



# Bergvesenet

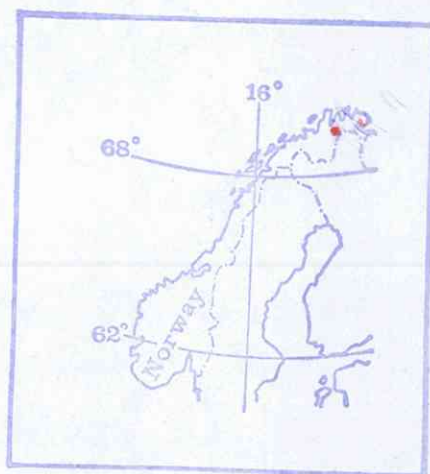
Postboks 3021, 7002 Trondheim

## Rapportarkivet

Bergvesenet rapport nr <b>BV 514</b>	Intern Journal nr	Internt arkiv nr	Rapport lokalisering Trondheim	Gradering <b>Åpen</b>
Kommer fra ..arkiv Falconbridge	Ekstern rapport nr Sul 414-76-17	Oversendt fra Sulfidmalm A/S	Fortrolig pga	Fortrolig fra dato:
Tittel <b>Masi 1776, Summary.</b>				
Forfatter <b>E Kreivi</b>		Dato 1976	Bedrift Sulfidmalm A/S	
Kommune <b>Kautokeino</b>	Fylke <b>Finnmark</b>	Bergdistrikt <b>Finnmark</b>	1: 50 000 kartblad 19343 18342 18331 18332 18321 18322 19333 19334	1: 250 000 kartblad <b>Nordreisa</b> <b>Enontekiö</b>
Fagområde Geologi geofysikk geokjemi	Dokument type Rapport	Forekomster Aksoluobal Nassajokka Silesjavre Dabmutjavre Biilacárot Muvrracorro Suoljavre Gærbmasoaive Salgganjavre Javrhoosjavre Javrhoosjokka-S Unna Vuovdas Havggajavre Gaccanjavre Likca Mieronvarre Mielgeasjavre Gæssemaras Kivivaara		
Råstofftype Malm/metall	Emneord Cu Ni Co Zn Pb			
Sammendrag <b>OPPSUMMERINGSRAPPORT</b> - som inneholder rapport oversikt over tidligere arbeider i området og som inneholder oversiktskart over prosjekter stikningsnett og bergrettigheter ( prospecting claims).  Inneholder også et forslag om arbeider i sesongen 1977				

FOR FALCONBRIDGE NIKKELVERK A/S  
A/S SULFIDMALM  
PROJECT 905-17  
Masi 1776, Summary

By  
E. Kreivi



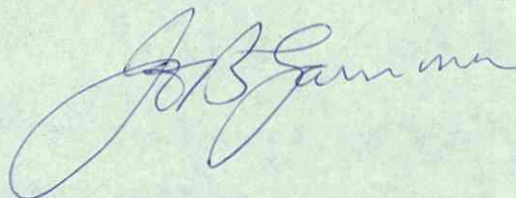
Ok. 19.10.77  
EW

A/S SULFIDMALM  
INTER-OFFICE MEMORANDUM

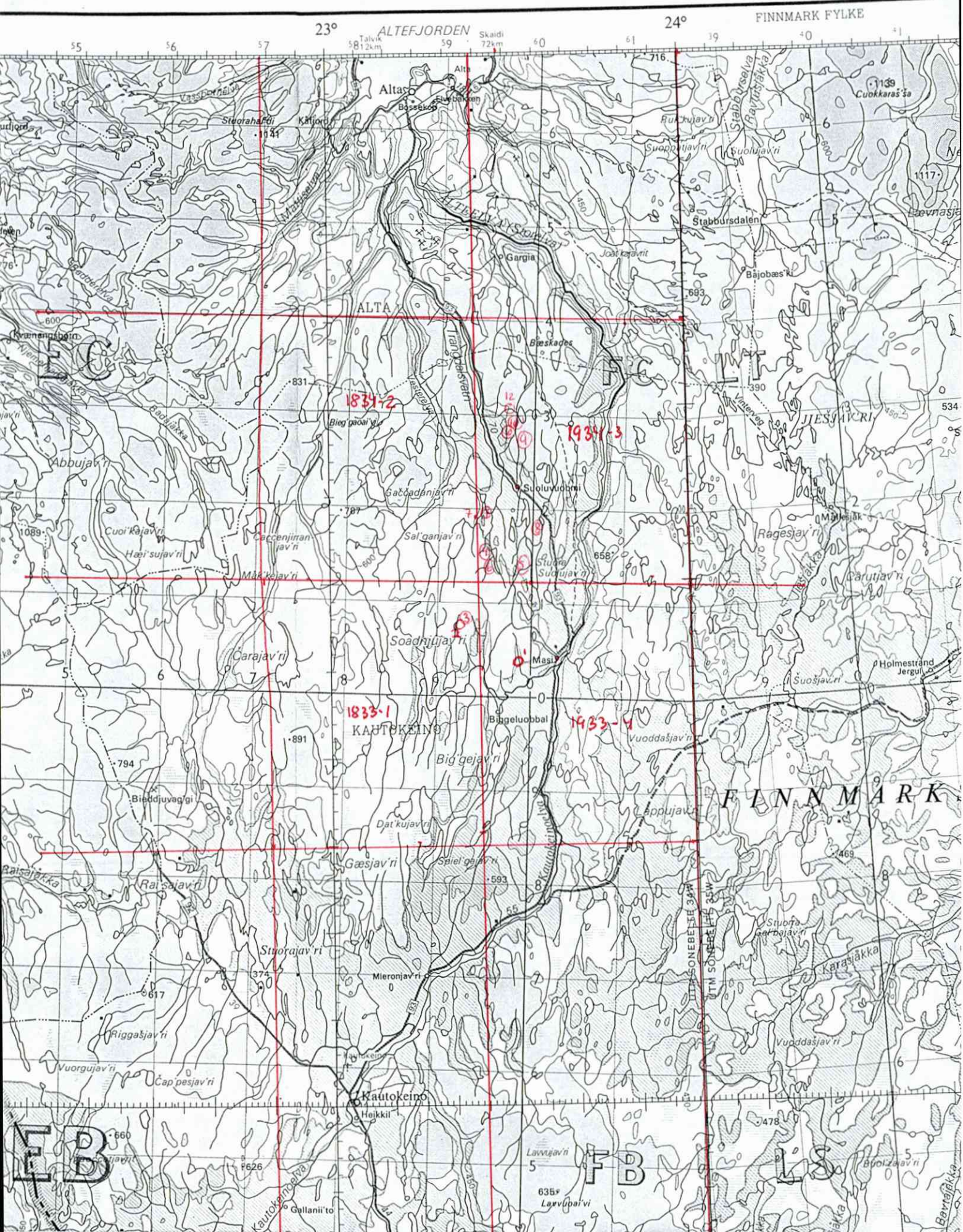
Date: 12th October, 1977 ✓  
To: Falconbridge Nikkelverk A/S  
cc: W. D. Harrison, H. T. Berry, R. Jahnsen, F. Nixon,  
R. B. Band, E. Kreivi  
From: J. B. Gammon  
Subject:

Report No. 414/76/17. Masi Summary.

Please find attached Kreivi's summary of work carried out to date in the Masi area. This listing provides a useful basis for future evaluation of which areas deserve additional work to be carried out.







- 1 Ingaajokka
- 2 Havggajavre
- 3 Unna Vuodas

- 4 Javrehuosjokka
- 5 Suolajavre
- 6 Salgaugneid (skil N-S)
- 7 Salgaugjokka
- 8 Gærmasuavivi
- 9 Ruvvackka

- 10 Dabmatjavre
- 11 Muvmacorro
- 12 Aksoluobol

Se skildn. 414/78/17



Introduction (Fig.1, 2)

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

215/72	Masi mapsheet	NGU prospecting NGU geochemistry
216/72	Siebe mapsheet	NGU prospecting NGU geochemistry
217/72	Kautokeino mapsheet	NGU prospecting NGU geochemistry
218/72	Carajavrre mapsheet	NGU prospecting NGU geochemistry
219/72	Lappoluobbal mapsheet	NGU prospecting
220/72	Bæskadas mapsheet Braakvann	NGU prospecting NGU geochemistry
242/72	Agjet mapsheet	NGU prospecting NGU geochemistry
243/72	Lavvooaivve mapsheet	NGU prospecting
244/72	Roavvooaivve mapsheet	NGU prospecting
274/73	Ingajokka	Geochemistry
275/73	Mieronjokkka	Geology Geochemistry
276/73	Gæsjavrre	Geology Geophysics Geochemistry
277/73	Salggangrid	Geophysics Geochemistry Trenching
278/73	Salggangrid	Geochemistry
280/73	Ingajokka	Prospecting

335/74	Masi 1774	Helicopter geophysics
336/74	Masi 1774 - Masi - Salgganjokka - Javrehuosjokka - Salggangrid - Mieronjokka - Bajasvarre	Prospecting Detailed geology Detailed geochemistry Detailed geophysics
341/74	Masi 1774	Reconnaissance geochemistry
342/74	Masi 1774	Spectrograph. geochemistry
362/75	Salgganjokka	Drilling
363/75	Javrehuosjokka	Drilling
364/75	Ingajokka	Geology Geophysics Drilling
365/75	Salggangrid - Javrehuosjokka-W - Javrehuosjavrre-W	Geology Geophysics Drilling
366/75	Masi 1775	Reconnaissance Geology
367/75	Ruvvačokka	Geology Geophysics Geochemistry
368/75	Salgganjokka-E	Geology Geophysics Geochemistry
369/75	Unna Vuovdas	Geophysics
372/75	Masi 1775	Summary
376/75	Masi 1775	Status report
406/76	Havggajavrre	Geology Geophysics Geochemistry Drilling

407/76	Unna Vuovdas	Geology Geophysics Geochemistry Drilling
408/76	Javrehuosjokka-S	Geology Geophysics Geochemistry
409/76	Suolojavvre	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)

### Activity in 1976 (Fig.2)

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

Havggajvrre	406/76
Unna Vuovdas	407/76
Javrehuosjokka-S	408/76
Suoløjavrre	409/76
Gærbmasoaivve	410/76
Ruvvačokka	411/76
Muvrračorro	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 further afield in the areas of:

Gáččanjavrre  
E of Masi  
Likča  
Merovarre - Mieronvarre  
Mielgasjavrrre - Gassemaras

### Prospecting in Masi-area.

#### Aksoluobbal

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



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 was 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 Silesjavrrre. A couple of metres wide zone of a carbonate-breccia in mica schist was found in the most anomalous areas. No trace of sphalerite was found so far.

#### W of Silesjavrrre.

Several iron-sulphide-horizons with minor chalcopyrite were found. Two horizons (28 and 29/EK-76) were sampled by a Homelite-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 gave:

0.18% Ni in 28/EK

0.58% Cu in 28/EK

The best analyzes in the hand specimens gave:

1.10% Cu in 43/MP

1.26% Cu in 56/MP

Dabmutjavrit

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 104.50 ms in 1976.

Biilačarot,

inside Dabmutjavrit-grid. See report 413/76/17. Two sulphide-rich horizons (20 and 34/EK-76) were sampled by a portable Homelite-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 Biilačarot. 4.2% Zn, 0.93% Pb and 1.0% Cu in the hand specimens from the local blocks, 16/EK-76, were found in the geochemically anomalous areas. Detailed surveyed and drilled 5 holes, totalling 220.1 m. See report 412/76/17.

Suolojavrre,

3.9% Zn, 0.29% Pb in a hand specimen from a block, 31/MP-76, was found in a geochemically anomalous area. Detailed surveyed in 1976. See report 409/76/17.

Gærbmasoaivve

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 surveyed in 1976. See report 410/76/17.

Between Salgganjavrre and Javrehuosjavrre

The prospecting over the geophysical and geochemical anomalies in till turned out lots of mineralized blocks and some outcrops (186-187/KT-76) of almost massive iron sulphides with minor cpy.

Javrehuosjokka-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 surveyed in 1976. See report 408/76/17.

Unna Vuovdas

About 1% Cu in several blocks (26, 150b, 162/KT-76) and 0.88% Cu in a sample from an exposure were found in the geochemically and geophysically anomalous areas. Detailed surveyed and drilled 4 holes, totalling 173 ms in 1976. See report 407/76/17.



Havggajavrre

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.

Gaččanjavrre,

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

E of Masi

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

Likča-area,

5 kms W of Sodnajavrre. Prospecting on NGU's stream sediment and geophysical anomalies. The geochemical anomalies are located in fractured zones on rocky hills. Some weak iron-sulphide mineralization 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 are from an economical pint of view.

Merovarre - Mieronvarre,

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 Mieronvarre. The area is well covered by moraine.

Mielgasjavrre,

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 an up-ice-direction from Gassemaras, where also lots of copper-rich blocks have been found by NGU.

The blocks at Mielgasjavrre 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 also can find in the blocks at Mielgasjavrre, but without chalcopyrite.

The amount of copper-contained in the blocks at Mielgasjavrre did not seem very interesting from an economic point of view, especially because the area seems to be inside Sydvaranger's detailed grid.

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

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 run 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 Salgganjokka, Javrehuosjokka- and Ingajokka drilling from 1975 (Reports 362, 363, 364, 365/75/17), which were not analysed yet, were split and analysed in Kristiansand for Cu and Zn, some also for Co and Au. The results were not impressive, but enclosed anyway.

Recommendations for summerseason 1977. (by Kalle Taipale)

1. Geological mapping.

The Suolojavrrre grid should be extended northwards to see the relations between acid plutonic rocks (syenite) and surrounding schists.



This needs about 1-1.5 km extension 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. Extension 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-, An 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 valley 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 interesting places. This kind of place is about 3000N - 400E, 4200N-400E - line and areas E of it to the lake Storra Suolojavrre. This would show whether the boulders found at the shoreline are brought by the ice from the bottom of lake Storra Suolojavrre or not. This group of boulders contained a block with 3.9% Zn and 0.29% Cu and chalcopryrite 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 Suolojavrrre 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 poor 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 Suolojavrrre 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 investigations.

Shoot-back work at the Suolojavrrre grid is recommended between 3000N and 4500N-profiles. These measurements should be extended on the lake Stuurra Suolojavrrre 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

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



**NY 61-15714**

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ANSWER: 174.00

10. Refer to the attached  
list of the CP and KKK who  
to last seen at the meeting of  
the group which happened during  
the summer of 1968. It was  
during this time that

**IDENTIFICATION AREA**

7-10-68  
The above information was obtained from the file maintained by the FBI at New York City.  
The information was obtained from the file maintained by the FBI at New York City.

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the situation.

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 1, 1861. It is a copy of the original letter, and is signed by Abraham Lincoln.

**DATE OF SOAIVE #11:**

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1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific information required.

LAUT: VOS JONKA-REMI

[illegible]

1. The first step is to identify the problem or question that needs to be answered.

1974-1975-1976

The title of the report is "The  
 Effect of the Federal Reserve  
 System on the Money Market  
 in the United States"  
 by the Federal Reserve Board  
 of Governors  
 Washington, D. C.  
 1913

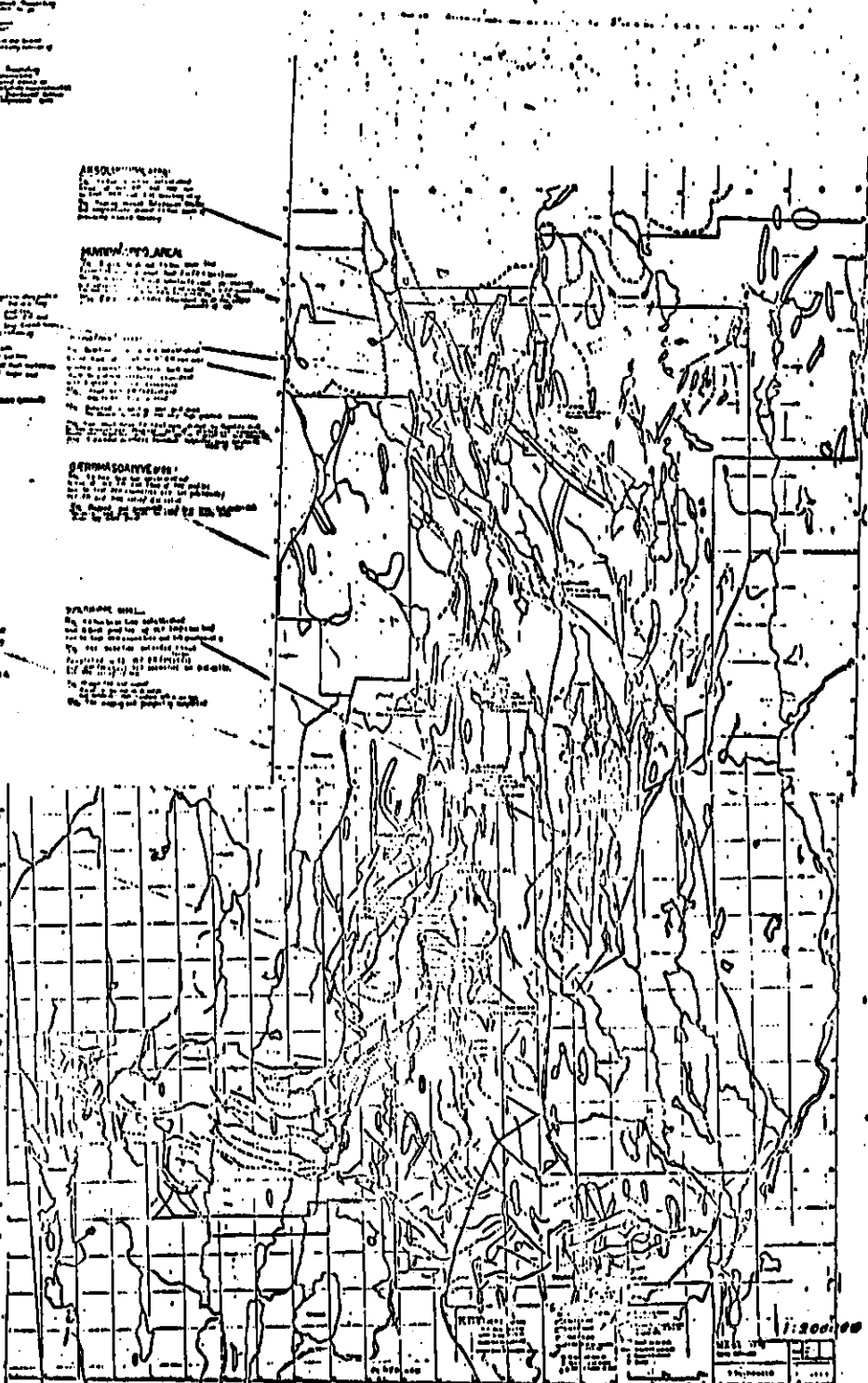
1. The first step is to identify the problem or goal. This involves understanding the current situation and what needs to be achieved.

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The above information was obtained from a review of the files of the FBI, New York Office, and the files of the FBI, New York Office, and the files of the FBI, New York Office.

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1:20:00



ADDITIONAL ACTIVITY.

GESSEAMARAS area:

7/76: Between Kautokino and Bidjavage mine. Drilled in 1971. Additional prospecting in up-ice direction to determine source of boulder train gave no additional targets.

MIRON area:

7/76: Just south of this map sheet. Prospecting revealed only graphitic schists rich in po.

GACCANJAVRRE area:

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

LIKKA area:

7/76: 5 km W of Sodnajarve. 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.

AKSOLUOBBA area:

7/76: 1.0 km baseline established 6 line-kms of VLF-EM and MAG run to test HEM and till geochemistry. 9/76: Mapping showed talconide schists and conglomerate present 1.5 kms south of previously mapped boundary.

MUVRACORRO 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:

7/76: Found sphalerite and galena along joints in volcanics. Laid out a grid, 500 m long base line and 300 m long profiles, which were measured by shoot-back-EM and VLF (3.9 line-kms). A 5 ms 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.

RUVAČOKKA area:

9/76: Base line and grid established 6 line kms of shoot-back EM run over geochem. anomalies between 600N and 1800N. Very strong conductor coincident with highest geochem. anomalies. 4/76: Shoot-back-EM (3.8 kms) and MAG (6.8 kms) completed. 6/76: Detailed prospecting over grid area. No obvious source for the very high geochem. anomalies. 8/76: Two short holes (1.2 m) were drilled by Homelite-drill on two mineralized showings out of geochemical anomalies. Many iron sulphides with minor cpy in graphitic acid volcanics. 10/76: 7 diamond drillholes. Abundant sulphides, some sphalerite, trace of cpy.

GÆRBMASOAJVVE 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. 7/76: Mapped and prospected. A few iron-sulphide-rich horizons and iron-limonite-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.

SULOJAVRRE area:

3/76: 4.2 kms base line established and 2 first profiles of VLF-EM (1.4 line kms) run to test HEM anomalies and till geochemistry.

4/76: The base-line extended 1.4 kms longer. Completed with VLF-EM (4.4 kms) and MAG (4.4 kms). VLF-anomalies are distinctive, but MAG relief is low.

7/76: Prospected and mapped. Found banded iron-formation and sulphide-rich horizons with minor cpy. 8/76: The mapping and prospecting completed.

UNNA VUOVDA area:

7/76: 3.4 km of shoot-back EM over till geochem. Detailed mapping and prospecting. Anomalies. 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, 0.13% Ni. Collected 364 till-samples.

8/76: Mapping and prospecting completed. A trench of 4 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. Trace of cpy.

HAVGGA JAVRRE area

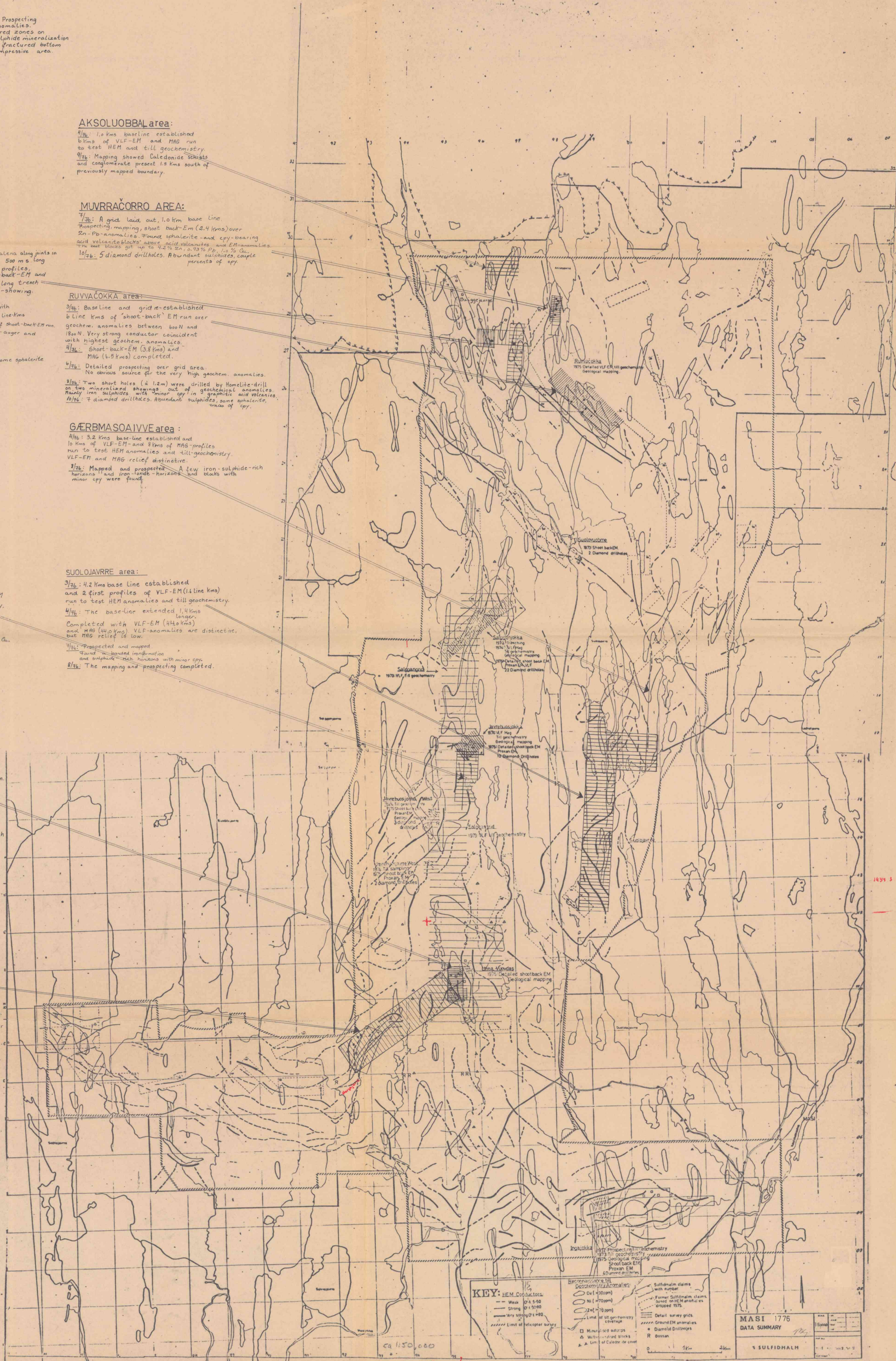
3/76: 3.5 km baseline established with profiles spaced 100 m apart. Completed with VLF-EM, which located HEM anomalies. Half covered with mag. -very low mag. relief.

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 pp/po.

8/76: Mapping and prospecting completed. Till sample results received. Best values: 1930 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.



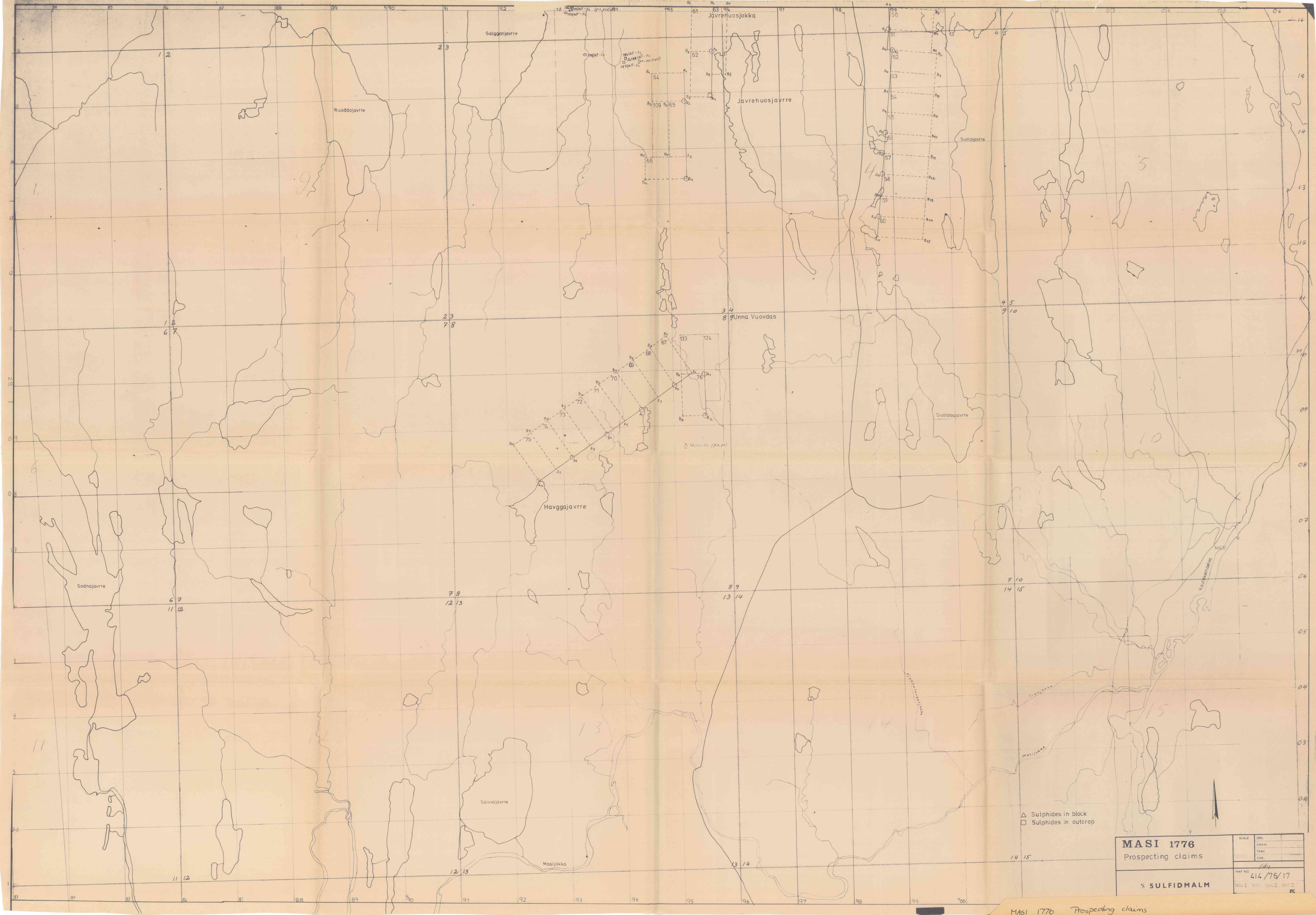
**KEY:** HEM Conductors: Weak (1-5-50), Strong (1-5-500), Very strong (1-5-5000). Limit of helicopter survey. Mineralised outcrops. Weathered blocks. Limit of Caldera de cone. Sulfidhalm claims with number. Former Sulfidhalm claims. Detail survey grids. Ground EM anomalies. Diamond Distances. Dossan.

**MA SI 1776 DATA SUMMARY**

Area	Line-kms	Profiles	Drill-holes	Notes
GESSEAMARAS	1.0	6	0	
MIRON	0	0	0	
GACCANJAVRRE	0	0	0	
LIKKA	0	0	0	
E of MASI	0	0	0	
AKSOLUOBBA	6	2	0	
MUVRACORRO	2.4	1	5	
DABMUTJAVRIT	13.1	1	3	
RUVAČOKKA	6	2	7	
GÆRBMASOAJVVE	10	2	0	
JAVREHUOSJOKKA	1.8	3	0	
SULOJAVRRE	4.4	2	0	
UNNA VUOVDA	3.4	2	4	
HAVGGA JAVRRE	8.4	1	0	

1931 1932 1933 4





△ Sulphides in block  
□ Sulphides in outcrop

<b>MASI 1776</b>	
Prospecting claims	
SCALE	1:50,000
DATE	1976
TRAC	
CHK	
MAP NO. 414/76/17	
SULFIDMÄLM	

MASI 1776 Prospecting claims





△ Sulphide-bearing block  
□ Sulphide-bearing outcrop

NORD

<b>MA SI 1776</b>	
Prospecting, Claims	
SULFIDMALM	
SCALE 1:2000	DBL DRAW. TRAC. CHK.
MAP NO. 414/76/17	
MAP SHEET 81-2 91-2	

MA SI 1776 Prospecting claims