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Rapportarkivet

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Tittel

Detaljgeologisk kartlegging Sagmo- Furuhaugen.

Forfatter

PATON G.

Dato

1973

Bedrift

Sulitjelma Gruber A/S

Kommune

Fylke

Bergdistrikt

1: 50 000 kartblad

1: 250 000 kartblad

Fagområde

Dokument type

Forekomster

Råstofftype

Emneord

Sammendrag

Blotninger mellom Sagmo og Furuhaugen er kartlagt, M= 1:10 000. Kort skildring av de litologiske enhetene og strukturgeologien. Ingen malmsoner pavist og ingen rustsoner vest for Villum-elva.

REPORT ON GEOLOGICAL OUTCROP MAPPING - SOUTH OF LANGVANN
FURUHAUGEN & SAGMOEN.

Graeme J Paton

Summer 1973.

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INTRODUCTION

Mapping was carried out in the Sagmoen and Furuhaugen areas, South of Langvann. The mapping was done to a scale of 1:10000 on maps photogrammetrically produced from aerial photographs at a scale of aa. 1:7000

Maps used - EG 2I3 (50973)
EH2I2 (50968) EH 2I3 (50972)

Aerial photos. used - Series 3I0 E30 E3I
Series 4I5 C23
D27 D29 D32

Outcrop mapping using the GEOMAP technique was carried out during the months of July and August 1973 with the assistance of Øivind Berg. Lodging was in the hybelhuset at Grønli and at Sagmoen.

PETROGRAPHY

There are four distinct lithological groups :-

Lapphelleren Schist
Furulund Granite
Sulitjelma Amphibolite
Furulund Schist

- 1) Furulund Schist Mica schist varying in composition from a quartz-muscovite schist to a qtz.-musc.-biotite -amphibole -garnet schist with the latter generally in the upper regions near the contact with the greenstone.
- 2) Sulitjelma Amphibolite This consists of greenstone containing amphibole (hornblende) + qtz. + felspar + mica + garnet. It varies in texture usually being brecciated but sometimes being massive

massive or weakly schistose. The latter is much more amphibole rich than the former.

3) Furulund Granite

A fairly massive, medium grained gneiss with granitic composition. It has a moderately strong foliation of mica, and "eyes" of felsic material.

4) Lapphelleren Schist

A quartz rich mica schist. Moderately schistose. It generally tends to have a rusty weathered surface.

STRUCTURE

The lithologies above lie conformably on top of each other, with an overall dip of about 20° , and a strike of 100° around Furuhaugen swinging gradually round to 200° at Sagmoen. The dip tends to increase moving out of the Furuhaugen area to the East & West reaching a maximum of about 40° .

The Furulund Granite occurs at different levels in the succession in different areas :-

around Sagmoen - cuts through the Lapphelleren Schist,
around Furuhaugen - cuts between the Lapp. Sch. & the greenstone,
West of Furuhaugen - cuts through the greenstone,
towards Coris - cuts between the greenstone and the Lapp. Sch.

ORE

Pyrite ~~appears~~ $\pm$ -chalcopyrite appears, in Furuhaugen, near the top of the Furulund Schist and in the greenstone breccia. The rock in which it occurs is chloritised and/or sericitised. Moving East towards Sagmoen, the ore and rust associated with it soon die out in the schists. A band of strong oxidation and chloritisation containing very small amounts of pyrite persists at the bottom of the greenstone breccia round to Sagmoen.

Moving West, pyrite and rusting have died out by Villum Elv both in the schist and breccia. No rusting at all has been seen West of Villum Elv.

SUMMARY

The mapping revealed no significant amounts of ore other than those which had been previously mined. It became obvious that there was no ore or even rusting West of Villum Elv and it is considered that this condition would continue round to Coris, and most likely further.

LEGEND



Lapphelleren Schist



Furulund Granite



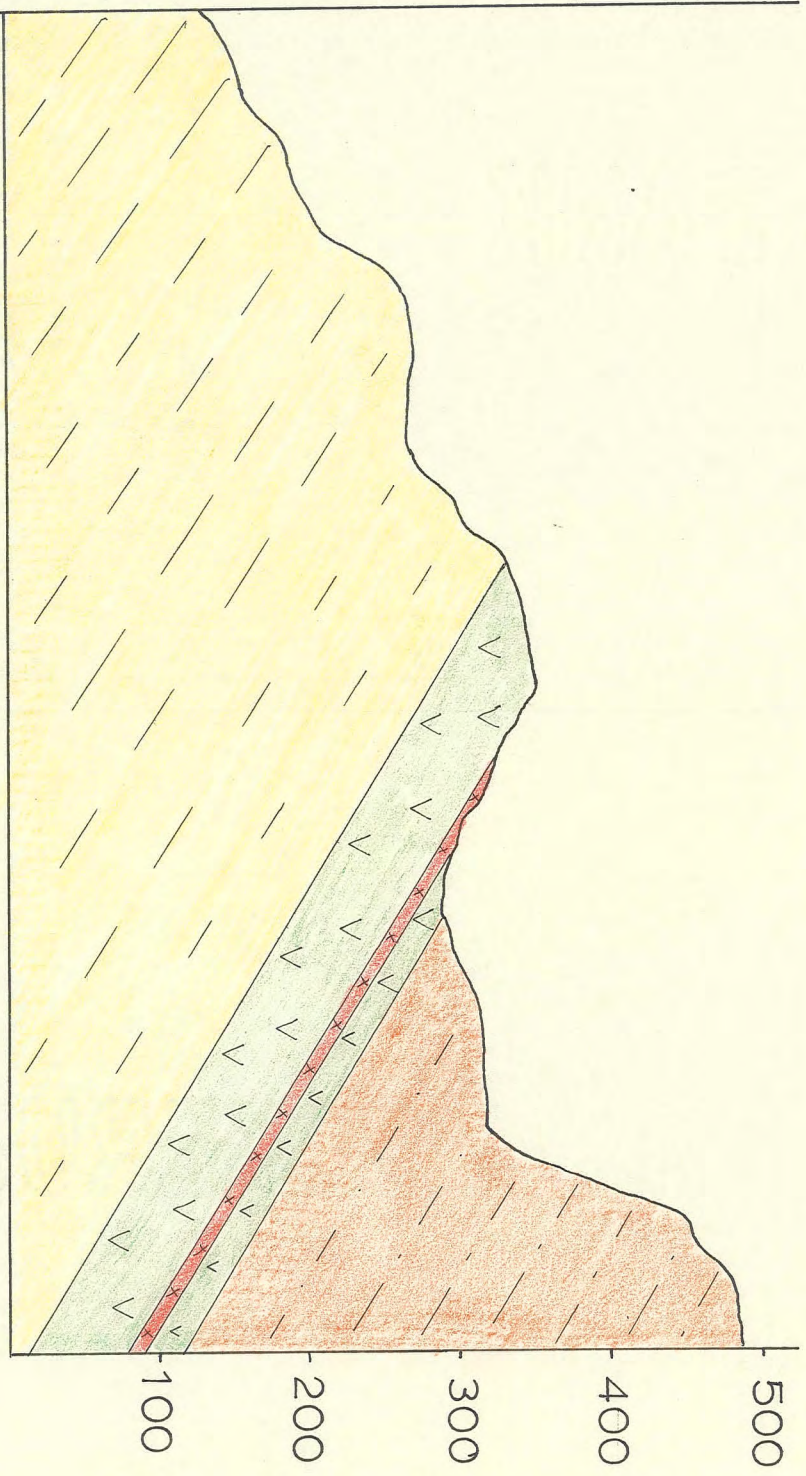
Sulitjelma Amphibolite

} (chloritised)

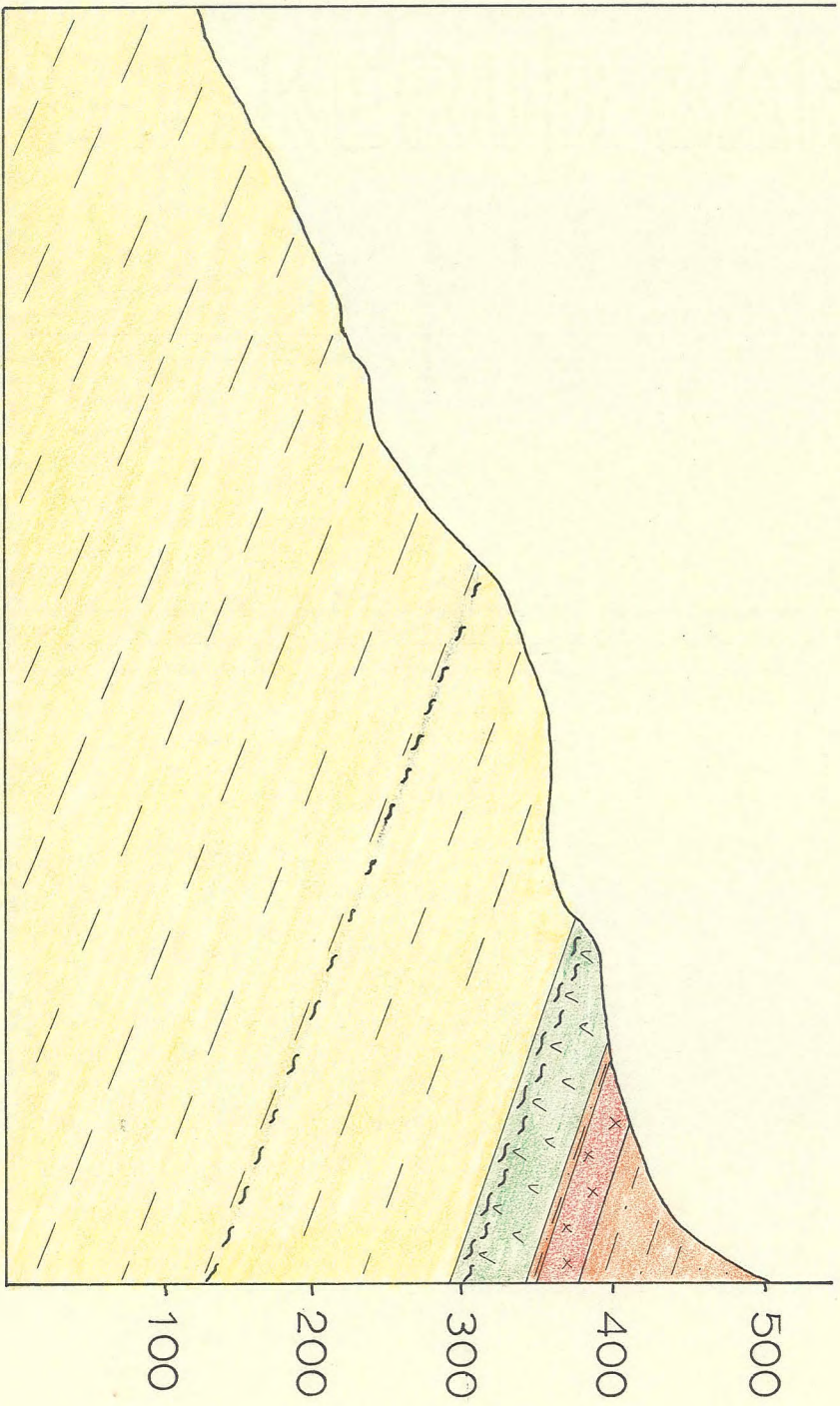


Furulund Schist

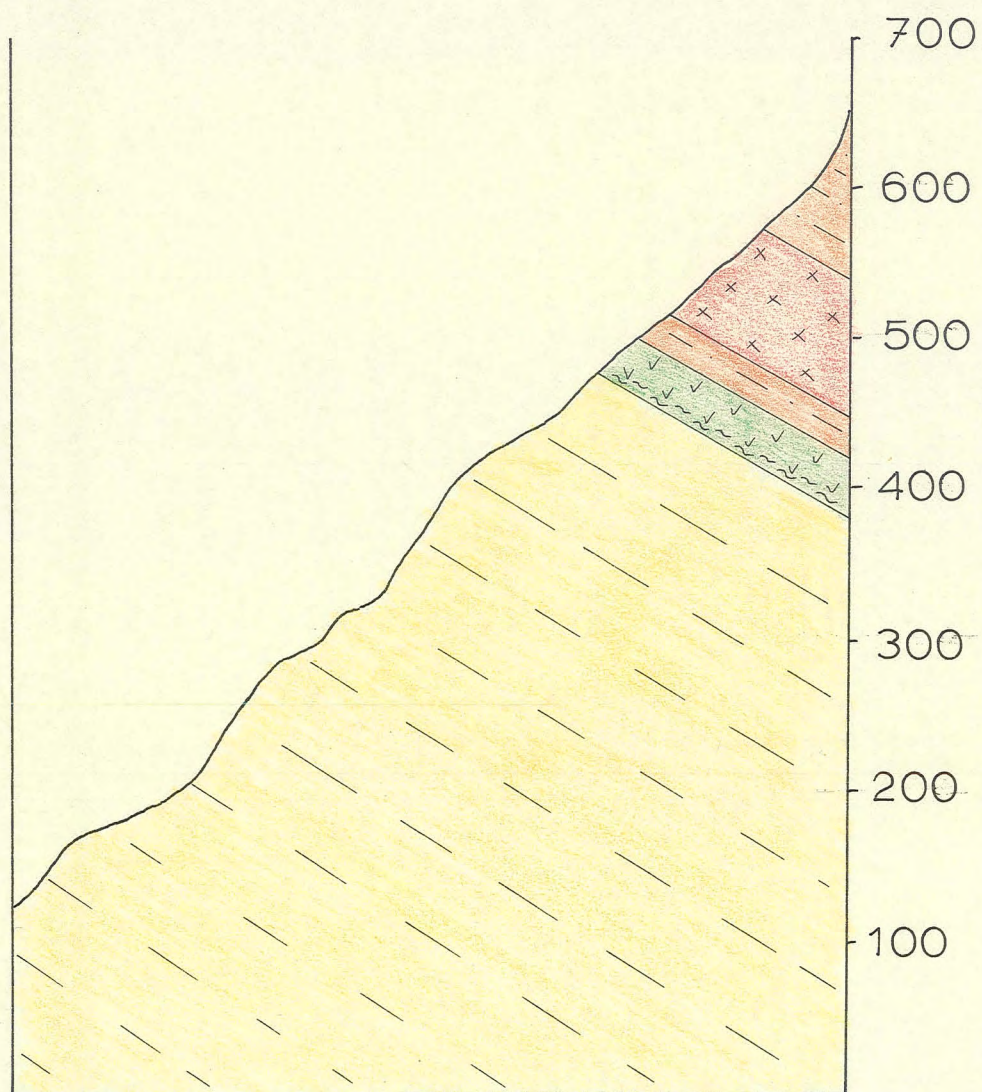
PROFILE 1



PROFILE 2



PROFILE 3



509608

y-38000

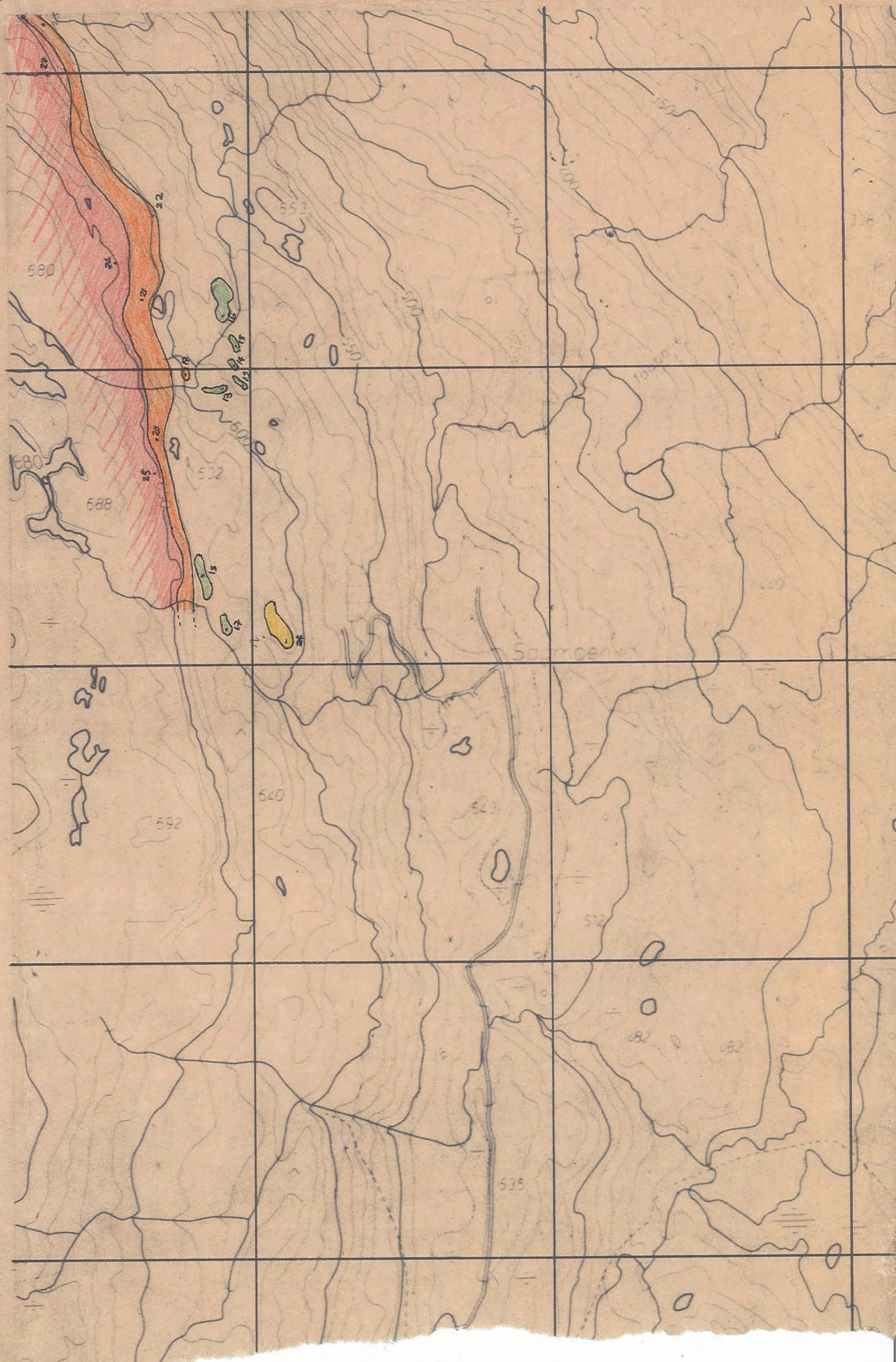
γ-37 000

Y-38400

 $\times 10^{17} \text{ 600}$

x. 1017 000

x 1016 000



EH 213

X1017 600
X1017 600

EH 212

1017 000

000 000

