

GRANADA EXPLORATION CORPORATION

A Geochemical Report on the Nimrod 1-6 Claims

Nanaimo MD, B.C.

Claims: Nimrod 1-6 (Records Nos. 445-450)

Location: 50° 31'N; 126° 53'W; NTS Sheet 92L-10W

Owner and Operator: Granada Exploration Corporation

Consultants: Nevin Sadlier-Brown Goodbrand Ltd.

Author: T.L. Sadlier-Brown

Dates Work Done: September 6-9, 1984

Date Submitted: October 9, 1984

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12.764

GEOLOGISTS AND ENGINEERS

SPECIALISTS IN MINERAL AND GEOTHERMAL RESOURCE EXPLORATION

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SUMMARY

In September 1984 Nevin Sadlier-Brown Goodbrand Ltd. conducted a reconnaissance scale geochemical survey of a hitherto untested portion of the Nimrod 1-6 claims owned by Granada Exploration Corporation in the Nanaimo Mining District of southwestern B.C. This report is intended as an account of this work for submission for assessment purposes under provisions of the B.C. Mineral Act.

The Nimrod claims are underlain in the east by greenstones of the Karmutsen Formation and in the west by carbonates of the Quatsino Formation. Both formations are Triassic in age and host numerous copper, lead, zinc and precious metal deposits throughout the region.

Approximately 500 metres southwest of the survey area within the Quatsino terrane is a deposit of undetermined dimensions consisting principally of massive sphalerite and galena. This occurrence lies on the Ren claims which are contiguous with the Nimrod claims. The purpose of the work described in this report was to test geochemically for an extension or repetition of this sulphide deposit in the Quatsino terrane underlying the western part of the Nimrod claim group. Anomalous zinc values and threshold lead values from line 9E indicate that base metals are present in the extreme western part of the Nimrod claims. Additional geochemical sampling, geological mapping, and conventional prospecting will be required to ascertain the economic significance of this inferred occurrence.

1. INTRODUCTION

1.1 Terms of Reference

Nevin Sadlier-Brown Goodbrand Ltd. was retained by Granada Exploration Corporation to perform a preliminary geochemical sampling survey of that part of the Nimrod claims underlain by the Quatsino Limestone in order to test for a possible extension of a known occurrence of galena and sphalerite on the adjoining Ren claim group. This report is intended as a description of the survey and an evaluation of resulting data.

1.2 Location and Access

The Nimrod claims are located at 50° 31'N latitude and 126° 53'W longitude. They are depicted on NTS Sheet 92L and are readily accessed by highway and logging road from Port McNeil, B.C. the nearest community and supply center.

1.3 Terrane

The Nimrod claims lie in an area of rugged terrain on the northeast coast of Vancouver Island. Local relief is to the order of 700 metres and the property is heavily mantled by mature coniferous forest and dense underbrush.

Drainage is easterly to the Kokish River which reaches tide water at Beaver Cove, less than 1 kilometre east of the claim boundary.

1.4 Property

The Nimrod property consists of six contiguous two-post claims. They adjoin to the east of the Ren 1-4 claims which, with the Nimrod claims, are wholly owned by Granada Exploration Corporation of Vancouver, B.C. Claim names, numbers, and record numbers with month of record in parenthesis are as follows:

<u>Claim Name</u>	<u>Record No. & Month</u>
Nimrod 1	445(9)
Nimrod 2	446(9)
Nimrod 3	447(9)
Nimrod 4	448(9)
Nimrod 5	449(9)
Nimrod 6	450(9)

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1.5 Previous Work

Most of the recent work carried out to date in the area was performed by Granada Exploration Corporation on the Ren claims, the site of several exposures of massive sphalerite and galena. Some prospecting and geological mapping was however carried out on the Nimrod property.

The land now covered by the Nimrod claims has been staked in the past, most recently by Lorena Mines Ltd. in 1972 and 1973. These claims which were known as the Lorena Group were staked to cover a copper showing hosted by Karmutsen volcanic rocks and consisting of chalcopyrite, malachite and azurite associated with pyrite. No work has been carried out on these showings by Granada Exploration Corporation.

1.6 Scope of Work

The survey work described in this report consists of the running of two north-south sample lines totalling 1 line km located in the western part of the Nimrod claim group - specifically on the Nimrod 1, 3, and 5 claims. A total of twelve samples of B horizon material were obtained and tested for lead and zinc. Although the survey was somewhat limited in scope the configuration of the survey lines permits a reasonable assessment of the base metal potential of the western part of the Nimrod claim group.

2. GEOLOGY AND MINERALIZATION

The claim area is underlain principally by rocks of the Vancouver Group comprised locally of the Triassic volcanics of the Karmutsen Formation which are unconformably overlain by Triassic limestones of the Quatsino Formation. The Karmutsen volcanics occupy the eastern two-thirds of the claim group with the overlying Quatsino Formation exposed on the higher ground to the west. West of the claim boundary and at a higher elevation on the mountain side are extensive exposures of granitic rocks including granodiorite, quartz monzonite and quartz diorite which represent the Island intrusives in the area.

The Quatsino limestone which is the preferred host rock for the type of mineralization presently sought strikes southeasterly and dips moderately to gently southwest. The

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limestone is massive to thickly bedded and medium grey in colour. It is locally cryptocrystalline and interbedded with argillaceous limestone and/or chert horizons.

The Karmutsen Formation hosts minor occurrences of chalcopyrite associated with malachite and azurite. Pyrite is also locally abundant. The principal showings in the area however consist of massive sphalerite and galena hosted by Quatsino limestone in the general vicinity of a porphyritic rhyolite dyke. The only known occurrences of this type lie east of the Nimrod claims in the central part of the adjacent Ren property.

3. GEOCHEMICAL SURVEY

3.1 Sampling and Analytical Methods

A total of 12 samples of B horizon material were taken on two north-south trending lines intended to test the Quatsino limestone terrane in the western part of the Nimrod property. The soil samples were obtained from shallow holes dug by Mattock, placed in brown paper sample envelopes and sent to Chemex Laboratories Ltd. of North Vancouver, B.C. for analysis. The laboratory procedure consists of drying, then digesting a 0.05 gram sample of -80 mesh material in hot aqua regia then testing the solution for lead and zinc using atomic absorption methods. Results are reported in parts per million and are shown in the Certificate of Analysis dated September 27, 1984, appended hereto.

3.2 Discussion of Results

Analytical values in parts per million were plotted for both lead and zinc in Figures 2 and 3 respectively. Lead values were generally low (less than 30 ppm). The higher values tend to lie on Line 9E with the highest value 76 ppm, occurring at station 1N. This value is anomalous and probably indicates the presence of sulphide mineralization upslope to the west.

Zinc values too were found to be higher on Line 9E than on Line 12E which parallels it about 150 metres down a slope. Anomalous zinc values were obtained from three stations, all on Line 9E. These are as follows:

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Station 1N	525 ppm
Station 3N	210 ppm
Station 4N	220 ppm

As Figures 2 and 3 illustrate these stations are also the sites of the three highest lead values obtained. These results are compatible with the presence of one or more lead/zinc occurrences lying uphill from Line 9E and in the extreme western part of the Nimrod No. 3 claim or possibly on open ground north of the Ren claims.

4. CONCLUSION

The configuration of the anomalous lead and zinc values obtained from the survey under discussion are essentially consistent either with an extension of the massive sulphide skarn(?) zone located on the Ren claims or the presence of another, as yet undiscovered zone of lead and zinc mineralization lying to the north of the original discovery. On the basis of observations made during the course of a visit to the property in 1981 the latter is the explanation favoured by the writer.

Additional work, should it be considered warranted, should consist of more geochemical sampling in conjunction with detailed conventional prospecting. Any sulphide exposures should be tested for lead, zinc, silver, tungsten and gold as any or all of these elements may reasonably be expected to occur within the area under study.

Respectfully submitted,

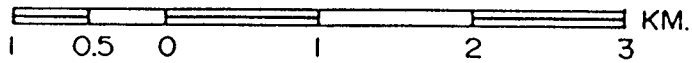
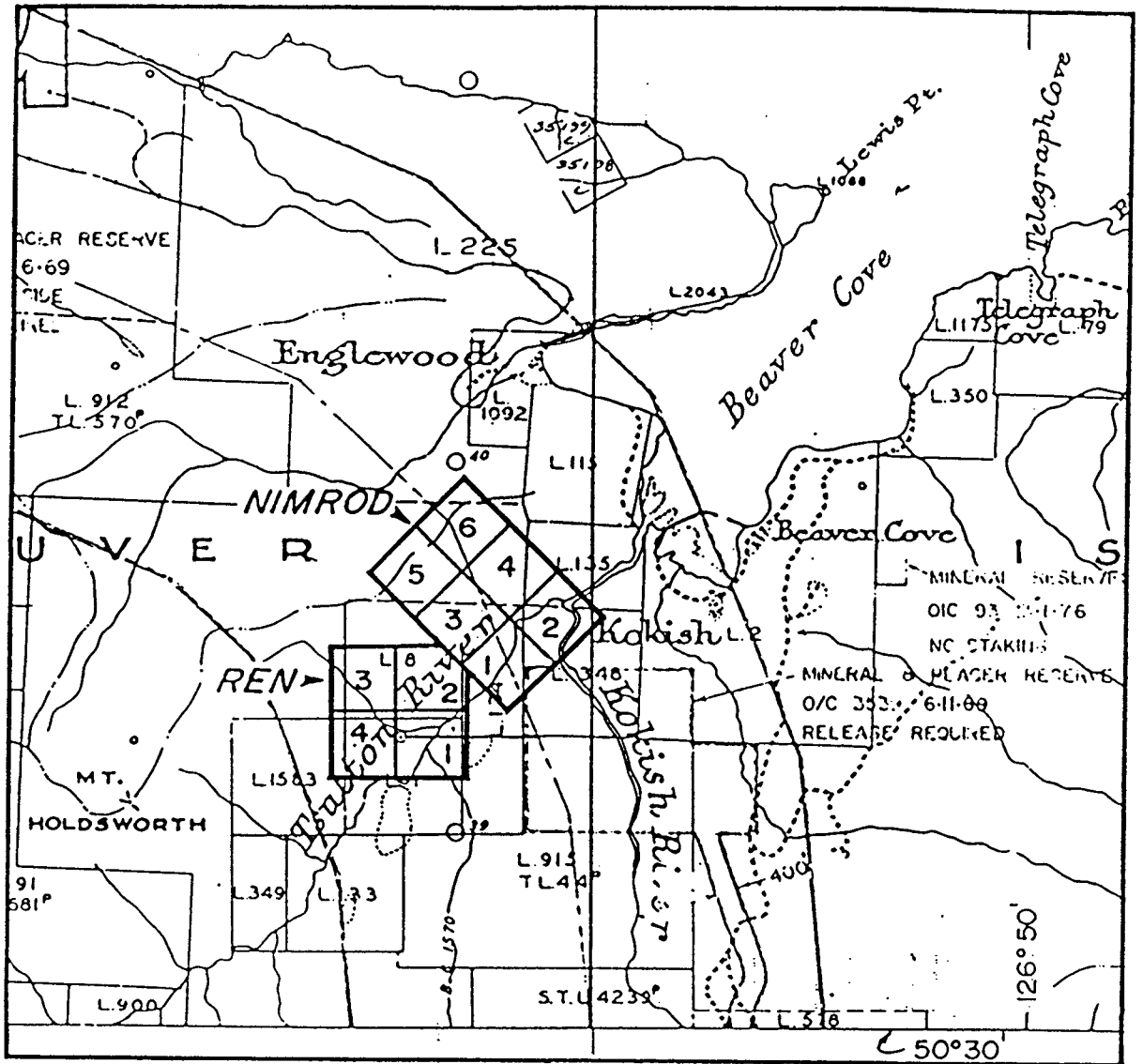
NEVIN SADLIER-BROWN GOODBRAND LTD.



T.L. Sadlier-Brown, FGA



October 9, 1984



GRANADA EXPLORATION CORP.	
REN-NIMROD GROUP CLAIM MAP	
NANAIMO M.D., B.C.	NTS SHEET 92L 10W
DRAWN BY BEM	DRAWING N° 1
SCALE 1:50,000	
NEVIN SADLIER-BROWN GOODBRAND LTD. SEPTEMBER 1984	

LCP LOCATION BY COMPASS & CHAIN

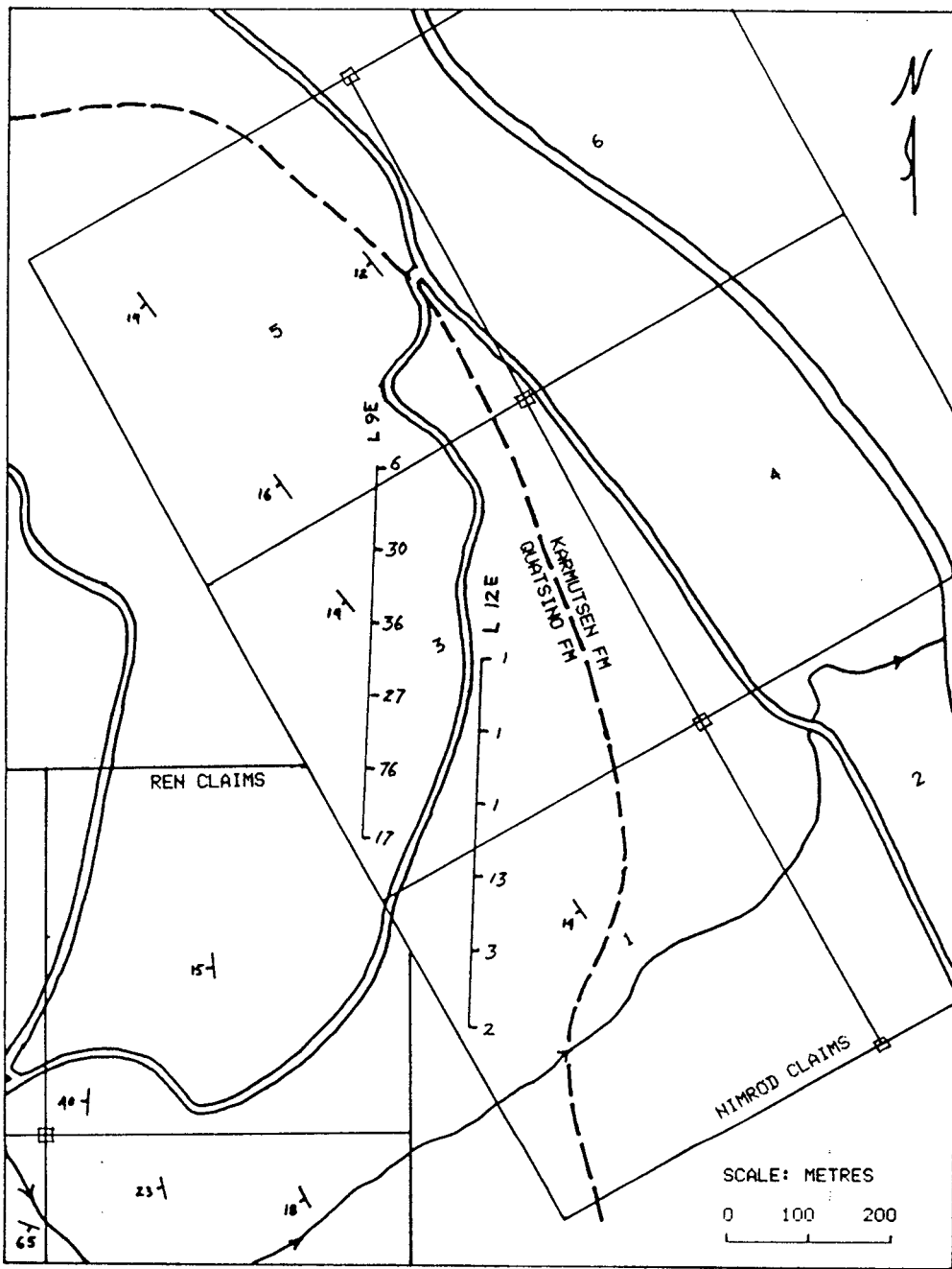


FIG. 2: PB VALUES

GRANADA
EXPLORATION
CORPORATION
SEPT. 1984

- LEGEND:
- CONTACT..... - - - - -
 - ROAD..... = = = = =
 - STREAM..... ~ ~ ~ ~ ~
 - PB VALUE, PPM 5
 - CLAIM POST.. □

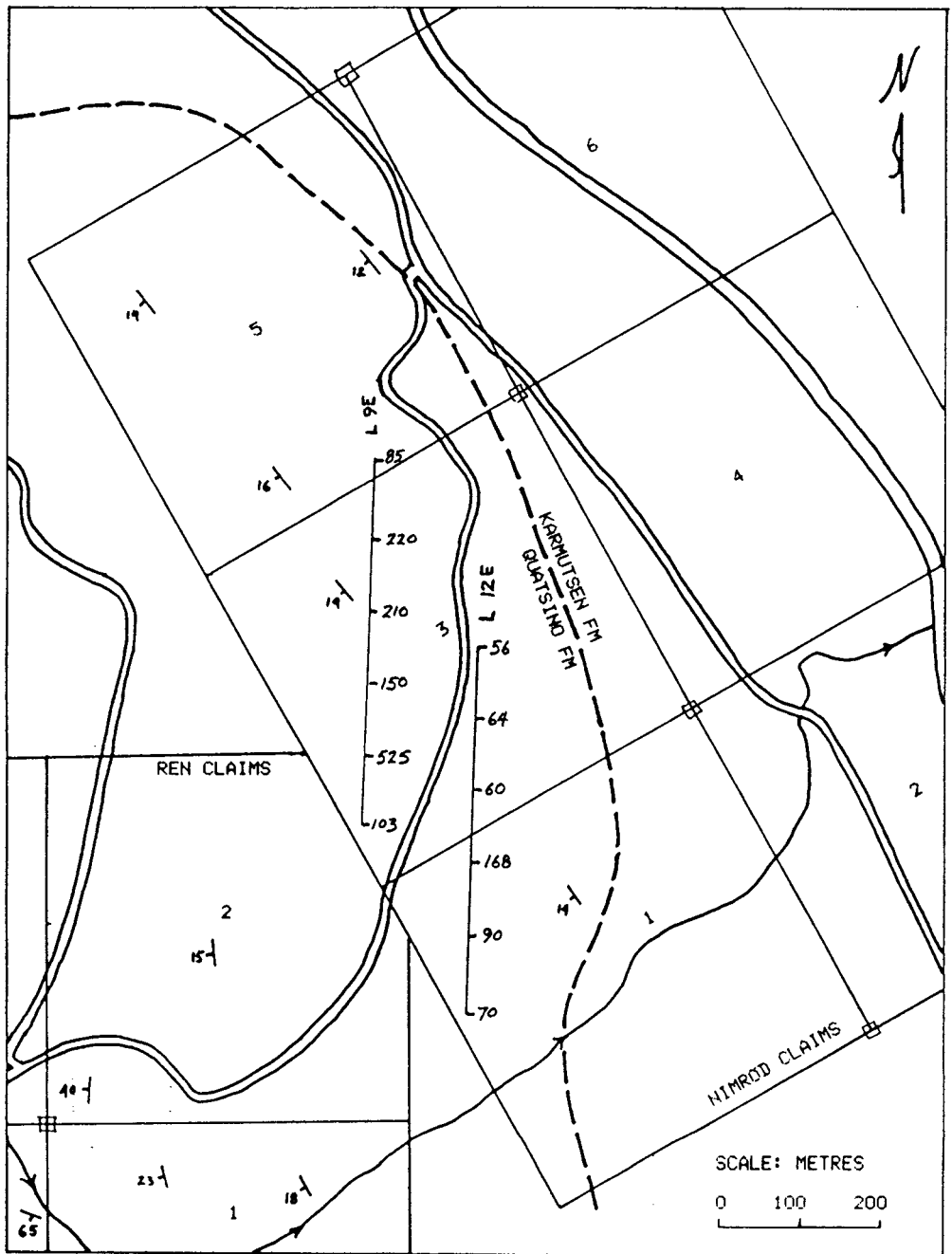


FIG. 3: ZN VALUES

GRANADA
EXPLORATION
CORPORATION
SEPT. 1984

- LEGEND:
- CONTACT..... - - - - -
 - ROAD..... = = = = =
 - STREAM..... →
 - ZN VALUE, PPM 15
 - CLAIM POST.. □

APPENDIX AExpense Summary - Nimrod Geochemical Survey**Wages:**

B. Hardy, 3 days @ \$77/day (September 7-9, 1984)	\$ 231.00
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Disbursements:

Travel and accommodation (Sept. 7-9, 1984)	133.88
Meals (Sept. 7-9, 1984)	130.42
Gas	58.50
Burden (10%)	32.28
Rental Equipment (truck, 2 wd, 3 days @ \$35/day plus 669 km)	225.42
Analytical costs (12 samples)	40.00
Supervision and report preparation	350.00
Administration and consulting	<u>306.00</u>

Sub Total \$1276.50



Grand Total \$1507.50

APPENDIX B

Certificate and Statement of Qualifications

I, Timothy L. Sadlier-Brown hereby certify that:

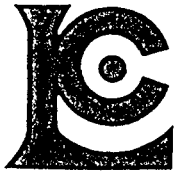
1. I am a consulting geologist and partner in the firm of Nevin Sadlier-Brown Goodbrand Ltd. with offices at 401-134 Abbott Street, Vancouver, B.C. V6B 2K4
2. I was educated at Carleton University in Ottawa, Ontario and am a Fellow of the Geological Association of Canada
3. I have acted in the field of exploration geology in positions of responsibility since 1965 and have been a principal in the firm of Nevin Sadlier-Brown Goodbrand Ltd. since 1972
4. I have personally examined the Nimrod claims and supervised the survey work described herein.



T.L. Sadlier-Brown, FGAC

October 9, 1984

APPENDIX C

Analytical Certificate



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1
Telephone: (604) 984-0221
Telex: 043-52597

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401 - 134 ABBOTT ST.
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8416312-001-
INVOICE # : I8416312
DATE : 27-SEP-84
P.O. # : NONE
NIMROD

ATTN: T. SADLIER-BROWN

Sample description	Prep code	Pb ppm	Zn ppm				
9E 0+00	201	17	103	--	--	--	--
9E 1N	201	76	525	--	--	--	--
9E 2N	201	27	150	--	--	--	--
9E 3N	201	36	210	--	--	--	--
9E 4N	201	30	220	--	--	--	--
9E 5N	201	6	85	--	--	--	--
12E 0+00	201	2	70	--	--	--	--
12E 1N	201	3	90	--	--	--	--
12E 2N	201	13	168	--	--	--	--
12E 3N	201	1	60	--	--	--	--
12E 4N	201	1	64	--	--	--	--
12E 5N	201	1	56	--	--	--	--



Certified by Hart Bichler