NINA JOINT VENTURE

1988 DIAMOND DRILLING PROGRAMME

OMINECA MINING DIVISION

NTS: 93N/15W

LAT: 55° 56'N; LONG: 124° 48'30"W

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,940

OPERATOR:

Lornex Mining Corporation Ltd
1650, 609 Granville Street
Vancouver BC
V7Y 1G5

OWNERS:

Lornex Mining Corporation Ltd/
Seguro Resources Limited

G R Cope, B Sc
September 1988

SUMMARY

The Nina property is located 260km northwest of Prince George, British Columbia. The original claim was located in 1985 over two sulphide-rich showings occurring within Pennsylvanian-Permian metavolcanics with minor interbedded argillaceous tuff. Subsequent work from 1985 to 1988 has included geological mapping and rock sampling, a soil geochemistry survey, a VLF-EM survey, an induced polarization survey and diamond drilling.

The sulphide showings occur as podiform lenses within a shear zone. Grab samples collected at the showings have yielded assays of up to 14.91% Cu with 0.60 g/t Au, 20.2 g/t Ag and 6.90 g/t Au with 146.5 g/t Ag. The geophysical surveys traced the shear zone to the northwest, the Cirque anomaly, and a recommendation was made to test the anomaly by diamond drilling. A second drill target, the Creek anomaly, was established at the north end of the grid based on a strong IP response.

Drill holes NN88-1 and NN88-2 effectively tested the Cirque anomaly. The geophysical responses are caused by disseminated sulphides within silicified and brecciated metabasalt. Samples collected from the mineralized zone yielded only weakly anomalous geochemical results. The Creek anomaly was not fully tested as overburden instability prevented completion of hole NN88-3. However, a clay horizon within the overburden is the probable source of the Creek anomaly.

Due to the lack of economic precious and base metal concentrations over significant widths, no further work is recommended on the Nina property.

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1.0 INTRODUCTION

A total of 224.3m of BGM wireline diamond drilling was conducted on the Nina property during the 1988 field season. The objective of the drilling programme was to test, at depth, two zones of high chargeability with coincident resistivity lows identified during the 1987 induced polarization survey.

2.0 LOCATION, ACCESS AND TITLE

The Nina property is located 260km northwest of Prince George, British Columbia on NTS map sheet 93N/15W and is centred at 55o 56'N latitude, 124o 48'30" W longitude. The property lies entirely within the Omineca mining division (figure 1).

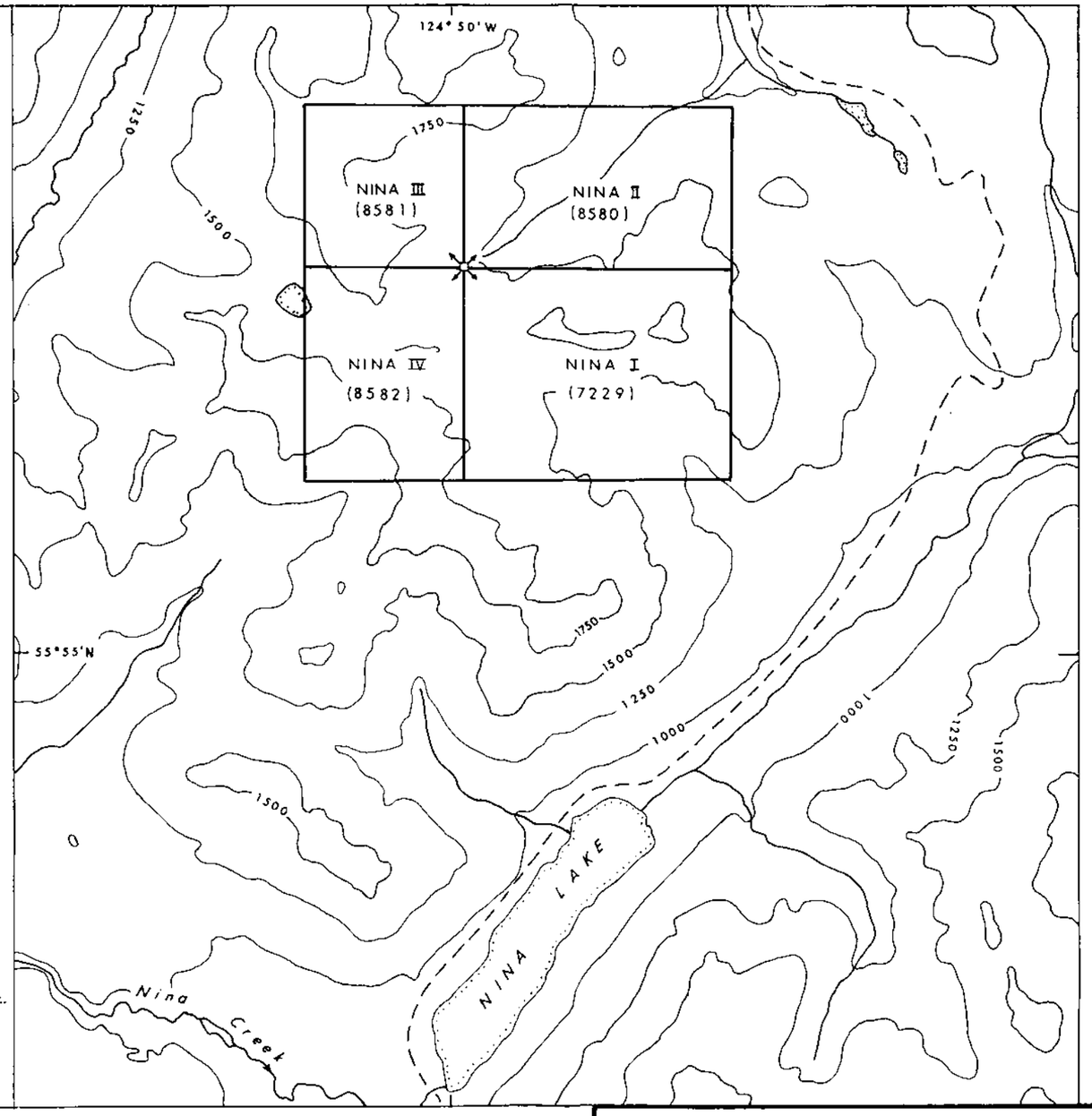
Access to the property is via helicopter from Smithers or Mackenzie, B C. An unmaintained mining road passes 2km northeast of the property and connects with the Omineca Mining Road near Germansen Landing.

The Nina Group, consisting of the Nina I to IV claims, is presently held jointly by Lornex Mining Corporation Ltd. and Seguro Resources Limited, by virtue of a joint venture agreement dated May 25, 1987. Lornex is the current operator on the property.

Claim information is summarized below:

Claim	Units	Record No:	Record Date	Expiry
Nina I	20	7229 (8)	August 20 1985	1991
Nina II	15	8580 (7)	July 27 1987	1991
Nina III	9	8581 (7)	July 27 1987	1991
Nina IV	12	8582 (7)	July 27 1987	1991
TOTAL	56 Units			

NOTE: Expiry date reflects two years of assessment work applied to Nina I and three years to each of Nina II, III and IV and is based on work represented, in part, by this report.



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LORNEX MINING CORPORATION LTD.		
NINA CLAIMS		
LOCATION MAP		
DATE	DRAWN BY	DWG.
SEPT. 1988.	R.M.C. / J.S.	FIG. 1

3.0 PREVIOUS WORK

Anaconda Canada Ltd sampled the Main Showing in 1982 and obtained anomalous copper and precious metal concentrations. The Nina I claim was staked by Rio Algom Exploration Inc in 1985 and subsequently transferred to Lornex Mining Corporation Ltd in 1986.

Geological mapping, rock sampling, a soil geochemistry survey and a VLF-EM survey were conducted during the 1985 and 1986 field seasons. In 1987, the Nina II to IV claims were added and 6km of induced polarization surveying were performed.

4.0 REGIONAL GEOLOGY

The Nina claims lie near the north end of the 150km long Pennsylvanian-Permian Nina Creek Belt. This fault-bounded belt is a homoclinal sequence comprising approximately 2000m of chert, pelite, limestone, gabbroic sills and 1500m of overlying basaltic flows and breccias, (Armstrong 1949; Monger and Paterson, 1974). To the west, the belt is bordered by the Triassic Takla Group and to the east, by Proterozoic crystalline rocks. Documented mineral prospects in the Nina Creek Belt consist mainly of Ag, Au, Pb, Zn, W showings around Manson Creek.

5.0 1988 EXPLORATION PROGRAMME

A total of 224.3m of BGM wireline diamond drilling in three holes from three setups was performed by Van Alphen Exploration Services of Smithers, British Columbia. A total of 18 core samples was collected and subsequently analyzed geochemically for gold and for 30 additional elements by inductively coupled plasma (ICP). Drilling was conducted over the period July 19, 1988 to August 4, 1988 and was supervised by M G Schatten and G R Cope of Lornex.

Drill core from the 1988 exploration programme is stored on the property near the collar of NN88-1.

Drill hole locations are shown in figure 2, drill sections are shown in figures 3 and 4. Drill logs and certificates of analysis are found in appendices II and III respectively.

The objective of the 1988 drilling programme was to test two zones of high chargeability with coincident resistivity lows outlined during the 1987 induced polarization survey. The first zone, the Cirque Anomaly, appears to represent a northwesterly extension of the sulphide-enriched Main and North showings. Two holes were drilled to test the Cirque Anomaly and are summarized below:

NN88-1	Latitude:	5+06N	Azimuth:	233°	Length: 89.91m
	Departure:	0+71W	Dip:	-52°	

NN88-1 was drilled entirely within grey-green, fine-grained, pyroxene porphyritic basalt to andesite. Five massive bull quartz veins with associated zoisite and actinolite were intersected between the bottom of the casing at 11.28m and 35.00m. Numerous gouge-filled fractures and extensive fault breccia were encountered between 43.00m and 73.00m. Between 73.00m and 78.00m the basalt is pervasively silicified and cut by up to 20%, white to dark grey quartz veins to 7mm. Pyrite, concentrated locally to 10%, occurs finely disseminated within the host basalt and as vein selvages. This interval (73.00m to 78.00m) is the probable source of the induced polarization anomaly. Geochemical results are summarized below:

Sample No:	From (m)	To (m)	Length (m)	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
6201	30.00	35.00	5.00	1	0.1	163	56	2
6202	36.00	37.00	1.00	1	0.1	30	45	9
6203	44.00	45.00	1.00	1	0.1	34	50	2
6204	72.50	74.50	2.00	25	1.2	66	109	37
6205	74.50	76.50	2.00	36	3.6	108	235	40
6206	76.50	78.50	2.00	42	2.1	98	159	39
6207	88.50	89.50	1.00	14	0.5	257	98	7

NN88-2 Latitude: 6+00N Azimuth: 230° Length: 107.87m
Departure: 0+75W Dip: -50°

NN88-2 encountered laminated, cherty, pale grey-green to dark grey-green tuff between the bottom of the casing at 8.23m and 21.35m. Between 21.35m and 32.92m, the tuff becomes massive. Both of the tuff intervals exhibit strong, pervasive silicification. Between 32.92m and the bottom of the hole at 107.87m, dark grey-green, fine-grained, pyroxene porphyritic basalt to andesite was intersected.

Numerous intervals to 5m of fault breccia occur between 50.00m and 94.00m. The fault breccia typically consists of silicified clasts to 3cm in a clay-altered matrix. Between 93.00m and 105.00m, trace pyrite occurs finely disseminated along fracture surfaces. This pyritic interval is a possible source of the induced polarization anomaly. Although the pyrite content is too low to generate a strong chargeability anomaly, the survey results on line 6+00N may be reflecting an increase in pyrite content towards line 5+00N. Geochemical results from NN88-2 are summarized below:

Sample No:	From (m)	To (m)	Length (m)	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
6208	13.00	14.00	1.00	1	0.1	151	58	2
6209	19.00	20.00	1.00	1	0.1	68	81	3
6210	42.00	43.00	1.00	1	0.1	17	55	2
6211	48.00	49.00	1.00	1	0.2	7	73	2
6212	65.00	66.00	1.00	2	0.2	11	59	2
6213	93.00	95.00	2.00	1	0.1	23	65	2
6214	95.00	97.00	2.00	1	0.1	52	65	2
6215	97.00	99.00	2.00	1	0.1	53	64	2
6216	99.00	101.00	2.00	1	0.1	44	66	4
6217	101.00	103.00	2.00	1	0.1	38	64	2
6218	103.00	105.00	2.00	1	0.2	39	63	2

The second induced polarization anomaly, the Creek Anomaly, occurs in an area of thick talus and glacial cover. This zone was targeted, based on the strength of the chargeability response.

NN88-3 Latitude: 14+01N Azimuth: 230° Length: 26.52m
Departure: 4+91W Dip: -51°

Due to difficulties encountered during casing operations, NN88-3 was abandoned with no core recovered. However, a clay horizon was intersected by the casing which may be the source of the Creek Anomaly. A flat lying and laterally extensive layer of clay would produce IP responses consistent with those obtained in the 1987 survey.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The Nina property is underlain by massive, pyroxene porphyritic basalt to andesite, pillowed and variolitic basalt with lesser argillaceous tuff and chert. Weak propylitic alteration is ubiquitous with silicification localized about fault structures.

Mineralization consists of sulphide-rich (dominantly pyrite with minor chalcopyrite) lenses within a shear zone. Two such lenses are exposed at the Main and North showings. Chip samples in the Main zone yielded analyses of up to 4.80 g/t Au and 47.0 g/t Ag over 2.0m. In the North showing, a 1.5m chip sample yielded an analysis of 0.63% Cu with 0.03 g/t Au and 1.0 g/t Ag.

The shear zone hosting the surface showings has now been traced from the Main showing to line 6+00N, a distance of 900m. Intersections through the shear zone in drill holes NN88-1 and NN88-2 yielded only weakly anomalous analyses thereby confirming the podiform and discontinuous nature of the mineralization. No new mineralized zones have been discovered on the property nor are any indicated by the various surveys performed to date.

Given the lack of precious and base metal ore grade intersections and the low tonnage potential of shear-hosted podiform bodies, it is unlikely that the Nina property is host to an economic ore deposit. Therefore, no further exploration is recommended.

7 REFERENCES

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Cann, R M (1987) Nina Option, Geophysics and Geochemistry, 1987, Omineca Mining Division, private report for Lornex Mining Corporation Ltd.

Monger, J W H and Paterson, I A (1974) Upper Palaezoic and Lower Mesozoic Rocks of Omineca Mountains, Geol Survey Canada, Paper 74-1, Part A.

Thornton, J (1987) *Geophysical Survey Report on the Nina 1-4 Mineral Claims, Omineca Mining Division, private report for Lornex Mining Corporation Ltd.*

Watkins, J and Atkinson, M (1985) Report of Evaluation - Nina 1 Mineral Claim, Omineca Mining Division, private report for Lornex Mining Corporation Ltd.

CERTIFICATE

I, Graham R Cope do hereby certify that:

1 I am a graduate of the University of British Columbia with a Bachelor of Science degree (1985) in geology.

2 I have been involved in mineral exploration for the past eight years and have practised my profession as a geologist continually since graduation.

3 I presently hold the position of Project Geologist with Lornex Mining Corporation Ltd with offices at 1650, 609 Granville Street, Vancouver, British Columbia.

4 I am an associate of the Geological Association of Canada and a member of the Canadian Institute of Mining, Metallurgy and Petroleum.

5 I personally supervised the diamond drilling programme conducted on the Nina I to IV claims in July and August 1988.

Graham Cope

Graham R Cope

Vancouver, September 1988

APPENDIX I
COST STATEMENT

COST STATEMENT - SEPTEMBER 1988

Salaries	$ 4,171.00
Benefits	1,043.00
Drafting	198.00
Copying	34.00
Shipping	47.00
Supplies	39.00
Accommodation	528.00
Meals	268.00
Travel	1,803.00
Helicopter	34,150.00
Diamond Drilling	32,737.00
Analyses	258.00
Overhead (20% Salaries, 5% Other)	$ 4,390.00
	$79,666.00
Administration - 5%	$ 3,983.00
TOTAL 1988	$83,649.00

NOTE: Total cost to July 26 1988 - $30,000

APPENDIX II

DIAMOND DRILLING LOGS

LORNEX MINING CORPORATION LTD.

DIAMOND DRILL LOG

Project: SEGURO JV | Length (m): 89.91 | Grid: NINA | Drilled: JULY 21-24 1988 | Objective: TEST COINCIDENT | Hole No.: NN88-1
Property: NINA LAKE | Dip: -52° | Latitude: 5+06N | Contractor: VAN ALPHEN | CHARGEABILITY AND | Hole Survey Type: ACID
NTS: 93N/15W | Azimuth: 233° | Departure: 0+71.4W | Logged by: M SCHATTEN | RESISTIVITY | Depth | Dip | Azi
Core Size: BGM | Collar elev: 1503.45m | Date Logged: JULY 23 1988 | ANOMALIES | 89.91 | 54° |
Casing: OUT | Remarks: SAMPLE NOS 6201-6207

From m	To m	% Rec	Lithology	Alteration	Mineralization/Sulphides/ Structure/Core Condition	SAMPLE No.	Interval m	Interval m	Lgth.	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
0.00	11.28		CASING											
11.28	89.91		BASALT FLOW Bleached grey green, fine-grained with 5% 1-4mm pyroxene phenocrysts and 5% altered plagioclase phenocrysts <<1mm. Extensive faulting with gouge and fault breccia locally. Cut by trace-3% quartz veins <1mm-5mm across. Locally gritty. 11.28-22.99	5% clay, <5% quartz. Fracture surfaces coated with quartz, chlorite and trace sericite. Hematite coating fracture surfaces.	Trace-5% vugs, up to 4cm long and 0.7cm across. Trace very fine disseminated pyrite locally.									
			11.28-42.56		Broken, rubbly core.									
		0%	12.64-12.89 Gouge 17.37-20.42 Mislatch 20.52-20.60 Lenses of calcite 1-3mm across.		Rubble.									
			14.52-14.60 Vein of intermixed quartz and chlorite 5mm across.		Quartz and chlorite vein at 25 to C/A									
			23.74-23.89 Quartz pebbles in rubble. 26.41-26.52 Gritty gouge.											
			27.47-27.69 Veins, 3mm-1.5cm across, of quartz with up to 10% chloritized pyroxene phenocrysts and trace carbonate included.		Veins at 55 to C/A.									
			28.41-29.70 Breccia. Chloritized clasts 2mm-5cm long and up to 2cm across.											
			28.80-28.91 3mm wide quartz vein.		Quartz vein at 26 to C/A									

LORNEX MINING CORPORATION LTD.

DIAMOND DRILL LOG

Project: SEGURO JV Property: NINA LAKE Logged by: M SCHATTEN Date: JULY 23 1988 Hole No.: NN88-1

From m	To m	% Rec	Lithology	Alteration	Mineralization/Sulphides/ Structure/Core Condition	SAMPLE No.	Interval m	Interval m	Lgth.	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
			30.66-31.26 Massive quartz with up to 20% actinolite/zoisite and chloritic phenocrysts intermixed locally. Minor gouge.		Trace very fine disseminated pyrite. Broken rubbly core.	6201	30.00	35.00	5.00	1	0.1	163	58	2
			31.17-42.56 Gritty core	20% chlorite, 10% clay, 3% quartz	Trace very weak quartz druses.									
			34.55-34.70 Massive quartz vein.		Quartz vein at 50 to C/A.									
			34.75-34.99 Massive quartz vein.	Trace carbonate.										
			34.75-34.77 2mm wide chlorite vein.		Chlorite vein at 58 to C/A.									
		54%	29.56-35.05											
			36.09		1mm blob massive chalcopyrite (?)									
			36.30-36.69 Up to 20% clay/kaolinite and actinolite intermixed with massive quartz. Minor gouge.		Rubble	6202	36.00	37.00	1.00	1	0.1	30	45	9
			39.62-39.69 Vein of massive quartz with up to 20% actinolite/zoisite intermixed.		Quartz-actinolite vein at 33 to C/A.									
		16%	39.62-41.76 Mislatch.											
			42.48		Trace very fine disseminated and 1mm blob of massive pyrite on fracture surface.									
			42.48-42.56		Weak quartz druse 3mm across and 4cm long.									
			43.62-46.07 Fault breccia. 2mm-4cm moderately to strongly silicified basaltic clasts that are matrix supported. Matrix moderately altered and composed predominantly of clay and chlorite. Locally cut by chlorite and black quartz veinlets, also milky	Up to 25% clay, up to 15% chlorite, 5-7% quartz. Carbonate, quartz and chlorite coating fracture surfaces.	Trace-5% vugs. Broken rubbly core.	6203	44.00	45.00	1.00	1	0.1	34	50	2

LORNEX MINING CORPORATION LTD.

DIAMOND DRILL LOG

Project: SEGURO JV Property: NINA LAKE Logged by: M SCHATTEN Date: JULY 23 1988 Hole No.: NN88-1

From m	To m	% Rec	Lithology	Alteration	Mineralization/Sulphides/ Structure/Core Condition	SAMPLE No.	Interval m	Interval m	Lgth.	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
			43.62-46.07 (continued) white and creamy grey quartz veinlets. 1-3% creamy grey and white quartz infilling open spaces.											
			46.32-72.41 as 43.62-46.06											
			51.06-51.73 Gouge.		Rubble and broken core.									
			53.90-53.95 Gouge.											
		6.6%	59.74-63.09 Mislatch.											
			68.05-69.03 Gouge intermixed with broken, rubbly core.		Broken, rubbly core.									
		0%	69.19-72.23 Mislatch.											
			72.41-78.03 Dark green to green black basalt cut by 5-20% black quartz stringers and veins 1-7mm across, and 1-5% white quartz veins <1-2mm across. Lenses of quartz and calcite infilling open spaces.	Very strong pervasive silicification, 10-15% quartz, 1% clay, 1-5% chlorite, 5% calcite.	1-5% vugs, moderately fractured, trace-1% very fine disseminated pyrite with 1-5% massive pyrite filling along black quartz veins. White quartz veins at 78 and 60 to C/A.	6204	72.50	74.50	2.00	25	1.2	86	109	37
			73.74-75.08		Broken, rubbly core.									
			74.98-78.03		10% pyrite occurring as very fine & fine 1-1.2mm massive blebs and filling along black quartz veins. 1-3% fine disseminated pyrite locally.	6205 6206	74.50 76.50	76.50 78.50	2.00 2.00	36 42	3.6 2.1	108 98	235 159	40 39
			76.19-76.55		Well developed calcite druses up to 4cm long and 2cm across. Slightly rubbly core.									
			78.03-82.30 Grey green core cut by trace-3% black quartz stringers and veins <1-2mm across. 1% white quartz filling along fractures.	Moderate to strong pervasive silicification 5-10% quartz, 1% clay, 1% chlorite.	Up to 5% vugs and fractures.									

LORNEX MINING CORPORATION LTD.

DIAMOND DRILL LOG

Project: SEGURO JV Property: NINA LAKE Logged by: M SCHATTEN Date: JULY 23 1988 Hole No.: NN88-1

From m	To m	% Rec	Lithology	Alteration	Mineralization/Sulphides/ Structure/Core Condition	SAMPLE No.	SAMPLE Interval m	SAMPLE Interval m	SAMPLE Lgth.	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
			78.03-82.30 (continued)	Chlorite & quartz coating fracture surfaces.										
			78.66-78.96 Minor gouge.		Rubble.									
			78.96-81.38		Broken, rubbly core.									
			82.30-88.46 Fault breccia as 43.62-46.07	Moderate to strong pervasive silicification.										
			83.54-83.66 Gouge.		Rubble.									
			83.66-84.49		Broken Core.									
			85.60-86.35 Gouge.		Rubble.									
			86.35-88.46		Broken Core.									
			87.37-87.47 Vein of 35% zoisite/actinolite, 35% quartz, 30% bleached basalt.		Vein at 50 to C/A.									
			88.46-89.91 Same as 72.41-78.03		Broken, rubbly core. Trace-2% massive pyrite.	6207	88.50	89.50	1.00	14	0.5	257	98	7
0	89.91			E N D O F H O L E										

LORNEX MINING CORPORATION LTD.

DIAMOND DRILL LOG

Project: SEGURO JV | Length (m): 107.87 | Grid: NINA | Drilled: JULY 26-30 1988 | Objective: TEST COINCIDENT | Hole No.: NN88-2
Property: NINA LAKE | Dip: -50° | Latitude: 6+00N | Contractor: VAN ALPHEN | CHARGEABILITY AND | Hole Survey Type: ACID
NTS: 93N/15W | Azimuth: 230° | Departure: 0+75W | Logged by: M SCHATTEN | RESISTIVITY | Depth | Dip | Azi
Core Size: BGM | Collar elev: 1525.45m | Date Logged: JULY 27 1988 | ANOMALIES | 106.67 | -48° |
Casing: OUT | Remarks: SAMPLE NOS 6208-6218

From m	To m	% Rec	Lithology	Alteration	Mineralization/Sulphides/ Structure/Core Condition	SAMPLE No.	Interval m	Interval m	Lgth.	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
0.00	8.23		CASING											
8.23	21.35		LAMINATED CHERTY TUFF Pale grey green to dark grey green, fine grained. 1-3mm laminations cut by trace-5% white and grey quartz veinlets and stringers. Trace-3% carbonate veinlets. Locally faulted with gouge present.	Strong pervasive silicification. Up to 10% quartz. 1-3% calcite. Fracture surfaces coated with carbonate and trace chlorite.	Laminations at 35 to C/A.									
			6.4-32.92 8.38-8.50 9.55-9.75 Cut by 1-3mm veins composed of black cherty fragments in a white quartz matrix. 3cm wide by 5cm long clast of cream coloured quartz (chalcedony?). 9.96-10.86 Massive cherty tuff. 10.36-10.54 Brecciated by 10% white quartz veinlets. Clasts 2mm-1.7cm across and up to 2cm long. 12.34-12.45 4mm wide vein of intermixed quartz and calcite. 13.16-13.30 Dark green and black gouge. 13.84-13.87 1.4cm wide vein of 80% quartz and 20% calcite. 14.58-15.03 Strongly deformed. Cut by dark grey, light grey and white quartz veinlets. Appears to have been squeezed.		Broken, rubbly core. 1% vugs and fractures. Trace vuggy. Vein perpendicular to C/A. Vein at 65 to C/A.	6208	13.00	14.00	1.00	1	0.1	151	58	2

LORNEX MINING CORPORATION LTD.

DIAMOND DRILL LOG

Project: SEGURO JV Property: NINA LAKE Logged by: M SCHATTEN Date: JULY 27 1988 Hole No.: NN88-2

From m	To m	% Rec	Lithology	Alteration	Mineralization/Sulphides/ Structure/Core Condition	SAMPLE No.	SAMPLE Interval m	SAMPLE Interval m	SAMPLE Lgth.	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
			19.23-19.34 <1mm wide stringers of massive sulphides filling along quartz veinlets. 21.35-21.65 Brecciated by 30% cream coloured quartz veinlets.	15-20% quartz, trace carbonate.	Massive sulphides containing trace-1% pyrite. Quartz veinlets at 74 to C/A. Up to 5% vugs. Trace-1% 3-8mm long by 1-3mm wide weak quartz druses.	6209	19.00	20.00	1.00	1	0.1	68	81	3
21.35	32.92		MASSIVE CHERTY TUFF Grading into massive tuff. Pale grey green and dark grey green, fine grained. Locally faulted with breccia and gouge. Increase in cream coloured quartz veinlets up to 10%. Trace-2% <<1mm pale green veinlets (iron enriched quartz?) locally. 30.08-30.43 Fault breccia, 3mm-3cm long by 2mm-2.5cm wide silicified clasts set in a gritty clay matrix. 30.43-30.78 Gritty Gouge.	Very strong pervasive silicification. 20% clay.	Increasingly vuggy, up to 5% vugs, trace very fine disseminated pyrite. Very fine rubble.									
32.92	107.87		BASALT FLOW Dark grey green, fine grained with 5%, <1-2mm pyroxene phenocrysts and 5-10%, <1mm altered feldspar (plagioclase?) phenocrysts. Massive. Trace-2% carbonate and trace white and black quartz veinlets locally. Fault breccia locally. 32.92-41.76 33.56-35.66 Mislatch.	Moderate to strong pervasive silicification. Trace-5% carbonate. Trace-2% quartz. Fracture surfaces coated with chlorite, carbonate, white clay mineral(?)	Trace-5% vugs up to 1.2cm across and 2cm long. Locally weak quartz and calcite druses. Broken, rubbly core.									
		0%												

LORNEX MINING CORPORATION LTD.

DIAMOND DRILL LOG

Project: SEGURO JV Property: NINA LAKE Logged by: M SCHATTEN Date: JULY 27 1988 Hole No.: NN88-2

From m	To m	% Rec	Lithology	Alteration	Mineralization/Sulphides/ Structure/Core Condition	SAMPLE No.	SAMPLE Interval m	SAMPLE Interval m	SAMPLE Lgth.	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
		9.5%	35.66-41.76 Mislatch.		Broken, rubbly core.									
			41.76-42.32 Fault breccia. Pale grey green matrix composed predominantly of clay minerals. Dark green silicified clasts 2mm-3cm long and up to 2cm wide. Matrix supported.	Up to 40% clay.										
			42.32-42.50 3mm-1cm wide veins of intermixed chlorite, calcite & quartz.		1cm by 1cm well developed calcite druses containing minor quartz.									
			42.68-42.73 Intermixed vein of 35% well developed white and pale green quartz crystals, 45% calcite, 10% zoisite, 10% chlorite.		Vein at 65 to C/A. 3% vugs.	6210	42.00	43.00	1.00	1	0.1	17	55	2
			43.43-43.96		Broken core.									
			47.03-47.12 2mm-1cm wide veins of intermixed fine dark grey quartz and carbonate.		Calcite and quartz veins at 46 to C/A.									
			47.15-83.82		Broken and slightly rubbly core.									
			47.98-48.20		Very weak calcite & quartz druses up to 3mm across & 1.5cm long.	6211	48.00	49.00	1.00	1	0.2	7	73	2
			49.60-52.45 Fault breccia as 41.76-42.32	10-15% calcite, up to 40% clay and chlorite.	Trace-5% vugs.									
			52.96-53.29 Fault breccia as 41.76-42.32											
			53.91-55.65 Pale green alteration halos around 1% of pyroxene phenocrysts.											
		55%	53.95-56.08											

LORNEX MINING CORPORATION LTD.

DIAMOND DRILL LOG

Project: SEGURO JV Property: NINA LAKE Logged by: M SCHATTEN Date: JULY 27 1988 Hole No.: NN88-2

From m	To m	% Rec	Lithology	Alteration	Mineralization/Sulphides/ Structure/Core Condition	SAMPLE No.	SAMPLE Interval m	SAMPLE Interval m	SAMPLE Lgth.	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
			56.08-56.94 Fault breccia.	Strong pervasive silicification.										
		66%	60.65-62.18											
			65.16-65.22 Gritty gouge.											
		50%	65.22-69.19											
			65.37-65.72 Vein comprised of 45% calcite, 25% quartz, 15% actinolite/ zoisite, 10% chlorite.		Vein at 22 to C/A.	6212	65.00	66.00	1.00	2	0.2	11	59	2
			69.19-72.23 Fault breccia as 41.76-42.32. Trace-1% <<1mm quartz veinlets, trace chlorite veinlets.	Up to 40% clay and chlorite, 5% calcite, 1% quartz.	Trace vuggy.									
			72.23-75.03 Pale grey green core, moderately to extensively cut by up to 25%, <1mm-2mm chlorite veinlets, trace-3%, <<1mm quartz veinlets and 1-3%, <1mm-3mm wide carbonate veins.	40% chlorite and clay, up to 5% calcite, 1% quartz.										
			74.60-74.68 3mm wide quartz vein.		Quartz vein at 24 to C/A.									
			75.03-77.68 Fault breccia as 41.76-42.32. Trace-1%, <<1mm quartz veinlets, trace chlorite veinlets.	Up to 40% clay and chlorite, up to 5% calcite, 1% quartz.	Trace vuggy with calcite druses focally.									
			75.86-75.92 Gouge along fracture surface.											
			77.94-79.07 Fault breccia as above.											
			79.13-79.18 1.2cm wide quartz vein.		Quartz vein at 42 to C/A.									
			80.90-81.23 Gouge intermixed with rubble.											
			82.32-82.88 Fault breccia as 41.76-42.32. Trace-1%, <<1mm quartz veinlets. Trace chlorite and carbonate veinlets.											
			86.18-86.56		Broken, rubbly core.									
			87.63-89.31		Broken, rubbly core.									
			89.61-90.17		Broken, rubbly core.									

LORNEX MINING CORPORATION LTD.

DIAMOND DRILL LOG

Project: SEGURO JV Property: NINA LAKE Logged by: M SCHATTEN Date: JULY 27 1988 Hole No.: NN88-2

From m	To m	% Rec	Lithology	Alteration	Mineralization/Sulphides/ Structure/Core Condition	SAMPLE No.	SAMPLE Interval m	SAMPLE Interval m	SAMPLE Lgth.	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
			90.38-95.70 90.82-92.30 Fault breccia as 41.76-42.32. Trace-1%, <<1mm quartz veinlets. Trace chlorite and carbonate veinlets. 92.52-92.68 Minor gouge intermixed with rubble.		Broken, rubbly core.									
			93.42-93.86 Fault breccia. Matrix bleached pale grey green and composed predominantly of chlorite and clay. Up to 3.5cm long and 2cm wide slightly darker clasts that are weakly to moderately silicified. 1-3%, <<1-3mm, wide quartz veinlets. Trace-1%, <<1mm chlorite veinlets. Carbonate infilling open spaces. Matrix supported.	30% clay, 10% chlorite, up to 5% carbonate, 1-3% quartz.	Trace-2% vugs. Trace calcite and very weak quartz druses.	6213	93.00	95.00	2.00	1	0.1	23	65	2
			93.11-105.33		Trace very fine to fine disemminated pyrite occurring mainly on fracture surfaces.	6214	95.00	97.00	2.00	1	0.1	52	65	2
			97.04-99.40		Broken core.	6215	97.00	99.00	2.00	1	0.1	53	64	2
			99.10-106.98 Fault breccia as 93.42-93.86			6216	99.00	101.00	2.00	1	0.1	44	66	4
						6217	101.00	103.00	2.00	1	0.1	38	64	2
			103.45-104.10		Broken, rubbly core.									
			104.87-104.94 1.4cm wide vein composed of 90% quartz and 10% chlorite.		Vein at 34 to C/A.	6218	103.00	105.00	2.00	1	0.2	39	63	2
			106.46-107.87		Broken, rubbly core.									
0	107.87				END OF HOLE									

LORNEX MINING CORPORATION LTD.

DIAMOND DRILL LOG

Project: SEGURO JV
Property: NINA LAKE
NTS: 93N/15W

Length (m): 37m
Dip: -51°
Azimuth: 231°
Core Size: BGM
Casing: OUT

Grid: NINA
Latitude: 14+01N
Departure: 4+91W
Collar elev: 1472.45m
Remarks: HOLE ABANDONNED DUE TO CAVING

Drilled: JULY 31-AUG 2/88
Contractor: VAN ALPHEN
Logged by: M SCHATTEN
Date Logged

Objective: TEST COINCIDENT CHARGEABILITY AND RESISTIVITY ANOMALIES

Hole No.: NN88-3
Hole Survey Type: NONE

Depth	Dip	Azi

From m	To m	% Rec	Lithology	Alteration	Mineralization/Sulphides/ Structure/Core Condition	SAMPLE No.	SAMPLE Interval m	SAMPLE Interval m	SAMPLE Lgth.	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm	
0.00	26.52		CASING											
26.52	37.00		OVERBURDEN, CLAY NOTED IN RETURN.											
					END OF HOLE									

APPENDIX III
CERTIFICATES OF ANALYSIS

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 27 1988 DATE REPORT MAILED: July 30/88 ASSAYER. C. Leong ..D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

LORNEX MINING CORP. LTD. PROJECT 501-NINA File # 88-3002

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
Q 6201	1	163	6	58	.1	44	21	638	4.84	2	5	ND	1	8	1	3	2	66	1.36	.048	2	28	2.13	9	.32	7	2.90	.04	.01	1	1
Q 6202	1	30	5	45	.1	46	20	626	4.41	9	5	ND	1	14	1	2	2	67	2.36	.046	2	24	2.00	4	.32	4	3.12	.01	.01	1	1
Q 6203	1	34	4	50	.1	44	19	664	4.77	2	5	ND	1	6	1	2	2	91	2.66	.047	2	20	1.93	6	.30	4	3.79	.02	.01	2	1
Q 6204	1	86	34	109	1.2	54	25	692	4.95	37	5	ND	1	15	1	2	2	103	2.36	.045	2	50	1.77	30	.36	2	2.96	.06	.01	1	25
Q 6205	2	108	84	235	3.6	56	22	414	6.01	40	5	ND	1	13	1	8	2	59	1.72	.037	2	25	.96	12	.28	4	1.82	.02	.01	2	36
Q 6206	1	98	59	159	2.1	61	24	680	6.23	39	5	ND	1	10	1	2	2	85	1.68	.045	2	19	1.56	21	.31	2	2.79	.01	.01	1	42
Q 6207	1	257	13	98	.5	46	19	571	4.26	7	5	ND	1	12	1	2	2	87	1.89	.043	2	36	1.58	80	.28	3	2.55	.02	.01	1	14
STD C/AU-R	18	57	39	129	6.6	67	29	1060	4.12	42	19	7	36	47	17	17	22	56	.49	.090	38	55	.92	178	.06	34	1.95	.05	.14	12	510

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 5 1988 DATE REPORT MAILED: Aug 13/88 ASSAYER. C. Leong ..D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

LORNEX MINING CORP. LTD. PROJECT 501 NINA File # 88-3308

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
Q 6208	1	151	8	58	.1	42	18	1864	3.08	2	5	ND	5	19	1	2	4	68	1.11	.027	18	36	1.34	149	.18	2	1.84	.01	.09	11	1
Q 6209	1	68	9	81	.1	34	7	628	2.41	3	5	ND	6	31	1	2	4	21	1.18	.022	22	21	.66	197	.16	3	1.54	.01	.15	1	1
Q 6210	1	17	3	55	.1	51	18	884	4.67	2	5	ND	1	89	1	4	4	87	8.38	.042	2	27	2.37	56	.32	2	2.78	.02	.01	3	1
Q 6211	1	7	2	73	.2	78	26	931	6.63	2	5	ND	1	9	2	3	2	112	2.97	.048	2	46	3.22	31	.31	3	4.00	.02	.01	1	1
Q 6212	1	11	4	59	.2	72	22	707	5.05	2	5	ND	1	62	1	2	2	89	6.25	.045	2	50	2.77	27	.31	4	3.30	.02	.01	1	2
Q 6213	1	23	2	65	.1	94	26	909	5.37	2	5	ND	1	27	1	4	2	83	2.75	.043	2	39	3.54	75	.27	2	3.64	.02	.01	1	1
Q 6214	1	52	4	65	.1	95	25	759	5.25	2	5	ND	1	21	1	3	2	77	1.99	.044	2	32	3.45	40	.26	2	3.46	.01	.01	1	1
Q 6215	1	53	2	64	.1	92	25	748	5.27	2	5	ND	1	15	1	4	2	81	1.87	.043	3	27	3.48	35	.29	2	3.37	.02	.01	1	1
Q 6216	1	44	2	66	.1	97	26	798	5.46	4	5	ND	1	28	1	5	2	85	2.00	.042	3	32	3.57	140	.32	2	3.56	.02	.01	1	1
Q 6217	1	38	2	64	.1	90	26	861	5.57	2	5	ND	1	23	1	4	2	95	2.26	.043	3	35	3.73	99	.31	2	3.61	.02	.01	1	1
Q 6218	1	39	2	63	.2	87	24	805	5.38	2	5	ND	1	32	1	5	2	86	2.64	.042	2	36	3.55	122	.31	2	3.63	.02	.01	1	1
STD C/AU-R	17	56	36	129	7.1	67	27	919	3.89	38	18	7	37	48	17	16	20	55	.44	.092	41	58	.92	175	.06	33	1.90	.06	.13	11	500

APPENDIX IV

FIGURES 2 TO 4

LITHOLOGIES

- [1] Mafic volcanic flows
- Sulphide rich zone
- [2] Mafic tuffaceous argillite, banded and massive chert
- Outcrop
- Geological contact
- Projected geological contact
- 80 Attitude of primary textures

GEOPHYSICS

- Trace of 1986 VLF-EM conductor
- Resistivity high
- Chargeability high
- Inferred fault
- Trace of resistivity low

GEOCHEMISTRY

- 100 / 200 Contoured ppm Cu in soil
- 100(T) / 200(T) Contoured ppm Cu in talus fines
- NN 88-1 Diamond drill hole
- Δ 4·70,10·0 Anomalous rock chip samples g/t Au, g/t Ag.

NTS 93 N/15 W

0 200 400 metres

SCALE 1:5000

LORNEX MINING CORPORATION LTD.

NINA CLAIMS

GEOLOGY, GEOCHEMISTRY, GEOPHYSICS COMPILATION

OMINECA MINING DIVISION

DATE	DRAWN BY	DWG.
SEPT. 1988.	R.M.C.,M.G.S./J.S.	2

233°

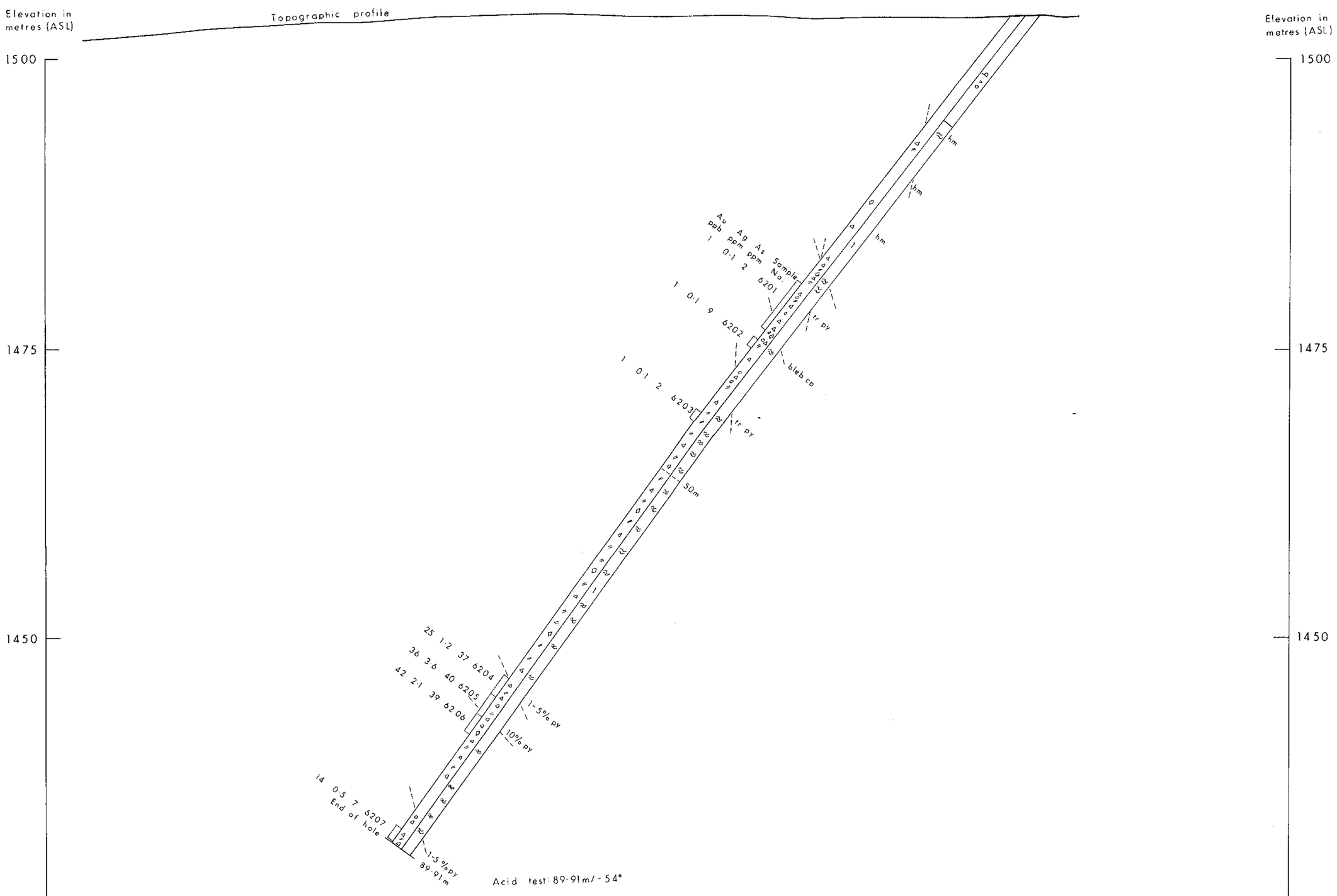
053°

1+50 W | 1+25 W | 1+00 W | 0+75 W

Line 5+00 N

NN 88-1

dip -52°
az. 233°



LEGEND

LITHOLOGIES

1 Massive pyroxene porphyritic basalt flow

2 Laminated cherty tuff

3 Massive cherty tuff

ALTERATION

Quartz

Calcite

Chlorite

Sericite

Actinolite / Zoisite

SYMBOLS

~~~ Fault zone, gouge, breccia

— — Orientation of veins to core axis, laminations

ABBREVIATIONS

py pyrite
cp chalcopyrite
hm hematite
tr trace

NTS 93N/15W

0 5 10 15 20 m

Scale 1:250

LORNEX MINING CORPORATION LTD.

NINA CLAIMS

DIAMOND DRILL SECTION 5+00N
DDH NN 88-1
OMINECA MINING DIVISION

DATE	DRAWN BY	DWG.
SEPTEMBER 1988.	M.G.S. / J.S.	3
~~~

230°

1+50 W

1+25 W

1+00 W

0+75 W

050°

Line 6+00N

NN 88-2
dip -50°
az.230°

Elevation in metres (ASL)

1525

1500

1475

1450

Topographic profiles

Au ppb | Ag ppm | As ppm | Sample No.

1 0.1 2 6208
1 0.1 3 6209
1 0.1 2 6210
1 0.2 2 6211
2 0.2 2 6212
1 0.1 2 6213
1 0.1 2 6214
1 0.1 4 6215
1 0.1 2 6216
1 0.2 2 6217
1 0.2 2 6218

tr py

50 m

End of hole

107.87m

Acid test: 106.67m / -48°

LEGEND

LITHOLOGIES
1 Massive pyroxene porphyritic basalt flow
2 Laminated cherty tuff
3 Massive cherty tuff

ALTERATION
Quartz
Calcite
Chlorite
Sericite
Actinolite / Zoisite

SYMBOLS
Fault zone, gouge, breccia
Orientation of veins to core axis, laminations

ABBREVIATIONS
py pyrite
cp chalcopyrite
hm hematite
tr trace

NTS 93N/15W
0 5 10 15 20 m
Scale 1:250

LORNEX MINING CORPORATION LTD.

NINA CLAIMS

DIAMOND DRILL SECTION 6+00N
DDH NN 88-2
OMINECA MINING DIVISION

DATE	DRAWN BY	DWG.
SEPTEMBER 1988	M.G.S / J.S	4