

FOR FALCONBRIDGE NIKKELVERK A/S
A/S SULFIDMALM

Project 905-17

Ground surveys on Garbmasoaivve
in 1976, Masi

By

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Introduction (Fig.1)

The Garbmasoaiivve-grid is situated 5 kms SE of Suolovuobme. It is an extension of the Suolojavrre-grid (Report 409/76/17) to the east. The base-line was laid out from a point 1500E/3800N and runs up to 7000N. Only the profiles 3800N-4700N with 100 ms line-spacing, running from 800E to 1800E, were laid out for VLF-EM-and Mag-survey. Detailed mapping was done on the grid-area and north of it until 6700N. The observations were tied to the baseline without marking any profile between 4800N and 6700N. The grid was laid out to locate the helicopter-anomalies on the geochemically anomalous areas.

Geology by Kalle Taipale

On the Garbmasoaiivve grid there was made a "detailed reconnaissance mapping". Numerous small sulphide showings were found, but all of them contained only pyrrhotite or pyrite.

The reason for the mapping of the Garbmasoaiivve area was anomalous Ni in till geochemistry as well as Cu and some Zn.

The Ni anomalies originate from the gabbroic greenstones and Ni is probably of silicate origin.

Cu and Zn anomalies come from the sulphide bearing chert/graphite schist beds.

The structure of this area looks interesting, but to make sure if the EM-conductive zones are as drawn on the map, geophysical measurements should be made on the area.

Geophysics (Fig.3)

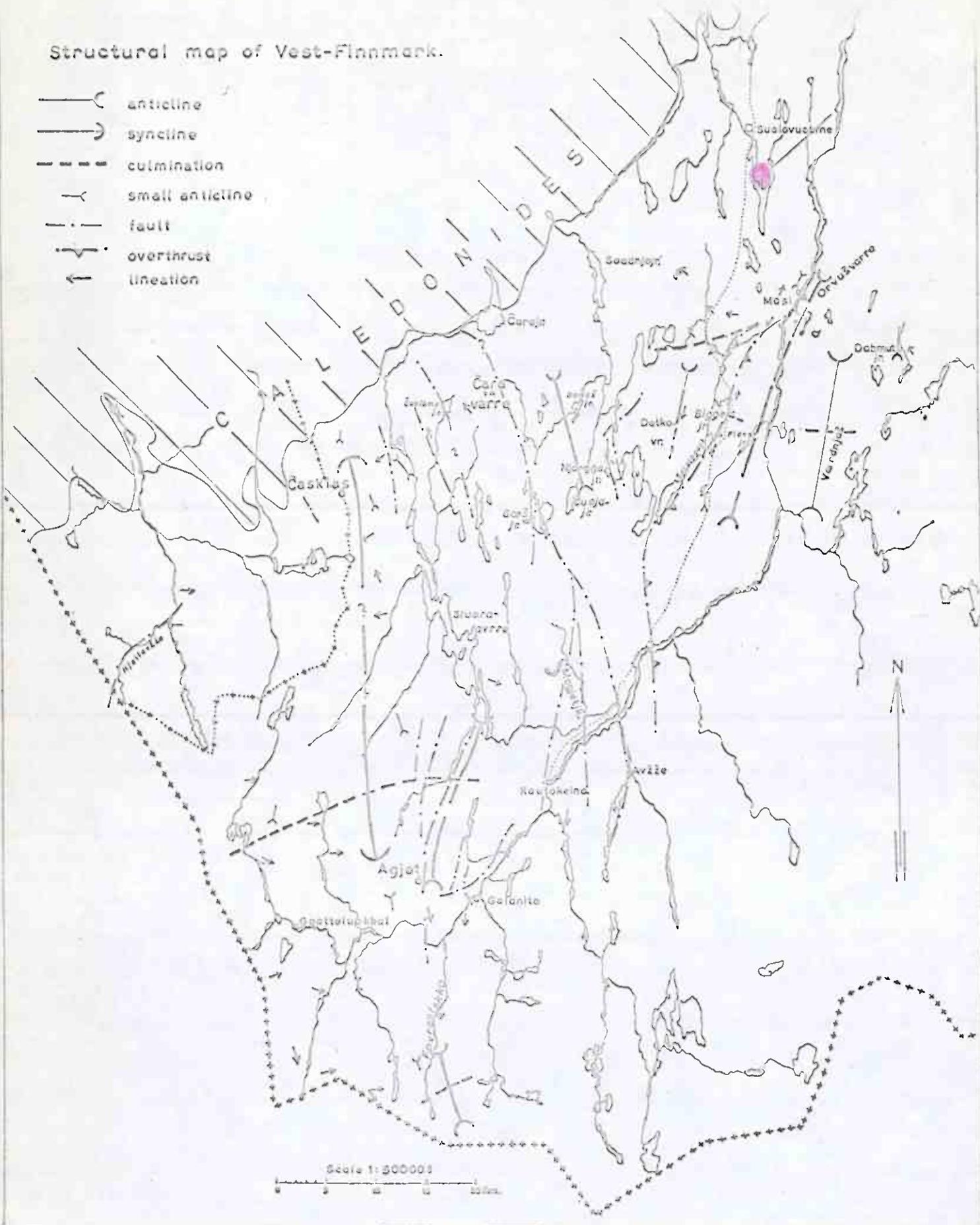
There are two different VLF-EM anomaly-zones in the grid-area, one goes through the whole grid near the base-line and the other starts from the profile 4500N at 1100E, running northwards. Mag-relief is clear just on the VLF-anomaly near the baseline.

Conclusions

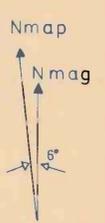
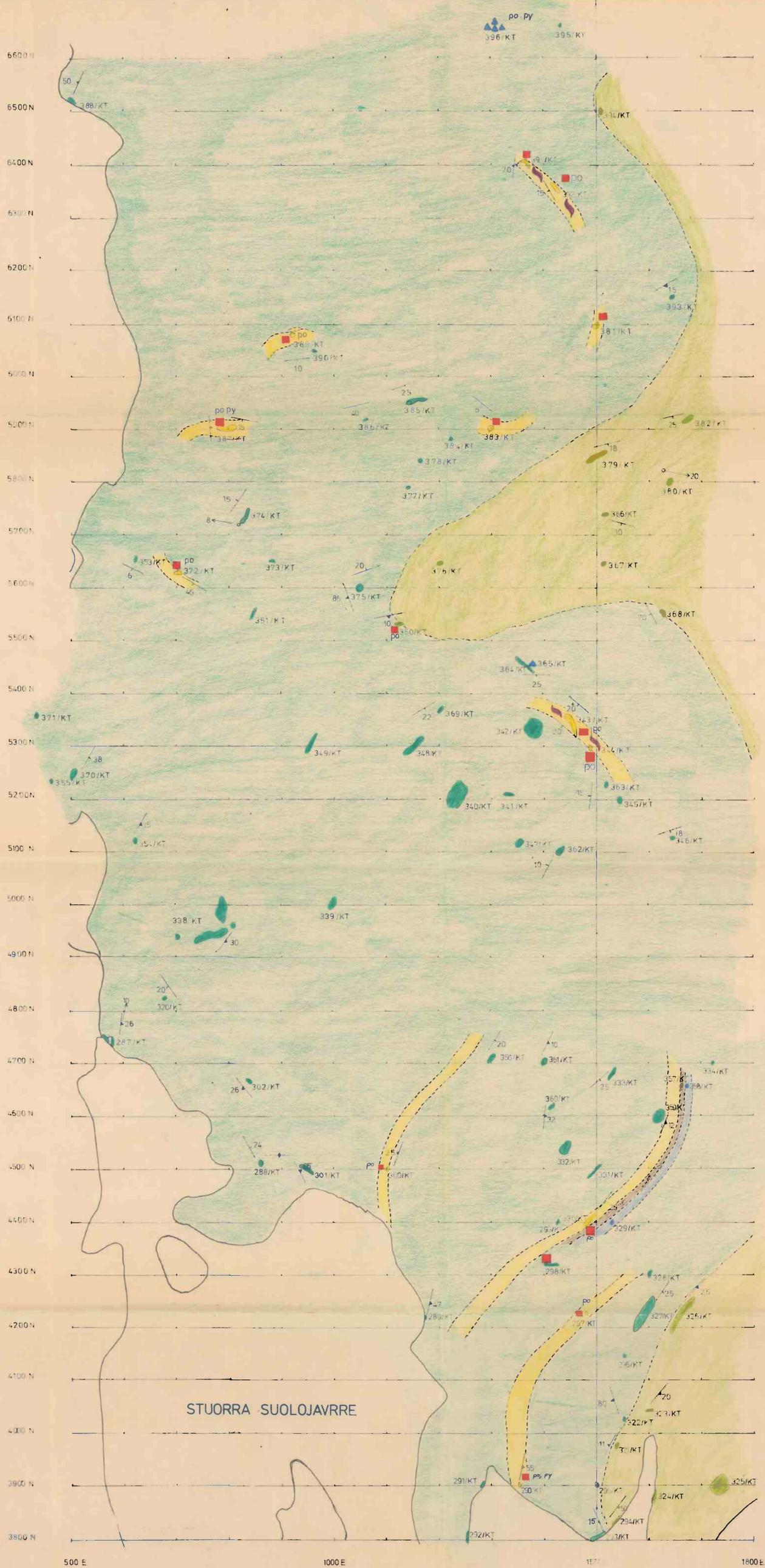
It seems obvious that the geophysical and geochemical anomalies are caused by mineralized graphitic beds in acid volcanics like on Suolojavrre-grid. Ni-anomalies might originate from gabbroic greenstones. Only minor po was found in fissures in these rock-types.

Structural map of Vest-Finmark.

- C— anticline
-)— syncline
- - - - - culmination
- Y- small anticline
- · - · - fault
- >- overthrust
- ← lineation



GEOLOGY



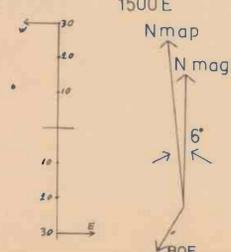
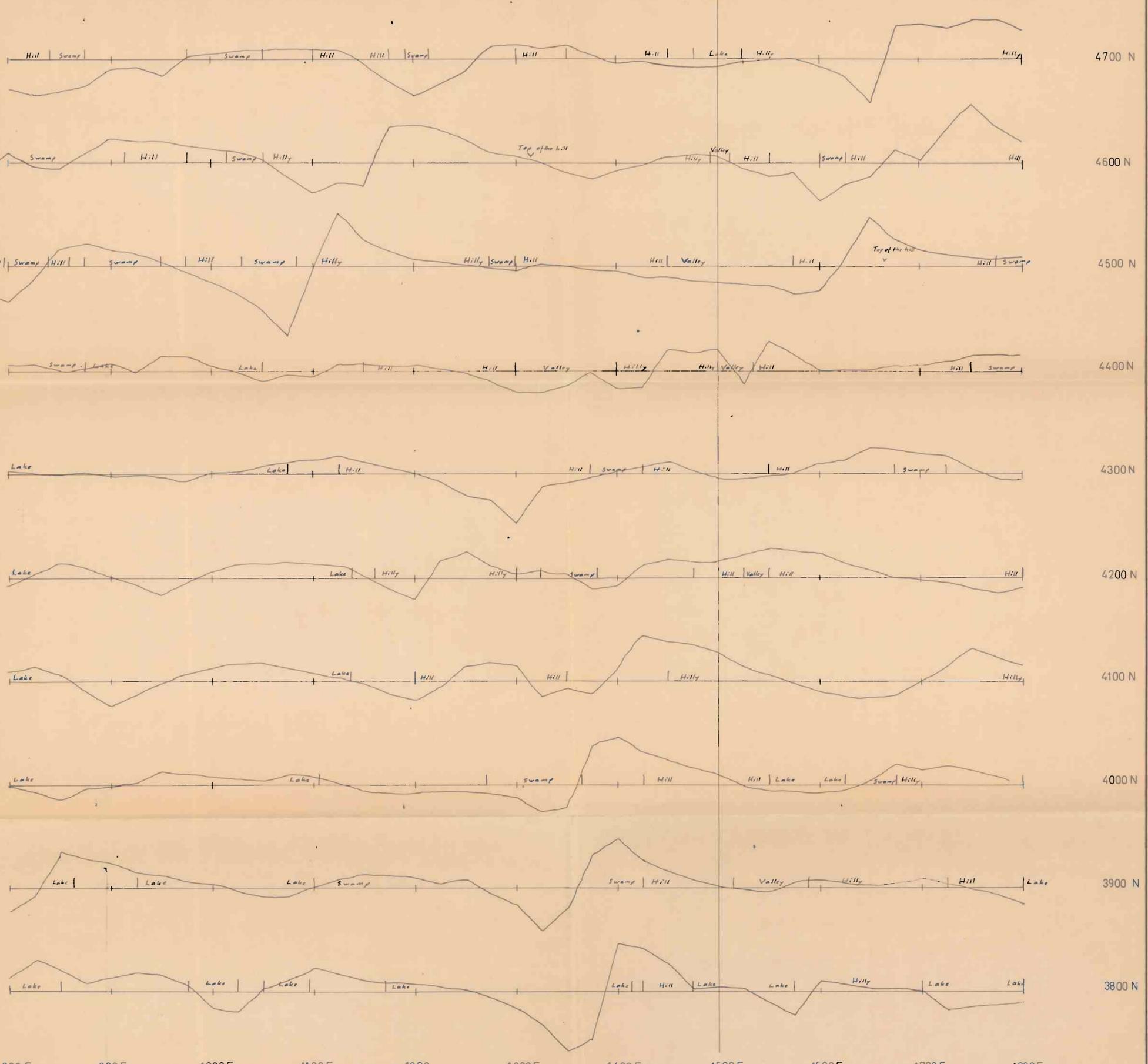
- KEY:**
- SULPHIDE BEARING HORSTON: ACID OR INTERMEDIATE VOLCANICS
 - GRAPHITE SCHIST
 - ACTINOLITE SKARN
 - GREENSTONE, SCHIST
 - MICA SCHIST, GREYWACKE
 - QUARTZ-BANDED MAGNETITE ORE
 - SULPHIDES IN BEDROCK
 - SULPHIDES IN BLOCK
 - CONTACT INFERRED
 - CONTACT OBSERVED

STUORRA SUOLOJAVRRE

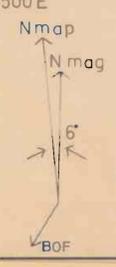
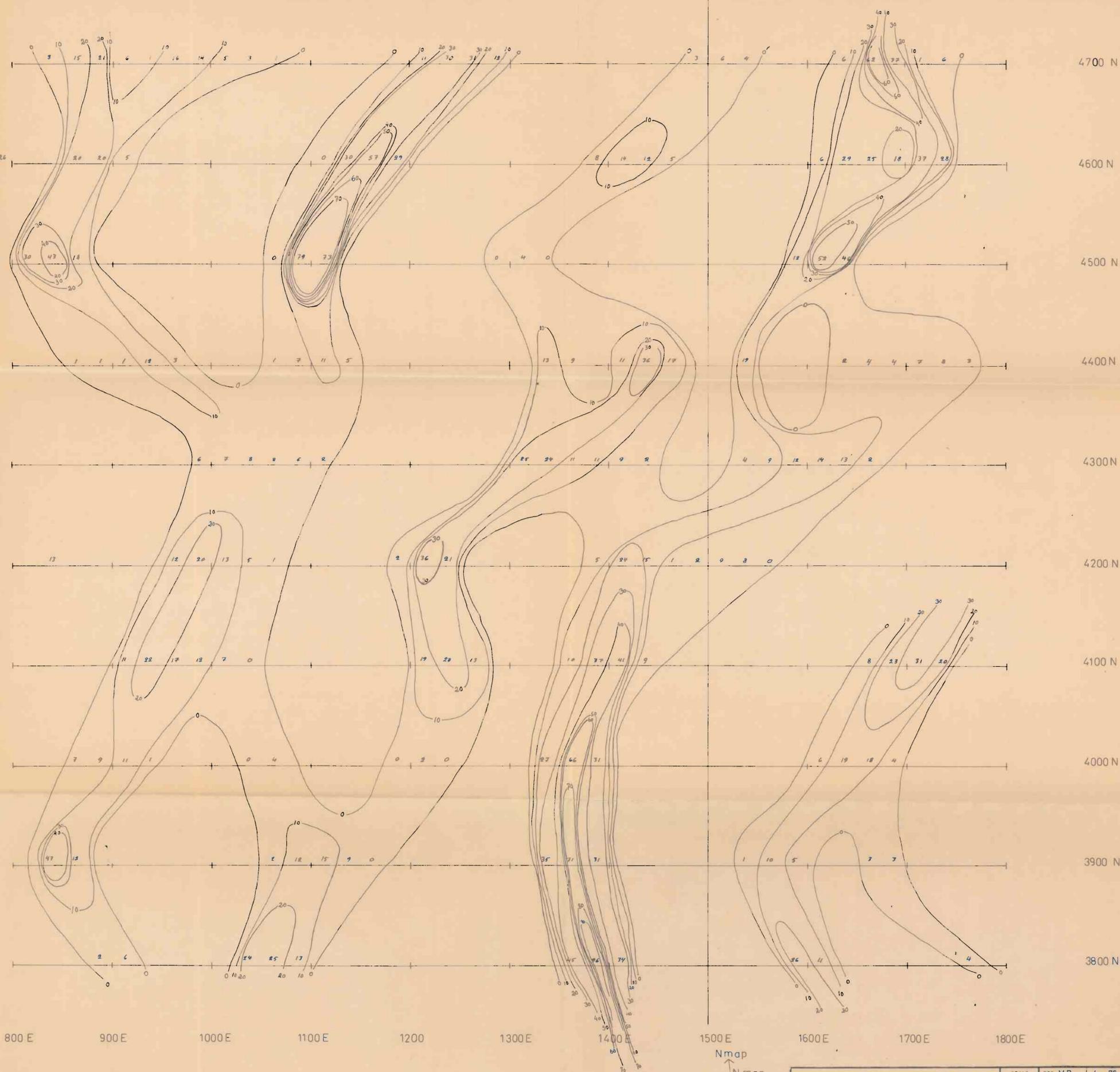
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	CHK.		
MAP NO.		410/76/17	
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GEOPHYSICS

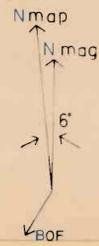
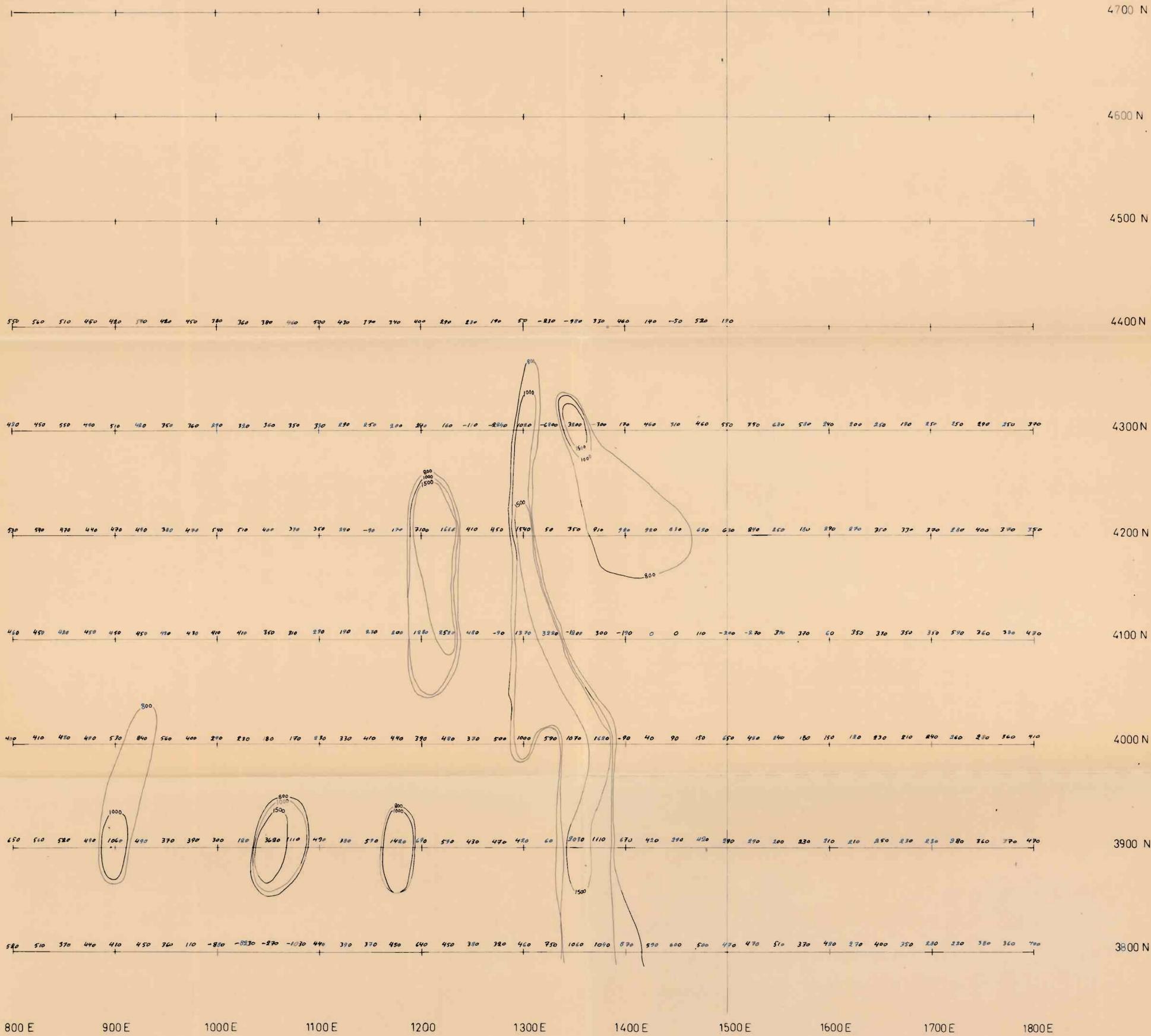
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GÄRBMAŠOAIIVE, MASI 1776.		SCALE	OBS. M.P.	4-76
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Crone Radem			TRAC. E.K.	2-77
			CHK.	
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SULFIDMALM		MAP SHEET		



GARBMAŠOAIVVE, MASI 1776		SCALE	1:2000	Obs. M.P.	4-76
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Crone Radem				TRAC. E.K.	2-77
				CHK.	
MAP NO.		410/76/17			
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GARBMAŠOAIVVE, Masi 1776. Detailed mag McPhar 700	SCALE	OBS E K	4-76
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SULFIDMALM	TRAC E K	4-76	
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