

GEOPHYSICAL REPORT
CHU CHUA PROJECT
Green Mountain Group

KAMLOOPS MINING DIVISION

NTS 92P/8E, 82M/5W

Lat: 51°24' N Long: 120°00' W

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GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,275

Owner/Operator
Minnova Inc
4th Floor 311 Water St
Vancouver, B.C.

Shelley Lear
January 18, 1989

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INTRODUCTION

General

The Chu Chua property was optioned by Minnova Inc in August 1985 from Pacific Cassiar Ltd., Quinterra Resources Inc., and Vestor Explorations Ltd. This report covers a portion of the property called the Green Mountain Group. The group consists of six claim blocks totalling 85 claim units.

Location and Access (Figure 1)

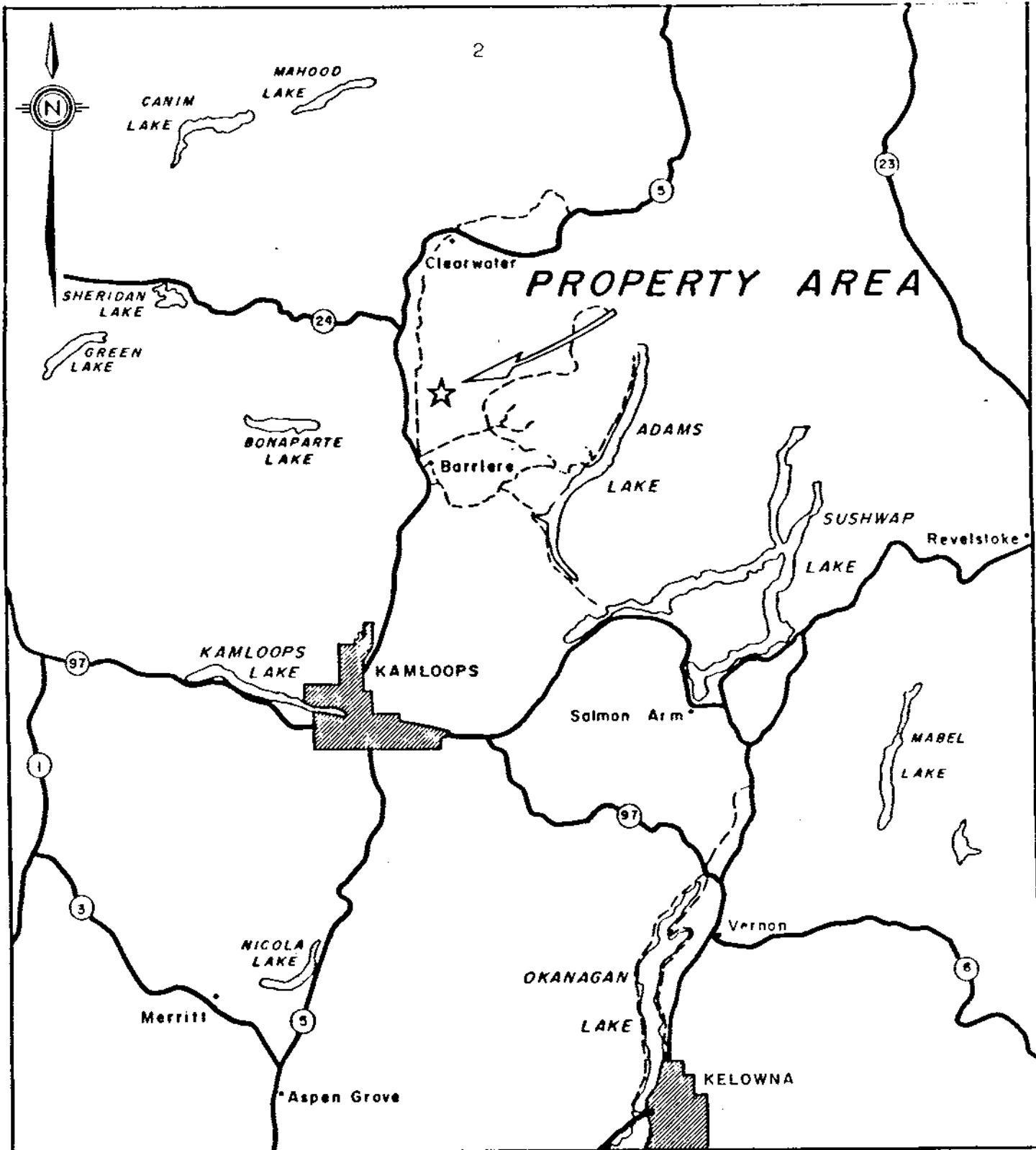
The Chu Chua property is located about 24km NE of Barriere, B.C. Access is readily available from Highway 5 via the North Barriere Lake road and the Birk Creek logging road.

Physiography

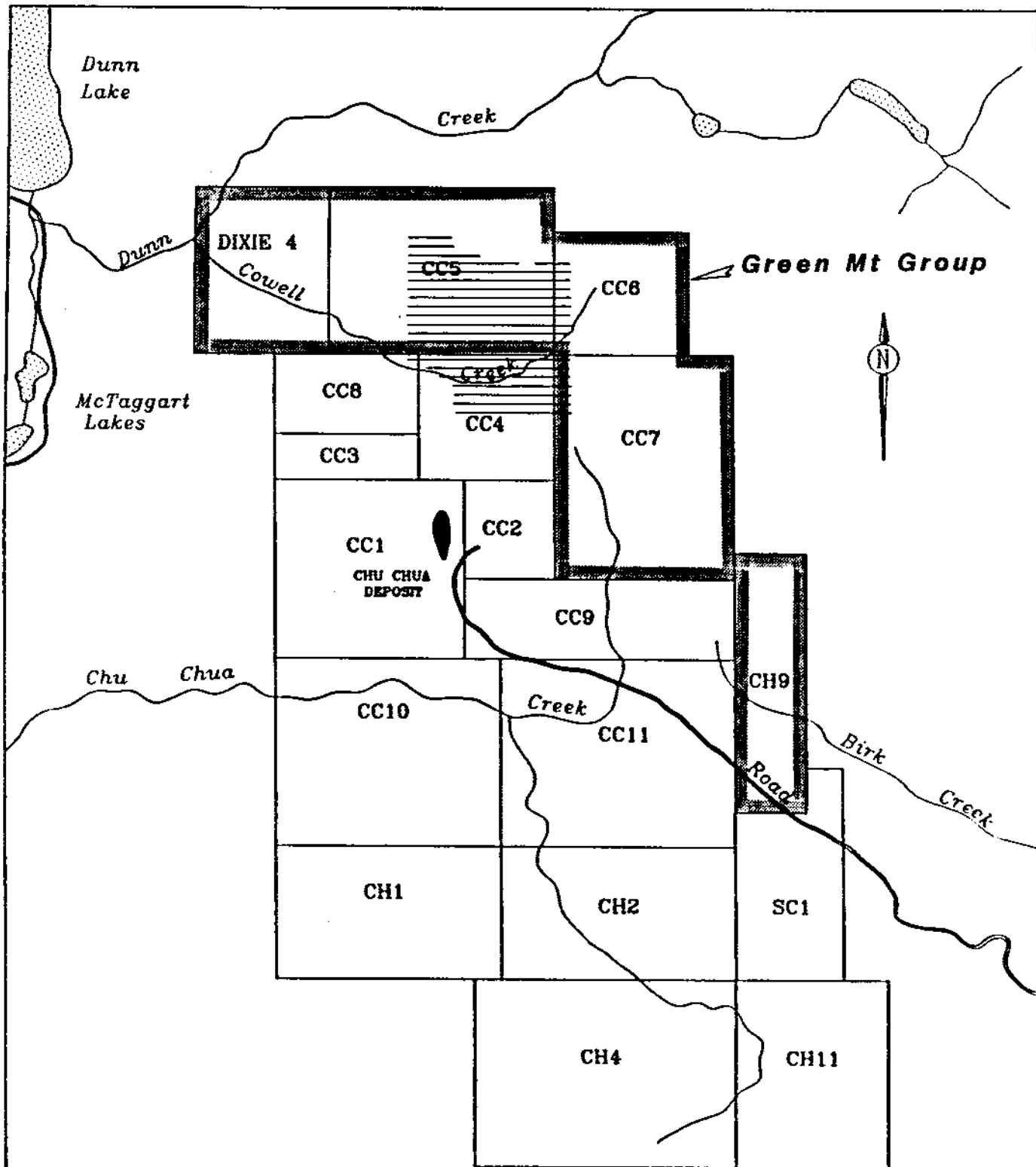
The claims lie in sub-alpine terrain with average elevations of 1800m to 2000m. Towards Dunn Creek, elevations drop to 900m and the topography on the slope of the valley is very steep. The climate is moderate to extreme with the snow free period extending from July to October.

Property and Ownership

Pertinent claim data for the Green Mountain Group is summarized in Table 1. Claim configuration is shown on Figure 2. All claims are 100% owned by Minnova Inc (formerly Corporation Falconbridge Copper).



- LOCATION MAP -
 CHU CHUA OPTION



CHU CHUA OPTION
CLAIM CONFIGURATION
& GRIDS

DWB/sg Figure 2

Table 1

<u>Claim</u>	<u>Units</u>	<u>Record No.</u>	<u>Expiry Date</u>
CC5	20	1455	Oct 24, 1989
CC6	9	1456	Oct 24, 1989
CC7	20	1457	Oct 24, 1989
CC9	12	1458	Oct 24, 1989
CH9	12	1469	Oct 24, 1989
DIXIE 4	12	6858	Nov 21, 1997

History

Previous exploration on the claims was conducted by Craigmont Mines Ltd. They discovered a massive sulphide deposit on the Chu Chua property, south of the Green Mtn Group in 1978. Work on the Green Mtn area was confined to linecutting, geochemical sampling, geological mapping and limited diamond drilling. During 1979 a Dighem AEM survey was flown over the area (AR - July '79, Fraser & Dvorak).

During the 1987 field season, Minnova conducted reconnaissance mapping on the CC7 claim in the vicinity of Green Mtn.

Work Done

During the 1988 field season work consisted of extending the Chu Chua Main grid to the north. A MaxMin II survey was conducted over most of the grid. Only a portion of the total grid area lies within the Green Mtn Group.

Linecutting 28.8km extended main grid north

MaxMin II 19.1km new grid lines covered

LOGISTICS

Linecutting

A cut grid consisting of 42.1km was established by Bushworks Exploration Support Services Inc north of the Chu Chua Main grid. Of this total, 28.8km lie on the Green Mtn Group (Figure 3).

MaxMin II

The MaxMin II survey was conducted by MWH Geo-Surveys Ltd between Sept 10 to Sept 18, 1988. Coil spacing was 150m with stations at 25m along grid lines 100m apart. Frequencies used were 444 Hz and 1777 Hz.

At each station, secant measurements were taken to correct for nominal coil spacing irregularities induced by rough terrain. The in-phase and quadrature values, read as a percentage of the primary field strength, were recorded for each of the frequencies.

RESULTS

MaxMin II Survey (Fig. 4,5)

One weak anomaly is present on the 1777 Hz frequency map. This anomaly extends from line 12900N, 10750E to line 12100N, 11050E. It is strongest on lines 12700, 12500 and 12400 becoming progressively weaker towards the south and disappearing below line 12100. No anomalies were discernable on the 444 Hz frequency plot.

CONCLUSIONS AND RECOMMENDATIONS

The 1988 geophysical survey indicated one weak anomalous response. Further work including geological mapping, rock sampling and soil sampling on the grid is needed to evaluate the economic potential of this area. A magnetometer/VLF geophysical survey is also recommended.

ITEMIZED COST STATEMENT

MaxMin II Survey

MWH Geo-Surveys Ltd.

6.5 days @ \$575/day = \$3737.50

Linecutting

Bushworks Exploration Services

28.8km @ \$320/km = \$9216.00

Supervision and Report

D. Blackadar 2 days @ \$300 = \$ 600.00

S. Lear 2 days @ \$250 = \$ 500.00

Total \$14,053.50

STATEMENT OF QUALIFICATIONS

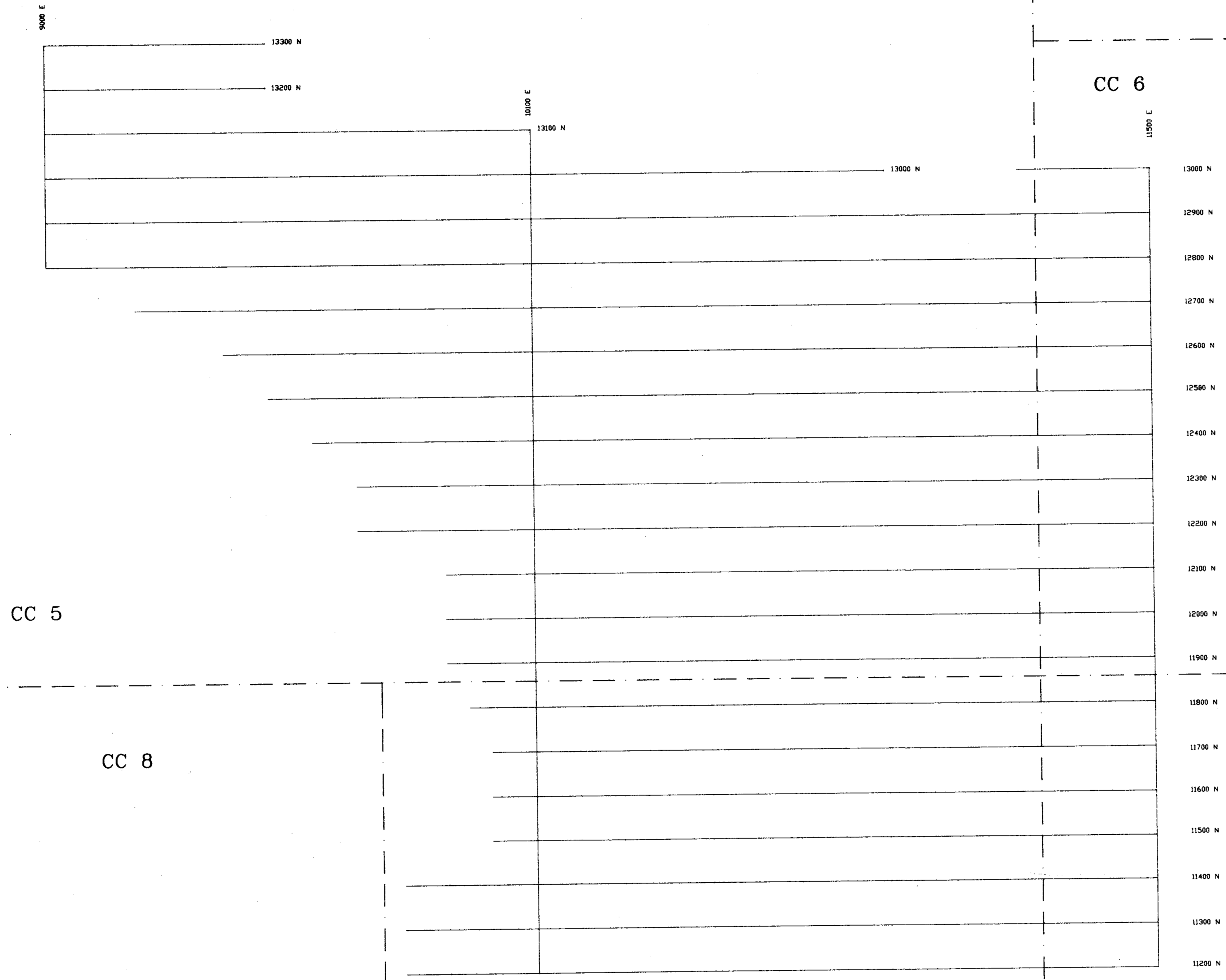
I, Shelley R. Lear certify that:

1. I am an Exploration Geologist residing at 2393 W. 6th Ave., Vancouver, B.C.
2. I have a BSc in Geology from the University of British Columbia (1981).
3. I have practised my profession since 1981.
4. I personally carried out or supervised the work reported herein.

Dated this 19th day of January, 1989.

Shelley Lear

Shelley R. Lear
Geologist



CC 5

CC 6

CC 8

CC 7

CC 4

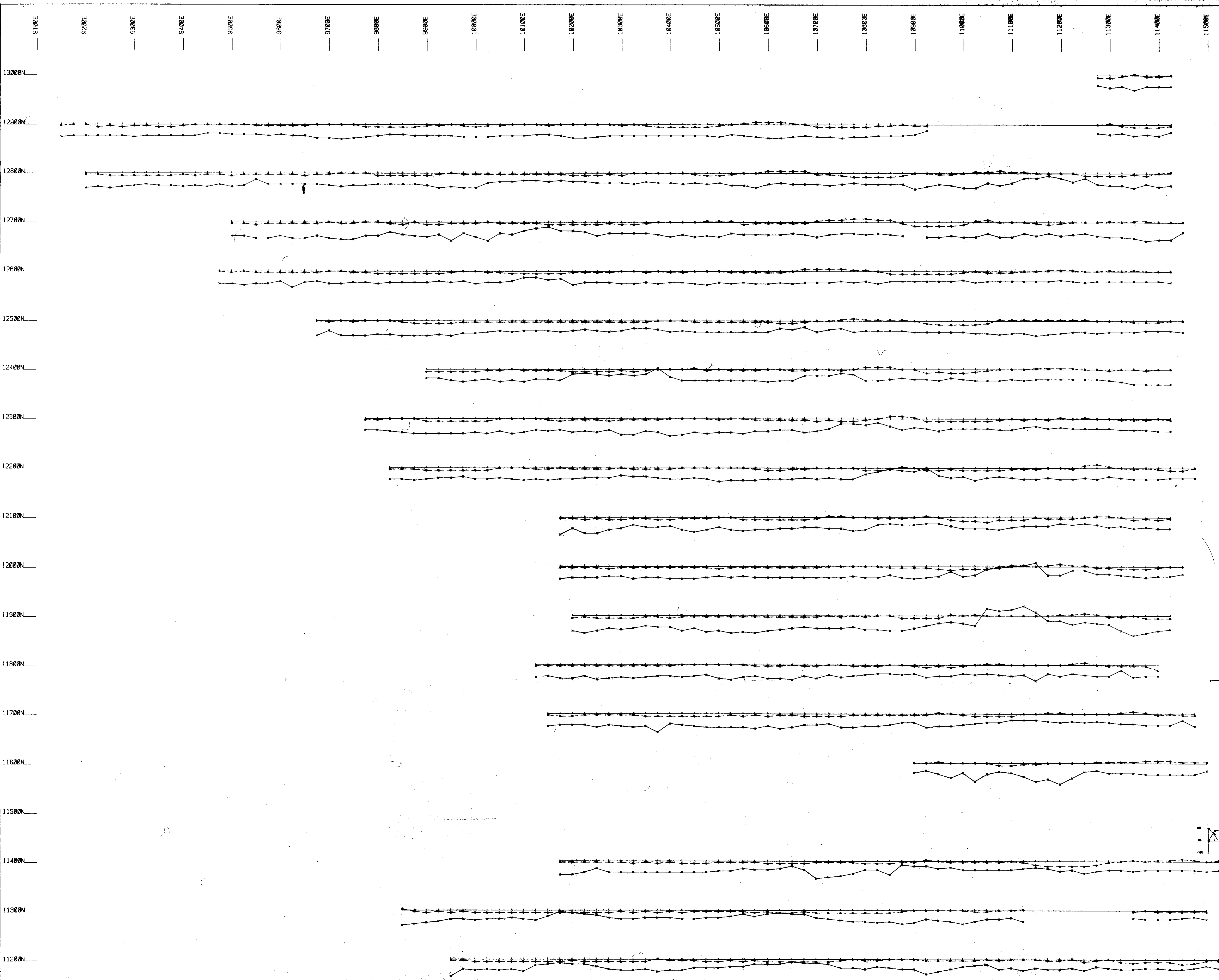
GEOLOGICAL BRANCH
ASSESSMENT REPORT

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MINNOVA Inc. 3

CHU CHUA NORTH
LINECUTTING 1988

Traced by :
Drawn by :
Supervised by :
Revised by :
Approved by :
Scale 1:5000
0 50 100 150 200 m

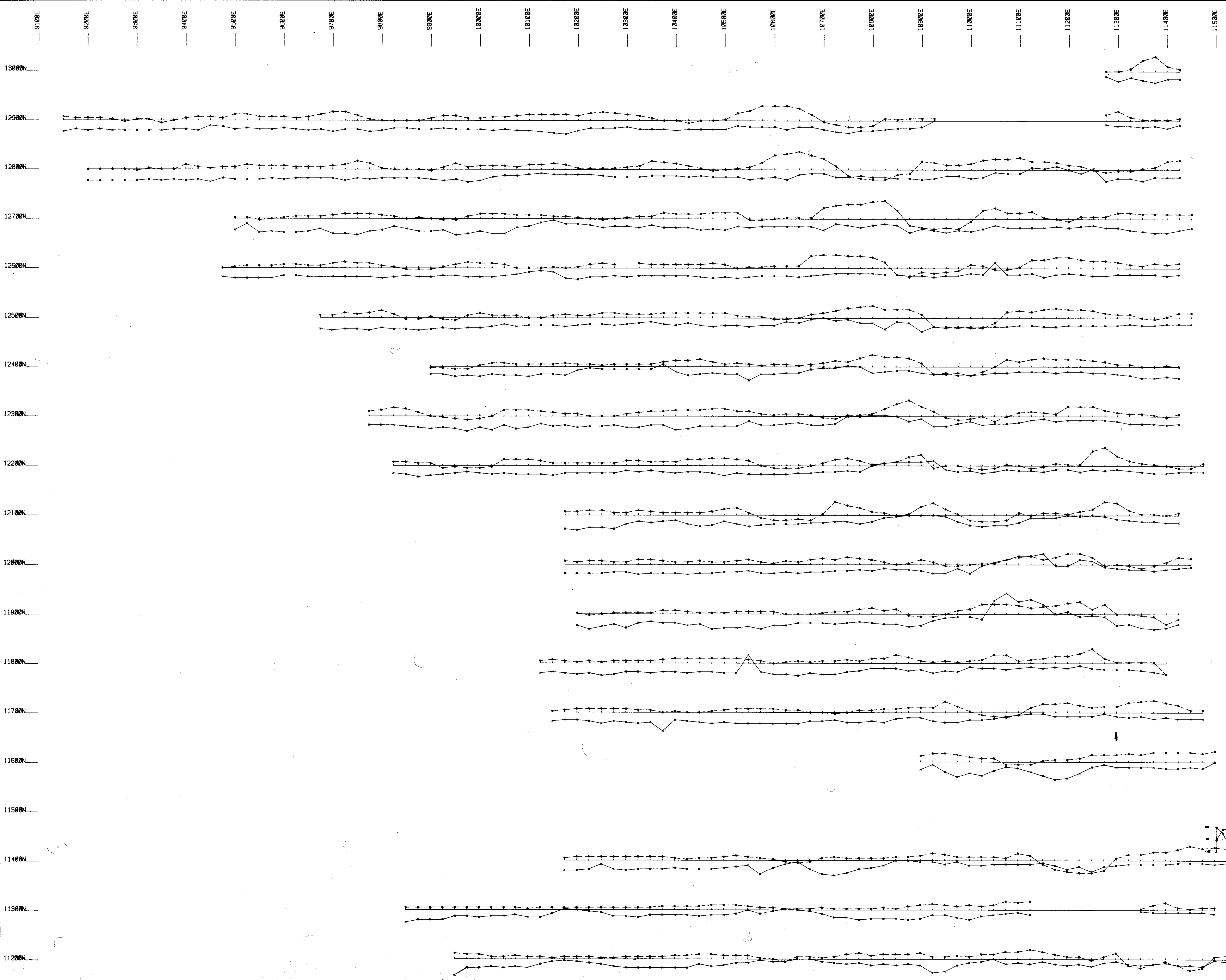


**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

18,275

Instrument : PROTON 2
 Coil Spacing : 150m
 Vertical Scale : 1 on = 100
 Frequency : 444 Hz
 In Phase : ———
 Quadrature : - - - - -

MINNOVA Inc. - CHU CHUA OPTION
HLEM SURVEY
 FREQ. 444 HERTZ
 NORTH GRID EXT. : KAMLOOPS M.D., B.C.
 BASELINE AZIMUTH : 0 Deg.
 SCALE = 1: 2500 DATE : 9/18/88
 SURVEY BY : DR/SC/DH NTS : 82H
 FILE : H6CHU
 MWH Geo-Surveys Ltd. *Figure 4*



GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,275

Instrument : M001N 2
Cell Spacing : 15m
Vertical Scale : 1 cm = 100
Frequency : 177 Hz
In Phase : ———
Quadrature : - - - -



MINNOVA Inc. - CHU CHUA OPTION
HLEM SURVEY
FREQ. 1777 HERTZ
NORTH GRID EXT. : KAMLOOPS M.D., B.C.
BASELINE AZIMUTH : 0 Deg.
SCALE = 1 : 2500 DATE : 9/10/88
SURVEY BY : DR/SC/DH NTS : 82M
FILE : H6CHU
MWH Geo-Surveys Ltd. Figure 3