 2% of core. Minor 1-8 mm bands of light grey mudstone and 1-10 cm interbeds of fine crystalline dolomite. Some carbon wisps in dolomite sections.						
733.29	741.86	<u>MUDSTONE</u> : <u>LIMY</u> , grey, wispy, strongly calcareous, thinly bedded; sericitic.						
741.86	759.30	<u>LIMESTONE</u> : Light grey, medium grained crystalline, banded. Interbedded with 1 to 20 cm beds of argillite. Some sericite and minor biotite, very minor euhedral pyrite.						
759.30	765.70	<u>DOLomite</u> : Dull grey, fine grained, blocky with some sericite zones and breccia bands 3-6 cm wide. Breccia bands have pyrite and mariposite/fushite. Quartz pods throughout. Sericite zones @ 762.0 m, 764.9 m, 765.5 m.						
765.70	776.60	<u>QUARTZITE</u> : Creamy to light green; micaceous and dolomitized, gritty and uniform. Dolomite breccia bands at 770.4, 770.6, 771.0. Some minor sericitic bands. Dolomite section 772.31-772.56.						
776.60	779.95	<u>DOLomite</u> : Dull grey, blocky with minor breccia zones, fine grained and massive in sections.						
779.95	787.35	<u>QUARTZITE</u> : Light grey to light green/brown. Fine grained, micaceous slightly schistose. Uniform. Pyrite bands 0.5 mm wide and blebs with biotite phenocrysts scattered throughout.						

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SPERRY SUN READINGS

<u>FEET</u>	<u>METRES</u>	<u>DIRECT READING</u>			<u>FINAL READING</u>			<u>HOR. (m)</u>	<u>NUMBER</u>	<u>VERT. (m)</u>
		<u>DIP</u>	<u>ASIMUTH</u>	<u>ASIMUTH +21°</u>	<u>DIP</u>	<u>ASIMUTH</u>	<u>° ASM</u>			
335	102.13	+38	SW 36°	237°	-52	237°	0	62.79	1	
690	210.36	+38	SW 38°	239°	-52	239°	2°N	129.28	2	
1,005	306.40	+38	SW 39°	240°	-52	240°	3°N	188.39	3	
1,335	407.10	+38	SW 40°	241°	-52	241°	4°N	250.57	4	
1,644	501.21	+38	SW 40.5°	241.5°	-52	241.5°	4.5°N	308.44	5	
1,975	602.13	+38	SW 44°	245°	-52	245°	8°N	370.62	6	
2,290	698.17	+38	SW 42°	243°	-52	243°	6°N	429.83	7	
2,625	800.30	+39	SW 45°	246°	-51	246°	9°N	492.71	8	
EOH	809.45							498.34 m		637.85 m

APPENDIX C

DIAMOND DRILL HOLE C-89-6 LOG

DRILL HOLE RECORD

COMINCO LTD.

Property:	DUNCAN	District:	Lardeau	Hole No.	89-6				C89-6
Commenced:	May 27, 1989	Location:	Slocan M.D.	Tests at:	every 100 m	Hor. Comp:	389.37 m		Page 1
Completed:	June 14, 1989	Core Size:	HQ to NQ	Corr. Dip:	060°	Vert. Comp:	599.59 m		
Co-ordinates:	Lat. 12250N Dep 1246.4E	Claim:	Rosco 15-16	True Brg:	240°	Logged by:	ABM/DLC		
Objective:	Test N Extension of Duncan mine & size of ore zone of C89-5	Collar Dip:	-060°	% Recov:	98%	Date:	May 28/June 19, 1989		
		Length:	714.93 m						

METERAGE		DESCRIPTION	ANALYSIS					
FROM	TO		SAMPLE	FROM	TO	Pb	Zn	Ag
0	3.05	OVERBURDEN						
3.05	13.70	<p><u>ARGILLITE</u>: Black to dark grey, faint silty laminations. Foliation and bedding @ 050° to core axis; small 0.5-1.0 m diameter white porphyroblasts, random orientation.</p> <p>3.75 - Few black carbon layers to 0.6 mm in thickness, possibly phosphorite.</p> <p>4.90-5.40 - 30-40% transposed folded silty laminations.</p> <p>6.80 - Mud seam. Throughout section occasional thin layers or laminations of pyrrhotite and pyrite parallel to foliation or bedding.</p> <p>7.62-10.80 - Medium to thin banded light coloured silty laminations, pinstripe appearance @ 050°.</p> <p>11.20-13.80 - pinstripe appearance, thin to broad foliation in between silty laminations is steeper at 035° to core axis.</p>						
13.70	16.0	<p><u>ARGILLITE</u>: Black and carbonaceous, thin pyrrhotite-pyrite seams.</p> <p>15.1-15.2 - Dark grey, medium crystalline limestone with a few black carbon lenses (phosphorite).</p> <p>15.62-15.63 - Pyrite seam parallel to foliation and bedding. Few white cross-cutting quartz veinlets - 050°.</p>						
16.0	23.0	<p><u>ARGILLITE</u>: Black, carbonaceous with very black transposed folded thin layers of carbon (phosphorite?). The folding and transposition gives a vermicelli or wormy appearance to core. The transposed fold axis is parallel to foliation. Core is soft to hard dense argillite.</p>						

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METERAGE		DESCRIPTION	ANALYSIS							
FROM	TO		SAMPLE	FROM	TO	Pb	Zn	Ag		
16.0 - 23.0 continued		16.31-16.51 - Pyrrhotite lenses to 2 cm thick, trace of chalcopyrite, all parallel to foliation, parallel to bedding.								
		17.70 - mud seam, bedding @ 050°.								
		17.90-18.0 - dark grey medium crystalline parallel to 090°.								
		19.0-19.04 - light grey limestone.								
		22.0-23.0 - oxidized and broken core.								
23.0 - 30.5		SILTSTONE: Calcareous, light grey, with light grey interlaminated phyllite, crumple folding @ 25.0-30.50 m. Foliation @ 055°. Bedding is variable from parallel to core axis. Bedding 045° to 090°.								
30.50 - 33.30		ARGILLITE: Dark grey to black, minor silty layers. Bedding @ 045°.								
33.30 - 42.6		SILTSTONE: Light to dark grey, thin to medium pinstripe due to alternating argillite-siltstone, some sections principally dark foliated argillite.								
		38.1 - Few detached black carbon (phosphorite?) laminations.								
		36.67-36.75 - light grey medium crystalline silty limestone. @ 38.0 - bedding @ 035°. @ 39.5 - bedding @ 090°. @ 41.0 - bedding @ 025°.								
42.6 - 48.5		ARGILLITE: Dark grey with interlaminated grey carbonate (medium crystalline limestone).								
		42.6 - becoming calcareous in the grey silty carbonate bands and laminations.								
		44.0-44.02 - grey medium crystalline silty limestone. Bedding @ 035°.								

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METERAGE		DESCRIPTION	ANALYSIS					
FROM	TO		SAMPLE	FROM	TO	Pb	Zn	Ag
48.5	50.80	ARGILLITE: Dark grey with silty interlaminaions in part crumpled. Bedding @ 050°, 040°. Foliation at 060° to core axis.						
50.80	68.58	ARGILLITE: Dark grey to light grey, with fine calcareous laminations. Abundant pyrrhotite laminations @ 57.0, 58.0-58.8 interlaminated black carbon lenses.						
		61.0-61.02 - grey medium crystalline silty limestone.						
		64.05-64.07 - grey medium crystalline silty limestone.						
		68.0 - a few black carbon lenses and laminations present (possibly phosphorite). Bedding @ 040° to 050°.						
68.58	95.0	ARGILLITE: Distinctively blacker and more carbonaceous, less calcareous, few laminations of pyrite, pyrrhotite.						
		69.50-69.70 - 10% black carbon lenses (phosphorite?).						
		69.70 - bedding @ 045°.						
		74.64 - foliation @ 030°.						
		74.8 - abundant black carbon lenses, 2-3 cm thick.						
		77.6 - core becoming harder not evidently silty or siliceous.						
		78.9-80.46 - fault zone, drag folds. Core is massive with some folding, few large lumps of black carbon.						
		83.0 - broken core, graphitic schist, fault zone.						

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METERAGE		DESCRIPTION	ANALYSIS					
FROM	TO		SAMPLE	FROM	TO	Pb	Zn	Ag
68.58 - 95.0	continued	84.58 - broken black graphitic pyritic black carbonaceous argillite with siliceous bands of quartz @ 080° to core, traces of reddish brown sphalerite. Fault contact @ 055°.						
		84.58-85.30 - brecciated carbonaceous and graphitic argillite with quartz stringers with traces of fine reddish sphalerite.						
		85.2-85.3 - silicified breccia.						
		91.0-93.0 - Foliation 035°, bedding is very indistinct.						
		94.8 - white vein quartz.						
95.0 - 100.0		MUDSTONE: Black, carbonaceous, core broken and faulted. Few grey white quartz carbonate laminations @ 055°.						
100.0-102.0		ARGILLITE: Dark grey to light grey, with white siliceous laminations, core is almost a grey phyllite.						
102.0-129.0		ARGILLITE: Dark to light grey, phyllitic, non-calcareous, abundant white calcareous quartz laminae in sections up to 60% (ptygmatic folding). Few pyrite, pyrrhotite laminations. Bedding @ 045°.						
		116.8-117.0 - 50% fine white quartz laminations.						
		118.6-118.7 - white-grey quartz vein @ 050° to core axis. Foliation 035°, bedding 035°.						
		120.0 - becoming lighter grey in colour, calcareous quartz laminae, foliation @ 045°.						
		124.0-125.0 - abundant calcareous quartz laminae, 2-3 cm band of grey limestone, bedding @ 025°.						

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METERAGE		DESCRIPTION	ANALYSIS					
FROM	TO		SAMPLE	FROM	TO	Pb	Zn	Ag
129.0	235.9	To 176.0 generally less calcareous, foliation and bedding @ 035°.						
continued		176.0-185.0 - generally more calcareous. @ 176.0 foliation @ 050° due to increase of grey silty carbonate laminations and quartz-carbonate laminations and lenses.						
		185.2-185.5 - 90% grey silty carbonate, bedding 035°.						
		194.2-194.4 - grey medium crystalline limestone, bedding 030°.						
		195.4-196.4 - 60% grey thin banded silty limestone, bedding 025°. A few thin biotite porphyroblasts in thin bands, no sulphides.						
		197.0-201.0 - 20% white calcareous quartz laminae and layers.						
		202.0 - bedding @ 025°.						
		202.8-205.5 - 20-30% grey silty carbonate, bedding 040° to calcareous medium grained grey sandstone. At 204.0 bedding 050°.						
		205.5-206.3 - grey silty carbonate to grey calcareous medium grained sandstone.						
		208.4-209.3 - white vein quartz @ 020°, foliation 090°.						
		210.8-211.5 - white vein quartz cuts core at 10°-20°.						
		214.0-215.0 - 30% white quartz, calcareous laminations with abundant grey silty carbonate, foliation @ 040°.						
		215.0-216.0 - 30% grey siltstone calcareous medium grained, thin laminations and thin detached lenses, foliation @ 030°.						

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METERAGE		DESCRIPTION	ANALYSIS					
FROM	TO		SAMPLE	FROM	TO	Pb	Zn	Ag
129.0	235.9	continued						
		217.0 - laminations are crenulated some small boudins developed, very phyllitic.						
		218.0 - bedding 075°.						
		219.0-220.0 - All interlaminated phyllitic dark grey argillite and grey silty carbonate.						
		221.0 - foliation 010°. Crenulated laminations; direction of crenulations normal to foliation.						
		224.5 - foliation 040°.						
		227.0 - foliation 050°.						
		228.0 - laminations crenulated, foliation 020°.						
		230.0 - dark grey argillite, calcareous, in part phyllitic; bedding 050°, 040°.						
235.9	260.6	ARGILLITE: dark grey, calcareous, in part phyllitic with foliation parallel to laminations of grey silty carbonate and quartz calcareous laminations and lenses (sweats). At 214.0 025°; 244.0 030°; 245.0 030°; 248.0 025°; 252.0 040°; 256.0 030°; 260.0 040°.						
260.6	268.3	ARGILLITE: Grey-dark to light in part phyllitic. 160.6 - a few thin black carbon lenses, traces of pyrite. 262.0 - bedding @ 030°. 264.0 - bedding @ 040°. 262.14-264.20 - light greenish tuff, phyllitic to almost schistose, beginning a few and lenses of pyrrhotite.						

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METERAGE		DESCRIPTION	ANALYSIS					
FROM	TO		SAMPLE	FROM	TO	Pb	Zn	Ag
260.6 - 268.3 continued		266.0 - bedding @ 080°.						
		266.7-268.0 - phyllitic to schistose, foliation 020°-080°.						
268.3 - 268.5		TUFF: light grey olive, fine grained schistose.						
268.5 - 289.0		ARGILLITE: Dark grey phyllitic, in part calcareous due to interlamination of silty grey carbonate (primary) and grey-white quartz-carbonate laminations (secondary sweats).						
		269.0 - bedding 025°.						
		269.7-270.1 - phyllitic with interfoliation of olive green phyllitic to schistose tuffs. Throughout the section occasional wispy pyrrhotite/pyrite.						
		269.0-273.0 - core is schistose, sulphide (pyrite) occurs in late fractures or parallel to foliation, foliation 090° to 020°.						
		273.5-275.0 - non-calcareous phyllitic argillite.						
		276.6-276.8 - white quartz vein.						
		277.6-278.0 - very calcareous.						
		281.0-289.0 - very calcareous. At 281.0 foliation 090°-045°.						
		284.0 - broken core, gougey material, crumpled foliation - 075°.						
		287.5 - thin laminations of black carbon, bedding 050°.						
289.0 - 298.25		ARGILLITE: Dark grey, interlaminated quartz calcareous and a few wisps of light grey silty carbonate, bedding at 290.0 - 030°.						

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METERAGE		DESCRIPTION	ANALYSIS					
FROM	TO		SAMPLE	FROM	TO	Pb	Zn	Ag
289.0 - 298.25 continued		291.0 - increasingly calcareous to very calcareous. Foliation 050°; at 294.0 bedding and foliation 035°; at 297.0 bedding 040°.						
		297.46-298.25 - distinctive black argillite to carbonaceous mudstone.						
298.25 - 298.5		<u>SANDSTONE</u> : Grey fine grained calcareous sandstone upper contact is sheared with graphite, bedding 030°.						
298.5 - 299.5		<u>MUDSTONE</u> : Black, dense with calcareous sandstone sections and detached lumps.						
299.5 - 319.4		<u>ARGILLITE</u> : Dark grey with inter laminations of grey silty carbonate, core is generally calcareous.						
		299.0-301.0 - broken and fractured core.						
		301.5 - scattered pyrrhotite, section is phyllitic to schistose, foliation 030°.						
		303.4 - broken core.						
		305.0 - foliation 050°.						
		307.0 - a 10 cm band (lump) of grey-green phyllite (tuff?). Core is generally phyllitic. Few small lenses of pyrrhotite, foliation 050°.						
		308.0 - few small lumps of black carbon, foliation 035°.						
		310.0 - few small lumps of black carbon, foliation 040°; bedding and foliation is 030°.						
		314.0-319.0 - broken and crushed core.						
		319.0-319.4 - gouge and fine broken core. Core is generally phyllitic, fault contact @ 030° to core axis.						

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METERAGE		DESCRIPTION	ANALYSIS					
FROM	TO		SAMPLE	FROM	TO	Pb	Zn	Ag
319.4	324.17	<p><u>ARGILLITE</u>: Light grey, phyllitic, calcareous, small amount of pyrrhotite, some silty carbonate (grey, laminated).</p> <p>321.1-321.3 - small black carbon knots and lenses; foliation at 321.0 - 025°.</p>						
324.17	325.0	<p><u>SILTSTONE</u>: Black distinctive colour change. Bedding at 324.17 is 030°. Very thin laminations, 10-15% pyrrhotite in thin laminations and lenses, non-calcareous.</p> <p>324.0-324.10 - black argillite.</p>						
325.0	327.1	<p><u>ARGILLITE</u>: Black to very dark grey, 5% pyrrhotite as laminations, non-calcareous; bedding at 325.0 is 035°.</p>						
327.1	349.0	<p><u>ARGILLITE</u>: Dark grey, calcareous, minor to trace pyrrhotite phyllitic. Bedding: 327.0-030°; 330.0-025°; 332.0-030°; 335.0-030°; 339.0-030°; 343.0-030°.</p> <p>342.65-342.69 - grey-black thin laminated siltstone. At 342.5 few biotite porphyroblasts showing up, random clots of pyrrhotite to 1 cm thick.</p> <p>345.5-346.0 - crenulation folding @ 050°-060° to core axis, again at 348.5 to 349.0.</p>						
349.0	351.8	<p><u>QUARTZ VEIN</u>: White dense, calcareous, few grey phyllitic fragments, contacts irregular @ 050°. Foliation at 355.0-020°; 358.0-030°.</p>						
351.8	398.4	<p><u>ARGILLITE</u>: Dark grey, phyllitic, generally calcareous.</p> <p>352.0 - biotite porphyroblasts showing up, minor pyrrhotite.</p> <p>360.5-361.0 - crenulation folding @ 090° to core axis.</p> <p>363.0 - foliation at 060°.</p>						

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METERAGE		DESCRIPTION	ANALYSIS							
FROM	TO		SAMPLE	FROM	TO	Pb	Zn	Ag		
448.0 - 465.6	continued	461.0-461.5 - few more phyllitic shreds and greenish phyllite (tuff)?, few black carbon clasts in the argillite.								
465.6 - 466.0		MUDSTONE: Very carbonaceous, black with abundant black carbon nodules and lenses. Foliation at 465.0 - 025°.								
466.0 - 476.9		ARGILLITE: Black to dark grey, phyllitic, biotite porphyroblasts, very calcareous due to interlaminae of white quartz calcite laminations, minor grey calcareous siltstone. 468.0 - a lump of grey calcareous sandstone. Bedding and foliation 015°. 470.0 - Foliation @ 020°.								
476.9 - 520.1		ARGILLITE: Black to dark grey, partly calcareous, phyllitic biotite porphyroblasts, little pyrrhotite, few knots and nodules of black carbon to 2.0 cm diameter, a few very calcareous sections. 473.45-473.49 - grey medium crystalline marble. Core has appearance of disturbed rolled lithologies; few detached lumps of grey calcareous sandstone and silty grey fine grained marble. Foliation at 090°. 478.7-478.8 - greenish schist with very coarse biotite (3 mm diameter), a 5 cm lense @ 479.0. All core with scattered biotite porphyroblasts, trace pyrrhotite. Bedding at 478.0 - 010°, foliation at 479.0 - 010°. Foliation at 480.0 - 025°; 481.0 - 030°. 484.7 - small infold of grey medium crystalline marble. Foliation at 485.0 - 020°; 486.0 - 030°; 488.0 - 020°. 492.8 - Graphitic slip @ 030°. Core is still biotitic with variable calcareous. Foliation at 492.0 - 090°.								

DRILL HOLE RECORD

COMINCO LTD.

Property: DUNCAN LAKE

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METERAGE		DESCRIPTION	ANALYSIS					
FROM	TO		SAMPLE	FROM	TO	Pb	Zn	Ag
525.9	533.6	<p>ARGILLITE: Dark grey to black; thinly bedded argillite and light grey mudstone with black graphitic carbon rich laminations parallel to bedding. Slightly silicified and non-calcareous. Laminations are strongly crenulated with some minor quartz cross-cutting veins and sweats. Disseminated pyrite throughout. Bedding 60° at 526.0.</p> <p>527.7 - Tight isoclinal fold, core to axis angle equal to 10°.</p> <p>528.4 - Strongly crenulated and tightly micro-folded with 4-10 cm healed fracture zones.</p> <p>529.7-530.1 - 3-5 mm enechelon quartz veins at 90° to core.</p> <p>530.1-530.8 - Well banded and crenulated. Black, carbonaceous.</p> <p>530.8-532.0 - Strongly contored and crenulated black argillite with grey mudstone laminations at 531 m; 20 cm of quartz sweats and cross-cutting veinlets.</p> <p>532.0-532.25 - MUDSTONE: Grey, crenulated.</p> <p>532.25-534.15 - ARGILLITE: Black carbon rich argillite, well laminated with increased pyrite and pyrrhotite in blebs and 1-2 mm lams. Quartz veins and sweats 1mm to 15 mm wide both cross-cutting and foliation parallel.</p>						
533.6	533.9	<p>FAULT_ZONE: Black carbon rich sheared fracture zone with quartz pods and veinlets in core rubble.</p>						
522.9	536.4	<p>ARGILLITE: Black, dark grey, banded minor pyrite in disseminated flecks and 1-2 mm bands.</p> <p>534.7-535.9 - Black carbon rich argillite with numerous 0.3-1.5 cm quartz sweats and pods cross-cutting and parallel to bedding. At 534.95 galena fleck with pyrite in quartz sweat.</p> <p>535.9-536.4 - Strongly crenulated and folded.</p>						

DRILL HOLE RECORD

COMINCO LTD.

Property: DUNCAN LAKE

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METERAGE		DESCRIPTION	ANALYSIS					
FROM	TO		SAMPLE	FROM	TO	Pb	Zn	Ag
536.4	539.6	<p>FAULT ZONE: Healed fault breccia. Breccia of argillite and quartz 0.1 to 1 cm. Strongly contorted and resilicified with 30% quartz veinlets, pods and breccia, very carbon rich and sooty to touch.</p> <p>538.2-538.9 - Crushed carbon rich fault gouge with quartz pods and sweats. Crushed and rolled throughout. Soft and crumbly, shiny graphite on carbon shear planes.</p> <p>538.9-539.6 - Quartz veins and sweats 1-2 cm wide in silicified carbon rich crush zone.</p>						
539.6	602.68	<p>SILICA ROCK: Light grey, well banded, very hard silica rock with some silicified mudstone bands 1 cm wide and some minor 0.5-1 cm wide marblized calcite bands containing pyrite in blebs and small stringers parallel to foliation.</p> <p>541.6-542.4 - pyrite equal to $\pm 1\%$. Foliation 60° at 541.0; 50° at 542.0.</p> <p>544.0 - Foliation at 50°.</p> <p>545.1; 546.02; 548.9 - Carbon filled fractures 1 mm wide.</p> <p>545.4; 547.8; 547.9 - Jointing at 80°.</p> <p>548.9-560.4 - Medium grey; very hard, banded and mottled with light grey/cream silica rods throughout. Minor pyrite in foliated parallel bands and blebs. Foliation at 551.0 - 30°, 552.3 - 35°, 554.25 - 35°. At 555.4 calcite white crystalline laminations 2-6 mm wide every 10-20 cm. Minor pyrite in disseminated blebs and 1 mm stringers.</p> <p>560.5 - 80° joint.</p> <p>561.8 - 10° joint.</p> <p>Foliation at 562.4 - 55°.</p>						

DRILL HOLE RECORD

COMINCO LTD.

Property: DUNCAN LAKE

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METERAGE		DESCRIPTION	ANALYSIS					
FROM	TO		SAMPLE	FROM	TO	Pb%	Zn%	Ag
602.28	603.48	<u>QUARTZ:</u> Pure milky white coarse crystalline bull quartz. 602.28 - 10 cm of pure white quartz with pods and stringers of coarse grained honey coloured and dark brown sphalerite. 602.7 - Coarse grained sphalerite pod 2 cm in diameter. 603.12 - 1 cm band of disseminated and blebby pyrite.						
603.48	604.77	<u>MASSIVE SULPHIDE:</u> Massive fine grained euhedral and subhedral pyrite with very, very fine grained galena. Disseminated moss green subhedral sphalerite throughout. Small calcite pods (1-5 mm) scattered throughout sulphide. Massive sulphide equal to 80-90% of section. Host rock appears to be silica rock.	603.48	604.00	604.00	4.62	11.42	
			604.00	605.00	605.00	1.34	13.86	
604.77	607.60	<u>SILICA ROCK:</u> Grey well banded and mottled with small cream coloured chert mottles rodded normal to foliation. Disseminated pyrite and bands with honey coloured and dark brown sphalerite. Sulphide bands are 2-6 mm throughout section and equal to ±8% of section. Foliation at 605.4 - 35°. 606.0-607.6 - Foliation 30° at 607.2. Increased pyrite and sphalerite to sulphides equal to +10-12% with increased calcite in 2-4 mm bands. Sphalerite ratio to pyrite increased. Pyrite is generally banded to foliation.	605.00	606.00	606.00	.55	7.95	
			606.00	607.00	607.00	.46	4.68	
607.60	612.42	<u>LIMESTONE:</u> Light grey, fine grained, banded with small 1-2 mm bands of dark grey limestone. White calcite bands (1-4 mm) and blebs throughout. 607.6 - Foliation instantly goes parallel to core at 0°. Pyritic blebs and bands parallel to foliation with sphalerite bands (1-2 mm) scattered throughout at low intervals. Sulphide bands 1-4 mm wide and wispy, mottled and blebby. Sphalerite is honey coloured and disseminated.	607.00	608.00	608.00	.13	3.36	
			608.00	609.00	609.00	.17	2.65	
			609.00	610.00	610.00	.03	.62	
			610.00	611.00	611.00	.001	.01	
			611.00	612.00	612.00	.03	.32	

DRILL HOLE RECORD

COMINCO LTD.

Property: DUNCAN LAKE

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METERAGE		DESCRIPTION	ANALYSIS					
FROM	TO		SAMPLE	FROM	TO	Pb%	Zn%	Ag
607.60-612.42	continued	610.3 - Dolomite breccia zone 10 cm wide. Brecciation equal to 1-5 mm diameter. Some small 1-3 cm dolomite laminations. Section is 90% limestone.						
		610.6 - Limestone continues.						
		610.82 - Limestone, grey mottled and contorted. Foliation unreadable. Blebs 0.1-1 cm of calcite with pyrite stringers and disseminated crystals in calcite blebs and bands.						
		611.2 - Minor 1-4 mm bands of sericite. Pyrite is wispy and has only trace visible sphalerite.						
612.42-612.75		MARBLE: Pure white coarse crystalline marble with disseminated pyrite in blebs and crystals. Trace honey coloured subhedral sphalerite.		612.00	613.00	.02	.43	
612.75-615.80		LIMESTONE: Light and medium grey mottled. Medium fine grained. Strongly calcareous; foliation unreadable, some cross-cutting 1-2 mm calcite veinlets with minor pyrite and some minor 1-4 mm sericitic bands.		613.00	614.00	.03	.92	
				614.00	615.00	.004	.12	
615.80-619.95		DOLOMITE: Grey mottled and bleby, medium fine grained with calcite cross-cutting veinlets and bands parallel to foliation. Stringer pyrite and sphalerite comprising 6-8% of core in stringers 1-4 mm wide from 615.80-619.30.		615.00	616.00	.01	.73	
				616.00	617.00	.04	2.96	
				617.00	618.00	.06	2.19	
				618.00	618.50	.003	.03	
		619.30-619.95 - Dolomite; grey uniform, massive with very, very minor disseminated euhedral pyrite.						
619.95-620.84		GREEN PHYLLITE: Dark green; soft, non-calcareous with minor 1 mm bands of euhedral pyrite strongly crenulated with 1 cm wave length normal to core. Fine grained platy white mica parallel to crenulations.						
620.84-622.45		DOLOMITE: Mottled grey and cream with 1-4 mm wispy bands of green phyllite throughout section, otherwise uniform and unfractured. Occasional bleb of pyrite. Very fine grained and buttery to scratch. Foliation 30° at 621.3.						

DRILL HOLE RECORD

COMINCO LTD.

Property: DUNCAN LAKE

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METERAGE		DESCRIPTION	ANALYSIS					
FROM	TO		SAMPLE	FROM	TO	Pb	Zn	Ag
670.00	670.15	QUARTZITE: Light grey; arenaceous, medium grained, non-calcareous, uniform.						
670.15	670.38	FAULT ZONE: Soft, white creamy mush, calcareous with sericitic bands at either end with bleached quartzite. No sense of displacement.						
670.38	671.90	QUARTZITE: Dark grey, banded; bedding 0° at fault zone to 671.6 then tapering to 25° at 672.0 m. Pyrite parallel to 1% in bands parallel to bedding.						
671.90	677.78	QUARTZ MICA SCHIST: Contact gradational over 0.2 m. Olive green to cream/grey, fine grained and micaceous. Very small euhedral pyrite flecks throughout. Thin bedded (1-2 mm), good clean planar schistosity parallel to foliation. Foliation and bedding are parallel. Minor 3-6 mm bands of quartzite (light grey) throughout section. A very uniform unit. Bedding 25° at 672.0; 50° at 674.4; 45° at 675.0; 40° at 675.40; 30° at 676.40; 30° at 677.0; 30° at 677.80.						
677.78	682.16	QUARTZITE (SCHISTOSE): Contact gradational; dark grey medium fine grained, thin bedded with 1-3 mm beds of quartz mica schist. Very uniform, minor pyrite crystals and blebs. 678.0 - Carbon rich shear zone parallel to bedding 4 mm wide. Section is schistose; very planar but distinctly more quartzite than section above. 681.0-682.16 - Quartzite but increasing to olive green quartz mica schist at 682.16. Bedding 30° at 678.35; 30° at 679.2; 25° at 679.5; 15° at 679.9; 0° at 680.0; 15° at 680.4; 20° at 680.6; 30° at 682.0.						
682.16	687.95	DOLOMITE: Contact sharp light grey medium grained crystalline. Massive and blocky with 1-4 cm. Breccia zones consisting of 1-4 mm clasts. Very minor pyrite blebs and stringers. Non-calcareous, some 0.5 mm carbon stringers giving block appearance.						
687.95	691.18	LIMESTONE: Marbled light grey; medium grained, very pure grainy limestone, very uniform and clean; good bedding displayed throughout.						

DRILL HOLE RECORD

COMINCO LTD.

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METERAGE		DESCRIPTION	ANALYSIS					
FROM	TO		SAMPLE	FROM	TO	Pb	Zn	Ag
691.18	692.80	<p><u>QUARTZ MICA PHYLLITE</u>: Dark grey with some 3 cm bands olive green quartz mica phyllite at top 0.4 m of section. Non-calcareous except in odd wisps. Slightly crenulated. Bedding 30° at 691.48; 20° at 691.4; 0° at 691.8.</p> <p>692.8 - 0.2 m zone with white mica parallel to foliation, some minor disseminated pyrite.</p>						
692.80	695.41	<p><u>LIMESTONE</u>: Marblized light grey, medium grained, well banded; distinct bedding. Very pure and clean. Very, very minor euhedral pyrite crystals. Strongly calcareous. Bedding 0° at 692.8; 10° at 692.99; 20° at 693.3; 35° at 694.3.</p>						
695.41	696.00	<p><u>DOLOMITE</u>: Grey, fine grained, uniform, massive and blocky appearing. Bedding 60° at 696.6.</p>						
696.00	706.90	<p><u>LIMESTONE</u>: Marblized; light grey. Medium grained, well banded; distinct bedding. Very pure and clean. Strongly calcareous. Bedding 60° at 696.6; 90° at 696.84; 50° at 697.5; 45° at 699.0; 40° at 700.0; 40° at 701.0; 40° at 702.0; 30° at 703.0; 35° at 705.0; 40° at 706.0.</p>						
706.90	714.93	<p><u>QUARTZITE (SCHISTOSE)</u>: Medium grey thinly banded; well developed with some minor olive grey bands; mildly calcareous in spots. Good planar schistosity; pyrite blebs in fractures (minor) and small euhedral pyrite in 0.5 mm bands (scattered). A very clean and consistent relatively unfractured unit. Some sections have a limy matrix; others are non-calcareous. Bedding 40° at 707.0.</p>						
714.93		END OF HOLE						

COMINCO LTD. EXPLORATION

SPERRY SUN READINGS

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<u>DOWN DEPTH (m)</u>	<u>DIP READ</u>	<u>ASIMUTH READING</u>	<u>DIP TRUE</u>	<u>ASIMUTH TRUE</u>	<u>HORIZONTAL COMPONENT</u>	<u>VERTICAL COMPONENT</u>
92.96	32°	SW 39°	58°	240°	51.98	78.83
182.90	31°	NE 10°	59°	---	94.25	156.77
282.0	33°	SW 41°	57°	242°	148.71	236.50
379.0	33°	SW 46°	57°	247°	206.41	317.85
474.0	33.5°	SW 46°	56.5°	247°	258.15	397.52
596.0	33°	SW 47°	57°	248°	324.60	499.84
699.0	33°	SW 51°	57°	250°	375.82	586.23
714.93	--	--	--	--	389.37	599.59 EOH

APPENDIX D

DIAMOND DRILL HOLE GEOCHEMICAL & ASSAY DATA

DUNCAN LAKE - ND

JOB = V 89-0140R

REPORT DATE 13 JUN 1989

LAB NO	FIELD NUMBER	DRILL INTERVAL		Ag	Zn	Pb	Zn(1)	Pb(1)
		FROM (METRES)	TO	PPM	PPM	PPM	%	%
R8904784	89-5	541.93	542.93	.8	8900	894		
R8904785	89-5	542.93	543.93	5.5	E19450	E16100	2.06	1.60
R8904786	89-5	543.93	544.93	6.4	E26750	1560	2.65	
R8904787	89-5	544.93	545.35	.6	E44350	6980	4.55	
R8904788	89-5	545.35	546.35	1.7	E15050	E18900	1.53	1.90
R8904789	89-5	546.35	547.25	6.4	1170	1430		
R8904790	89-5	547.25	548.25	6.4	399	110		
R8904791	89-5	548.25	549.00	6.4	411	45		
R8904792	89-5	549.00	550.00	6.4	298	63		
R8904793	89-5	550.00	551.10	6.4	428	98		
R8904794	89-5	551.10	552.00	6.4	E27050	8830	2.65	
R8904795	89-5	552.00	553.00	.5	E22300	E14900	2.38	1.60
R8904796	89-5	553.00	554.00	1.6	E40800	E38600	4.30	3.93
R8904797	89-5	554.00	555.00	3.5	E32600	E60000	3.75	6.12
R8904798	89-5	555.00	556.00	6	E99500	E62500	10.02	6.10
R8904799	89-5	561.00	562.00	2	E44250	E14200	4.40	1.45
R8904800	89-5	562.00	563.00	3.6	E31200	E20100	3.10	2.10
R8904801	89-5	563.00	564.00	.8	E20900	6810	2.05	
R8904802	89-5	564.00	565.23	2.8	E16500	8920	1.73	
R8904803	89-5	565.23	566.10	.9	9250	909		
R8904804	89-5	566.10	567.00	6.4	8950	914		
R8904805	89-5	567.00	568.00	6.4	E15750	2170	1.60	
R8904806	89-5	568.00	569.00	6.4	2340	404		
R8904807	89-5	569.00	570.50	6.4	8040	438		
R8904808	89-5	570.50	571.50	3.7	E42050	E26100	4.20	2.60
R8904809	89-5	571.50	572.00	2.4	E21400	E23200	2.00	2.53
R8904810	89-5	572.00	573.00	2.3	E36200	E21300	3.25	2.20
R8904811	89-5	556.00	557.00	4.1	E68000	E72500	5.90	6.40
R8904812	89-5	557.00	558.00	2.6	E69000	E54000	6.42	5.00
R8904813	89-5	558.00	559.00	3.2	E90500	E39050	9.00	3.60
R8904814	89-5	559.00	560.00	2	E106500	E16700	11.90	1.50
R8904815	89-5	560.00	561.00	3.8	E59500	E47150	5.40	3.80
R8904816	89-5	573.00	573.00	2.7	E49150	E35500	4.26	3.00
R8904817	89-5	573.00	574.50	.9	E19350	8660	1.75	
R8904818	89-5	574.50	575.50	1.1	E39000	7960	2.63	
R8904819	89-5	575.50	576.00	.4	E36600	2830	3.23	
R8904820	89-5	576.00	577.00	1.4	E46000	4870	8.30	
R8904821	89-5	577.00	577.00	1.5	E136000	3080	10.70	
R8904822	89-5	577.00	579.00	6.4	2005	225		
R8904823	89-5	608.50	609.50	6.4	E31150	4020	2.70	
R8904824	89-5	612.78	613.50	.8	E19050	4420	1.72	
R8904825	89-5	618.18	618.84	4.4	E13950	E14300	1.23	1.35
R8904826	89-5	631.00	632.00	.8	E37800	E27600	3.00	2.50
R8904827	89-5	632.00	633.00	6.4	E25450	5330	2.25	
R8904828	89-5	634.00	635.22	6.4	E37250	E21900	3.40	2.30
R8904829	89-5	643.90	644.85	2.1	E19450	E19000	1.70	1.80
R8904830	89-5	645.00	645.50	2.5	E39050	E28900	3.40	2.70
R8904831	89-5	666.00	667.10	6.4	E36000	1410	3.50	
R8904832	89-5	668.00	669.00	6.4	E29300	1260	2.75	

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

DUNCAN LAKE-WD

Job V 89-0149R
REPORT DATE 13 JUN 1989

LAB NO	FIELD NUMBER	DRILL INTERVAL		Ag	Pb	Zn
		FROM (METRES)	TO	PPM	PPM	PPM
R8905737	89-5	600.10	600.90	2.2	4050	8500
R8905738	89-5	629.00	630.00	.8	E21000	E11600
R8905739	89-5	630.00	631.00	<.4	1740	E17100
R8905740	89-5	665.00	666.00	<.4	697	9500
R8905741	89-5	667.00	668.00	<.4	297	E14800
R8905742	89-5	672.00	673.00	<.4	391	E16000
R8905743	89-5	679.00	680.00	<.4	1220	E14700
R8905744	89-5	680.40	681.40	.4	2310	E25800
R8905745	89-5	696.60	697.60	.4	2160	E11900
R8905746	89-5	699.10	700.00	1.4	E10300	E50500
R8905747	89-5	700.00	701.00	.5	3640	E31100
R8905748	89-5	701.00	702.00	2	3440	E38100
R8905749	89-5	702.00	703.40	2.5	1490	E15700
R8905750	89-5	798.60	799.10	.6	132	E12100

J=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

Ag AQUA REGIA DECOMPOSITION / AAS
Pb AQUA REGIA DECOMPOSITION / AAS
Zn AQUA REGIA DECOMPOSITION / AAS

APPENDIX E

EXPLORATION

WESTERN CANADA

IN THE MATTER OF THE B.C. MINERAL ACT AND IN THE MATTER OF DIAMOND DRILLING CARRIED OUT ON THE DUNCAN LAKE PROPERTIES LOCATED IN THE SLOCAN MINING DISTRICT OF THE PROVINCE OF BRITISH COLUMBIA

AFFIDAVIT

I, DUNHAM L. CRAIG, OF THE CITY OF VICTORIA, IN THE PROVINCE OF BRITISH COLUMBIA MAKE OATH AND SAY:

1. THAT I AM EMPLOYED AS AN ASSISTANT 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 A" TO THIS REPORT IS A TRUE COPY OF EXPENDITURE OF A DIAMOND DRILLING PROGRAM CARRIED OUT ON THE DUNCAN PROPERTY.
3. THAT THE SAID EXPENDITURES INCURRED BETWEEN THE 12th DAY OF APRIL AND THE 15th DAY OF JUNE, 1989 FOR THE PURPOSE OF MINERAL EXPLORATION ON THE ABOVE NOTED PROPERTY.


DUNHAM L. CRAIG, B.Sc.

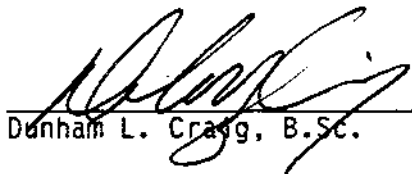
APPENDIX "F"

STATEMENT OF QUALIFICATIONS

I, Dunham L. Craig of the City of Victoria, British Columbia, hereby certify:

- ° THAT I am employed in British Columbia, with a business address at 700-409 Granville Street, Vancouver, B.C., V6C 1T2.
- ° THAT I graduated with a B.Sc. in geology from the University of British Columbia in 1988.
- ° THAT I have practised geology with Cominco Ltd. from 1988 to the present.

Dated this 30 day of June, 1989 at Vancouver, B.C.



Dunham L. Craig, B.Sc.

MUNCAN LAKE - WTI

CR-6

Job: V 89-02096
 REPORT DATE: 6 JUL 1967

LAB NO	FIELD NUMBER	DEPTH INTERVAL FROM (METRES) TO		Pb PPM	Zn PPM	Ag PPM	Zn(II) %	Pb(II) %
R8907445	C-89-6	602.40	603.48	415	E12300	.4	1.18	
R8907446	C-89-6	603.48	604.00	E43700	E122000	5.1	11.42	4.62
R8907447	C-89-6	604.00	605.00	E12100	E129000	1	13.86	1.34
R8907448	C-89-6	605.00	606.00	5440	E78100	.5	7.95	
R8907449	C-89-6	606.00	607.00	4670	E47200	1	4.68	
R8907450	C-89-6	607.00	608.00	1320	E34500	.4	3.36	
R8907451	C-89-6	608.00	609.00	1680	E26800	.9	2.65	
R8907452	C-89-6	609.00	610.00	360	6200	(.4		
R8907453	C-89-6	610.00	611.00	93	1340	(.4		
R8907454	C-89-6	611.00	612.00	323	3170	(.4		
R8907455	C-89-6	612.00	613.00	214	4320	(.4		
R8907456	C-89-6	613.00	614.00	348	7200	(.4		
R8907457	C-89-6	614.00	615.00	42	1180	(.4		
R8907458	C-89-6	615.00	616.00	165	7290	(.4		
R8907459	C-89-6	616.00	617.00	475	E31300	.4	2.96	
R8907460	C-89-6	617.00	618.00	640	E19700	(.4	2.14	
R8907461	C-89-6	634.50	635.00	63	2230	(.4		
R8907462	C-89-6	635.00	636.00	95	1370	(.4		
R8907463	C-89-6	640.50	641.00	86	8310	(.4		
R8907464	C-89-6	641.00	642.00	3870	E14600	.4	1.41	
R8907465	C-89-6	636.00	636.50	103	262	(.4		
R8907466	C-89-6	618.00	618.50	35	305	(.4		
R8907467	C-89-6	642.00	642.50	931	E13000	(.4	1.32	

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
- Ag: AQUA REGIA DECOMPOSITION - AAS
- Zn(II): ASSAY
- Pb(II): ASSAY

A 27A

MUNCAN LAKE - WNY

C89-5

JOB V 89-0184R
REPORT DATE 6 JUL 1989

LAB NO	FIELD NUMBER	DRILL INTERVAL		Zn PPM	Pb PPM	Ag PPM	Zn(1) %
		FROM (METRES)	TO				
R8906601	C89-5	607.00	608.00	E14500	7440	0.5	1.43
R8906602	C89-5	608.00	608.50	E12500	4230	0.4	1.35
R8906603	C89-5	609.50	611.00	9300	539	0.4	0.98
R8906604	C89-5	611.00	612.00	4450	2360	0.4	
R8906605	C89-5	612.00	612.78	7200	1990	0.4	
R8906606	C89-5	613.50	614.50	4020	710	0.4	
R8906607	C89-5	633.00	634.00	E10600	2580	0.4	1.05
R8906608	C89-5	635.22	636.00	1550	1600	0.4	
R8906609	C89-5	636.00	637.00	3160	1380	0.5	
R8906610	C89-5	642.00	643.00	2100	3530	0.4	
R8906611	C89-5	643.00	643.40	2060	598	0.8	
R8906612	C89-5	644.65	645.00	2730	306	0.4	
R8906613	C89-5	645.50	646.00	7160	3470	0.9	
R8906614	C89-5	669.00	670.00	E12800	901	0.4	1.30
R8906615	C89-5	670.00	671.00	7690	232	0.5	

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

ANALYTICAL METHODS

Zn AQUA REGIA DECOMPOSITION / AAS
Pb AQUA REGIA DECOMPOSITION / AAS
Ag AQUA REGIA DECOMPOSITION / AAS
Zn(1) ASSAY

DUNCAN LAKE-WD

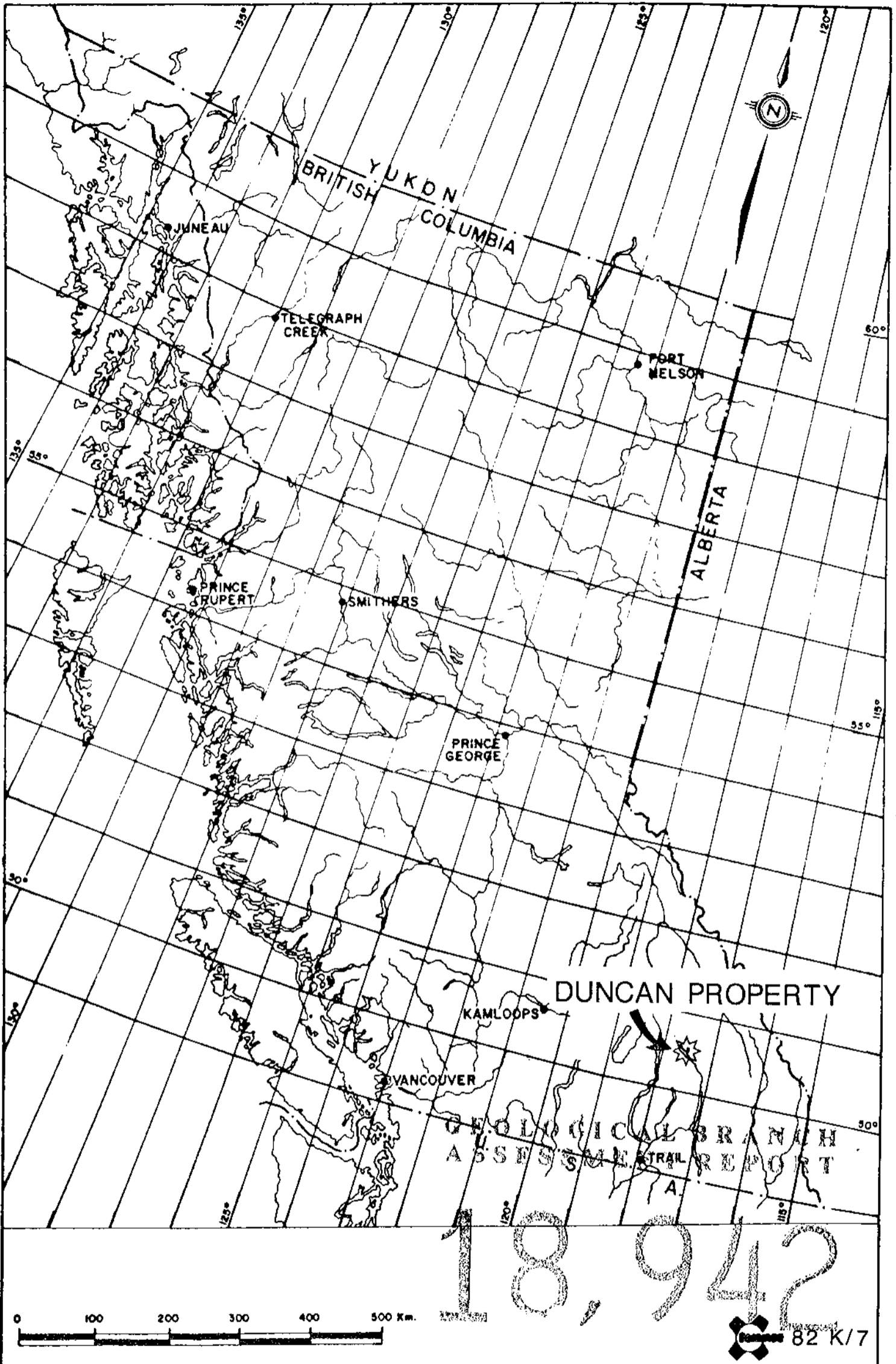
JOB V-89-0090R
REPORT DATE 23 MAY 1989

LAB NO	FIELD NUMBER	Ag PPM	Pb PPM	Zn PPM	Cu PPM	Ba(4) PPM	P205(4) PPM
R8903209	M89R1	1	10	391	66	534	5733
R8903210	M89P2	.8	17	526	98	176	E14100
R8903211	M89R3	.8	10	51	46	96	E187900

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

Ag AQUA REGIA DECOMPOSITION / AAS
Pb AQUA REGIA DECOMPOSITION / AAS
Zn AQUA REGIA DECOMPOSITION / AAS
Cu AQUA REGIA DECOMPOSITION / AAS
Ba(4) X-RAY FLUORESCENCE / PRESSED PELLETT
P205(4) X-RAY FLUORESCENCE / PRESSED PELLETT



Drawn by: D.L.C.		Traced by: d.m.a.	
Revised by	Date	Revised by	Date

DUNCAN PROPERTY Location Map

Scale: 1 : 6,370,000

Date: July 5, 1989

Plate:

942
10

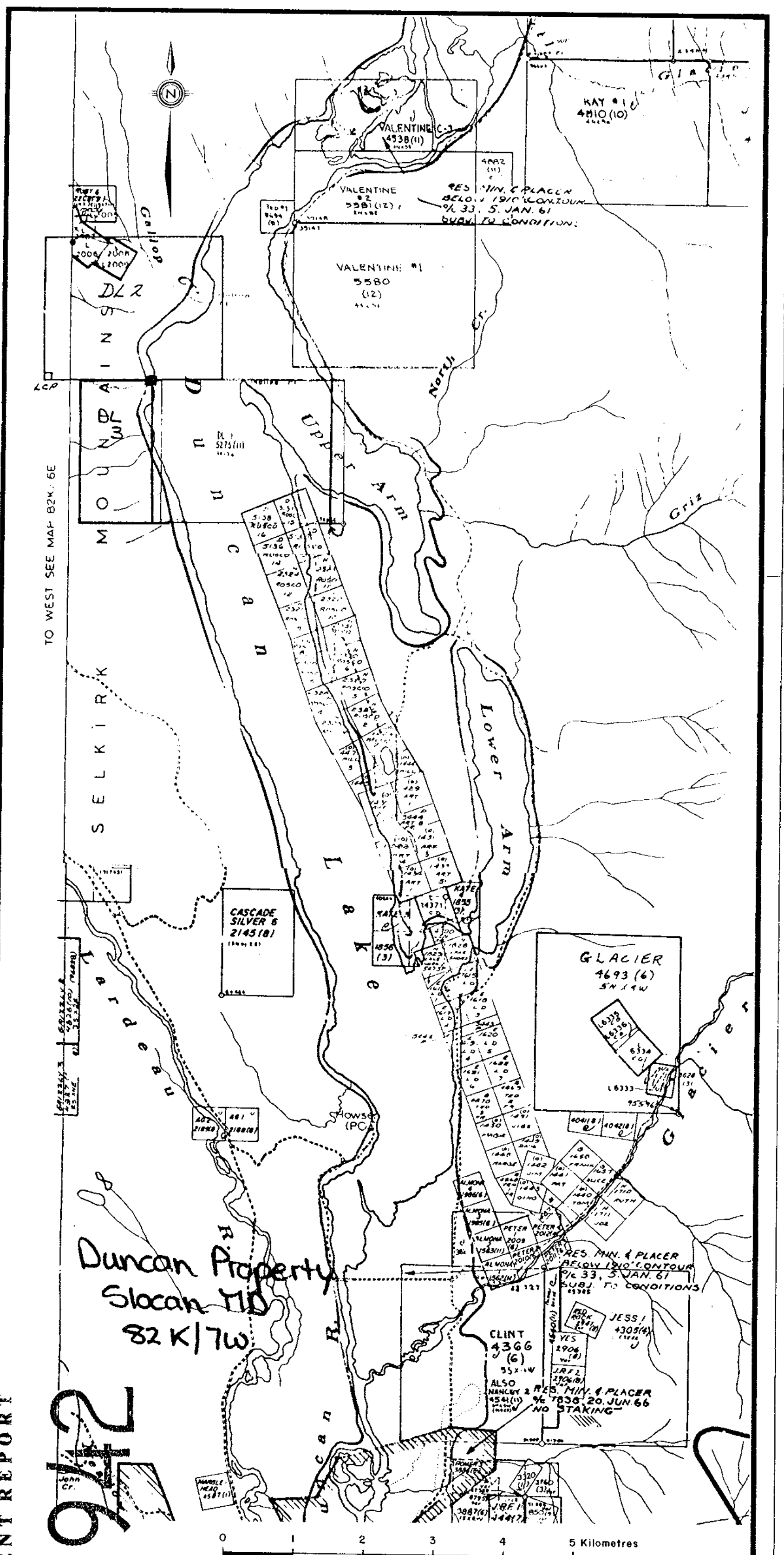
DUNCAN PROPERTY

82 K/7W

Drawn by:	D.L.C.	Traced by:	a.m.d.
Revised by:		Revised by:	

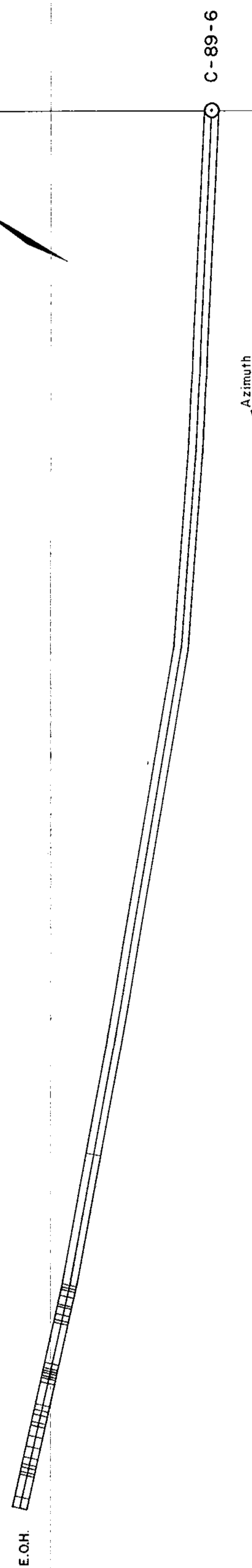
CLAIM MAP

Scale: 1 : 50,000 Date: July 4, 1989 Plate:

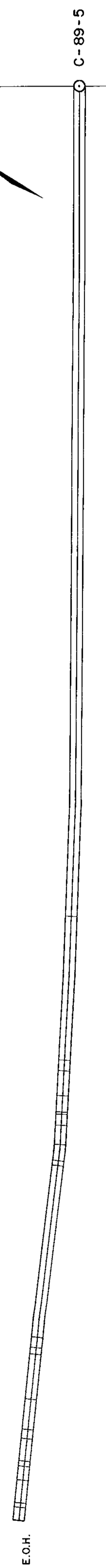


Duncan Property
Slocan ID
82 K/7W

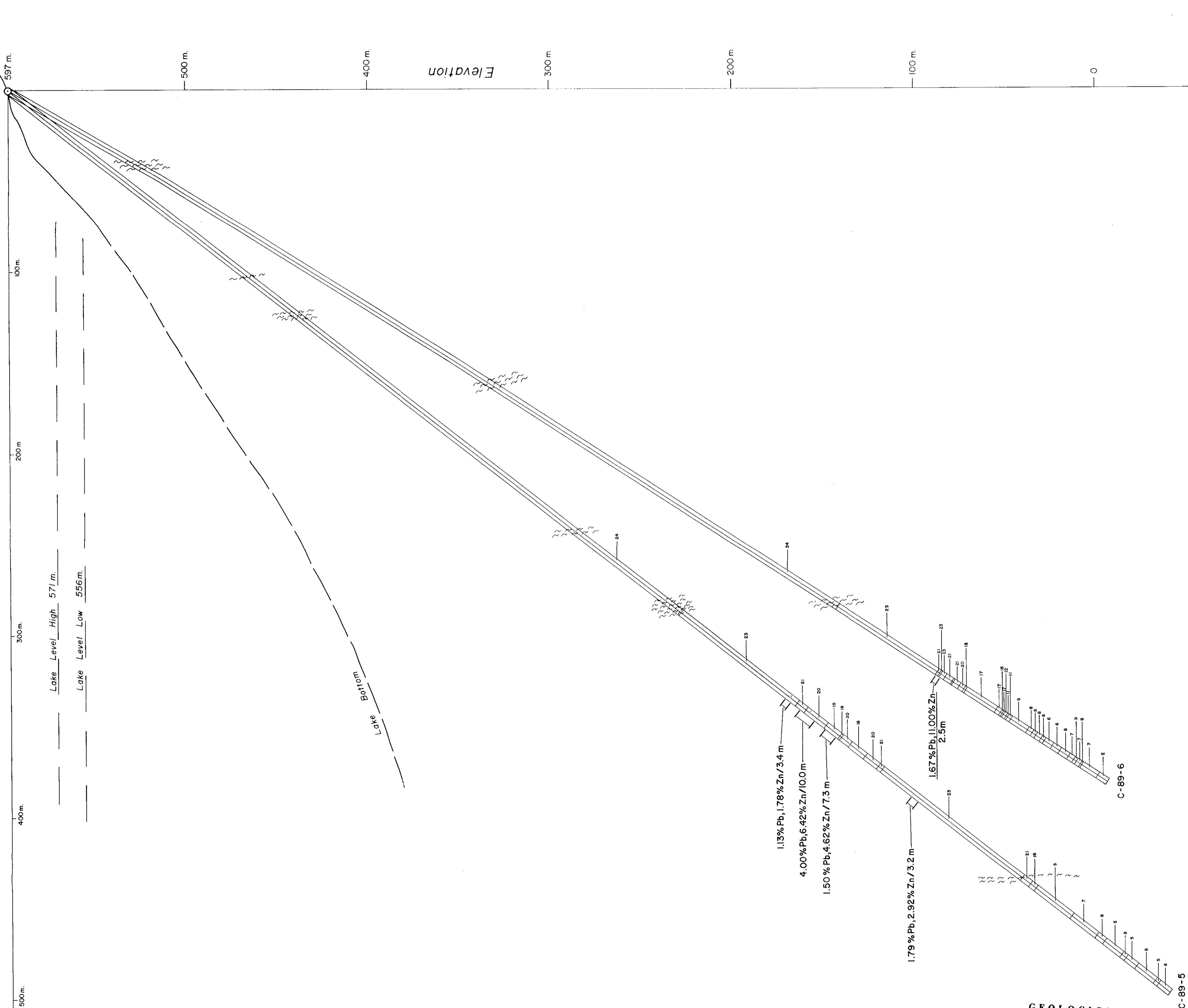
PLAN



PLAN



SECTION



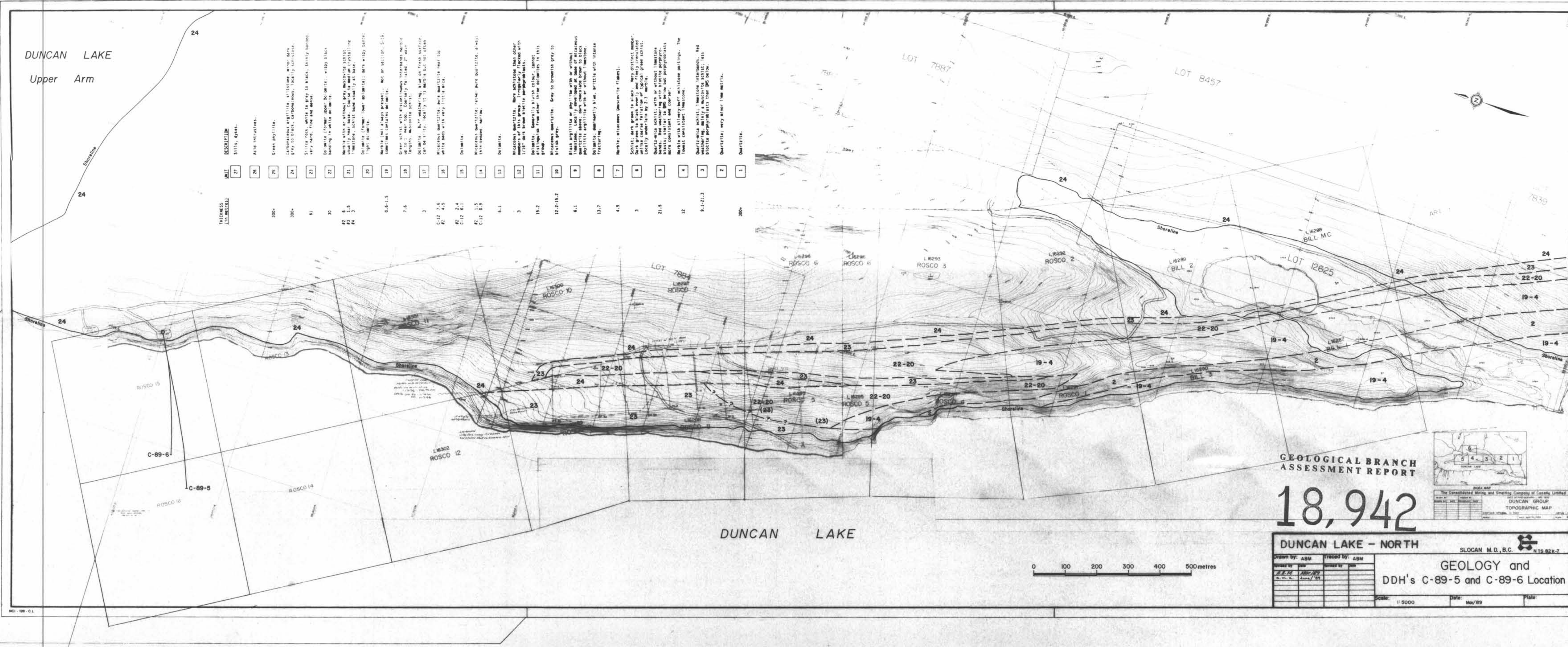
GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,942

DUNCAN LAKE NORTH		82 K/7	
Drawn by: D.L.C.	Traced by: a.m.a.	DDH SECTION THROUGH C-89-5 & C-89-6	
Revised by:	Revised by:	SLOCAN M.D., B.C.	
Scale: 1 : 1,000	Date: July 4, 1989	Plate:	

DUNCAN LAKE
Upper Arm

UNIT	DESCRIPTION	THICKNESS (IN METERS)
27	Sills, dykes.	
26	Acid intrusives.	
25	Green phyllite.	300+
24	Carbonaceous argillite, siltstone, minor dark grey to black, carbonaceous, locally schistose.	300+
23	Siltite rock, white to grey to black, thinly bedded, very hard, fine and dense.	61
22	Dolomite (former upper dolomite); wispy black banding in white dolomite.	30
21	Matrix with or without grey micaceous schist; limestone, schist band locally at base.	#2 6 #1 5 #4 3
20	Dolomite (former lower dolomite); dark wispy bands; light dolomite.	
19	Matrix (not always present); met on section 5-15; sometimes contains dolomite.	0.6-1.5
18	Green schist with discontinuous interbedded marble up to 2' near top. Coarsely foliated, 2' near top. Micaceous schist.	7-6
17	Dolomite, buff weathering, blue on fresh surface, can be silty, locally it is marble but not often.	3
16	Micaceous quartzite, pure quartzite near top; white beds with very little matrix.	C-12 2.6 #2 4.5
15	Dolomite.	#2 2.4 C-12 6.1
14	Micaceous quartzite, rather pure quartzite, a few thin-bedded marble.	#2 1.5 C-12 0.9
13	Dolomite.	6-1
12	Micaceous quartzite, more schistose than other members of this group. Irregularly bedded with 1/16" dark brown biotite porphyroblasts.	3
11	Dolomite, generally bluish colour, cannot distinguish from other three dolomites in this group.	15-2
10	Micaceous quartzite, grey to brownish grey to bluish grey.	12.2-15.2
9	Black phyllite or phyllite with or without limestone. Locally green bedded, some of micaceous quartzite above, dark chocolate brown to black phyllitic argillite with or without limestone.	6-1
8	Dolomite, somewhat blue, brittle with intense fracturing.	13.7
7	Marble; micaceous (micaceous filaments).	4-5
6	Schist; dark green to black, very distinct number; white mica foliation of typical green schist. Locally underlain by 2' marble.	3
5	Quartzite-mica schist; with or without limestone beds. Red weathering with biotite porphyroblasts. Higher up to 60' below but porphyroblasts are consistent and coarse.	21-5
4	Marble with silvery-grey, micaceous partings. The finest (finest limestone).	12
3	Quartzite-mica schist; limestone interbedded, red weathering, mainly a micaceous schist; less biotite porphyroblasts than unit 2 below.	9.1-21.3
2	Quartzite; very minor limestone matrix.	
1	Quartzite.	300+



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

18,942

DUNCAN LAKE - NORTH

SLOCAN M.D., B.C. NTS 82K-7

Drawn by: AGM	Traced by: AGM
Checked by: AGM	Reviewed by: AGM
Approved by: AGM	Date: July '89

**GEOLOGY and
DDH's C-89-5 and C-89-6 Location**

Scale: 1" = 5000 Date: Mar/89 Plate: