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1990 Drilling Report on the Lara Group I

Lara Group I  
Silver I, Silver II, Fang, Tooth, Cavity and Touche Claims  
Susan, Klondyke, Tinto View Crown Grants

Victoria Mining Division, British Columbia  
Latitude: 48° 54' N Longitude 123° 52' W  
NTS 92 B/13W

Owners:

Laramide Resources Ltd.  
675 West Hastings Street  
Vancouver, B.C. V6B 1N2

Operator:

Minnova Inc.  
3rd Floor - 311 Water St.  
Vancouver, B.C. V6B 1B8

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

20,981

Minnova Inc.  
Vancouver, B.C.

John D. Kapusta  
November 21, 1990

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## 1. Introduction

The Lara property is situated on southern Vancouver Island, British Columbia, in the Victoria Mining Division. The property is comprised of 14 claims (totalling 144 units), seven fractional claims and three Crown Grants, and measures about 11 kilometres east-west by three kilometres north-south. The property is primarily underlain by felsic to intermediate volcanic rocks of the Paleozoic Sicker Group (McLaughlin Ridge Formation).

This report describes the results of diamond drill holes 90-293, 90-294, 90-308 that tested geophysical and/or geochemical anomalies on the Lara property. The holes total 537.69 m and were drilled between June 2 and November 1, 1990.

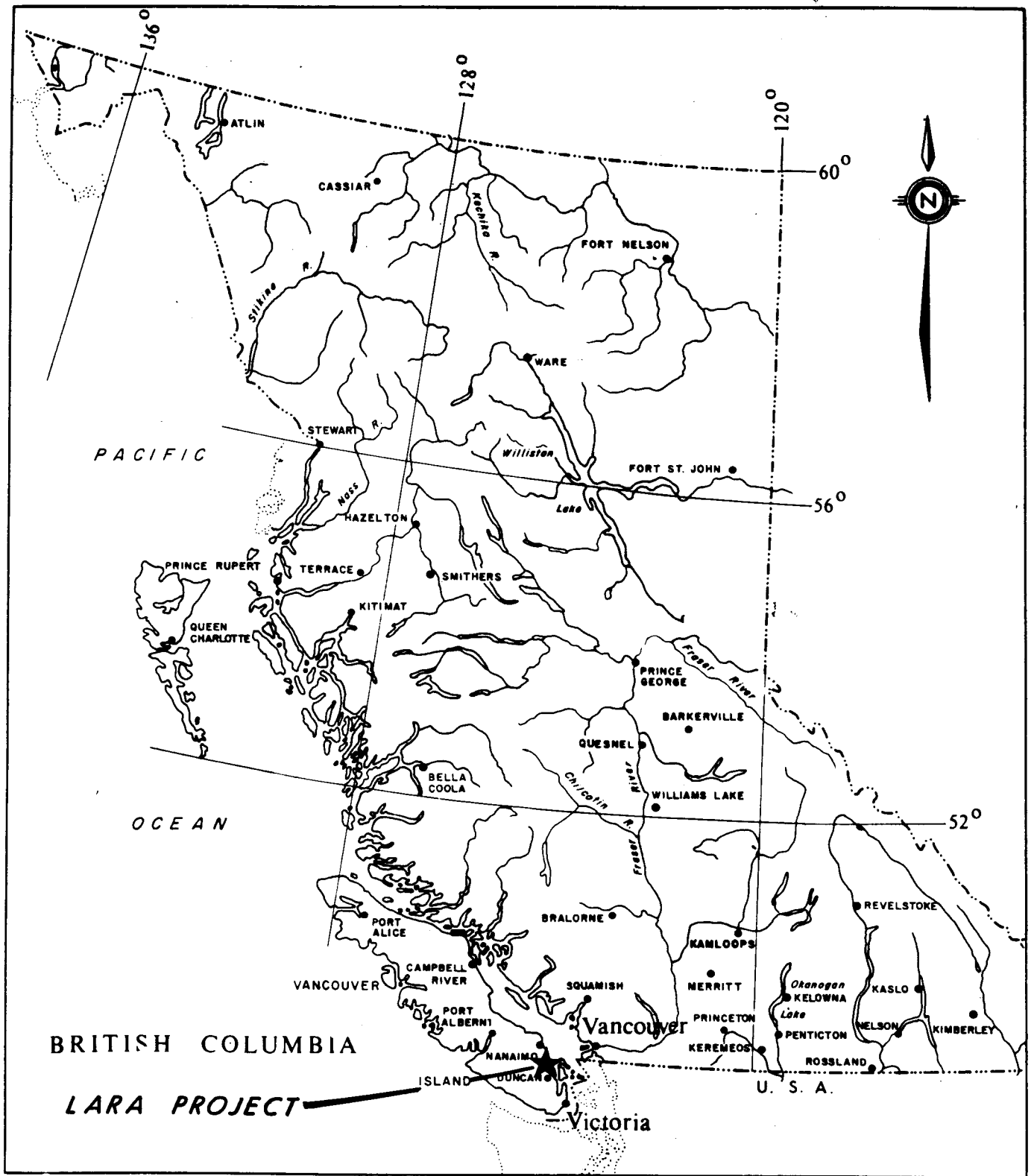
### 1.1 Location and Access

NTS: 92B/13W  
Latitude: 48° 52' 30" N  
Longitude: 123° 52' W

The Lara Property is located on southern Vancouver Island in the Victoria Mining Division (Figure 1). It lies about 75 kilometres north of Victoria and 15 kilometres northwest of Duncan. Access to the property is along the Chemainus River Logging Trunk Road (MacMillan Bloedel) for a distance of about 12 kilometres from Highway No. 1 at Chemainus. From the Chemainus River road, the property is accessed by a network of secondary logging and forestry roads. In addition, a major B.C. Hydro Right of Way cuts across the west side of the property.

### 1.2 Property Status

The Lara Property is owned 100% by Laramide Resources Ltd. of 904 - 675 W. Hastings St., Vancouver, B.C. In addition Laramide has granted to Abermin Corporation of Vancouver, a convertible royalty equal to a 10% Net Profit Interest,



TO ACCOMPANY REPORT NO. \_\_\_\_\_ BY \_\_\_\_\_

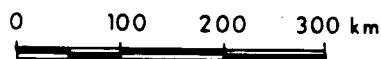
**MINNOVA Inc.**

LARA PROJECT

**GENERAL LOCATION MAP**

FIGURE 1

DATE	SCALE 1: 7 500 000	NTS	DRWG NO.
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convertible, at the option of Abermin at any time prior to October 31, 1990 into 5% of the issued common shares of Laramide. The present status of this agreement between Abermin and Laramide is unknown at this time.

Minnova Inc. has entered into an agreement with Laramide by which it has obtained exclusive exploration rights to the Lara Property, on an expenditure basis, between November 1, 1988 and June 30, 1991.

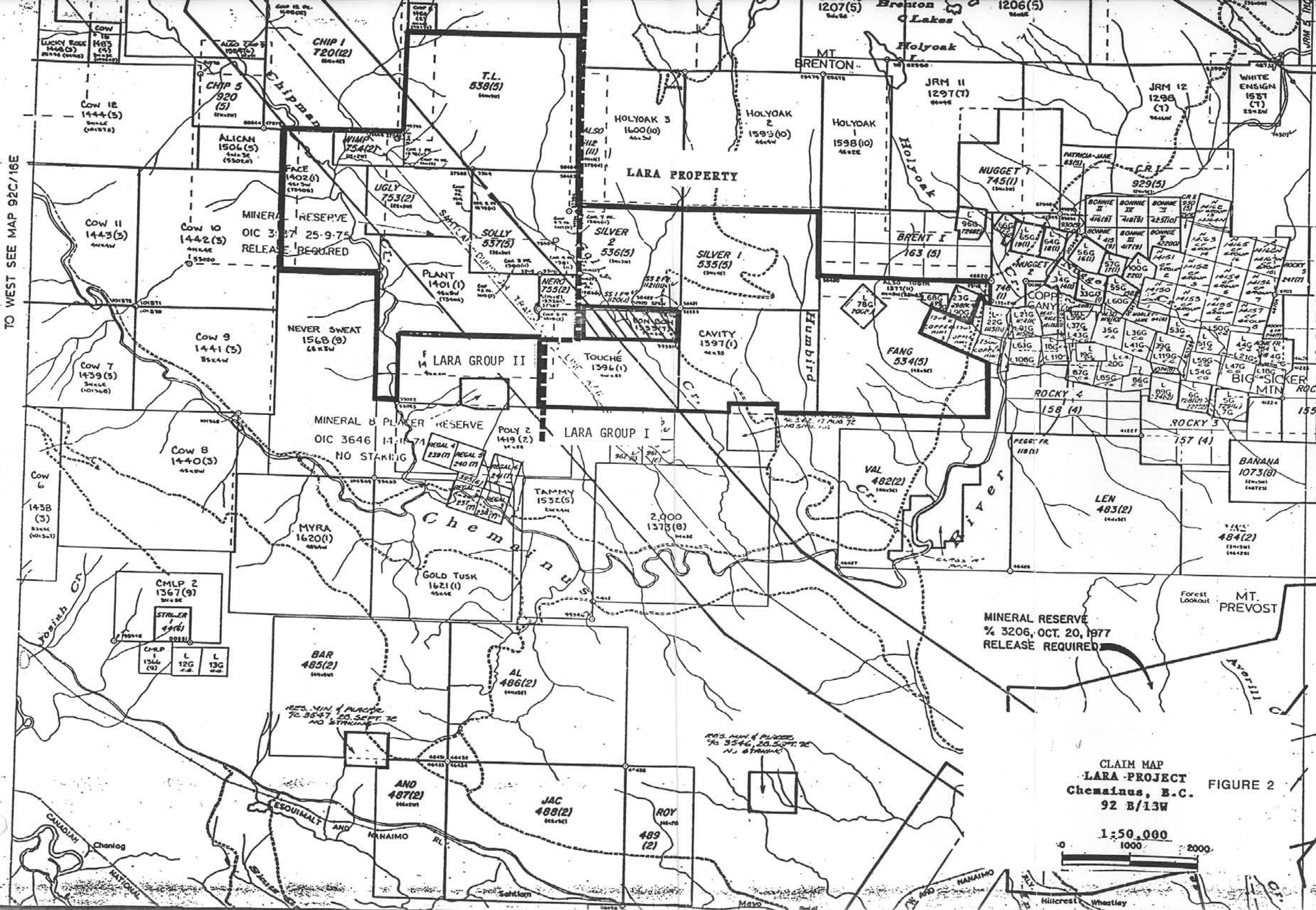
### 1.3 Mineral Claims

The Lara Property consists of 14 claims, seven fractional claims and three reverted crown grants. For assessment purposes these have been divided into Lara Group I and Lara Group II (Figure 2) as follows:

<u>Claim Name</u>	<u>Record No.</u>	<u>Units</u>	<u>Expiry Date</u>
<u>Group I</u>			
Silver I	535	12	May 8, 2000
Silver II	536	9	May 8, 2000
Fang	534	20	May 8, 2000
Tooth	1377	5	Nov 7, 2000
Touche	1396	12	Jan 21, 2000
Cavity	1397	12	Jan 21, 2000
Susan (Lot 23G)	698	1	Oct 26, 2000
Klondyke (Lot 68G)	699	1	Oct 26, 2000
Tinto View (Lot 78G)	700	1	Oct 26, 2000
<u>Group II</u>			
Solly	537	9	May 8, 2000
T.L.	538	20	May 8, 2000
Jennie	1112	4	Nov 18, 2000
Ugly	753	6	Feb 8, 2000
Wimp	754	2	Feb 8, 2000
Nero	755	1	Feb 8, 2000
Face	1402	12	Jan 23, 2000
Plant	1401	20	Jan 23, 2000
COR 1-7 Fr.	1378-84	7	Nov 7, 2000

TO WEST SEE MAP 92C/16E

TO EAST SEE MAP 92B/13W



CROWN-GRANTED MINERAL CLAIM  
 REVERTED C.O. MINERAL CLAIM  
 VERIFIED MINERAL CLAIM  
 LEGAL SURVEY  
 LEGAL CORNER POST & TAG NUMBER OUTLINE

3 Miles  
 5 Kilometres

1000 Metres  
 500 Metres  
 0 Metres  
 0 Kilometres  
 1000 Metres  
 2000 Metres  
 3000 Metres

UNLESS VERIFIED  
 LEGAL CORNER POST IS NOT  
 THEIR INFORMATION, APPLY  
 CONCERNED.

DATE OF MICROFILM

CLAIM MAP  
 LARA PROJECT  
 Chemainus, B.C. FIGURE 2  
 92 B/13W  
 1:50,000  
 1000 2000

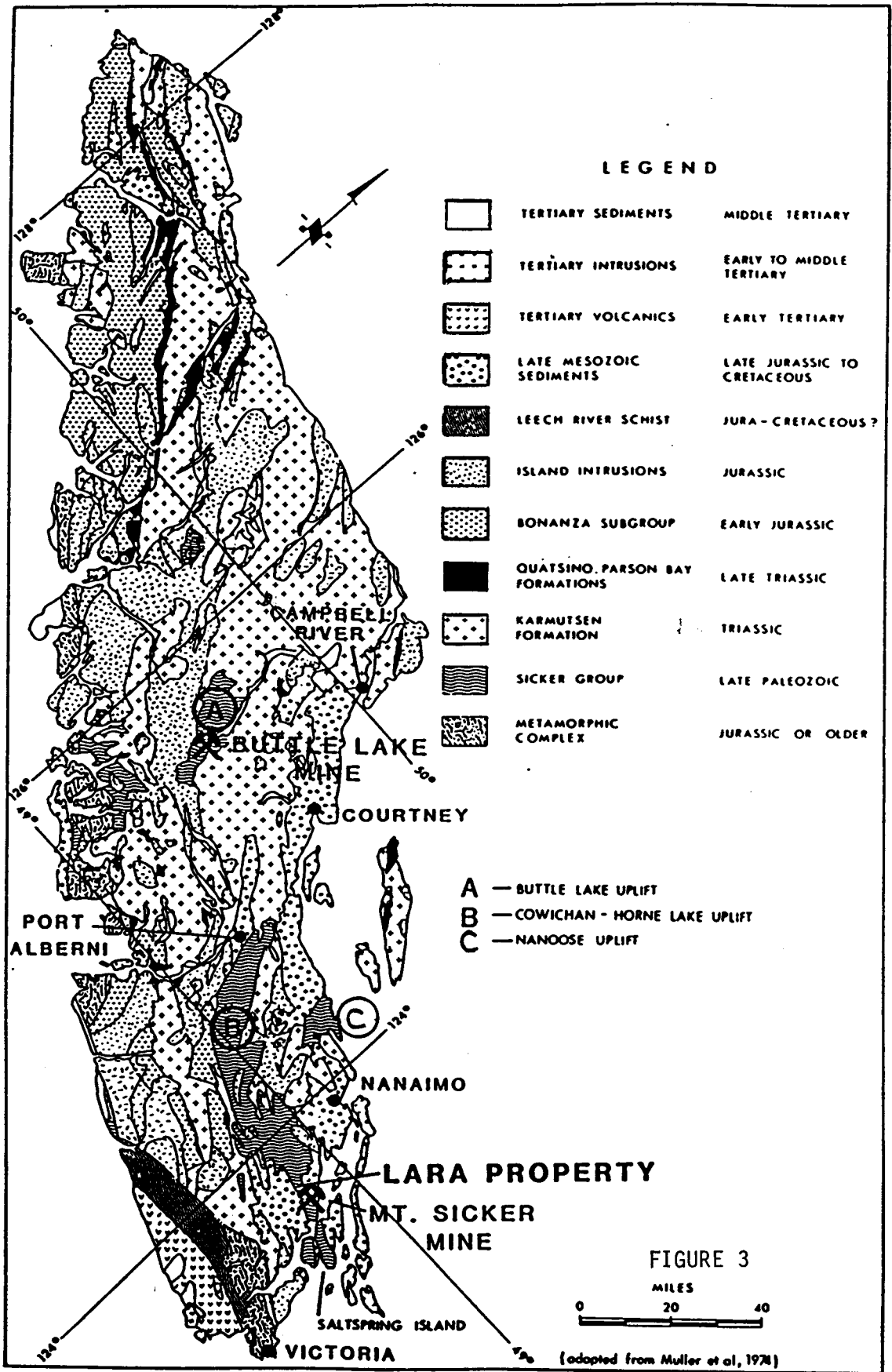
#### 1.4 History (to the end of 1989)

The Lara Property was staked by Laramide Resources in 1981 and optioned to Abermin Corporation in 1982. During 1981-83, exploration consisted of the establishment of a cut line grid, geological mapping, geophysical and soil geochemical surveys, and backhoe trenching to test anomalous areas. In 1984, 12 diamond drill holes totalling 1346 metres were drilled to test targets defined by the backhoe trenching, the last drill hole of this program, DDH 84-12, intersected economically significant mineralization beneath Trench 83-35. This intersection graded 0.68% Cu, 0.45% Pb, 3.01% Zn, 67.54 g/T Ag and 3.463 g/T Au, over a true thickness of 7.95 metres. This mineralized sequence was named the Coronation Zone, after its occurrence on the south slope of Coronation Mountain.

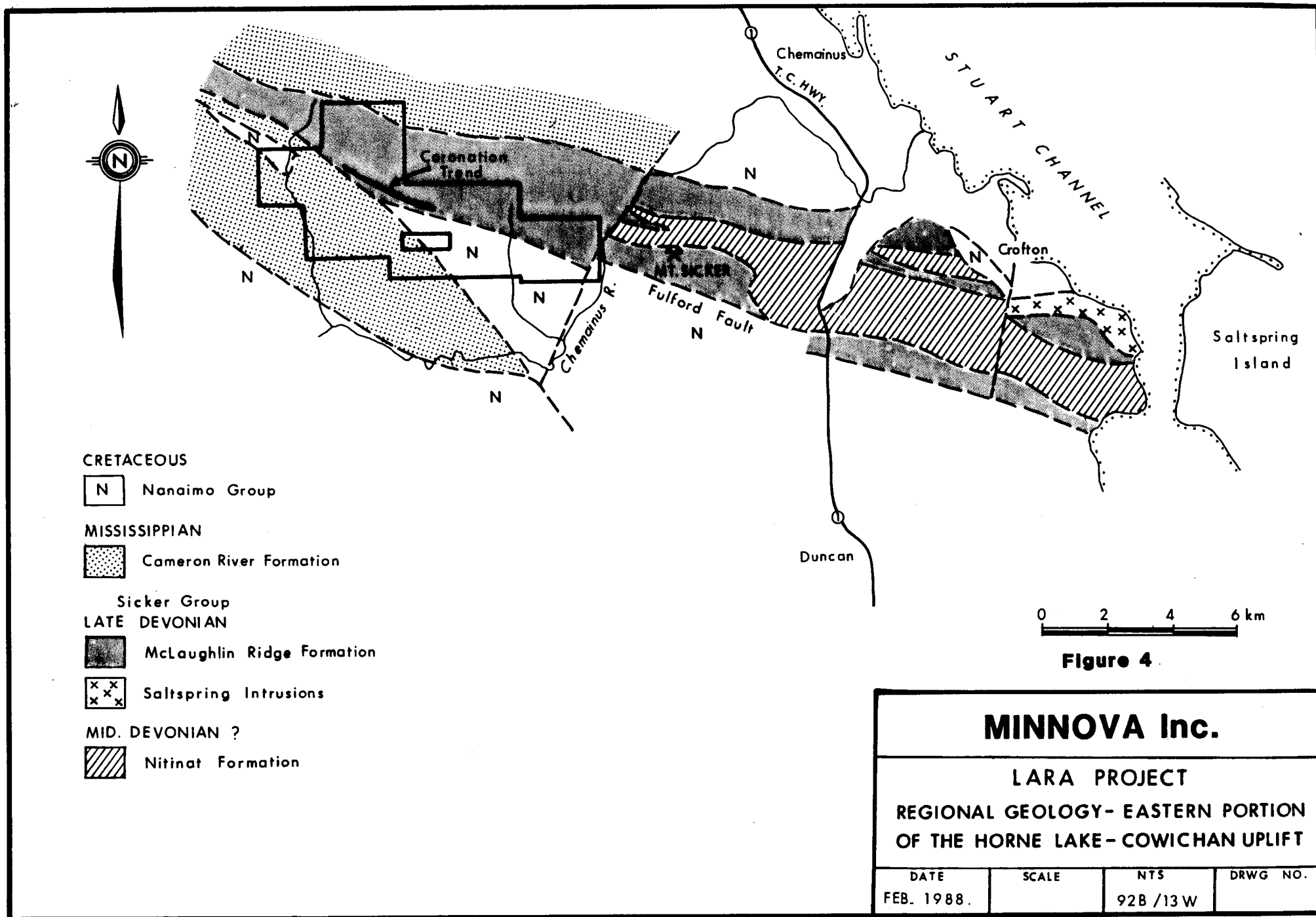
In 1985 the exploration program was designed to test the extent of mineralization intersected in drill hole 84-12; 61 diamond drill holes totalling 7437 metres were completed.

The 1986 exploration program tested both the Coronation Zone and reconnaissance targets throughout the property, 75 diamond drill holes totalling 11,339 metres were completed. In addition to the diamond drilling, one backhoe trench (86-43) over the Coronation Zone was excavated. This trench exposed high grade massive sulphides grading 3.04% Cu, 43.01% Zn, 8.30% Pb, 513.60 g/T Ag and 24.58 g/T Au over a true thickness of 3.51 metres. The reconnaissance drilling tested geophysical, humus geochemical and geologic targets in the East, Far East, and North Grid areas. In the North grid a total of ten holes were drilled in an area referred to as the Randy Zone, that was discovered during surface mapping in 1986.





GEOLOGICAL SKETCH MAP OF  
VANCOUVER ISLAND



<b>MINNOVA Inc.</b>			
LARA PROJECT			
REGIONAL GEOLOGY- EASTERN PORTION OF THE HORNE LAKE- COWICHAN UPLIFT			
DATE	SCALE	NTS	DRWG NO.
FEB. 1988.		92B /13 W	

The 1987 exploration program tested the Coronation Zone, Randy Zone and reconnaissance targets throughout the property, 83 diamond drill holes totalling 15,038 metres were completed, one backhoe trench (87-44) over the Coronation Zone was also excavated. In the Randy Zone ten diamond drill holes were completed, this drilling has now traced the Randy Zone trend over a distance of 2000 metres and down-dip from surface to a depth of 180 metres. The Reconnaissance drilling tested geophysical, humus geochemical and geologic targets on the West and North grid areas.

In 1988 an underground exploration program was undertaken in the Coronation Zone. The goals of this program were: 1) to test the continuity of the Coronation Zone; 2) check rock conditions for mining cost estimate; and 3) take a bulk sample for metallurgical tests. To best accomplish these goals all work was conducted on the 600 bench level.

The 1989 program tested the Coronation Zone and reconnaissance targets throughout the property. The bulk of the program was devoted to diamond drilling (43 holes, 10,328 m) although geophysical, geological and lithochemical surveys were completed along strike of the Coronation Zone.

## 2. Work Done

This report summarizes the results of three diamond drill holes, (90-293, 90-294, 90-308) totalling 537.69 m that were drilled on the Lara Group I, between June 2, 1990 and November 1, 1990 (Table 1). The drill contractor who carried out this work was Frontier Drilling Ltd. of Langley, B.C.

TABLE 1: LARA PROPERTY - DRILL SUMMARY

Hole	Location	Date		Collar			Core Size	Total Depth	Tests			Target	Results
		Start	Finish	Azim.	Incl.	Elevation			Depth	Azim.*	Incl.		
90-293	57+67W; 111+00N	6/2/90	6/4/90	208	-53	705 m	NQ	145.39 m	145.39 m		-52	Uppdip and 50 m west lateral test of DDH 90-267, where both stringer mineralization and a sequence of interbedded chert and felsic ash were intersected.	No significant results, intersected Cretaceous, Nanaimo Group sediments
90-294	59+60W; 111+90N	6/4/90	6/5/90	208	-50	720 m	NQ	76.20 m	76.20 m		-47	200 metre westerly stepout from 89-267; on a weak VLF and humus geochemical anomaly.	No significant results, intersected Cretaceous, Nanaimo Group sediments
90-308	76+00W; 111+76N	10/29/90	11/1/90	208	-75	752 m	NQ	316.10 m	90.0 m 154.5 m 221.0 m 252.0 m 279.5 m	212	-75 -74 -73 -73 -73	Downdip test of DDH 90-288 that intersected 330 ppm Zn, 880 ppm Cu, over 7.30 m, in pyritic ashes and cherts	
*Sperry Sun Single Shot													

### 3. Geology

#### 3.1 Regional Geology

The Lara Property is underlain primarily by the Paleozoic age Sicker Group which comprises well differentiated volcanic rocks with interbedded tuffaceous, carbonaceous and volcanoclastic sedimentary rocks. These rocks are strongly deformed (commonly schistose) and are regionally metamorphosed to lower to upper greenschist facies.

The Sicker Group is exposed in three major geanticlinal uplifts on Vancouver Island (Figure 3). The Lara property occurs toward the southwestern end (Figure 4) of the Horne Lake - Cowichan uplift which extends in an arc from Saltspring Island to Port Alberni, a distance of about 140 kilometres.

The stratigraphic divisions that are presently being used in the Horne Lake - Cowichan Uplift, and on the Lara property are those proposed by Nick Massey (Massey and Friday 1987, 1988) of the British Columbia Ministry of Energy, Mines and Petroleum Resources.

The Nitinat Formation, which is the lowermost unit in the Sicker Group, consists of mafic pyroclastics with subordinate volcanic flows (Brandon et al, 1986). The unit is commonly agglomeritic and is characterized by the presence of black augite phenocrysts which have been variably altered to uralite. These phenocrysts are up to 3 centimetres in diameter and comprise from 5 to 20% of the rock. Plagioclase phenocrysts are also abundant but are generally smaller. The Nitinat Formation contains a chlorite-epidote-actinolite-plagioclase metamorphic assemblage which is consistent with upper greenschist facies.

The McLaughlin Ridge Formation conformably overlies the Nitinat Formation. It consists of aphyric andesite pillow flows and breccias, rhyolite, volcanic sandstone, siltstone, argillite and chert. In the central part of the belt, the rocks are predominately volcanoclastic sediments with minor volcanic rocks.

Felsic volcanic rocks are relatively uncommon, but are well developed at the southeastern end of the belt from just west of the Lara Property to Saltspring Island.

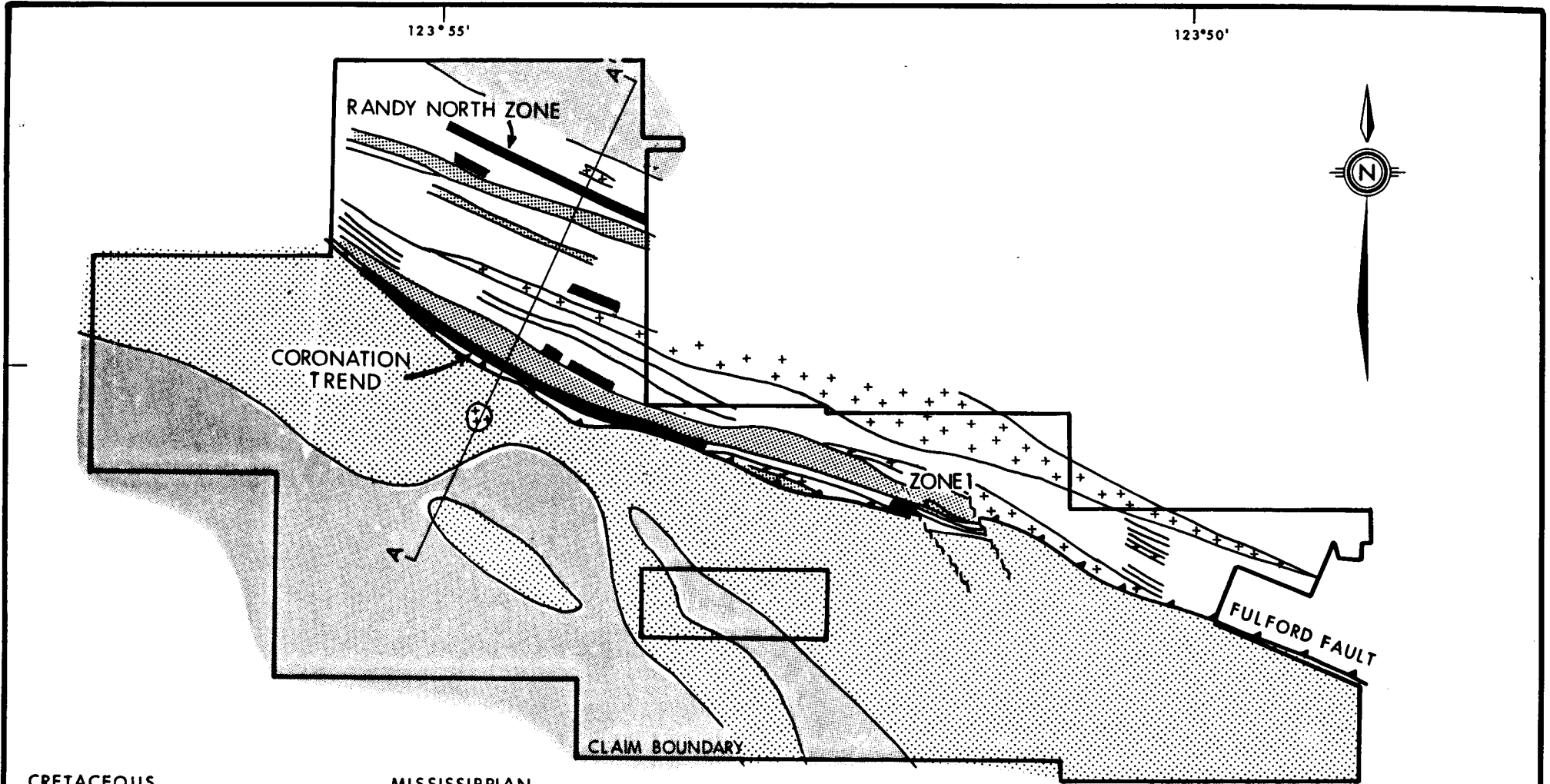
Sicker Group rocks are in fault contact or are unconformably overlain by the Cameron River Formation which consists of epiclastic sedimentary rocks including turbiditic sandstone, siltstone and argillite. The base of the unit is marked by a thick sequence of chert and cherty tuff.

The geology of the eastern portion of the Horne Lake-Cowichan uplift is shown in Figure 4. Sicker Group rocks outcrop in a folded, structurally complex west-northwest trending uplift which appears to plunge shallowly to the west. Progressively younger rocks are exposed from east to west along this trend. The belt is cut by several major cross faults along which differential uplift has taken place.


The Fulford Fault is a regionally extensive reverse fault that brings Mclaughlin ridge volcanics into contact with younger rocks of the Cameron River Formation and the Nanaimo Group. This faulting is associated with a Late Cretaceous to Early Tertiary deformational event.

### 3.2 Geology of the Lara Property

The property is underlain by the Mclaughlin Ridge Formation which has been thrust over younger rocks of the Cameron River Formation and the Nanaimo Group on the Fulford Fault (Figures 5 & 6). The Mclaughlin Ridge Formation consists of northerly dipping, west-northwest striking rhyolitic to andesitic rocks. Bedding in these rocks generally dips steeply at 60° to 75° N, although dips of 30° to 45° are common in the eastern half of the property between Humbird Creek and Silver Creek. The volcanics are dominated by felsic rocks; quartz phyric units are common particularly in the west half of the property. The most widespread lithologies are light green to white, feldspar and quartz feldspar



**CRETACEOUS**

 Nanaimo Group, sandstone, siltstone, shale.

**TRIASSIC**

 Karmutsen - Gabbro

**MISSISSIPPIAN**


 Cameron River Formation

**LATE DEVONIAN - SICKER GROUP**

 McLaughlin Ridge Formation

 Felsic volcanics

 Intermediate volcanics

 Polymetallic horizon

**Figure 5**



<b>MINNOVA Inc.</b>			
<b>LARA PROJECT</b>			
<b>SCHEMATIC GEOLOGICAL MAP</b>			
DATE FEB. 1988.	SCALE	NTS 92B / 13W	DRWG. NO.

crystal tuff. Lapilli tuffs occur locally.

Thick sequences of intermediate volcanic rocks occur at intervals in this felsic package. Intermediate rocks include fine grained andesite tuff and coarse grained lapilli tuff and breccia containing large epidotized fragments up to several centimetres in diameter.

Sedimentary rocks in the volcanic sequence include dark grey to black argillite, buff-coloured volcanic mudstone and tuffaceous quartz sandstones of both felsic and intermediate composition.

The Fulford Fault juxtaposes volcanic rocks of the McLaughlin Ridge Formation and sedimentary rocks of the Cameron River Formation and the Nanaimo Group. The fault dips at about 47° in the west half of the property and cross-cuts bedding in the volcanic rocks at a shallow angle.

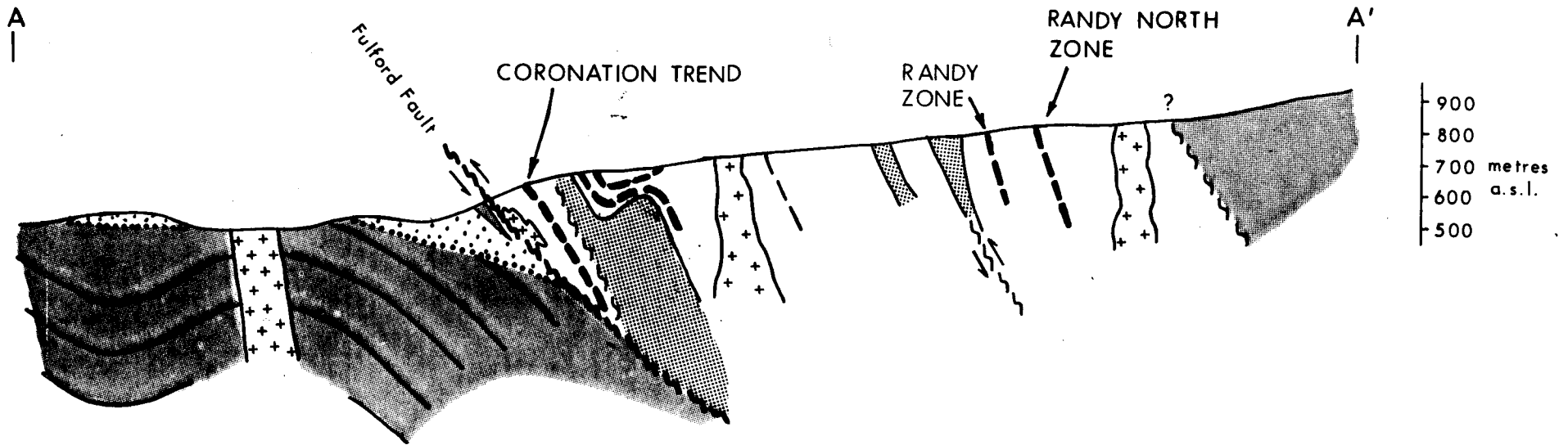
The Cameron River Formation south of the Fulford Fault consists of basal pebble conglomerate and volcanoclastic units grading upward into sandstone-argillite series and then to an upper argillite sequence with siltstone and chert interbeds. The Nanaimo Group, which unconformably overlies the Cameron River Formation includes basal conglomerates, sandstone and fossil-bearing mudstone.

In the northwest part of the property, the volcanic rocks are again in contact with the Cameron River Formation which consists of greenish grey mudstone with argillite interbeds. A distinctive maroon schist package which is locally hematitic occurs immediately south of these sedimentary rocks and may represent the uppermost units in the McLaughlin Ridge Formation.

### Intrusive Rocks

On the Lara Property the Sicker Group is cut by a number of mafic intrusions (Figure 5 and 6) which are probably feeders to the Triassic Karmutsen Formation. Compositionally the mafic





**CRETACEOUS**



Nanaimo Group - sandstone, siltstone, shale.

**TRIASSIC**



Karmutsen - Gabbro

**MISSISSIPPIAN**



Cameron River Formation

**LATE DEVONIAN - SICKER GROUP**



Felsic volcanics



Intermediate volcanics



Polymetallic horizon



Fault



Unconformity

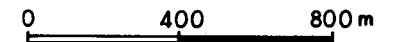


Figure 6

**MINNOVA Inc.**

LARA PROJECT  
SCHEMATIC GEOLOGICAL  
CROSS SECTION

DATE  
FEB. 1988

SCALE

NTS  
92B/13W

DRWG. NO.

intrusions are medium to coarse-grained diabase, gabbro and leucogabbro with minor diorite. They are commonly porphyritic with feldspar phenocrysts often being glomero-porphyritic clusters up to three centimetres in diameter, mafic phenocrysts are generally absent. Equigranular gabbros are also common. The intrusive bodies vary in size and form. Sill-like bodies are generally subconcordant with bedding, though they usually follow foliation where this is strongly developed. As a result of this they can show a variety of attitudes from shallow dipping to vertical. They may range in thickness from only few metres to 200 metres, discordant dykes are also common varying from 10 centimetres to 20 metres wide.

Also on the property are a number of quartz-feldspar porphyry dykes. These dykes are known as the Saltspring Intrusions and are coeval with the felsic volcanics in the McLaughlin Ridge Formation and were probably feeders for felsic crystal tuffs found within the formation (Massey and Friday, 1987). The porphyries are usually well foliated and difficult to distinguish from crystal tuffs when contact relationships with host volcanics are not clear. Quartz phenocrysts are up to 1 centimetre in diameter, round to oval in shape and may be stretched in the foliation. They comprise up to 20% of the rock. Plagioclase phenocrysts are smaller and vary in shape from euhedral laths to rounded and are sporadically altered to epidote.

It is believed there also exists a number of mafic intrusives, possibly dioritic in composition that are coeval with the andesite packages found in the McLaughlin Ridge Formation.

Elsewhere on the property Tertiary age hornblende porphyry dykes occur. These late dykes are distinctly porphyritic with phenocrysts of dark green hornblende and feldspar up to several millimetres in size set in a fine grained, light green epidote-rich matrix. Border phases of these dykes may be brecciated and contain rounded fragments of dyke rock in a fine grained chloritic matrix. This brecciation may be the

result of fluidization during emplacement of the dyke, suggesting a high volatile content. A petrographic sample from one of these dykes suggests that they are strongly altered mafic igneous rocks.

#### 4.0 Diamond Drilling Results

Drill hole 90-293 was drilled as an updip test of DDH-90-267, the hole was laterally offset approximately 50.0 m to the west. Hole 90-267 intersected stringer style mineralization between 225.21 and 229.78 m (4.57 m) that contained 526 ppm Zn, 196 ppm Pb, 97 ppm Cu, 1.50 ppm Ag in a felsic tuff. It also intersected a thick sequence of intermediate ash and chert, between 237.53 and 248.32 m (10.79 m) that contained 27 ppm Zn, 84 ppm Cu and 29 ppm Pb. Hole 90-293 intersected Cretaceous, Nanaimo Group sediments.

Drill hole 90-294 was drilled as a 200 m westerly test of drill hole 90-267 and a coincident weak VLF and geochemical anomaly. The hole intersected Cretaceous, Nanaimo sediments.

Drill hole 90-308 was drilled as a downdip test of Drill hole 90-288. Hole 90-288 intersected a sequence of andesite ash to fine grained tuffs between 36.85-47.50 m, with 5-7% very fine grained disseminated pyrite, locally to 10% with trace sphalerite and chalcopyrite. A section from 40.90 to 43.20 m (2.30 m) returned values of 4461 ppm Zn, 562 ppm Cu, 24 ppm Pb, 1.5 ppm Ag and 20 ppb Au. An interval of felsic ash with minor chert interbeds was intersected between 117.90 and 125.20 m, that contains 880 ppm Cu, 330 ppm Zn, 25 ppm Pb, 1 ppm Ag and 6 ppb Au. Hole 308 intersected the Andesite ash, tuff horizon 105 meters downdip from 288, between 117.10 and 124.45 m (7.35 m); this interval contains 1558 ppm Zn, 230 ppm Cu. A 4.0 m interval between 119.0 and 123.0 returned 2559 ppm Zn, 251 ppm Cu and 168 ppm Pb. Drill hole 308 intersected the same felsic ash and chert sequence as in hole 288, between 187.57 to 193.47 m (5.90 m), the interval contains minor pyrite.

## 5. Conclusions

Drill holes 293 and 294 were drilled into what appears to be a fault block of Cretaceous Nanaimo Group sediments. This fault block eliminates the western extension of mineralization intersected in 90-267. It is possible that deep drilling, through the Nanaimo may intersect the Sicker formation. The easterly and downdip potential of the horizons intersected in hole 267 have yet to be tested. The intersection of finely bedded cherts and ashes in 267, anomalous in base metals, indicates a favourable environment for hosting volcanogenic massive sulphides.

6. Cost Statement

A.	Drill Costs	\$27,894.66
B.	Personnel	3,145.00
C.	Truck Rental	550.00
D.	Food and Accomodation	360.00
E.	Report Preparation	650.00
F.	Analytical Costs	494.81
		=====
	Total	\$33,094.47

7. Core Storage

Drill cores are stored on the Lara property.

## 8. References

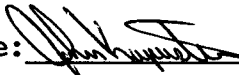
- Brandon, M.T., Orchard, M.J., Parrish, R.R., Sutherland Brown, A., and Yorath, C.J. (1986): Fossil Ages and Isotopic Dates from the Paleozoic Sicker Group and Associated Intrusive Rocks, Vancouver Island, British Columbia, in Current Research, Part A, Geological Survey of Canada, Paper 86-1A, pages 683-696.
- Kapusta, J.D., Blackadar, D.W., McLaughlin, A.D. (1987): 1987 Report for Drilling Conducted on the Lara Group I and Lara Group II, Abermin Corporation.
- Massey, N.W.D. and Friday, S.J. (1987): Geology of the Cowichan Lake Area, Vancouver Island (92C/16), British Columbia Ministry of Energy, Mines and Petroleum Resources, Geological Field Work, 1986, Paper 1987-1, pages 223-229.
- Massey, N.W.D. and Friday, S.J., Tercier P.E. and Rublee V.J. (1987b): Geology of the Cowichan Lake Area, NTS 92C/16, British Columbia Ministry of Energy, Mines and Petroleum Resources, Open File 1987-2.
- Massey, N.W.D. and Friday, S.J., Tercier P.E. and Rublee V.J. (1988a): Geology of the Chemainus River - Duncan Area, Vancouver Island (92C/16; 92B/13), B.C. Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork 1987, Paper 1988-1, pages 81-91.
- Massey, N.W.D., Friday, S.J., Tercier, P.E., and Potter, T.E. (1988b): Geology of the Duncan and Chemainus River Area, NTS 92B/13 and 92C/16E, B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1988-8.
- Muller, J.E. (1980): The Paleozoic Sicker Group of Vancouver Island, British Columbia, Geological Survey of Canada Paper 79-30, 24 pages.

9. Statement of Qualifications

I, John D. Kapusta of Vancouver, British Columbia, do hereby certify that:

1. I am a geologist residing at 6170 Arlington Street, Vancouver, B.C. and currently employed by Minnova Inc. of 311 Water Street, Vancouver, B.C.
2. I graduated from the University of Manitoba in 1981 with a BSc. degree in Geology.
3. I have been employed on a full time basis in my profession since April 1981.

Date: February 7, 1991

Signature: 



Appendix I

Drill Logs: 90-293, 90-294, 90-308

HOLE NUMBER: 90-293

MINNOVA INC.  
DRILL HOLE RECORD

IMPERIAL UNITS:

METRIC UNITS: X

PROJECT NAME: LARA PROJECT  
PROJECT NUMBER: 242  
CLAIM NUMBER: FANG  
LOCATION: 92B/13W

PLOTTING COORDS GRID:  
NORTH: 11100.00W  
EAST: 5767.00W  
ELEV: 705.00

ALTERNATE COORDS GRID:  
NORTH: 0+ 0  
EAST: 0+ 0  
ELEV: 0.00

COLLAR DIP: -53° 0' 0"  
LENGTH OF THE HOLE: 145.39m  
START DEPTH: 0.00m  
FINAL DEPTH: 145.39m

COLLAR GRID AZIMUTH: 180° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 208° 0' 0"

DATE STARTED: June 2, 1990  
DATE COMPLETED: June 4, 1990  
DATE LOGGED: June 4, 1990

COLLAR SURVEY: NO  
MULTISHOT SURVEY: NO  
ROD LOG: NO

PULSE EM SURVEY: NO  
PLUGGED: NO  
HOLE SIZE: NO

CONTRACTOR: Frontier Drilling  
CASING: 31.69  
CORE STORAGE: Chemainus, B.C.

PURPOSE:

DIRECTIONAL DATA:

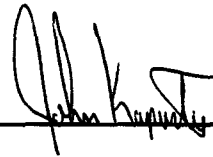
Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
145.39	-	-52° 0'	ACID	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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HOLE NUMBER: 90-293

MINNOVA INC.  
DRILL HOLE RECORD

DATE: 19-November-1990

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 31.69	<<OB>>					
31.69 TO 56.15	<<NANAIMO>>	<p>Colour: dark grey Grain Size: fine No distinct bedding; non foliated; fine grained sandstone</p> <p>48.87-51.74 -Fault, core very rubbly with locally gougy sections</p>		5% quartz carbonate veining		
56.15 TO 145.39	<<NANAIMO>>  E.O.H.	<p>Colour: black Grain Size: very fine Siltstone, indistinct bedding; gradational contact with overlying unit</p> <p>69.60-69.70 -Fault, rubbly core, minor gouge</p> <p>71.00-71.32 -Fault, rubbly core, minor gouge</p> <p>88.50-88.60 -Fault, gouge</p>	50	Minor quartz carbonate veining		My impression is that we drilling down bedding



HOLE NUMBER: 90-293

DRILL HOLE RECORD

LOGGED BY: J. D. Kapusta

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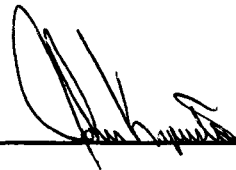


HOLE NUMBER: 90-294

MINNOVA INC.  
DRILL HOLE RECORD

DATE: 19-November-1990

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 61.08	«OB»					
61.08 TO 62.70	«NANAIMO»	Colour: dark grey Grain Size: medium grained Sandstone, fine to medium grained		Minor quartz carbonate veins		
62.70 TO 76.20	«NANAIMO»	Colour: black Grain Size: fine Siltstone  71.18-71.32 -badly broken core		Minor quartz carbonate veins		
	E.O.H.					



HOLE NUMBER: 90-294

DRILL HOLE RECORD

LOGGED BY: J. D. Kapusta

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HOLE NUMBER: 90-308

MINNOVA INC.  
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: LARA PROJECT  
PROJECT NUMBER: 242  
CLAIM NUMBER:  
LOCATION: NTS 92 B/13W

PLOTTING COORDS GRID: MINE  
NORTH: 11176.00W  
EAST: 7600.00W  
ELEV: 752.00

ALTERNATE COORDS GRID:  
NORTH: 0+ 0  
EAST: 0+ 0  
ELEV: 0.00

COLLAR DIP: -75° 0' 0"  
LENGTH OF THE HOLE: 316.10m  
START DEPTH: 0.00m  
FINAL DEPTH: 316.10m

COLLAR GRID AZIMUTH: 180° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 208° 0' 0"

DATE STARTED: October 29, 1990  
DATE COMPLETED: November 1, 1990  
DATE LOGGED: November 1, 1990

COLLAR SURVEY: NO  
MULTISHOT SURVEY: NO  
RQD LOG: NO

PULSE EM SURVEY: NO  
PLUGGED: NO  
HOLE SIZE: NQ

CONTRACTOR: FRONTIER DRILLING LTD.  
CASING: 13.40m  
CORE STORAGE: ON SITE

PURPOSE: DOWNDIP TEST OF PY ASH & CHERT IN 90-288 WITH 330 ppm Zn, 880 ppm Cu, over 7.30m.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
90.00	-	-75° 0'	ACID	OK		-	-	-	-	-	
154.50	-	-74° 0'	ACID	OK		-	-	-	-	-	
221.00	-	-73° 0'	ACID	OK		-	-	-	-	-	
279.50	-	-73° 0'	ACID	OK		-	-	-	-	-	
316.00	-	0° 0'	ACID		BAD ETCH	-	-	-	-	-	
252.00	212° 0'	-73° 0'	SING.SHOT	OK		-	-	-	-	-	
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HOLE NUMBER: 90-308

MINNOVA INC.  
DRILL HOLE RECORD

DATE: 3-December-1990

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 13.40	«OB»					
13.40 TO 55.00	DIORITE «DIORITE»	<p>Colour: dark green Grain Size: c.gr. Massive, Karmutsen; feldspar porphyritic</p> <p>50.98-52.21 -fine to medium grained phase; chill margin</p> <p>52.21-55.00 -50% felsic qp inclusions; diorite is intensely altered; locally appears brecciated and healed</p>		-diorite has been intensely epidized		
55.00 TO 106.31	QTZ PORPH FELSIC TUFF «QP TUFF»	<p>Colour: white Grain Size: m. to c.gr. Thick bedded, massive; weakly foliated; massive 5-10% qtz eyes from 2 mm to 8 mm; rare to 1 cm</p> <p>55.00-55.74 -interval appears to have been brecciated and healed</p> <p>55.96-56.50 -Fault, over 90% core loss; minor rubble; does not appear ground</p> <p>58.00-58.70 -Fault, minor gouge; intensely sheared rock; possible minor diorite inclusions</p> <p>58.70-58.90 -possible minor dioritic inclusion</p> <p>63.50-64.00 -Fault, strongly sheared, minor gouge</p> <p>68.80-70.00 -medium to dark grey in colour; generally fine grained</p>		Bleached white and silicified, moderate to well developed sericite on foliation surfaces	<p>No visible sulphides</p> <p>-minor chalcopyrite and pyrite between 5.63-55.74, 5-10% chalcopyrite; 10% pyrite</p> <p>-minor pyrite</p>	

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DRILL HOLE RECORD

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MINNOVA INC.  
DRILL HOLE RECORD

DATE: 3-December-1990

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		76.25-77.29 -strongly sheared, brecciated and healed  78.00-78.30 -brecciated and healed  79.25-79.26 -gouge seam  85.10-86.79 -Andesite lithic to lapilli tuff; minor lapilli to 3 cm	55	-intense epidote, alteration; also strongly silicified		
106.31 TO 114.36	ANDESITE LITHIC TUFF «AND LITH TUFF»	Colour: dark green Grain Size: m.gr. Thick bedded; massive, weakly foliated, massive very granular in nature  109.65-111.13 -interval contains about (+50) felsic grains to 5 mm  111.13-114.36 -very fine to fine grained; minor qtz veins with rhodacrosite		Strongly chlorite development on foliation surfaces; patchy epidote alteration	3% to locally 10% pyrite, disseminated patchy; trace chalcopyrite  -5-10% py, disseminated, trace sph	High zinc andesites?  -10% pyrite, disseminated, patchy
114.36 TO 117.10	FELSIC QTZ PORPHYRY «QP TUFF»	Colour: white to light grey Grain Size: m.gr. Thick bedded, massive, weakly foliated, up to 5% qtz eyes to 3 mm, locally to 8 mm; interval contain 50% qtz veins  116.59-117.10 -95% qtz veins, local chlorite veining		Bleached; weak to moderate sericite development on foliation surfaces	1% pyrite, disseminated and patchy	
117.10 TO 124.45	ANDESITE ASH LITHIC TUFF «AND ASH, LI TH TUFF»	Colour: dark green Grain Size: v.f. to m.gr. Thick bedded; moderate to strongly foliated; local weak granular texture; abundant felsic grains up to 2 mm		Well developed sericite on foliation surfaces	2-3% to locally 10% very fine to fine grained pyrite "syngenetic", minor to 1% sph; minor cp	High Zn Andesite

HOLE NUMBER: 90-308

DRILL HOLE RECORD

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HOLE NUMBER: 90-308

MINNOVA INC.  
DRILL HOLE RECORD

DATE: 3-December-1990

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		117.90-118.00 -qtz vein  118.60-118.89 -90% qtz veins  118.88-118.90 -Fault, gouge  122.45-122.50 -minor gouge	65		119.00-119.80 -1% stringers of red sphalerite	
124.45 TO 135.05	ANDESITE LITHIC TO LAP TUFF «AND LITH, LAP TUFF»	Colour: medium to dark green Grain Size: c.gr. Thick bedded; massive, weakly foliated; massive 5% epidote altered lithic fragments to 3 cm  132.90-133.75 -possible diorite		Weak to moderate chlorite development on foliation surfaces; local hematite staining on fracture surfaces; weak pervasive epidote alteration		
135.05 TO 154.43	FELSIC LAP TUFF «F LAP TUFF»	Colour: medium grey green Grain Size: c.gr. Thick bedded, massive; weakly foliated, massive 5 to locally 10% bleached white and silicified felsic fragments to 4 cm; groundmass is medium grey green, with minor feldspars and rare qtz eyes  141.84-142.20 -strongly sheared, abundant gouge  141.84-144.40 -moderate to strongly sheared, local gouge  148.28-151.00 -fragment size and percentage decreases  150.73-150.76 -Fault, gouge	60	Weak sericite development on foliation surfaces; interval in moderately to strongly silicified	Minor disseminated patchy, fine to medium grained pyrite	

HOLE NUMBER: 90-308

DRILL HOLE RECORD

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HOLE NUMBER: 90-308

MINNOVA INC.  
DRILL HOLE RECORD

DATE: 3-December-1990

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		151.00-151.90 -Andesite lithic tuff  153.50-154.43 -fault, 90% gouge	30			
154.43 TO 168.77	FELSIC QP TUFF «QP TUFF»	Colour: light to medium grey, weak green cast Grain Size: medium grained Thick bedded, moderately foliated, <5% qtz eyes, <1 mm to 2 mm, minor lithic material  161.26-161.84 -moderate to strongly sheared  168.75-168.77 -Fault, gouge	34	Moderate sericite development on foliation surfaces	Minor disseminated pyrite; local stringers	
168.77 TO 187.57	FELSIC TUFF «F TUFF»	Colour: light to medium grey Grain Size: fine to medium grained Thick, bedded, moderate to strongly foliated; local ash sections  168.77-168.97 -milled section, healed  168.97-173.05 -moderate to strongly sheared, local gouge seams  173.05-176.50 -intensely sheared, 80% gouge  176.50-183.90 -weak to moderately sheared  183.90-184.62 -intensely sheared, abundant gouge  185.90-186.84 -intensely sheared, abundant gouge	30       55	Moderate sericite development on foliation surfaces; patchy silicification	1 to locally 2% pyrite, disseminated and patchy, local trace chalcopyrite  -10-15% pyrite	

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DRILL HOLE RECORD

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HOLE NUMBER: 90-308

MINNOVA INC.  
DRILL HOLE RECORD

DATE: 3-December-1990

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		186.84-187.57 -moderate to strongly sheared				
187.57 TO 193.47	CHERT AND FELSIC ASH «CHT,F ASH»	Colour: white to greenish grey Grain Size: fine grained Moderately bedded; weakly foliated; bedding generally appears to be disrupted  187.66-187.76 -Fault, 100% gouge  CAB @ 192.50 m  193.07-193.47 -what appears to be a strongly milled andesite, sheared and healed	54  50	Poor sericite development	Trace pyrite	
193.47 TO 200.79	FELSIC TUFF «F TUFF»	Colour: medium to dark grey, weak green cast Grain Size: m.gr. Thick bedded; massive; weakly foliated, very granular in appearance; minor bleached white felsic fragments to 8 mm; abundant siliceous grains to 3 mm		Very weak sericite, minor chlorite development on foliation surfaces	1% diss. pyrite, to chalcopyrite	Possibly more intermediate in composition
200.79 TO 216.14	FELSIC LAP TUFF «F LAP TUFF»	Colour: light to medium grey Grain Size: c.gr. Thick bedded; massive, weakly foliated, massive; possibly 20-30% bleached white, silicified felsic fragments to 4 cm; matrix is a QFP; fragment boundaries generally diffuse  202.28-203.52 -Fault, 80% gouge  212.38-216.14 -fragment size and percentage decreases	20	Poor sericite development on foliation surfaces; very mottled texture	1-2% diss. f.gr. pyrite	

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DRILL HOLE RECORD

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HOLE NUMBER: 90-308

MINNOVA INC.  
DRILL HOLE RECORD

DATE: 3-December-1990

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
216.14 TO 250.46	INTERMED. TUFF «INT TUFF»	<p>Colour: medium green grey Grain Size: f. to m. grained Thick bedded, weakly foliated; gritty in texture; 5% lithic material to 3 mm; minor siliceous grains to 2 mm; predominantly ash</p> <p>231.09-232.18 -felsic ash to lithic tuff</p> <p>Interbedded andesite lithic to lapilli tuff; epidized fragments to 6 mm between 232.56-232.69 233.00-233.22 233.40-233.60 CAB @ 233.60 m</p> <p>234.77-236.20 -Andesite lithic tuff</p> <p>238.70-238.83 -Andesite lithic to lapilli tuff, epidized frags to 1 cm</p> <p>239.20-239.47 -Andesite lithic tuff; 15% epidized fragments to 3 mm</p>	45	<p>Weak to moderate sericite and chlorite on foliation surfaces</p> <p>-moderate sericite development on foliation surfaces</p> <p>-moderate to intense epidote alteration</p>	<p>1-2% disseminated fine grained pyrite; possible trace sph; tr. sp.</p> <p>-2-3% diss. f.gr. pyrite, tr cp</p> <p>242.92-244.30 -3-5% patchy, disseminated and stringer pyrite, tr cp</p>	
250.46 TO 269.40	ANDESITE LITHIC TUFF ASH «AND LITH TUFF,ASH»	<p>Colour: medium green Grain Size: f. to m.gr. Thickly bedded; moderately foliated; minor epidized lithic fragments to 2 mm; locally gritty and granular in texture</p> <p>269.39-269.40 -shear, gouge</p>	40	Well developed chlorite on foliation surfaces	Trace disseminated pyrite	Not a sharp contact, gradational

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DRILL HOLE RECORD

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MINNOVA INC.  
DRILL HOLE RECORD

DATE: 3-December-1990

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
269.40 TO 287.40	INTERMED. LITHIC TUFF ASH «I LITH TUF F,ASH»	Colour: medium grey green Grain Size: f. to m.gr. Thick bedded, moderately foliated; weak gritty texture; minor interbedded chert  269.50-269.60 -strongly sheared 270.50-270.61 -moderately sheared  273.40-273.70 -minor, interbedded chert  273.40-287.40 -core generally broken; local gouge seams  286.00-287.40 -very intensely sheared, local abundant gouge	50	Moderate chlorite and sericite development on foliation surfaces	Trace disseminated patchy pyrite     283.60-283.70 -pyritic stringer	
287.40 TO 297.78	ANDESITE LITHIC TO LAP TUFF «AND LITH,L AP TUFF»	Colour: medium green Grain Size: c.gr. Thick bedded, massive; weakly foliated, 15% light green, epidote altered lithic fragments to 4 cm		Weak pervasive epidote alteration, weak to moderate chlorite development on foliation surfaces	2-3% diss, patchy m. to c.gr. pyrite, tr cp, local qtz, pyrite stringers to 12 cm	
297.78 TO 301.82	FELSIC TUFF CHERT «F TUFF,CHT »	Colour: light to medium grained Grain Size: f. to m. grained Thin to moderately bedded; weak to strongly foliated; bedding highly disrupted throughout the interval, common gouge seams throughout to 300.36  Contact @ 301.82 m	50	Moderate sericite development on foliation surfaces	1% pyrite, predominantly stringers	
301.82 TO 316.07	INTERMED. TUFF «INT TUFF»	Colour: light to medium grey green Grain Size: m.gr. Thick bedded; massive; moderately foliated;		Moderate sericite, chlorite development	1-2% diss. f.gr. pyrite	

HOLE NUMBER: 90-308

DRILL HOLE RECORD

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HOLE NUMBER: 90-308

MINNOVA INC.  
DRILL HOLE RECORD

DATE: 3-December-1990

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
	E.O.H.	granular texture throughout 305.50-305.94 -80% disrupted chert beds ↓305.94-316.07↓ «Diorite» 313.02-316.07 -fine grained		on foliation surfaces  -strongly calcareous		

HOLE NUMBER: 90-308

DRILL HOLE RECORD

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HOLE NUMBER: 90-308

## ASSAY SHEET

DATE: 3-December-1990

Sample	From (m)	To (m)	Length (m)	ESTIMA Cu ppm	ASSAYS						GEOCHEMICAL					Sul %	COMMENTS										
					Pb ppm	Zn ppm	Ag ppm	Au ppb	Ba ppm	Cu %	Pb %	Zn %	Ag oz/t	Ag g/t	Au oz/t			Au g/t	Ba %	SG SG	NSR NSR						
14635	106.31	107.50	1.19	1	0	52	0	0																			
14636	107.50	108.70	1.20	21	0	52	0	0																			
14637	108.70	109.65	0.95	38	0	50	0	0																			
14638	109.65	111.13	1.48	17	0	32	0	5																			
14639	111.13	112.36	1.23	87	0	42	0	20																			
14640	117.10	118.00	0.90	192	0	108	0	10																			
14641	118.00	119.00	1.00	209	0	118	0	10																			
14642	119.00	119.90	0.90	315	156	5788	0	30																			
14643	119.90	121.30	1.40	152	190	996	0	10																			
14645	123.00	124.45	1.45	209	100	692	0	20																			
14646	187.57	189.50	1.93	9	18	186	0	10	700																		
14647	189.50	191.07	1.57	1	0	92	0	0	640																		
14648	191.07	193.07	2.00	1	2	52	0	0	840																		
14649	217.38	219.05	1.67	268	6	158	0	15																			
14650	231.09	232.18	1.09	537	34	104	0	20																			
14651	300.36	301.82	1.46	26	0	34	0	5	1560																		
14652	301.82	303.32	1.50	264	0	54	0	5	1440																		

HOLE NUMBER: 90-308

ASSAY SHEET

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HOLE NUMBER: 90-308

## GEOCHEM. SHEET

DATE: 3-December-1990

Sample	From (m)	To (m)	Length (m)	Al2O3 %	Ba %	CaO %	Fe2O3 %	K2O %	MgO %	MnO2 %	Na2O %	P2O5 %	SiO2 %	Sr %	TiO2 %	Zr %	S %	Tot %	Ag ppm	As ppm	Ba-ppm ppm	Cu ppm	Pb ppm	Sb ppm	Zn ppm	Au ppb
16487	65.00	68.00	3.00	12.81	0.21	3.67	0.42	2.56	0.43	0.01	3.31	0.01	73.13		0.22		0.04	96.82	0.6	38	620	3	39	1	16	5
16488	96.00	99.00	3.00	13.7	0.14	3.29	0.83	3.52	0.73	0.01	2.26	0.01	72.38		0.21		0.31	97.38	0.5	46	126	22	27	1	16	5
16444	121.30	123.00	1.70	18.3	0.11	0.01	12.17	3.32	7.35	0.8	0.74	0.13	48.62		0.85		2.47	94.87	3.8	1	172	298	156	1	2135	15
16489	144.80	147.80	3.00	14.46	0.18	1.09	2.37	2.42	2.09	0.04	3.96	0.01	69.61		0.3		1.14	97.66	0.4	24	754	19	22	1	29	5
16490	163.70	166.70	3.00	14.42	0.08	0.2	4	2.04	2.79	0.16	3.57	0.01	68.75		0.31		1.25	97.56	0.7	1	212	436	24	1	83	5
16491	197.00	200.00	3.00	15.75	0.05	0.01	4.94	1.37	4.5	0.16	4.43	0.01	64.62		0.42		0.72	96.95	0.6	1	60	201	27	1	128	5
16492	224.63	227.63	3.00	14.57	0.135	0.64	6.19	1.27	5.5	0.19	3.2	0.06	63.12		0.41		1.53	96.81	1	1	119	437	39	1	152	10
16493	245.97	248.97	3.00	16.45	0.115	0.01	9.86	1.86	10.45	0.2	0.83	0.07	51.83		0.55		2.69	94.92	1.6	1	75	149	3	1	91	5
16494	258.16	261.16	3.00	16.05	0.035	2.68	8.98	0.67	8.14	0.23	2.41	0.07	54.7		0.54		0.67	95.18	1.1	1	45	300	4	1	94	5
16495	279.50	282.50	3.00	16.85	0.08	3.01	9.3	0.64	7.02	0.19	4.1	0.14	52.31		0.59		1.6	95.83	1.2	1	34	450	3	1	67	5

HOLE NUMBER: 90-308

GEOCHEM. SHEET

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Appendix II  
Itemized Cost Statement

Itemized Cost Statement

A. Drill Costs

Drill Hole 90-293, June 2-4, 1990:

Drive Casing:	104', $104 \div 3.28 = 31.71$ m x \$47.00/m	\$1490.37
Coring:	373', $373 \div 3.28 = 113.72$ m x \$44.94/m	5,110.58
Man Hours:	15 x \$26/hour	390.00
Tractor Hours:	9 x \$60/hour	540.00
Construction:	2 hours x \$80/hour	160.00
-drill site (Valley Drilling)		-----
	subtotal	\$ 7,690.95

Drill Hole 90-294, June 4-5, 1990

Drive Casing:	164' $164 \div 3.28 = 50.00$ m x \$47.00/m	\$2350.00
Coring:	50, $50 \div 3.28 = 15.24$ m x \$44.94/m	684.89
Man Hours:	14 x \$26/hour	364.00
Drill Hours:	7 x \$38/hour	266.00
Tractor Hours:	2 x \$60/hour	120.00
Construction:	14 x \$80/hour	\$1120.00
-drill site (Valley Drilling)		-----
	subtotal	\$4904.89

Drill Hole 90-308, October 29-November 1, 1990

Drive Casing:	42', $42 \div 3.28 = 12.80$ m x \$47.00 m	\$601.60
Coring:	942', $942 \div 3.28 = 287.20$ x \$44.94 m	12,906.77
Coring:	53', $53' \div 3.28 = 16.16$ m x \$54.78 m	885.24
Man Hours:	2 x \$26/hour	52.00
Drill Hours:	1 x \$38/hour	38.00
Tractor Hours:	1 x \$60/hour	60.00
Casing Cap:	1 NW cap @ \$39.55	39.55
Casing:	4 NW 10' casing @ \$124.66	498.64
(left in hole)	2 NW 2' casing @ \$41.66	83.32
	1 NW casing shoe @ \$133.70	133.70
		-----
	subtotal	\$15,298.82

Subtotal \$27,894.66

B. Personnel Costs

John Kapusta, Project Geologist; 9 days @ \$325/day (June 2-5, 7, October 29-31, November 1)	\$2,925.00
Roy Knight, Field Assistant; 2 days @ \$110/day (May 8, 9)	220.00
	-----
Subtotal	\$3145.00

C. Truck Rental

16 days @ \$50/day	\$550.00
--------------------	----------

D. Food and Accommodation

John Kapusta, 9 days @ \$40/day	\$360.00
---------------------------------	----------

E. Report Preparation

John Kapusta, 2 days @ \$325/day	\$650.00
----------------------------------	----------

F. Analytical Costs

Min-En Labs (November 9, 14, 15)	
10 Minnova litho packages @\$23.50	\$235.00

Chemex Labs Ltd.  
(November 9)

5 (Code 100,25,232,G9; sample prep. 205,294) @ \$18.29 (Au, Ag, Co, CU, Fe%, Mn Mo, Ni, Pb, Zn, Ba)	\$91.45
--	---------

12 (Code 100, G9; sample prep. 205, 294) @ \$14.03 (Au, Ag, Co, Cu, Fe%, Mn, Mo, Ni, Pb, Zn)	\$168.36
---	----------

subtotal	----- \$259.81
----------	-------------------

Subtotal	\$494.81
----------	----------

Appendix III  
Diamond Drilling/Construction Invoices

FRONTIER DRILLING (1989) LTD.

19644 33A Ave.

Langley, B.C. V3A 7X1

Phone: 604-530-4100

INVOICE DATE June 21, 1990 PERIOD June 1 - 15, 1990  
INVOICE NUMBER 9001A-5 JOB 9001A-Lara/Canamara  
LOCATION Chemainus, B.C.

IN ACCOUNT WITH MINNOVA INC.  
4th FLOOR - 311 WATER STREET  
VANCOUVER, B.C. V6B 1B8  
681-3771

PAGE ONE: DRILL FOOTAGE CHARGES \$49,720.37  
PAGE TWO: FIELD COST CHARGES \$ 6,396.00  
PAGE THREE: SUPPLIES AND SERVICES \$ 4,922.64  
TOTAL INVOICE \$61,039.01

Notification must be made within 7 days of invoice date if there is disagreement with invoice calculations.

MINNOVA INC.

VENDOR NAME		INVOICE NUMBER OR DATE		CURRENCY	
FRONTIER DRILLING		9001A-5		1 - CDN	
				2 - US	
ACCOUNT CODE				CR	
GENERAL LEDGER	DETAIL	EXPLORATION PROJECTS	AMOUNT	X	
70580	600	242	61,039.01		

DRILL FOOTAGE CHARGES

HOLE NUMBER	CASING			CORING		
	FROM	TO	TOTAL	FROM	TO	TOTAL
290				467	588	121
291				187	487	300
292	0	84	84	84	696	612
293	0	104	104	104	477	373
294	0	164	164	164	200	FIELD COST
				200	250	50
295	0	25	25	25	697	672
296	0	164	164	164	250	FIELD COST
				250	984	734
				984	1149	165 *
TOTALS			541			2862
						165 *
CASING	$541' \div 3.28 = 164.9 \text{ metres} \times \$47.00 = \$7,750.30$					
CORING	$2862' \div 3.28 = 872.6 \text{ metres} \times \$44.94 = \$39,214.64$					
CORING	$165' \div 3.28 = 50.3 \text{ metres} \times \$54.78 = \$2,755.43$					
TOTAL DRILL FOOTAGE CHARGES					\$49,720.37	



SUPPLIES AND SERVICESAD AND ADDITIVES:

4 Pails Pac-Vis Polymer @ \$96.00	\$384.00
15 Bags Gel Mud @ \$9.70	145.50
2 Pails DD-2000 Polymer @ \$132.40	264.80
<b>TOTAL</b>	<b>\$794.30</b>

DRILL BITS CHARGED:

3 - 4½ tricones @ 100% and 1 - 4½ tricone @ 50% of cost - \$273.20	\$956.20
<b>TOTAL</b>	<b>\$956.20</b>

OTHER DIAMOND PRODUCTS:

3 NW shoes @ \$133.30	\$399.90
3 NW caps @ \$39.55	118.65
<b>TOTAL</b>	<b>\$518.55</b>

DRILLING TOOLS LOST OR DAMAGED:

12 NW 10' casing @ \$124.66	\$1,495.92
1 NW 5' casing @ \$ 74.35	74.35
2 N 2' casing @ \$ 41.66	83.32
<b>TOTAL</b>	<b>\$1,653.59</b>

MISC.:COREBOXES:

FUEL \_\_\_\_\_

RENTALSHOLE TESTING

MISC. Flat rate-demobilization 2 drills @ \$500.00	\$1,000.00
<b>TOTAL</b>	<b>\$1,000.00</b>

**TOTAL SUPPLIES AND SERVICES** \$4,922.64

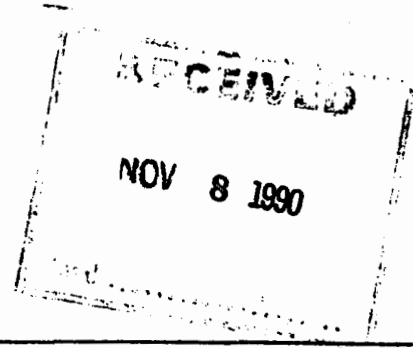


FRONTIER DRILLING (1989) LTD.

19644 33A Ave.

Langley, B.C. V3A 7X1

Phone: 604-530-4100



INVOICE DATE November 5, 1990 PERIOD October 14 - 31, 1990  
INVOICE NUMBER 9003-2 JOB 9003 Lara 38-3  
LOCATION Chemainus, B.C.

IN ACCOUNT WITH Minnova Inc.  
4th Floor - 311 Water Street  
Vancouver, B.C. V6B 1B8

PAGE ONE: DRILL FOOTAGE CHARGES	\$66,975.63	✓
PAGE TWO: FIELD COST CHARGES	\$ 990.00	✓
PAGE THREE: SUPPLIES AND SERVICES	<del>\$ 5,683.50</del> 5685.10	✓
TOTAL INVOICE	<del>\$73,649.13</del>	
	\$ 73,650.73	

JK says  
OK.

DRILL FOOTAGE CHARGES

HOLE NUMBER	CASING			CORING		
	FROM	TO	TOTAL	FROM	TO	TOTAL
298	0	74	74	74	717	643
300	0	30	30	30	984	954
				984	1050	66 *
304	0	66	66	66	949	883
306	0	52	52	52	984	932
				984	1077	93 *
308	0	42	42	42	984	942
				984	1037	53 *
			264			4354
						212 *
<p>CASING      <math>264 \div 3.28 = 80.5 \text{ m} \times \\$47.00 = \\$ 3,783.50</math></p> <hr/> <p>CORING      <math>4354 \div 3.28 = 1327.4 \text{ m} \times \\$44.94 = \\$59,653.35</math></p> <hr/> <p>              <math>212 \div 3.28 = 64.6 \text{ m} \times \\$54.78 = \\$ 3,538.78</math></p> <hr/> <p>TOTAL DRILL FOOTAGE CHARGES    <math>\\$66,975.63</math></p>						



SUPPLIES AND SERVICES

AND ADDITIVES:

11 Pails Pac-vis Polymer @ \$98.70	\$1,085.70
27 Bags Gel Mud @ \$10.14	273.78
2 Pails 2000 powder polymer @ \$132.40	264.80
TOTAL	\$1,624.28

DRILL BITS CHARGED:

TOTAL	0

OTHER DIAMOND PRODUCTS:

4 NW casing shoes @ \$133.70	\$ 534.80
TOTAL	\$ 533.20
	534.80

DRILLING TOOLS LOST OR DAMAGED:

21 NW 10' casing @ \$124.66	\$2,617.86
6 NW 2' casing @ \$41.66	249.96
4 NW caps @ \$39.55	158.20
TOTAL	\$3,026.02

MISC.:

COREBOXES:	
FUEL	
RENTALS	
HOLE TESTING	
MISC. Mobilization Fee	\$ 500.00
TOTAL	\$ 500.00

TOTAL SUPPLIES AND SERVICES

5685.10  
~~5,683.50~~

Valley Drilling &  
Excavating  
Gen Del  
Westholme. B.C  
UOR 3CO.

Date May 1990  
M Minnova

SOLD BY	C.O.D.	CHARGE	ON ACCT.	ACCT. FWD.
1		<u>Drill 40 excavation</u>		
2		<u>20.00 per hr.</u>		
3		<u>'92 hrs</u>		<u>7360.00</u>
4				
5		<u>Cartage in.</u>		<u>150.00</u>
6				
7		<u>Cartage to Canamang</u>		<u>150.00</u>
8				
9				<u>7660.00</u>
10				
11		<u>No charge for</u>		
12		<u>move out.</u>		
13				
14				
15				

18

BROWNLINE 65909 00028

MINNOVA INC.

VENDOR NAME		INVOICE NUMBER OR DATE		CURRENCY	F. I. L.
VALLEY DRILLING		MAY/90		1 - CDN 2 - US	
ACCOUNT CODE			AMOUNT	CR	X
GENERAL LEDGER	DETAIL	EXPLORATION PROJECTS			
70580	600	2412	7660.00		
APPROVED	CODED	EXT. & ADDITION	APAY		
			T900013		

Valley Drilling &  
Excavating  
Gen Del  
Westholme B.C.  
VOR 300.

Date <u>May</u> 19 <u>90</u>		M <u>Minnowa</u>	
SOLD BY	C.O.D.	CHARGE	ON ACCT.
1		May 1 Road and	7.5 hrs
2		1 sight 293	
3			
4		May 2. Road & 2 sights	8.5 hrs
5		280; 282	
6		May 3. ditching road	
7		1 sight and 2 bridges	7.5 hrs
8		297	
9		May 4 Fixed road	8.5 hrs
10		crossed creek.	
11		P5	
12		May 5. Put out Truila	8.5 hrs
13		2 sight. P5	
14			
15			

BROWLINE 65909 00028

Valley Drilling &  
Excavating  
Gen Del  
Westholme B.C.  
VOR 300

Date <u>May</u> 19 <u>90</u>		M <u>Minnowa</u>	
SOLD BY	C.O.D.	CHARGE	ON ACCT.
1		May 7. Put in road to	3 hrs
2		claim stake.	
3		P5; 294	
4		May 8 Crashed through	
5		cut trail and started	8 hrs
6		back clearing road	
7		294	
8		May 9. work back to.	
9		high hill and put in	8 hrs
10		1 drill sight.	
11		294; 295	
12		May 10 Put in cord wood.	
13		at steep hill and	8 hrs
14		road, 1 drill sight.	
15		295, 296	

BROWLINE 65909 00028

Valley Drilling &  
Excavating  
Gen Del  
Westholme B.C.  
VOR 300

Date <u>May</u> 19 <u>90</u>		M <u>Minnowa</u>	
SOLD BY	C.O.D.	CHARGE	ON ACCT.
1		May 11 Put in bridge	6 hrs
2		across creek.	
3		4 road.	
4			
5		May 14. Put two	8 hrs
6		drill rods and	
7		fixed road on	
8		way out road	
9		down for low bed	
10			
11		May 15 Moved	
12		1 post & fixed	5 hrs
13		road.	
14			
15			

BROWLINE 65909 00028

Appendix IV  
Analytical Results and Invoices

NOV 14 1990

Assay Certificate

0V-1681-RA1

Company: **MINNOVA INC.**  
Project: LARA 242  
Attn: G. WELLS/ J. KAPUSTA

Date: NOV-09-90

Copy 1. MINNOVA INC., VANCOUVER, B.C.  
2. MINNOVA INC., CHEMAINUS, B.C.

We hereby certify the following Assay of 20 ROCK samples  
submitted NOV-01-90 by J. KAPUSTA.

Sample Number	LOI %
16460	
16461	
16462	
16463	
16464	
16465	
16466	
16467	
16468	
16469	
16478	
16479	
16480	
16481	
16482	
16483	
16484	
16485	
16486	
16487	

Certified by 







**MIN  
• EN  
LABORATORIES**  
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS  
ANALYSIS • SAMPLING • TESTING • CONSULTANTS

**VANCOUVER OFFICE:**  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
FAX (604) 980-9621

**THUNDER BAY LAB.:**  
TELEPHONE (807) 622-8958  
FAX (807) 623-5931

**SMITHERS LAB.:**  
TELEPHONE/FAX (604) 847-3004

**INVOICE**

TO : MINNOVA INC.  
4TH FLOOR,  
311 WATER STREET,  
VANCOUVER, B.C.  
V6B 1B8

INVOICE No 18952D  
PAGE : 1 OF 1  
DATE : Nov 09/90

ACCOUNT: 10162

ATTENTION: G.WELLS/J.KAPUSTA  
PROJECT: LARA 242

FILE No: OV-1681

QTY DESCRIPTION	UNIT PRICE	AMOUNT
20 MINNOVA LITHO PACKAGE	23.50	470.00
	* TOTAL *	470.00

THESE ARE PROFESSIONAL SERVICES AND ARE PAYABLE WHEN RENDERED.  
OUTSTANDING BALANCES OVER 30 DAYS WILL BE CHARGED 2% INTEREST/MONTH.

Assay Certificate

OV-1699-RA1

Company: **MINNOVA INC.**  
Project: **LARA 242**  
Attn: **G.WELLS/J.KAPUSTA**

Date: **NOV-14-90**

Copy 1. MINNOVA INC., VANCOUVER, B.C.  
2. MINNOVA INC., CHEMAINUS, B.C.

NOV 16 1990

*We hereby certify* the following Assay of 20 CORE samples  
submitted NOV-07-90 by J.KAPUSTA.

Sample Number	LOI %
14574	
14575	
14644	6.60
16498	
16499	
16500	
16508	
16509	
16510	
16511	
16512	
16526	
16527	
16528	
16529	
16530	
16531	
16532	
16533	
16534	

Certified by \_\_\_\_\_

MIN-EN LABORATORIES





**INVOICE**

TO : MINNOVA INC.  
4TH FLOOR,  
311 WATER STREET,  
VANCOUVER, B.C.  
V6B 1B8

INVOICE No 18971D  
PAGE : 1 OF 1  
DATE : Nov 14/90  
ACCOUNT: 10162

NOV 16 1990  
Ans'd ..... FILE No: OV-1699

ATTENTION: G.WELLS/J.KAPUSTA  
PROJECT: LARA 242

QTY DESCRIPTION	UNIT PRICE	AMOUNT
20 MINNOVA LITHO PACKAGE	23.50	470.00
ISLAND COACH 40502 (FILE OV-1699) } 1 Sample / out of 20	12.25	12.25
ISLAND COACH 34275 (FILE OV-1677)	10.75	10.75
ISLAND COACH 34279 (FILE OV-1681) } 1 Sample / out of 20	8.50	8.50
ISLAND COACH 34280 (FILE OV-1681)	12.25	12.25
ISLAND COACH 34266 (FILE OV-1664)	12.25	12.25
ISLAND COACH 34267 (FILE OV-1664)	10.50	10.50
* TOTAL *		536.50

THESE ARE PROFESSIONAL SERVICES AND ARE PAYABLE WHEN RENDERED.  
OUTSTANDING BALANCES OVER 30 DAYS WILL BE CHARGED 2% INTEREST/MONTH.

SPECIALISTS IN MINERAL ENVIRONMENTS  
 CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
 705 WEST 15TH STREET  
 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
 TELEPHONE (604) 980-5814 OR (604) 988-4524  
 FAX (604) 980-9621

**THUNDER BAY LAB.:**  
 TELEPHONE (807) 622-8958  
 FAX (807) 623-5931

**SMITHERS LAB.:**  
 TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1687-RA1

Company: MINNOVA INC.  
 Project: LARA 242  
 Attn: G. WELLS/J. KAPUSTA

Date: NOV-15-90

Copy 1. MINNOVA INC., VANCOUVER, B.C.  
 2. MINNOVA INC., CHEMAINUS, B.C.

NOV 19 1990  
 Ans'd .....

We hereby certify the following Assay of 25 ROCK samples submitted NOV-03-90 by J. KAPUSTA.

Sample Number	LOI %
---------------	-------

14598	[REDACTED]
14615	[REDACTED]

16488	2.25
16489	2.50
16490	2.70

16491	3.00
16492	3.70
16493	6.70
16494	4.50
16495	4.80

196	[REDACTED]
16497	[REDACTED]
16470	[REDACTED]
16471	[REDACTED]
16472	[REDACTED]

16473	[REDACTED]
16474	[REDACTED]
16475	[REDACTED]
16501	[REDACTED]
16502	[REDACTED]

16503	[REDACTED]
16504	[REDACTED]
16505	[REDACTED]
16506	[REDACTED]
16507	[REDACTED]

Certified by



MIN-EN LABORATORIES









# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221

To: MINNOVA INC.

3RD FLOOR, 311 WATER ST.  
 VANCOUVER, BC  
 V6B 1B8

Pages: 1  
 Total: 1  
 Invoice Date: 9-NOV-90  
 Invoice No.: I-9026337  
 P.O. Number: 242

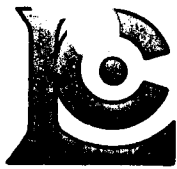
Project: LARA  
 Comments: CC: JOHN KAPUSTA

## CERTIFICATE OF ANALYSIS A9026337

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm	Ba ppm			
14560	205 294	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]			
14561	205 294	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]			
14562	205 294	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]			
14563	205 294	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]			
14564	205 294	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]			
14565	205 294	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]			
14566	205 294	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]			
14567	205 294	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]			
14568	205 294	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]			
14569	205 294	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]			
14570	205 294	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]			
14571	205 294	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]			
14572	205 294	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]			
14573	205 294	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]			
14635	205 294	< 5	< 0.5	13	1	3.51	435	< 1	3	< 2	52	-----			
14636	205 294	< 5	< 0.5	15	21	4.16	445	< 1	4	< 2	52	-----			
14637	205 294	< 5	< 0.5	12	38	3.34	445	< 1	2	< 2	50	-----			
14638	205 294	5	< 0.5	15	17	4.42	260	< 1	3	< 2	32	-----			
14639	205 294	20	< 0.5	14	87	3.84	480	< 1	3	< 2	42	-----			
14640	205 294	10	< 0.5	27	192	4.47	1125	< 1	9	< 2	108	-----			
14641	205 294	10	< 0.5	21	209	5.02	1385	< 1	11	< 2	118	-----			
14642	205 294	30	< 0.5	40	315	6.63	3640	2	20	156	5790	-----			
14643	205 294	10	< 0.5	25	152	5.76	4990	< 1	18	190	996	-----			
14645	205 294	20	< 0.5	30	209	6.78	4410	< 1	15	100	692	-----			
14646	205 294	10	< 0.5	3	9	1.94	590	< 1	1	18	186	700			7 Total
14647	205 294	< 5	< 0.5	2	1	1.62	510	< 1	1	< 2	92	640			
14648	205 294	< 5	< 0.5	2	< 1	1.29	345	< 1	1	2	52	840			
14649	205 294	15	< 0.5	11	268	4.08	1270	1	27	6	158	-----			
14650	205 294	20	< 0.5	8	537	3.28	750	1	5	34	104	-----			
14651	205 294	5	< 0.5	3	26	2.32	365	3	2	< 2	34	1560			
14652	205 294	5	< 0.5	12	264	4.14	865	1	4	< 2	54	1440			
14653	205 294	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]			
14654	205 294	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]			

CERTIFICATION:

*B. Coughlin*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: MINNOVA INC.

3RD FLOOR, 311 WATER ST.  
VANCOUVER, BC  
V6B 1B8

A9026337

Comments: CC: JOHN KAPUSTA

CERTIFICATE

A9026337

MINNOVA INC.

Project: LARA  
P.O. #: 242

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 9-NOV-90.

## SAMPLE PREPARATION

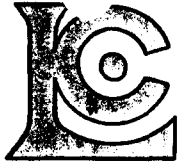
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	33	Geochem ring to approx 150 mesh
294	33	Crush and split (0-10 pounds)
238	33	NITRIC-AQUA REGIA DIGESTION
232	19	PERCHLORIC-NITRIC-HYDROFLUORIC D

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	33	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
1005	33	Ag ppm: 9 element, soil and rock	ICP-AES	0.5	200
1929	33	Co ppm: 9 element, soil & rock	ICP-AES	1	10000
1931	33	Cu ppm: 9 element, soil & rock	ICP-AES	1	10000
1932	33	Fe %: 9 element, soil & rock	ICP-AES	0.01	15.00
1937	33	Mn ppm: 9 element, soil & rock	ICP-AES	5	10000
1938	33	Mo ppm: 9 element, soil & rock	ICP-AES	1	10000
1940	33	Ni ppm: 9 element, soil & rock	ICP-AES	1	10000
1004	33	Pb ppm: 9 element, soil and rock	ICP-AES	5	10000
1950	33	Zn ppm: 9 element, soil & rock	ICP-AES	2	10000
25	19	Ba ppm: HClO4-HNO3-HF digestion	AAS	10	10000

Ans'd .....

NOV 14 1990



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: MINNOVA INC.

3RD FLOOR, 311 WATER ST.  
VANCOUVER, BC  
V6B 1B8

INVOICE NUMBER

I 9 0 2 6 3 3 7

## BILLING INFORMATION

Date: 9-NOV-90  
Project: LARA  
P.O. No.: 242  
Account: BBX

Comments:

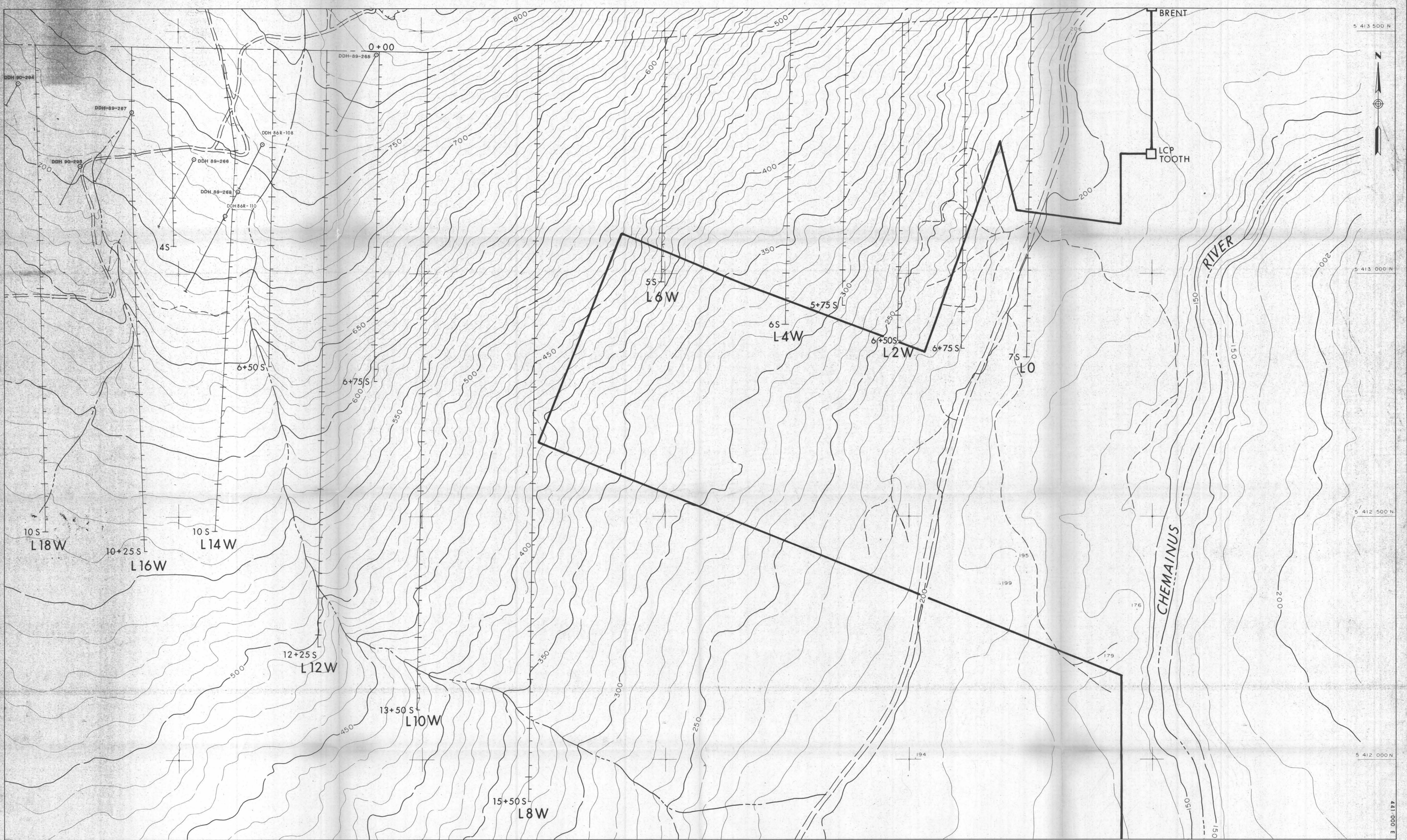
Billing: For analysis performed on  
Certificate I9026337

Terms: Payment due on receipt of invoice  
1.5% per month (18% per annum)  
charged on overdue accounts

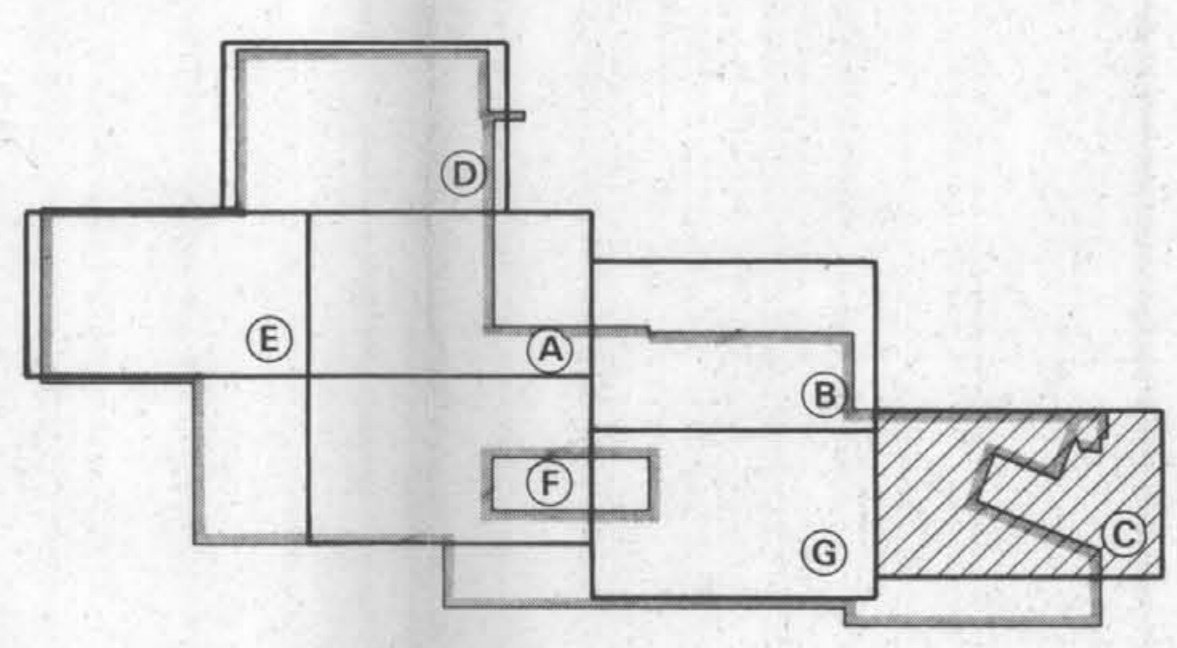
Please Remit Payments to:

**CHEMEX LABS LTD.**  
212 Brooksbank Ave.,  
North Vancouver, B.C.  
Canada V7J-2C1

CHEMEX CODE	ANALYSIS DESCRIPTION	SAMPLES ANALYSED	UNIT PRICE	AMOUNT
100	- Au ppb FA+AA			
25	- Ba ppm			
232	- HF digestion			
G9	- TRACE-9	19	17.50	332.50
100	- Au ppb FA+AA			
G9	- TRACE-9	14	12.50	175.00
Sample preparation and other charges.				
205	- Geochem - RING	33	1.75	57.75
294	- Crush and split	33	2.25	74.25
Total Cost \$				639.50
Client Discount ( 15%) \$				95.93
<b>TOTAL PAYABLE (CDN) \$</b>				<b>543.57</b>



GEOLOGICAL BRANCH  
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SHEET C



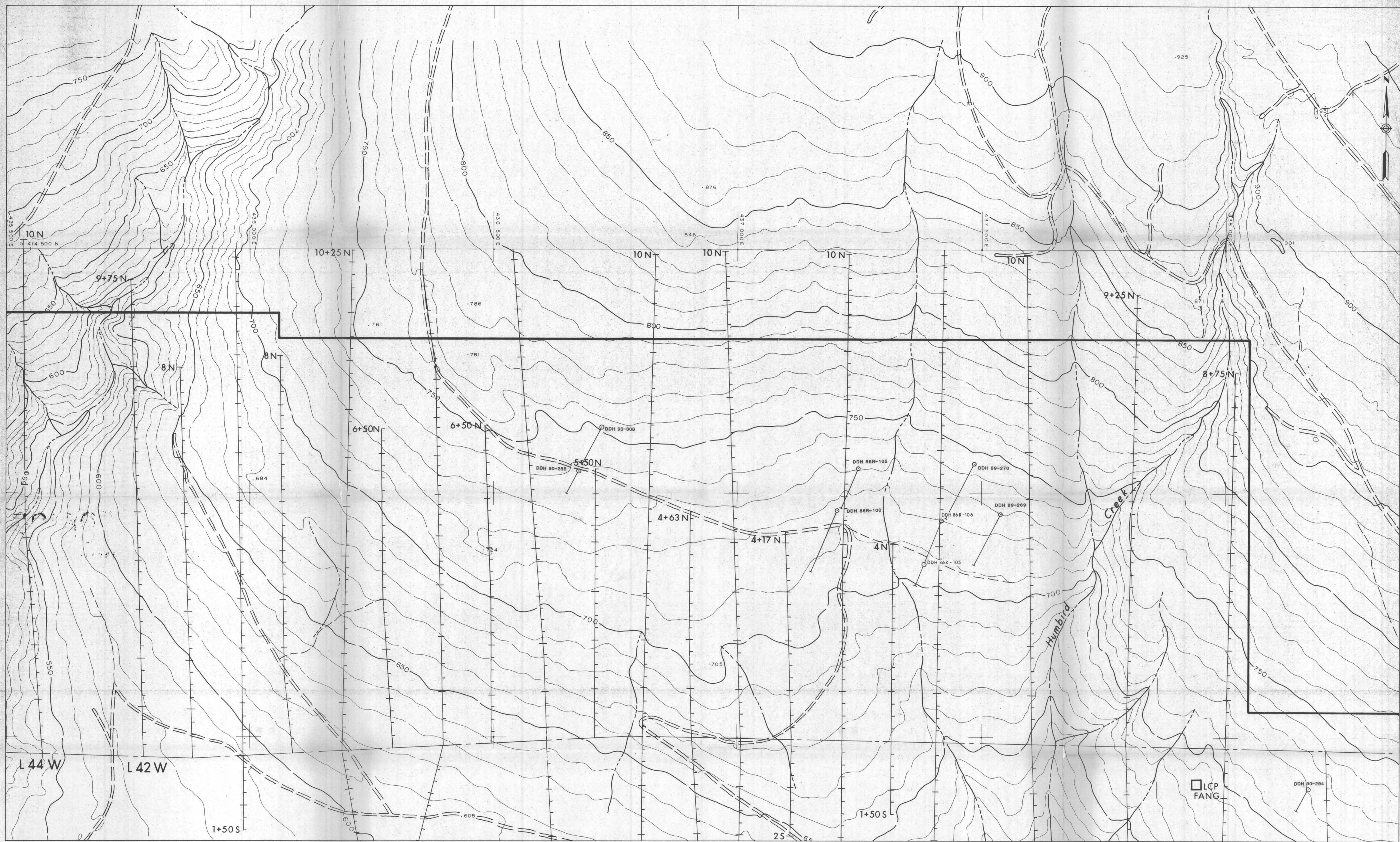
PLATE 1

MINNOVA Inc.

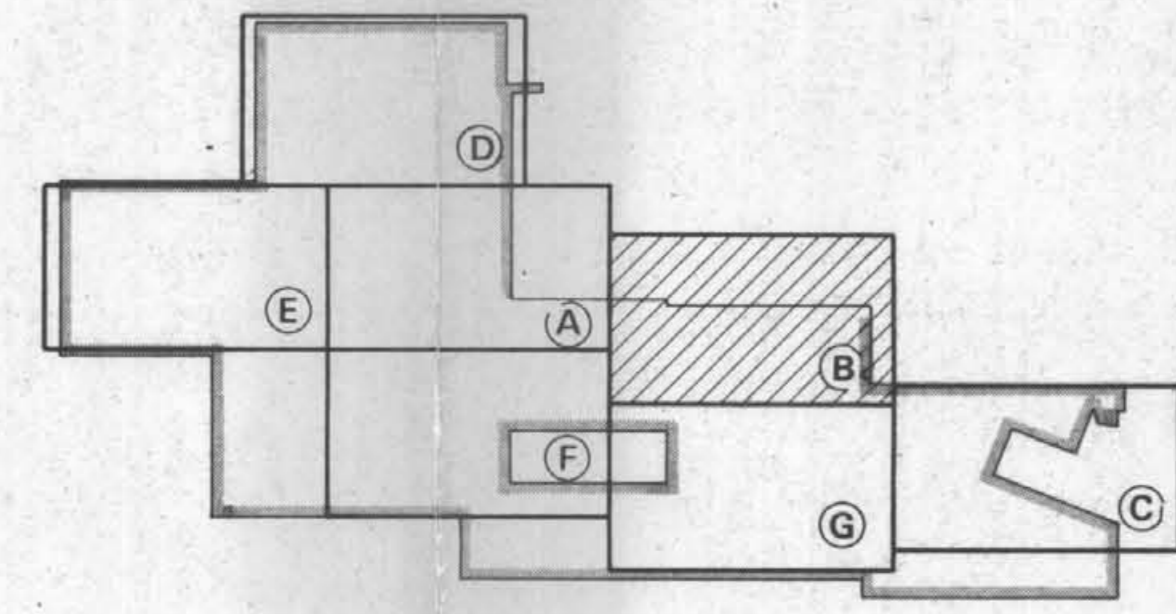
DIAMOND DRILL HOLE PLAN

FAR EAST GRID AREA  
LARA PROJECT

DATE FEBRUARY 1987.	SCALE 1: 2,500	SHEET 92 B / 13 W	DRAWING NO. E- 2629
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GEOLOGICAL BRANCH  
ASSESSMENT REPORT  
20,981



SHEET B



MINNOVA Inc.			
DIAMOND DRILL HOLE PLAN			
EAST GRID AREA LARA PROJECT			
DATE FEBRUARY 1987	SCALE 1:2,500	NTS 92 8/13W	DRAWING NO. E-2630