



Bergvesenet

Postboks 3021, 7002 Trondheim

Rapportarkivet

Bergvesenet rapport nr BV 511	Intern Journal nr	Internt arkiv nr	Rapport lokalisering Trondheim	Gradering Åpen
Kommer fra ..arkiv Falconbridge	Ekstern rapport nr Sul 410-76-17	Oversendt fra Sulfidmalm A/S	Fortrolig pga	Fortrolig fra dato:
Tittel Ground surveys on Gærbmassoaiivve in 1976, Masi.				
Forfatter E Kreivi, K Taipale		Dato 1976	Bedrift Sulfidmalm A/S	
Kommune Kautokeino	Fylke Finnmark	Bergdistrikt Finnmark	1: 50 000 kartblad 19343	1: 250 000 kartblad Nordreisa
Fagområde Geologi, Geofysikk	Dokument type Rapport	Forekomster Gærbmassoaiivve		
Råstofftype Malm/metall	Emneord Cu Zn Ni Zn			
Sammendrag Det synes klart at de geofysiske og geokjemiske anomaliene skyldes mineraliserte grafittlag i sure vulkanitter slik som i Suolovjavre feltet. Ni anomalier kan skrive seg fra gabbroide grønnsteiner. Bare mindre mengder magnetkis ble påvist og da på sprekker (fissures) i denne bergarten.				

FOR FALCONBRIDGE NIKKELVERK A/S
A/S SULFIDMALM

Project 905-17

Ground surveys on Gærbmasoaivve
in 1976, Masi

By

E. Kreivi

K. Taipale

Introduction (Fig.1)

The Gærbmasoaivve-grid is situated 6 kms SE of Suolovuobme. It is an extension of the Suolojavrrre-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 Gærbmasoaivve 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 Gærbmasoaivve 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.

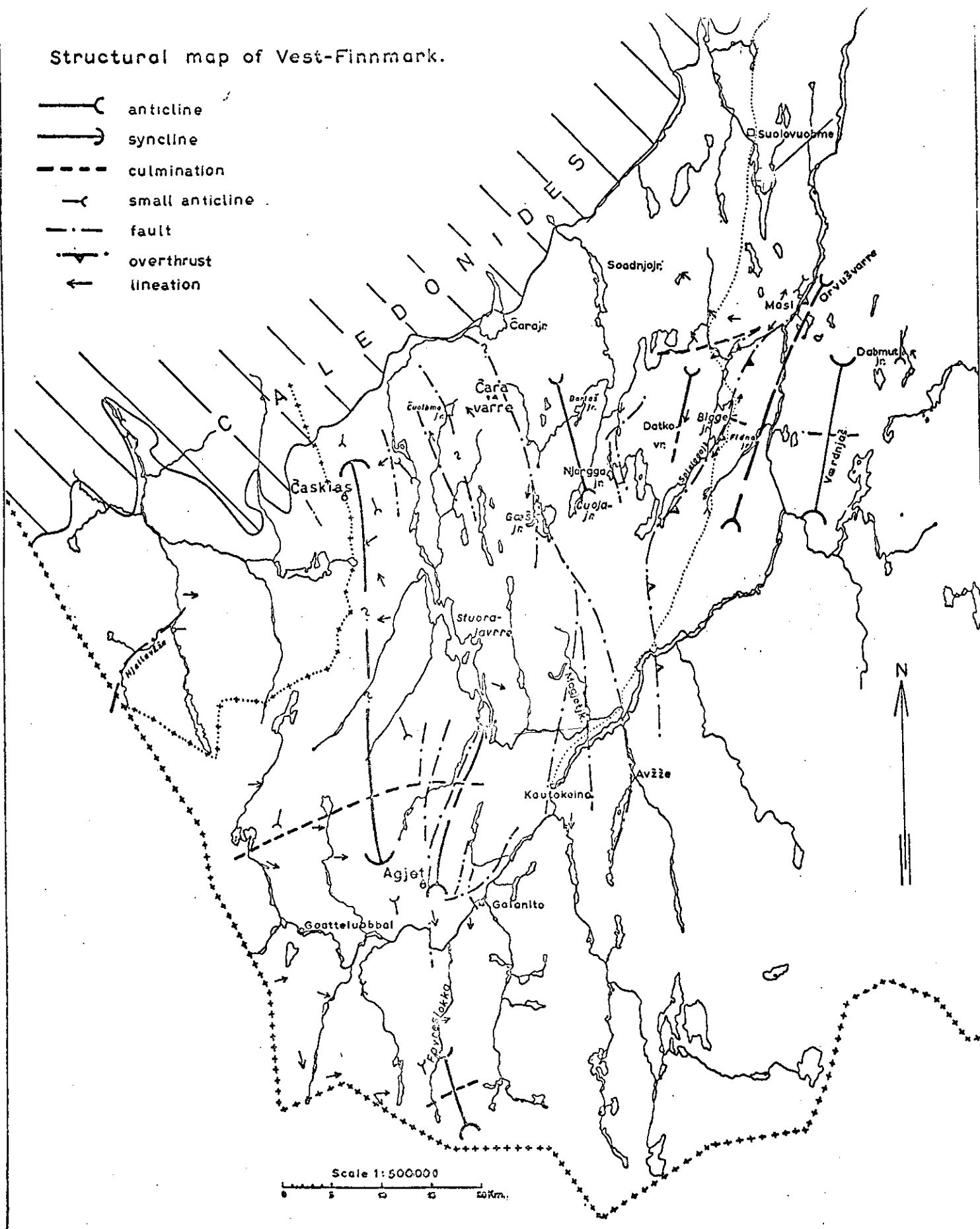
Geophysics (Fig.3)

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

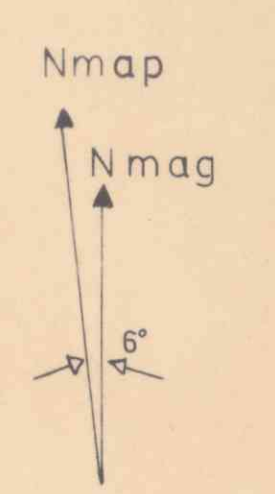
It seems obvious that the geophysical and geochemical anomalies are caused by mineralized graphitic beds in acid volcanics like on Suolojavrrre-grid. Ni-anomalies might originate from gabbroic greenstones. Only minor po was found in fissures in these rock-types.

Structural map of Vest-Finnmark.



GEOLOGY

1:40000 2000 A.I. 1:40000 2000 A.I. 1:40000 2000 A.I.

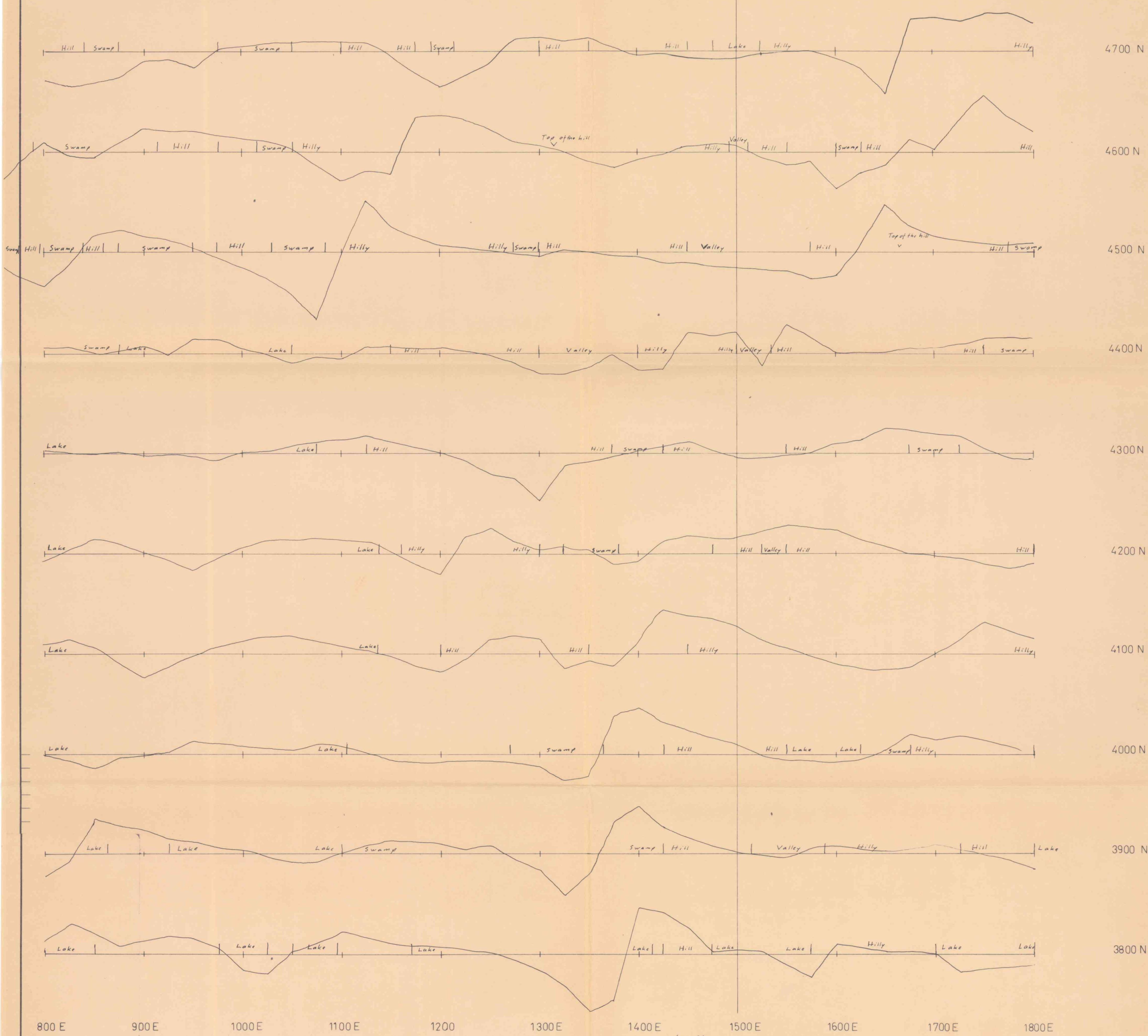


- KEY:**
- SULPHIDE BEARING HORIZON; ACID OR INTERMEDIATE VOLCANICS
 - GRAPHITE SCHIST
 - ACTINOLITE SKARN
 - GREENSTONE, -SCHIST
 - MICA SCHIST, GREYWACKE
 - QUARTZ-BANDED MAGNETITE ORE
 - SULPHIDES IN BEDROCK
 - SULPHIDES IN BLOCK
 - CONTACT INFERRED
 - CONTACT OBSERVED

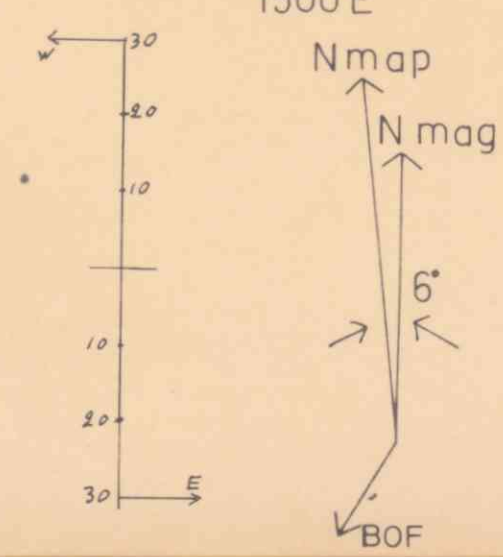
GĚRBMAŠOI'VI MASI 1776 GEOLOGY	SCALE	OBS. KT	AUG-76
	1:4000	DRAW. KT	AUG-76
		TRAC.	
		CHK.	
	185		
1/8 SULFIDMALM	MAP NO.		
	410/76/17		
	MAP SHEET		

GEOPHYSICS

As 1/10/1976, 200, A.1, E.P. 1071, Sarnani, Trakem.

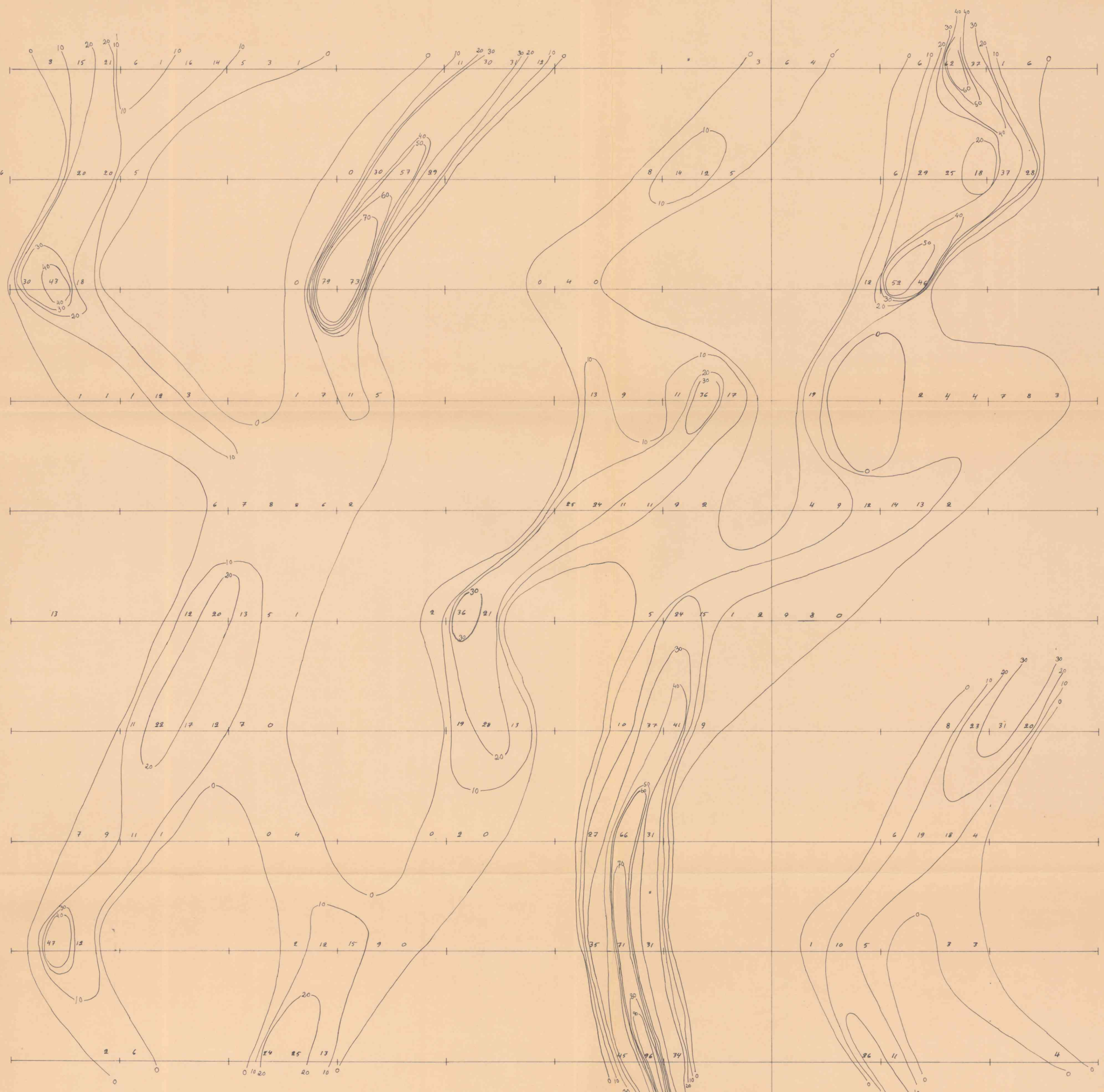


800 E 900 E 1000 E 1100 E 1200 1300 E 1400 E 1500 E 1600 E 1700 E 1800 E



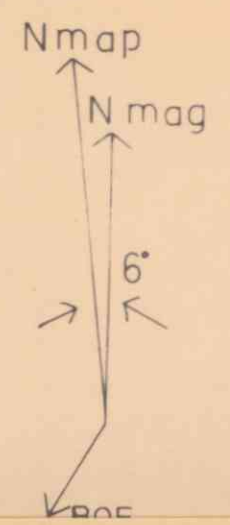
GÆRBMAŠOAIVVE, MASI 1776. Detailed VLF data Crone Radem	SCALE 1:2000	OBS. M.P.	4-76
		DRAW. M.P.	4-76
		TRAC. E.K.	2-77
	CHK.		
% SULFIDMALM	MAP NO. 410/76/17		
	MAP SHEET		

As Tarkap 2000 A 1 13.11.1971 Sestava 1776



4700 N
4600 N
4500 N
4400 N
4300 N
4200 N
4100 N
4000 N
3900 N
3800 N

800 E 900 E 1000 E 1100 E 1200 1300 E 1400 E 1500 E 1600 E 1700 E 1800 E



GARBMASOAIIVE, MASI 1776.	1:2000	SCALE	OBS. M.P.	4 - 76
			DRAW. M.P.	4 - 76
			TRAC. E.K.	2 - 77
			CHK.	
Detailed VLF Fraser		185		
Crone Radem				
1/2 SULFIDMALM		MAP NO.	410/76/17	

GAR BMA ŠOA IIVE ,MASI 1776.	SCALE	OBS. E K	4 - 76
	1:2000	DRAW. E K	4 - 76
		TRAC. E K	4 - 76
		CHK.	
Detailed map Mc Phar 700			
$\frac{1}{2}$ SULFIDMALM	MAP NO.		
	410/76/17		