Rapport 414-76-17

Masi summary 1976.

Rep. 414/76/12

Masi 1776, Summary

Con reservas

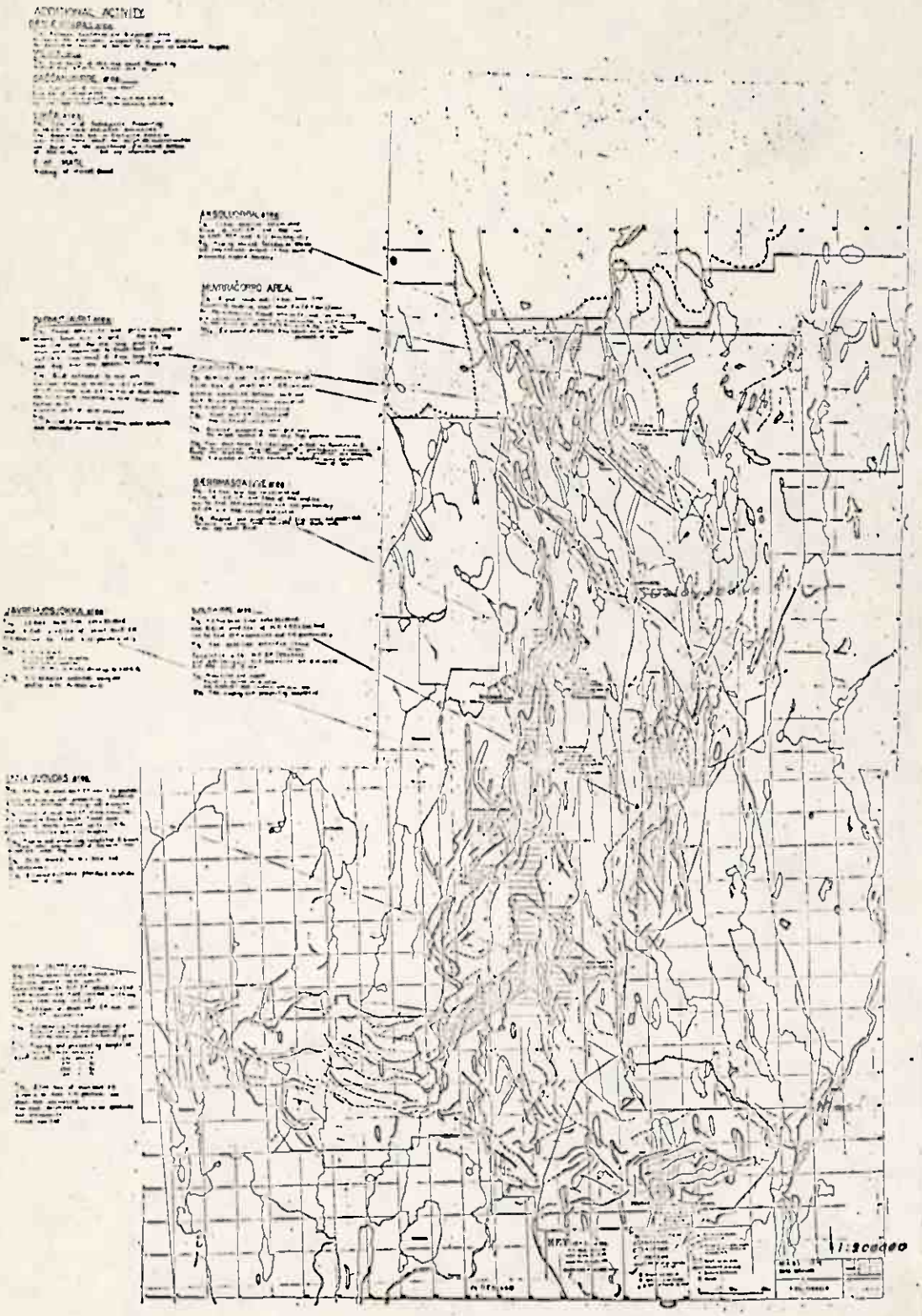


Fig. 1

Masi 1776, Summary

Introduction (Fig. 1, 2)

The following reports have been written for Masi-project so far in 1972 – 1976:

215/72	Masi mapsheet	NGU prospecting NGU geochemistry
216/72	Sieba mapsheet	NGU prospecting NGU geochemistry
217/72	Kautokeino mapsheet	NGU prospecting NGU geochemistry
218/72	Carajaurre mapsheet	NGU prospecting NGU geochemistry
219/72	Lappelvebbal mapsheet	NGU prospecting
220/72	Bæskades mapsheet Braakvann	NGU prospecting Geochemistry
241/72	Agjet mapsheet	NGU prospecting NGU geochemistry
243/72	Lavvoaivve mapsheet	NGU prospecting
244/72	Roavvoaivve mapsheet	NGU prospecting
274/73	Ingajobba	Geochemistry
275/73	Mierenjobba	Geology Geochemistry
276/73	Gæsjaurre	Geology Geophysics Geochemistry
277/73	Salggangrid	Geophysics Geochemistry Trenching
278/73	Salggangrid	Geochemistry

280/73 — 2.	Ingajokka	Prospecting
335/74	Masi 1774	Helicopter geophysics
336/74	Masi 1774 – Masi – Salggaŋjokka – Jauretvuesjokka – Salggaŋgaid – Mierenjokka – Bajasvarre	Prospecting Detailed geology Detailed geochemistry Detailed geophysics
341/74	Masi 1774	Reconnaissance geochemistry
342/74	Masi 1774	Spectrograph. geochemistry
362/75	Salggaŋjokka	Drilling
363/75	Jauretvuesjokka	Drilling
364/75	Ingajokka	Geology Geophysics Drilling
365/75	Salggaŋgaid – Jauretvuesjokka – W – Jauretvuesjavvre – W	Geology Geophysics Drilling
366/75	Masi 1775	Reconnaissance geology
367/75	Ruvvačokka	Geology Geophysics Geochemistry
368/75	Salggaŋjokka – E	Geology Geophysics Geochemistry
369/75	Vuna Vuovdas	Geophysics
372/75	Masi 1775	Summary
376/75	Masi 1775	Status report

406/76	Havggajavre	Geology Geophysics Geochemistry Drilling
407/76	Vuvva Vuovdas	Geology Geophysics Geochemistry Drilling
408/76	Javrchvosjokka - S	Geology Geophysics Geochemistry
409/76	Svolojavre	Geology Geophysics
410/76	Gærbmasoaivve	Geology Geophysics
411/76	Ruvvačokka	Geophysics Drilling
412/76	Muvrračorro	Geology Geophysics Drilling
413/76	Dabmutjavrit	Geology Geophysics Geochemistry Drilling
414/76	Masi 1776	Summary (~~This~~ report)

3.

Activity in 1976 (Fig. 2)

More detailed and reported work was done in the areas of: (See the reports)

Havggajavvre	406/76
Unna Vuovdas	407/76
Javrehvosjohka-S	408/76
Svolojavvre	409/76
Gaerbmasoaivve	410/76
Ruvvačohkka	411/76
Muvvračorro	412/76
Dabmutjavrit	413/76

In addition to those we did some detailed geophysical surveying at Aksoluobbal, some prospecting over the geochemical and geophysical targets in the Masi-area and some prospecting ~~of Masi-area~~ further afield ~~also out~~ in the areas of:

Gaccanjavvre
E of Masi
Likča
Meravarre - Mierenvarre
Mielgasjavvre - Gassemaras

Prospecting in Masi-area

Aksoluobbal

A grid with (one km long baseline in south-north direction and with one km long profiles) was ~~laid~~ set out just south of a lake called Aksoluobbal. /5

The grid was sited to locate the helicopter anomalies on the Ni-Cu-Co-Zn-anomalies in till by a VLF-EM- and a Mag-survey. Half of the grid was surveyed so far. Very weak EM- and Mag-relief was revealed.

The conglomerates and schists of the Caledonides were found 1.5 kms S of the Caledonian mountains and about 0.5 km N of Dabmutjavrit

There were also found some cpy-bearing blocks and almost massive py-horizons (41/EK-76) and jasper-banded magnetite-horizons (24/EK-76), 3 ms thick at least.

Nassajokka Zn-anomaly, 4 kms W of Silesjaure.

Couple metres wide zones of a carbonate-breccia in mica schists was found in the most anomalous areas. No trace of sphalerite was found so far.

W of Silesjaure

Several iron-sulphide-horizons with minor chalcopyrite were found. Two horizons (28 and 29/EK-76) were sampled by a Hemelite-diamond-drill (2.5 ms core). Iron sulphides with minor chalcopyrite in acid volcanics and qtz-vein was found in the core. The best analyzes in the drill-core got:

0.18 % Ni in 28/EK

0.58 % Cu in 28/EK

The best analyzes in the hand specimens got:

1.10 % Cu in 43/MP

1.26 % Cu in 56/MP

6

Dalmutjavrit

5.2 % Zn and 1.05 % Pb in the hand specimens from an outcrop (39/EK-76) was found in geochemically anomalous area. Detailed surveyed and drilled 3 holes, totalling 109.50 ms in 1976.

See report 413/76/17

Biilačåvot, inside Dalmutjavrit-grid

Two sulphide-rich horizons (20 and 34/EK-76) were sampled by a portable Hemelite-diamond-drill with

three holes (4.5 ms core). The core had a little chalcopyrite and much iron sulphides in acid volcanics.

The best analyses in the drill-core gave:

0.11 % Ni in 34/EK

0.24 % Cu in 34/EK

Muvrračorro 1 kms NE of Bilačorat

4.2% Zn, 0.33% Pb and 1.0% Cu in the hand specimens from the local blocks, 16/EK-76, were found in the geochemically anomalous areas. - Detailed surveyd and drilled 5 holes, totall. 229.1 m in 1976.

See report 412/76/17

Suolojavrre

3.9% Zn, 0.29% Pb in a hand spesimen from a block, 31/MP-76, was found in a geochemically anomalous area. Detailed surveyd in 1976

See report 409/76/17

Goarbmasoaivve 7.

A few iron-sulphide-rich and iron-oxide-rich horizons and blocks with minor cpy were found on the geophysical and geochemical anomalies. Partly detailed surveyd in 1976.

See report 410/76/17

Between Salgoanjavrre and Javrehuoppajavrre

The prospecting over the geophysical and geochemical anomalies in till turned out lots of mineralized blocks and some outcrops (18C-107/KT-76) of almost massive iron sulphides with minor cpy.

Javrehuoppjokka-S

Some cpy-bearing blocks, two magnetite-horizons and several iron-sulphide-rich outcrops were found south of the grid, layed out in 1974. Detailed surveyd in 1976

See report 408/76/17

Unna Vuovdas

About 1 % Cu in several blocks (26, 150, 162/KT-76) and 0.88 % Cu in a sample from an exposure were found in the geochemically and geophysically anomalous areas. Detailed surveyd and drilled 4 holes, totalling 173 ms in 1976.

See report 407/76/17

Havggajavvre 8

Lots of gossan, but no strongly mineralized blocks or outcrop was found on the geochemical and geophysical anomalies. Detailed surveyed and drilled 3 holes, totalling 120,05 ms in 1976. See report 406/76/12

Gaccanjavvre, 8 kms NW of Salggajavvre.

The prospecting around a big granite-complex near the Caledonides frontier and prospecting around Gaccanjavvre itself, where Lappish people have told to be "something", did not turn up anything, which would be of a economic interest. Most of the area is very poorly exposed.

E of Mosi

Prospecting on the geophysical anomalies did not turn up any interesting rock.

Likča-area, 5 kms W of Sodnajavvre.

Prospecting on the NGU's stream sediment and geophysical anomalies. The geochemical anomalies are located in fractured zones on rocky hills. Some weak iron-sulphide-mineralications were found in the weathered, fractured bottoms

and walls of valleys. Also a similar mineralization was found on the top of a hill. It was not an impressive area from an economical point of view.

9

Mierevaara – Mierenvaara, W of Mieron

Prospecting on strong airborne-EM-anomalies indicated that the anomalies are probably caused by the graphitic schists found in a couple of exposures. The schists are sometimes rich in pyrrhotite. One gossan-area was found near the highest top of Mierenvaara. The area is well covered by moraine.

Mielgasjaurre, 7 kms S of Gassemaras, 7 kms SW of Kautokeino.

Some prospecting was done in the area, where NGU had found copper-rich blocks in 1961. The area is in up-ice-direction from Gassemaras, where also lots of copper-rich blocks have been found by NGU.

The blocks at Mielgasjaurre are mainly of a very coarse grained calcite with massive chalcopyrite in pebbles, up to 30 cms in diameter. The chalcopyrite-bearing blocks on Gassemaras are mainly of albite-carbonate rocks, which we can find also in the blocks at Mielgasjaurre, but without chalcopyrite.

The amount of copper-contained in the blocks at Mielgasjaurre did not seem very interesting

from an economic point of view, especially because the area seems to be inside Sydvarangers detailed grid.

The tracing of the blocks on Gassemaras streight in ye-ice-direction did not bring up any similar block between Agjet and Gaessemaras. The area is mainly covered by swamps and low glacial hills.

/10

S of Kautokeino

One days prospecting at the lakes and streams south of Kautokeino, near the highway to Finland did not turn up any interesting discoveries.

Kivivaara, at the Finnish border near Kautokeino - highway.

The hill was prospected and one VLF-profile was ren over it. A strong anomaly was picked up, but it seemed to be caused by a very weathered mica-layer. No mineralized block or outcrop was found there.

Drilling in 1975

All the py- and po-rich cores of Salgaujokka-, Javrehaesjokka- and Ingajokka-drilling (reports 362, 363, 364, 365/175/12) from 1975, which were not analysed yet, were split and analysed in Kevitsa and for Cu and Zn, some also for Co and Au. The results were not impressive, but enclosed anyways.

Recommendations for summerseason 1977. (by Kalle Taipale)

1. Geological mapping

The Suolojavrre grid should be extended northwards to see the relations between acid plutonic rocks (syenite) and surrounding schists. This // needs about 1 - 1.5 km extention.to the base line. The syenite outcrops are situated about 2 km S of Suolovuobme fjellstue 200 m E of the old Alta- Kautokeino highway.
The same should be done to the Muvrračorro grid. Extention to the south or a new grid at the southern end of lake Biigaidjavri.
The area between Muvrračorro and Dabmutjavrit needs more detailed mapping Possibly there would be some use to map the fjelltops W of lake Silesjavri.

2. Geochemical sampling

Till sampling on the areas between Muvrracorro and Dabmutjavrit would bring new information of the Cu-, Zn and Pb-bearing horizons. Maybe the area between Ruvvačokka and Muvrračorro should be investigated and sampled. Detailed till sampling at Suolojavrre grid with Partner sampler would give better results than normal sampling with Kreivi Auger because the overburden is so thick in the walley of lake Suolojavrre. To sample the whole grid area would be too much time taking and therefore sampling should be done only from the most intresting places. This kind of place is about 3000 N - 400 E, 4200 N - 400 E -line and areas E of it to the lake Stuorra Suolojavrre. This would show whether the boulders found at the shoreline are brought by the ice from the bottom of lake Stuorra Suolojavrre or not. This group of boulders contained a block with ~~over 4 %~~ 3.9 % Zn and ~~about 1 %~~ 0.29 % Cu. and chalcopyrite was a quite common mineral in these blocks.
In common the Partner sampling should test in all kind of areas; on the areas of thick overburden as well as on the areas of thin till veneer and compare the results to the normal sampling.

3. Boulder tracing and block searching

Block searching at Suolojavrre grid on the area mentioned in connection With till sampling should be searched very carefully and if possible Proxan or a similar apparatus should be used, because the till is very paor in surface blocks.
Would be of some use to prospect the areas along the old Alta Kautokeino road from Ruvvacokka up to the Caledonides.

4. Sampling with Homelite-drill.

Some places at the Suolojavrre grid need drilling. They are places which adjoin to the observation numbers 267/KT-1776 and 268/Kt-1776, 1110N/510E and 1240N/270E. They are both at the bottom of streams and so easy to drill.

5. Geophysical investigatios

Shoot-back works at the Suolojavrre grid are recommended between 3000N and 4500N-profiles. These measurements should be extended on the lake Stuorra Suolojavrre to make sure whether there is a conductive zone under the water.
Shoot-back survey at the Muvrracorro-Dabmutjavrit area should give good information from the sulphide bearing horizons.
VLF-measurements on the fjelltops W of lake Silejavri are recommended,too.

A tentative stratigraphic scheme for the Suolovuobme area

by Kalle Taipale

Characteristic rocks	
Sediments	Igneous rocks
THE MAIN PHASE OF FOLDING	Synorogenic granites (eg. Suolojavrre)
Conglomerates, Masijokka quartzite	Gabbroic rocks
Pyroclasts (greywackes), cherts, ironformations, carbonaceous schists (=graphite schists)	Spilitic greenstones
Mica schists, mica quartzites	
========== DISCORDANCE	
Granite gneiss	

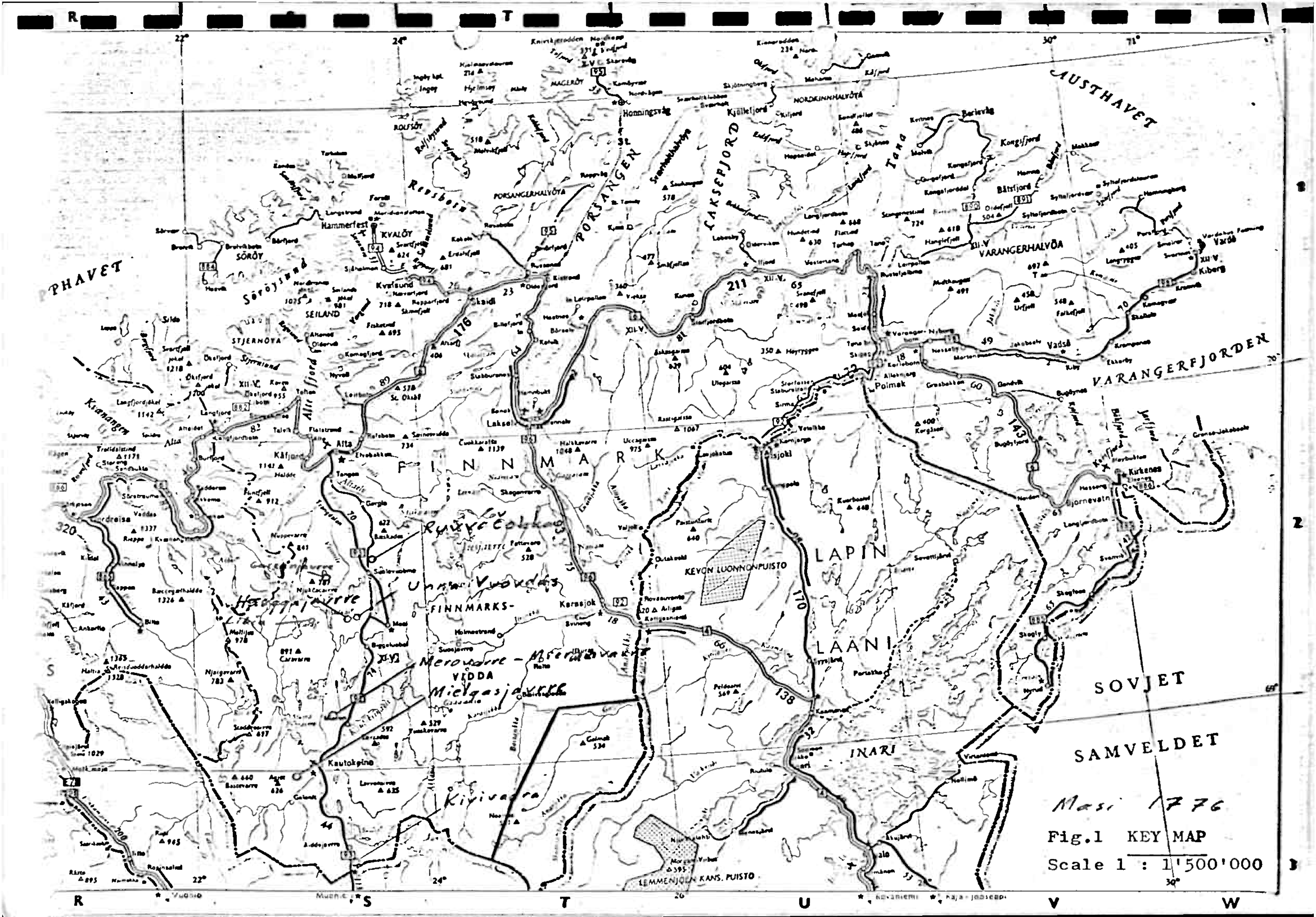


Fig.1 KEY MAP

Scale 1 : 1'500'000

Projekt nr: Masi 1776 | Dato 24/9 1976 | Innsendt av: E. Kreivi

Nr.	Prøve-nr.	Lokalitet	Provetype	Beskr.	Ni	Cu	Zn	Au					Bemerk:
484	20a/EK 0-0.60	Bilaćåsa	Drill-core		0.08	0.11	0.10						
485	20a/EK 0.60-1.30	"	"		0.04	0.10	0.10	<0.6 ppm					
486	20b/EK 0-0.60	"	"		0.08	0.12	<0.01						
487	20c/EK 0.60-1.20	"	"		0.04	0.11	0.016						
488	20c/EK 1.20-1.57	"	"		0.10	0.15	<0.01						
489	34/EK 0-0.60	"	"		0.04	0.21	<0.01						
490	34/EK 0.60-1.20	"	"		0.11	0.15	<0.01	<0.6 ppm					
491	34/EK 1.20-1.85	"	"		0.04	0.24	<0.01						
X 492	28/EK 0-0.60	Silesjåvatn	"		0.18	0.32	<0.01						
X 493	28/EK 0.60-1.20	"	"		0.06	0.58	<0.01	<0.6 ppm					
X 494	28/EK 1.20-1.82	"	"		0.10	0.27	<0.01						
495	29/EK 0-0.60	"	"		0.01	0.03	<0.01						
496	29/EK 0.60-1.15	"	"		0.09	0.16	<0.01	<0.6 ppm					

Innbringer:

Shipment No. 17/8

[illegible] Masi 1776 | Dato 23/8 1976 | Innsendt av: E. Kreivi

	Prøve-nr.	Lokalitet	Prøvetype	Beskr.	Cu	Zn	Pb	S	Ag	Au		Bemerk:
78	233/KT	Svolojavrre	Grab		0,40	0.012	<0,02					
79	258/KT	—"—	—"—		0,29	0.017	<0,02					
80	259/KT	—"—	—"—		0,19	<0,01	<0,02					
X 81	43/MP	Silesjavrre	—"—		1,10	<0,01	<0,02					
X 82	56/MP	—"—	—"—		1,21	<0,01	<0,02					
83	37A/EK	Dalmotjavrit ~~[illegible]~~	—"—		0,06	5,2	0,83		52 ppm			Σ Zn, Pb = 6.03 %
84	37B/EK	—"—	—"—		0,07	3,6	0,78		51 ppm			Σ Zn, Pb = 4.38 %
85	37C/EK	—"—	—"—		0,07	2,7	1,05					Σ Zn, Pb = 3.75 %
86	42A/EK	Raipas	—"—		2,90		<0,02	9,0	20 ppm	1 ppm		
87	42B/EK	—"—	—"—		0,48		<0,02					

[illegible]

Shipment No. 17/2

Prosjekt nr. Mai 1776 | Dato 19/7 1976 | Innsendt av: E. Frei.

Prøve-nr.	Lokalitet	Prøvetype	Dyp	Cu	Ni	Zn	S	Bemerk.
27	169/KT Salvannjaure	grab		0,47 x	0,10 x			
28	31/MP Svolojaure	— " —		0,29 x		ca 39 x		
29	25/EK Ahsevaltal	— " —		0,03 x			0,3 x	

Merkninger:

Shipment No. 17/3

Innsendt fra: Masi 17-75 | Dato 23/9 1976 | Innsendt av: E. Krell

Lab. nr.	Prøve-nr.	Lokalitet	Provetype	Beskr.	Cu	Zn	Co	Au					Bemerk:
470	1-5/17-18	Salggaajokk.	Drill core		0.07	0.011	<002	<0.6ppm					
471	1-5/18-19				0,10	0,55							
472	2-5/20-21				0.01	0,02							
473	2-5/21-22				0,01	<0.01	009	<0.6ppm					
474	3-5/11-12				0.01	0.01	0.04	<0.6ppm					
475	4-5/11-12				0,03	<0.01	<0.02	<0.6ppm					
476	4-5/12-13				0.01	<0.01							
477	4-5/13-14				003	<0.01							
478	4-5/14-15				0.04	<0.01							
479	4-5/15-16				0.01	<0.01							
480	4-5/16-17				0.02	<0.01							
481	4-5/17-18				002	<001	0.07	<0.6ppm					
482	6-5/9-10				004	<001	<002	<0.6ppm					
483	6-5/19-20	↓	↓		0.05	0.017	<0.02	<0.6ppm					

merknader:

Shipment No. 17/77

[illegible] nr. *Masi 1775* | Dato *23/9 1976* | Innsendt av: *E. Kreivi*

Lab. nr.	Prøve-nr.	Lokalitet	Prøvetype	Beskr.	Cu	Zn	Co	Au					Bemerk.
455	7-S/17-18	Salzganjohk	Drill-core		0,01	<0,01	0,04	<0,6 ppm					
456	8-S/11-12				0,03	<0,01	0,09	<0,6 ppm					
457	9-S/19-20				0,07	0,022	0,05	<0,6 ppm					
458	10-S/4-5				0,01	<0,01	<0,02	<0,6 ppm					
459	11-S/16-17				0,01	<0,01	0,06	<0,6 ppm					
460	12-S/8-9				0,01	<0,01							
461	12-S/13-14				0,02	<0,01	<0,02	<0,6 ppm					
462	13-S/11-12				0,04	<0,01	0,05	<0,6 ppm					
463	14-S/10-11				0,01	<0,01	0,05	<0,6 ppm					
464	14-S/11-12				0,01	<0,01							
465	1-7/12-13	Javrrhoajoh			0,03	<0,01	<0,02	<0,6 ppm					
466	5-7/15-16				0,08	<0,01	<0,02	<0,6 ppm					
467	5-7/16-17				0,10	<0,01							
468	5-7/27-28				0,11	<0,01							
469	5-7/28-29				0,12	<0,01	<0,02	<0,6 ppm					

Merkninger: I tillegg er følgende prøve mottat:
8 S 14-15m.

Shipment No. 17/7

Rapport nr. Masi 17-75 | Dato 23/9 1976 | Innsendt av: E. Kirkevik

Lab. nr.	Prøve-nr.	Lokalitet	Provetype	Beskr.	Cu	Zn	Co	Au	U				Bemerk:
440	5-7/29-30	Jævsheia gabbro	Drill-core		0.02	<0.01							
441	6-7/10-11				0.07	<0.01							
442	6-7/11-12				0.09	<0.01	0.03	<0.6 ppm					
443	6-7/15-16				0.06	<0.01							
444	6-7/13-14				0.12	<0.01							
445	7-7/22-23				0.01	<0.01	0.16	<0.6 ppm					
446	7-7/23-24				0.02	<0.01							
447	7-7/19-20				X	X			X				Ikke ankommet lab
448	8-7/8-9				0.02	<0.01							
449	8-7/9-10				0.01	<0.01	<0.02	<0.6 ppm					
450	9-7/11-12				0.01	<0.01	0.04	<0.6 ppm					
451	9-7/12-13				0.01	<0.01							
452	9-7/20-21				0.06	<0.01	<0.02	<0.6 ppm					
453	9-7/21-22				0.02	<0.01							
454	9-7/22-23	↓	↓		0.01	<0.01							

Anmerkninger:

Shipment No. 17/7

Prosjekt nr. Masi 1775 | Dato 23/7 1976 | Innsendt av: Eikl. Kvo.

Lab. nr.	Prøve-nr.	Lokalitet	Provetype	Beskr.	Cu	Zn	Co	Au	Bemerk:
425	9-7/23-24	Jaurechmsjøtt	Drill-core		0.01	<0.01			
426	9-7/25-26				0.01	<0.01			
427	9-7/26-27				0.01	<0.01			
428	9-7/27-28				0.01	<0.01			
429	9-7/28-29				0.02	<0.01	<0.02	<0.6ppm	
430	9-7/29-30				0.01	<0.01			
431	10-7/4-5				0.04	<0.01	0.04	<0.6ppm	
432	10-7/27-28				0.01	<0.01	<0.02	<0.6ppm	
433	10-7/28-29				0.01	0.017			
434	10-7/30-31				0.03	<0.01			
435	11-7/3-4				0.06	0.01			
436	11-7/4-5				0.11	<0.01	<0.02	<0.6ppm	
437	11-7/5-6				0.09	<0.01			
438	11-7/6-7				0.05	<0.01			
439	11-7/7-8				0.06	<0.01			

Merkninger:

Shipment No. 17/7

Projekt nr.: Masi 1775 | Dato 23/9 1976 | Innsendt av: E. Kvalvi

Nr.	Prøve-nr.	Lokalitet	Prøvetype	Resten	Cu	Zn	Co	Mo					Bemerk:
410	11-7/8-9	Jævrehovsjokk	Drill-core		0,15	<0,01							
411	11-7/9-10				0,16	<0,01							
412	11-7/16-17				0,15	<0,01	0,04	<0,6ppm					
413	11-7/20-21				0,09	<0,01	0,04	<0,6ppm					
414	12-7/14-15				0,02	<0,01							
415	12-7/15-16				0,01	0,039	<0,02	<0,6ppm					
416	12-7/16-17				0,03	0,054							
417	12-7/22-23				0,05	<0,01							
418	12-7/23-24				0,01	<0,01							
419	12-7/24-25				0,01	<0,01							
420	12-7/25-26				0,04	<0,01							
421	12-7/26-27				0,01	<0,01							
422	12-7/27-28				0,01	<0,01							
423	12-7/28-29				0,01	0,022	<0,02	<0,6ppm					
424	12-7/29-30				0,02	0,033							

Anmerkninger:

Shipment No. 17/7

Prosjekt nr. Masi 1775 | Dato 23/9 1976 | Innsendt av: E. Kvitvi

Lab. nr.	Kunde-nr.	Lokalitet	Prøvetype	Beskr.	Cu	Zn	Co	Au	Bemerk:
398	1-N/17-18	Ingrajobba	Drill-core		0,05	<0,01	<0,02	<0,6ppm	
399	1-N/38-39				0,03	<0,01			
400	1-N/39-40				0,03	<0,01	<0,02	<0,6ppm	
401	2-N/18-19				0,03	<0,01	<0,02	<0,6ppm	
402	2-N/31-32				0,02	<0,01			
403	2-N/37-38				0,02	<0,01	<0,02	<0,6ppm	
404	3-N/25-26				0,02	<0,01	<0,02	<0,6ppm	
405	3-N/28-29				0,06	<0,01			
406	3-N/35-36				0,03	<0,01			
407	3-N/39-40				0,04	<0,01			
408	3-N/40-41				0,07	<0,01	<0,02	<0,6ppm	
409	3-N/59-60				0,03	<0,01	<0,02	<0,6ppm	

Merknader: I tillegg er følgende prøver mottat:
4 N 3-4m, 4 N 9-10m og 4 N 30-31m.

Shipment No. 17/F

AIR MAGNETIC SURVEY

21° 22° 23° 24° 25° E. Gr.

70°

69° 30'

69°

68° 30'

Flylinje med plottet punkt

Maksimum

Minimum

Isomagnetiske kurver med intervall 100 gamma

MÅLESKALA

5 0 5 10 15 20 km

Fig. 1

STATENS MALMUNDERSØKELSER AEROMAGNETISKE MÅLINGER Airmagnetic survey VESTFINNMARK	MÅLESTOKK 1: 250 000	MÅLT. FB:HH:KB TRAC. KFR. I.Aa.	1959 og 62 APRIL 1966 MAI 1966
NORGES GEOLOGISKE UNDERSØKELSE TRONDHEIM	TEGNING NR: 270 01		

VESTFINNMARK
STATENS MALMUNDERSØKELSER. Airmagnetic survey.
AEROMAGNETISKE MÅLINGER

Fig. 1.

DATA SUMMARY

ADDITIONAL ACTIVITY.

GÆSSEAMARAS area

6/76 Between Kautokeino and Bidjovagge mine.
Drilled in 1971 Additional prospecting in up-ice direction to determine source of boulder train gave no additional targets

MIERON area:

6/76: Just south of this map sheet Prospecting revealed only graphitic schists rich in po.

GAČČANJAVRRE area:

7/76: Just west of this map sheet.
8 kms NW of Salgganjavrre
Prospecting around a granite-intrusive and around the lake itself found nothing economically interesting

LIKČA area:

8/76: 5 Km W of Sodnajavrre. Prospecting on NGU's stream-sediment-anomalies.
The anomalies are in fractured zones on rocky hills. Some weak iron-sulphide mineralization was found in the weathered, fractured bottom of the valleys. Not any impressive area

E of MASI

Nothing of interest found

AKSOLUOBBAL area:

4/76: 1.6 kms baseline established 6 kms of VLF-EM and MAG run to test HEM and till geochemistry
9/76 Mapping showed Caledonide schists and conglomerate present 1.5 kms south of previously mapped boundary

MUVRRAČORRO AREA:

7/76: A grid laid out, 1.0 km base line. Prospecting mapping, shoot back Em (2.4 kms) over Zn-Pb-anomalies Found sphalerite- and cpy-bearing acid volcanite blocks above acid volcanites and EM-anomalies.
10/76: 5 diamond drillholes. Abundant sulphides, couple percents of cpy

DABMUTJAVRIT area:

3/76: Found sphalerite and galena along joints in acid volcanics. Laid out a grid, 500 ms long base line and 300 ms long profiles, which were measured by Shoot-back-EM and VLF (3.9 line-Kms) A 5ms long trench was dug over the sphalerite-showing.
9/76 Grid extended to east with additional 2 Kms of baseline 13.1 line-kms of VLF coverage and 3.8 line kms of shoot-back-EM run 580 till samples collected by hand auger and Partner drill
Western part of grid mapped
10/76 Drilled 3 diamond drill-holes, some sphalerite and chalcopyrite in the core

RUVVAČOKKA area:

3/76: Baseline and grid re-established 6 Line kms of 'shoot-back' EM run over geochem. anomalies between 600 N and 800 N Very strong conductor coincident with highest geochem. anomalies
4/76 Shoot-back-EM (3.8 kms) and MAG (6.5 kms) completed.
6/76: Detailed prospecting over grid area No obvious source for the very high geochem anomalies
8/76: Two short holes (à 1.2m) were drilled by Homelite-drill on two mineralized showings out of geochemical anomalies Mainly iron sulphides with minor cpy in graphitic acid volcanics.
10/76 7 diamond drillholes Abundant sulphides, some sphalerite, traces of cpy

GÆRBMASOAIVVE area:

4/76: 3.2 Kms base-line established and 10 Kms of VLF-EM- and 8 Kms of MAG profiles run to test HEM anomalies and till-geochemistry VLF-EM and MAG relief distinctive
8/76 Mapped and prospected. A few iron-sulphide-rich horizons and iron-oxide-horizons and blocks with minor cpy were found.

JAVREHUOSJOKKA area:

4/76 1.5 Kms base line established and 3 first profiles of shoot-back-EM (1.8 Kms) run to test till-geochemistry
7/76: Grid laid out
Collected 288 till samples
Mapped and prospected
Some cpy-bearing blocks found up to 0.65% Cu.
9/76 Till samples collected along one profile with Partner drill.

SUOLOJAVRRE area:

3/76: 4.2 Kms base line established and 2 first profiles of VLF-EM (1.6 line kms) run to test HEM anomalies and till geochemistry.
4/76 The baseline extended 1.4 kms longer.
Completed with VLF-EM (44.0 kms) and MAG (44.0 kms) VLF-anomalies are distinctive but MAG relief is low.
7/76: Prospected and mapped
Found a banded iron formation and sulphide-rich horizons with minor cpy.
8/76 The mapping and prospecting completed.

UNNA VUOVDAS area:

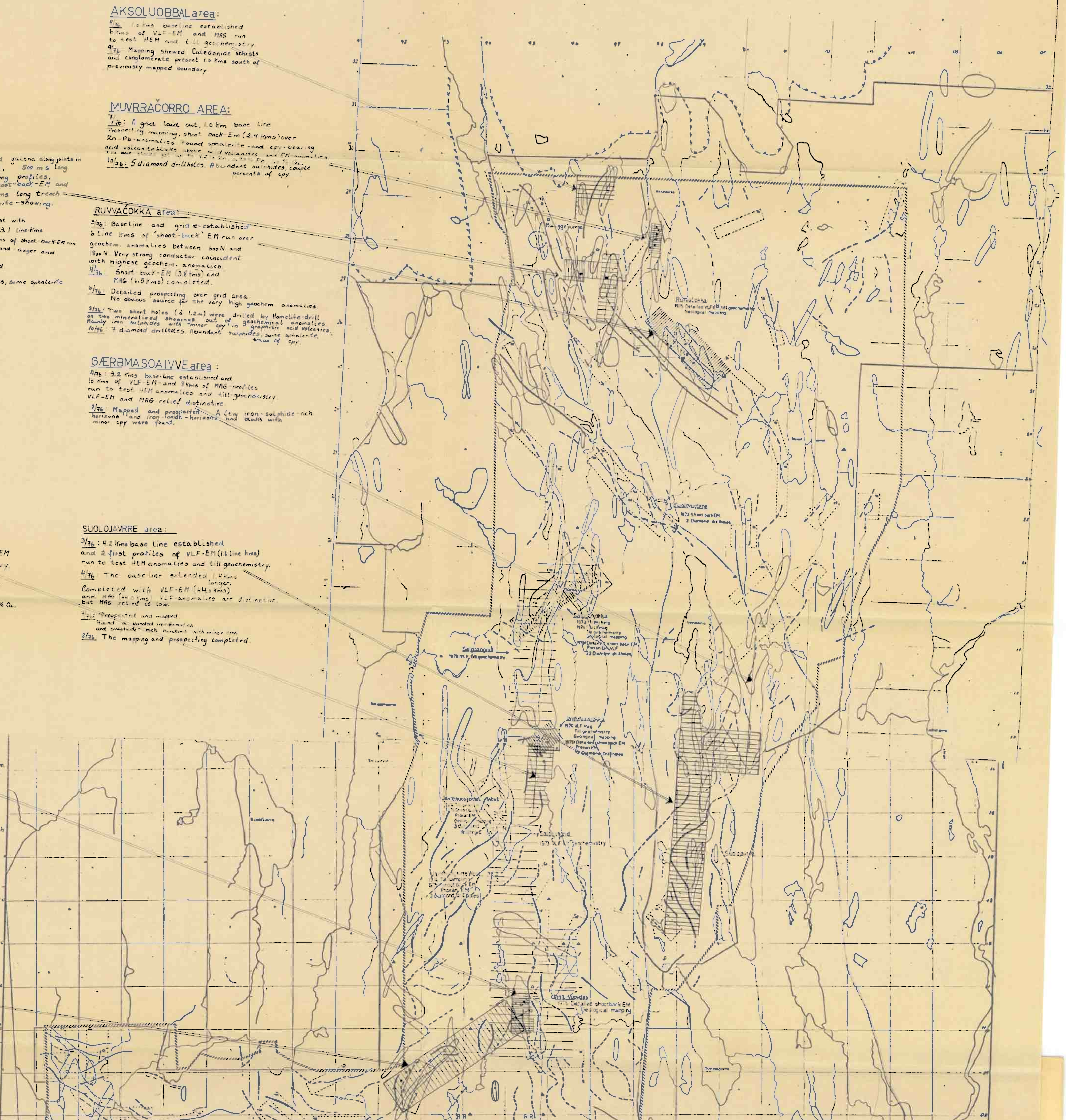
6/76: 3.4 Km of shoot back EM over till geochem anomalies
Detailed mapping and prospecting. Blocks and outcrops carrying cpy discovered
7/76: 3.2 km of shoot back EM strong anomalies. More prospecting towards south. Found more cpy-bearing blocks assayed up to 1.1% Cu, 0.18% Ni. Collected 364 till-samples
8/76: Mapping and prospecting completed. A trench of 9 ms over one horizon of massive iron sulphides was dug
9/76 Drill moved to this area end of september.
10/76: 4 diamond drillholes Abundant sulphides Traces of cpy

HAVGGA JAVRRE area

3/76: 3.5 Km baseline established with profiles spaced 100 m apart
Completed with VLF-EM, which located HEM anomalies Half covered with mag. — very low mag relief
4/76 8.4 Kms of shoot-back-EM run over the VLF-EM anomalies.
6/76 Till sampling (1112 samples) over grid. Detailed mapping and prospecting. Sulphide zones seen so far have only py/po
8/76 Mapping and prospecting completed.
Till sample results received
Best values

1030	ppm	Ni
1240	"	Cu
6700	"	Zn
210	"	Co

9/76: 2 line kms of shoot back EM
3 DDH's to test till geochem and shoot-back anomalies
Abundant sulphides, only minor sphalerite and chalcopyrite
Assays awaited.



MASI 1776. Data Summary

Fig 2. Sheet 1

PROSPECTING CLAIMS

MASI 1776. Prospecting claims

Fig 2 sheet 2

Aksoluobbal

Aksojavrre

Muvrra-
čorro

Buiggojavrre

Dabmut-
javrit

Ruvvačokka

Silgesjavrre

Raisot-
javret

Suolavuobme

Salgganjokka

Suolojavrre

Gærbmasoaivve

Salgganjavrre

Lodnatjavrre

(Altaelva)

△ Sulphide-bearing block
□ Sulphide-bearing outcrop

NORD

Fig. 2 Sheet 3

MASI 1776
Prospecting, Claims

½ SULFIDMALM

SCALE 1:20 000
OBS.
DRAW.
TRAC.
CHK.

MAP NO. 414/76/17

MAP SHEET

Fig 2 Sheet 3
MASI 1776, Prospecting, Claims