

07 June 1988

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TO: A.J. DavidsonCOPIES A  
COPIES TO: D.H. Watkins, I.D. PirieDE  
FROM: C. BurgeSUJET  
SUBJECT: INTERNATIONAL MAGGIE DRILL PROPOSAL

826087

## INTRODUCTION

A 2190 metre diamond drill program is proposed to follow up 1987 drill intersections and continue testing favourable stratigraphy in the Slumach area. The target is a precious metal-rich volcanogenic massive sulphide deposit hosted within the Slumach rhyolite flow sequence at or near its lower contact with the biotite-cordierite (dalmationite) altered footwall andesite; the Mar andesite.

## GEOLOGY AND TARGETS

Last fall's drill program successfully identified the Slumach stratigraphy as having extremely good potential for hosting a massive sulphide deposit enriched in precious metals. Drilling encountered the following stratigraphic sequence beginning with the youngest:

Maggie sediments	- interbedded argillite and dacitic ash
Rhyolite clastics	- coarse, fragmental, minor flows, unaltered
Slumach rhyolite	- mainly felsic flows, flow breccia, minor andesite flows, pyritic sediment
Mar andesite	- andesitic to dacitic lapilli tuff, crystal tuff usually affected by biotite-cordierite hornfels

These units dip moderately toward the Southwest, forming the southwest limb of an anticline which plunges gently toward the northwest.

The Slumach rhyolite and the Mar andesite are well mineralized and both exhibit extensive zones of soda depletion. Contouring of soda values in the Mar andesite suggests that strongest alteration occurs downdip of MM-87-09 and along strike to the east. Mineralization consists of stringer-type occurrences within the Mar andesite and Slumach rhyolite as well as syngenetic semi-massive pyrite up to 10 metres thick in MM-87-05. The 1988 drill program has been designed to test the downdip extent of the following intercepts last year:

10.8% Zn, 4.6g/t Au over 0.6m in MM-09

3.4% Zn, .84g/t Au over 1.0m in MM-06

The program will also test an IP anomaly obtained on line 13+00E and the eastward strike extension semi-massive pyrite encountered in MM-87-05.

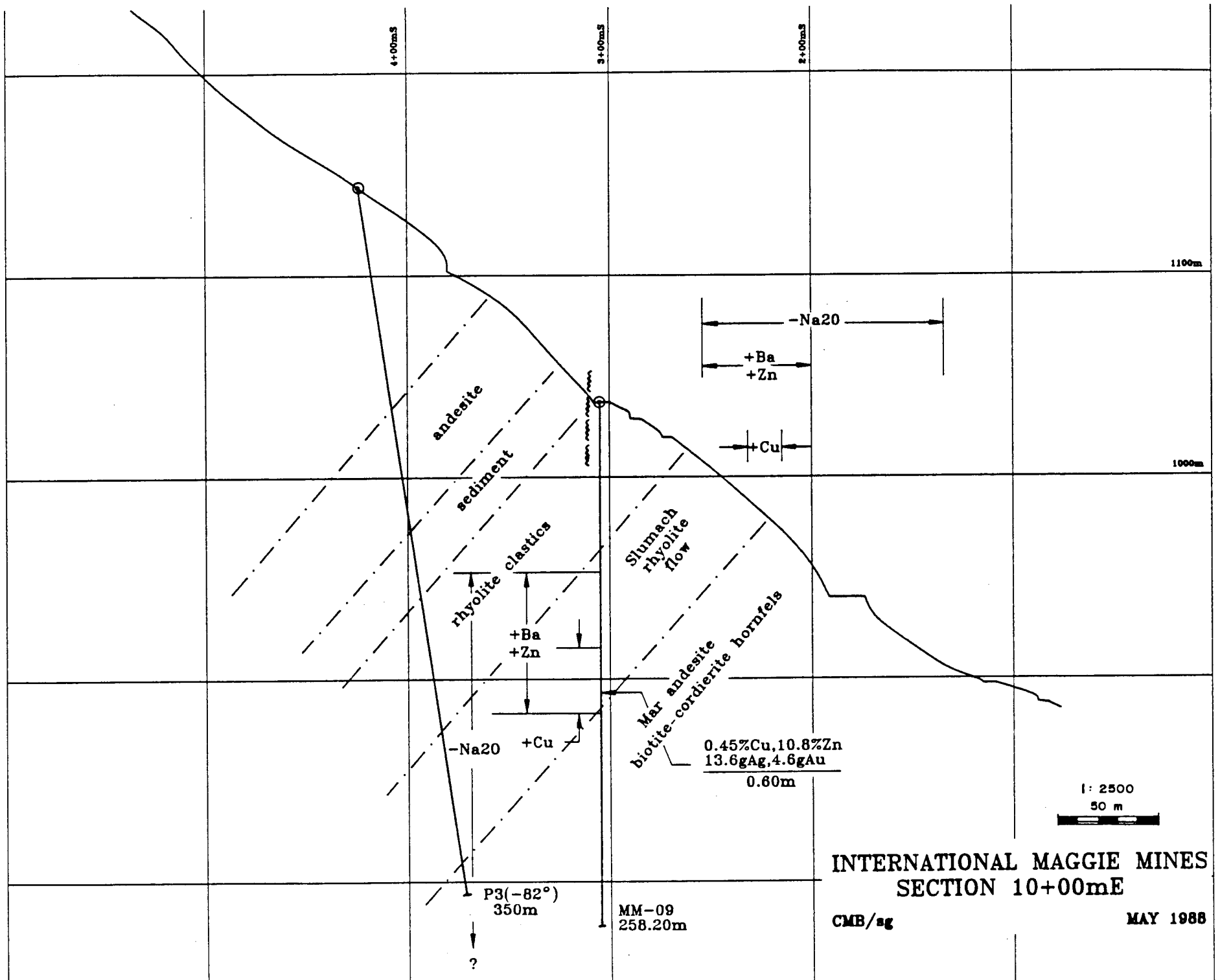
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**1988 PROPOSED HOLES - MAGGIE OPTION**

Hole	Line	Station	Azimuth	Dip	Length	Cost <sup>1</sup>	Comments
P1	11+00E	4+17S	045°	-75°	280m	25,200	To test Slumach rhyolite 100m downdip from 3.43% Zn, 0.84g Au/1.0m intersection in MM-87-06.
P2	11+00E	4+17S	045°	90°	340m	30,600	Contingent on results of P1, P2 will test Slumach rhyolite 200m downdip from the MM-87-09 intersection grading 10.8% Zn, 4.6g Au/0.6m.
P3	10+00E	4+25S	045°	-82°	350m	31,500	P3 will test Slumach rhyolite 100m downdip from the MM-87-09 intersection grading 10.8% Zn, 4.6g Au/0.6m.
P4	12+00E	4+60S	45°	-75°	290m	26,100	P4 will test the Slumach stratigraphy 100m downdip from two semi-massive pyrite intersections in MM-87-05.
P5	13+00E	4+42S	45°	-65°	190m	17,100	Will test the Slumach stratigraphy 100m east of MM-87-05 downdip from IP chargeability high/res. low.
P6	12+00E	4+60S	45°	-90°	350m	31,500	P6 will test stratigraphy 100m downdip of P4 and 100m grid east of P2.
P7	13+00E	4+42S	45°	-90°	250m	22,500	Again contingent on earlier P7 - will test the Slumach stratigraphy 100m downdip from P5.
P8	14+00E	4+16E	45°	-84°	<u>130m</u>	<u>11,700</u>	P8 will test the Slumach stratigraphy 200m east of semi-massive pyrite encountered in MM-87-05.
					2180m	\$196,200	
Road and Set-Up Construction						<u>35,000</u> <sup>2</sup>	
<b>TOTAL PROGRAM COST</b>						<b>\$231,200</b>	

Note: <sup>1</sup>Costs have been calculated assuming a direct drilling cost of \$90.00/m including salaries, assays, etc.

<sup>2</sup>Road building costs will affect drill meterage.



1100m

1000m

4+00mS

3+00mS

2+00mS

andesite  
sediment

rhyolite clastics

Slumach  
rhyolite  
flow

Mar andesite  
biotite-cordierite hornfels

-Na2O  
+Ba  
+Zn  
+Cu

+Ba  
+Zn

-Na2O +Cu

0.45%Cu, 10.8%Zn  
13.6gAg, 4.6gAu  
0.60m

1:2500  
50 m

INTERNATIONAL MAGGIE MINES  
SECTION 10+00mE

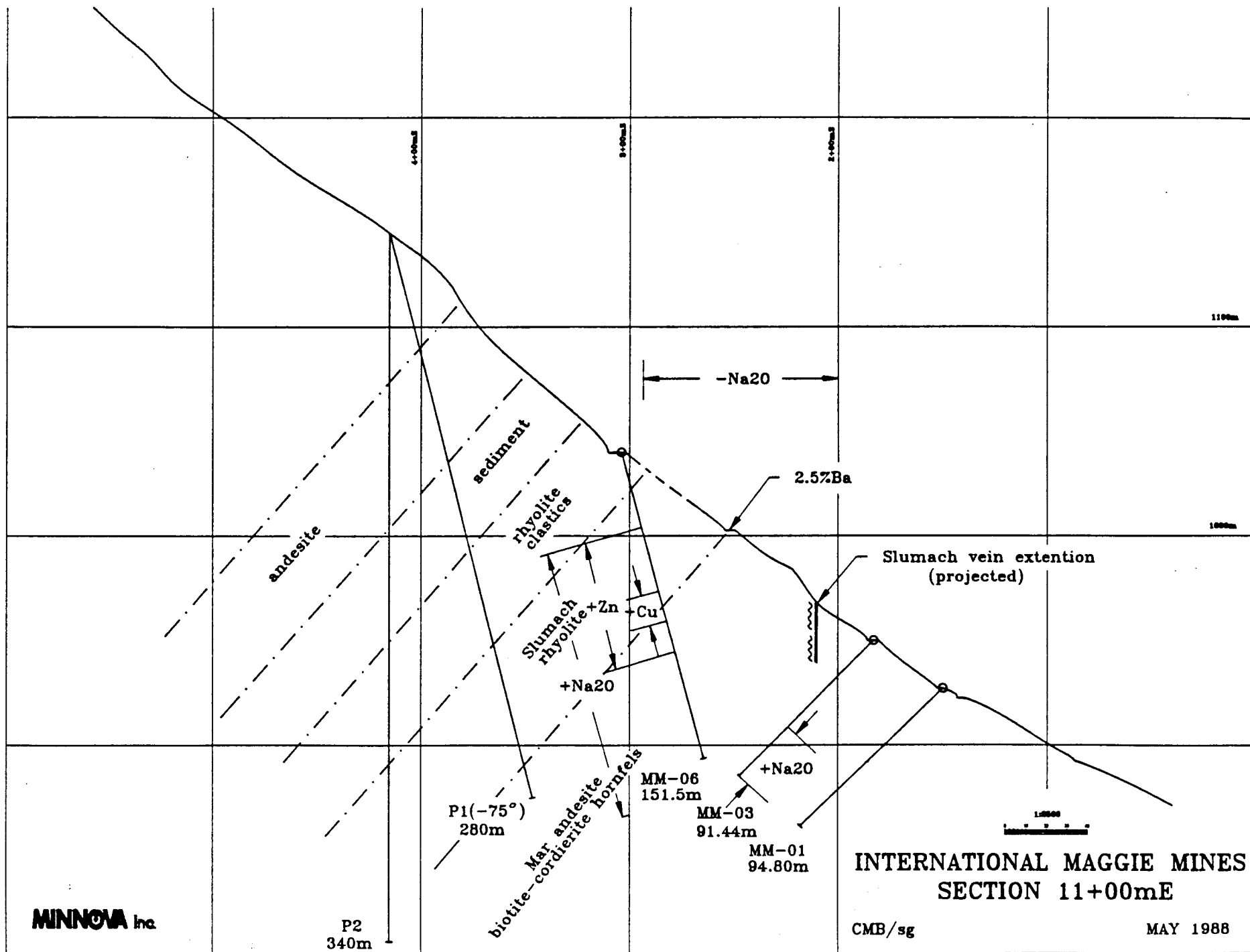
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MAY 1988

P3(-82°)  
350m

MM-09  
258.20m

?

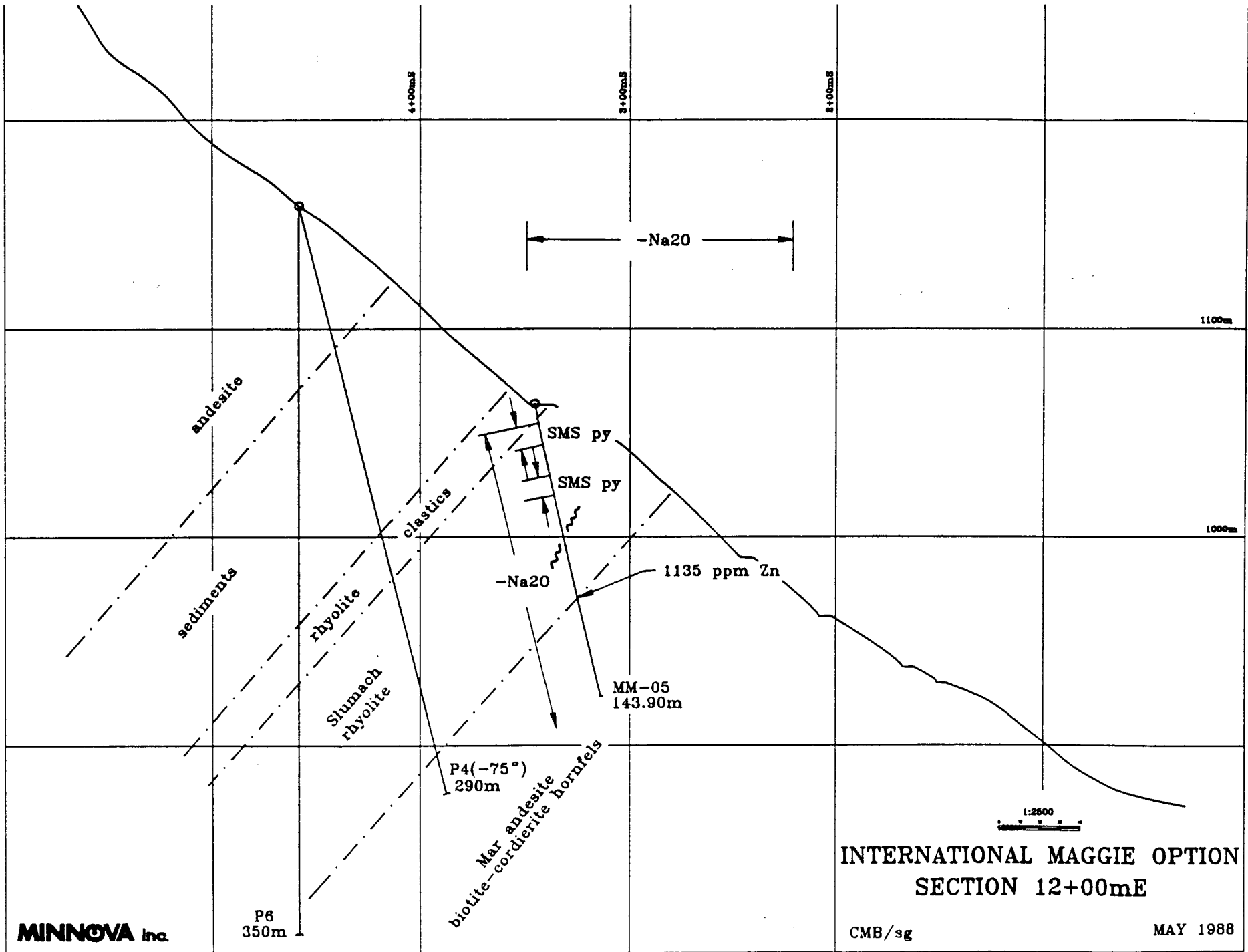


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SECTION 11+00mE

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MAY 1988

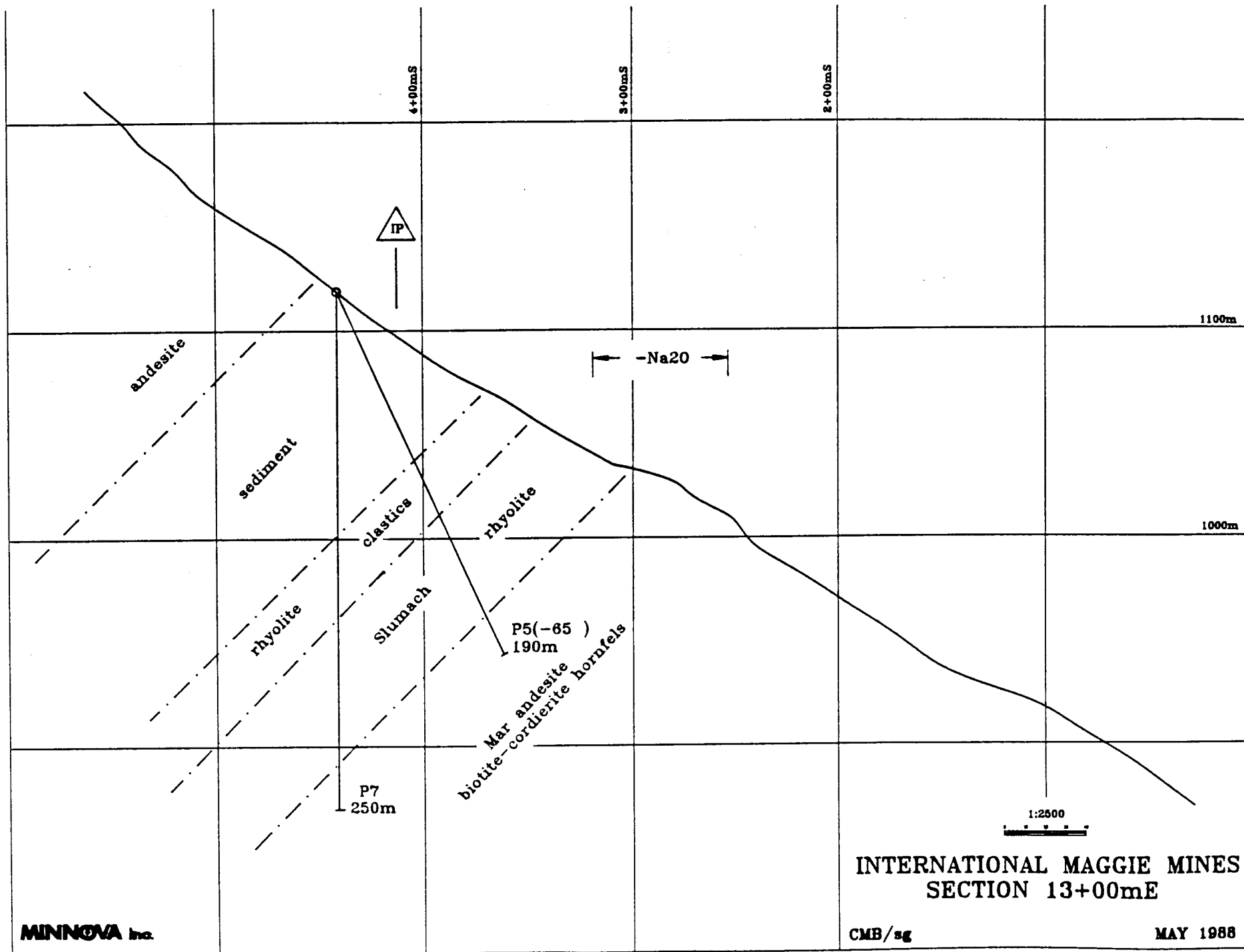


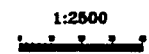
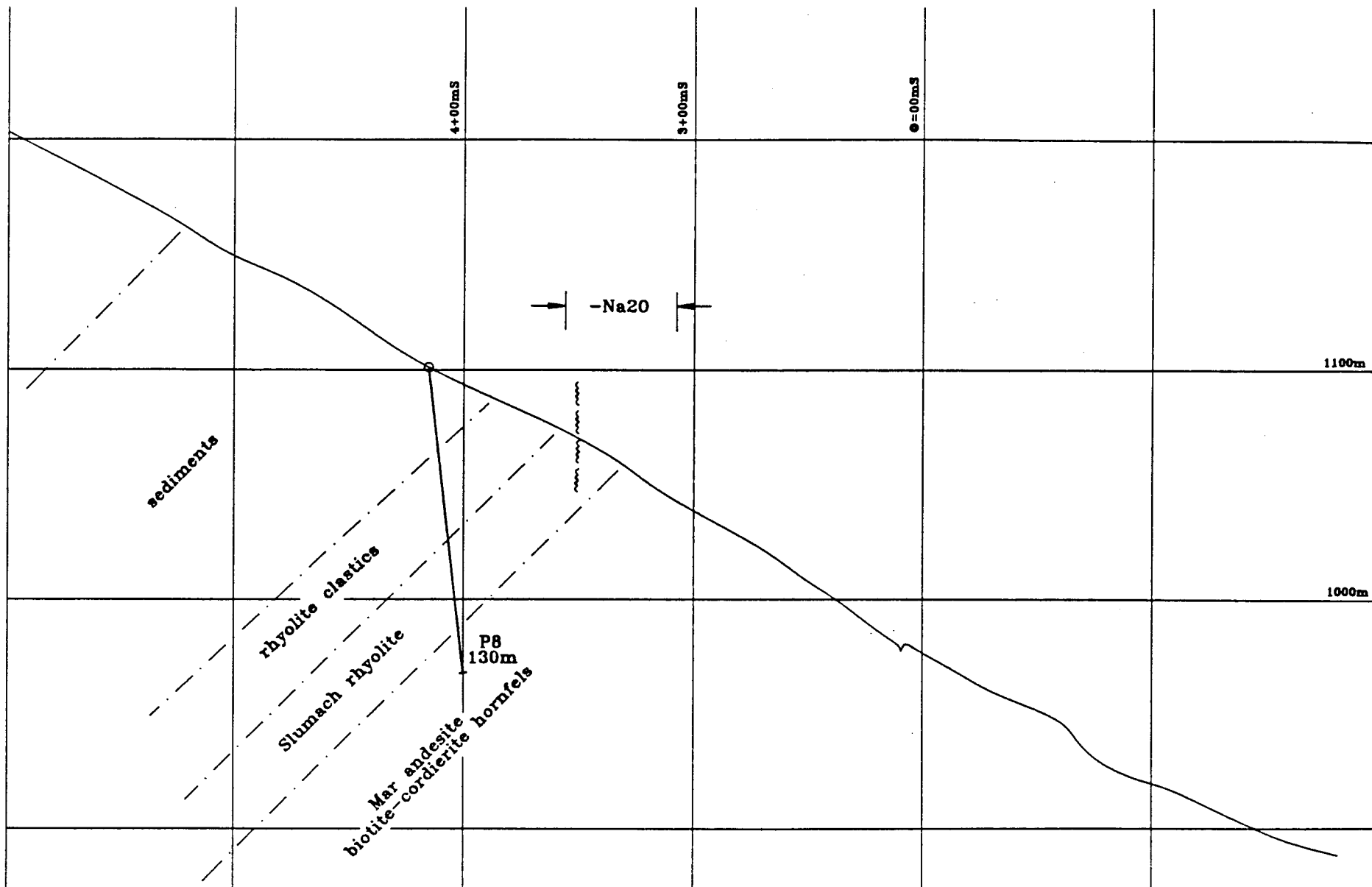
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P8  
350m

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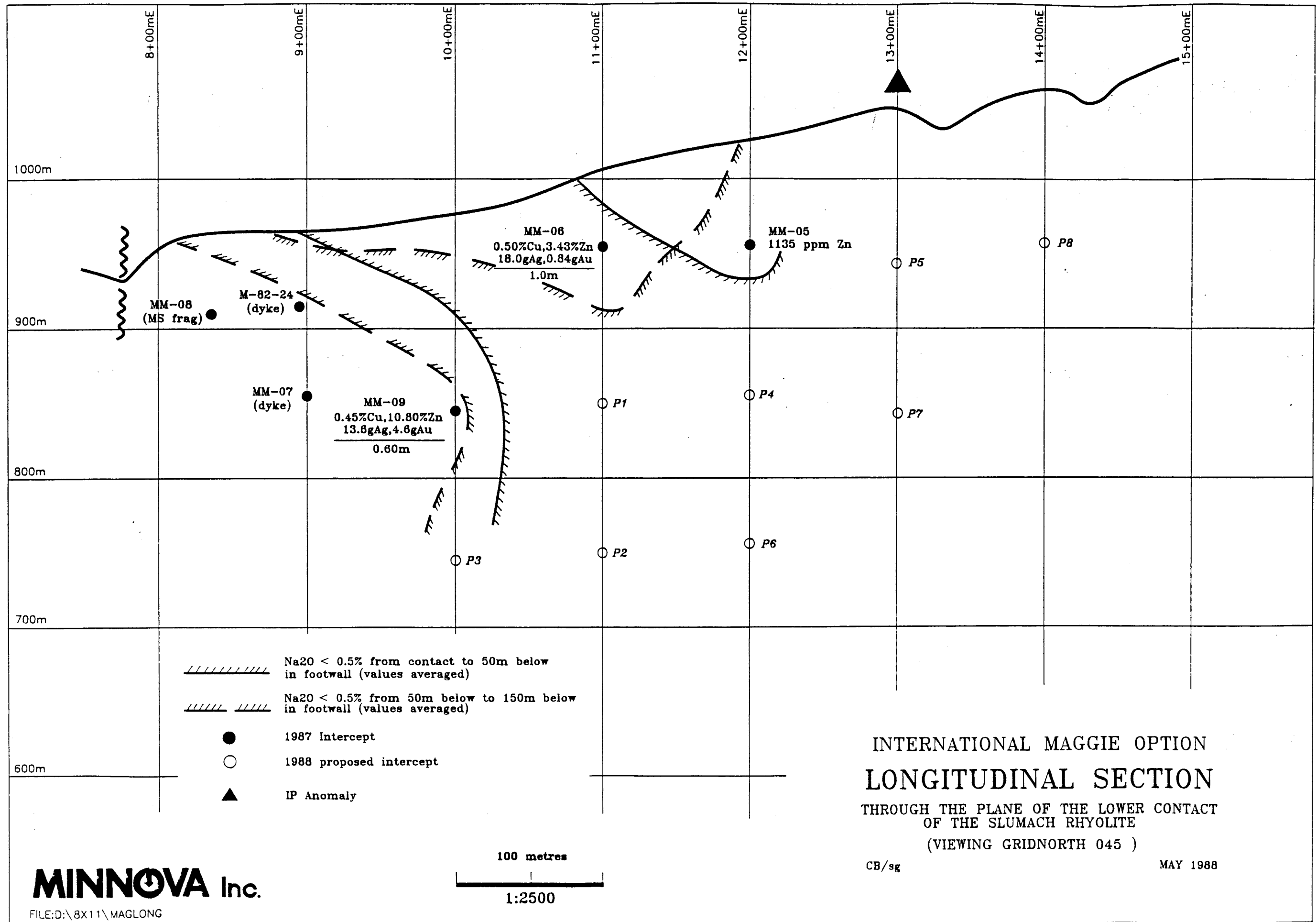
MAY 1988





INTERNATIONAL MAGGIE MINES  
SECTION 14+00mE





INTERNATIONAL MAGGIE OPTION  
**LONGITUDINAL SECTION**  
 THROUGH THE PLANE OF THE LOWER CONTACT  
 OF THE SLUMACH RHYOLITE  
 (VIEWING GRIDNORTH 045 )

CB/sg

MAY 1988

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FILE:D:\8X11\MAGLONG





- LEGEND -

6 Felsic Intrusion	3 Rhyolite
5 Mafic Intrusion	2 Dacite
4 Argillite	1 Andesite

○ Cordierite Hornfels	~ Fault
— Geological Contact intrusive, conformable	— Bedding
○ Drill Hole ( Maggie Mines )	— Jointing
○ Drill hole ( Minnova 1987 )	— Strike & Dip

1988 PROPOSED HOLES

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MAGGIE OPTION

MAR CLAIM AREA

**- GEOLOGY -**

**1988 PROPOSED DRILLING**

SCALE: 1:1000

N.T.S. 92G/10 DRAWN BY: CBJ/dm DATE: SEPT. 1987	MAP
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