



Bergvesenet

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Rapportarkivet

Bergvesenet rapport nr BV 1618	Intern Journal nr 367/75 VB	Internt arkiv nr	Rapport lokalisering Trondheim	Gradering
Kommer fra ..arkiv	Ekstern rapport nr Sydv 852	Oversendt fra	Fortrolig pga	Fortrolig fra dato:
Tittel Geologisk kartlegging av Feøy-Gruppen, N-Rogaland				
Forfatter Berthod, Charles - H. Mørk, Kristen		Dato 09.09 1975	Bedrift Sydvaranger A/S	
Kommune Karmøy	Fylke Rogaland	Bergdistrikt Vestlandske	1: 50 000 kartblad 11131	1: 250 000 kartblad
Fagområde Geologi	Dokument type		Forekomster Feøy	
Råstofftype	Emneord			
Sammendrag				

INTERN RAPPORT.

DATO: 1975-09-09

RAPPORT NR: 852

KARTBLAD

Antall sider

— " — bilag

SAKSBEARBEIDER Charles-H. Berthod & Kristen Mørk

RAPPORT VEDPØRENDE:

GEOLOGISK KARTLEGGING AV FEØY-GRUPPEN,
N-ROGALAND

RESYMÉ:

Denne rapport, som i hovedsak er en forklaring til det medfølgende geologiske kartet (M = 1:5000) inneholder en kort beskrivelse av hoved-bergartstypene på Feøy-gruppen, samt deres strukturelle forhold.

En liste over bergartsprøver som er innsamlet, er også tatt med.

FORDELING

OSLO:

- ☒ X Prospekteringsavd.
- ☒ X Professor Bugge
- ☒ X Industridep.
- ☐
- ☐
- ☐
- ☐
- ☐

KIRKENES:

- ☒ X Dir. Smith-Meyer
- ☐
- ☐
- ☐
- ☐
- ☐
- ☐

ANDRE:

- ☒ X Vigsnes Kobberverk
- ☒ X Bergmesteren i Vest-
- landske Bergdistrikt
- ☐
- ☐
- ☐
- ☐

KOMMENTAR:

En sveitsisk geologi-student, herr Charles-H. Berthod, var engasjert av Aktieselskabet Sydvaranger sommeren 1975, bl. a. for å foreta en geologisk kartlegging av Feøy-gruppens bergarter. Hans oppgave var å utarbeide et geologisk kart i M = 1:5000 (basis: flyfotoforstørrelse), samt gi en kort beskrivelse av bergartene (mesoskopisk) og samle inn karakteristiske prøver av de forskjellige bergartstypene.

Herr Berthod har gitt følgende beskrivelse til det geologiske kartet:

GEOLOGICAL MAP OF FEØY.

The area was mapped during the period from 1975-08-04 to 1975-08-22.

The rocks have not been examined in thin section, the investigation was carried out on a macroscopic scale.

The islands to the north - Kvaløy and Ulvøy - are mainly composed of gabbroic rocks and greenstones. Fine grained and coarser grained gabbros are particularly abundant at Kvaløy. In two areas at the north of Kvaløy, the gabbro has been altered.

Rocks which are mapped as "gabbro, fine grained" consist in some places of a layered sequence or a composite vein system. For instance, near the shop at Feøy, the following sequence has been observed (from S to N): altered gabbro, microgabbro, greenstone, granodiorite, greenstone, diorite and microgabbro. Each "vein" vary in thickness from 20 cm to 1 m.

At Feøy, Ulvøy and Kvaløy the term "greenstone" has been used, which include varieties like: very dark and ultra fine gabbro, a more typical greenstone (but varying

somewhat in colour, and with varying chlorite content) and greenschist (at Ulvøy).

At the S of Feøy, and particularly at Sørøy, quartzitic schists (more or less sericitic) are abundant.

All these rocks are cut by a variety of dykes: basic, chloritic, acid and granodioritic in composition.

The old Feøy Ni-mine is situated on the north end of Feøy. Here, pyrrhotite and chalcopyrite occur in basic aplitic dykes.

At the east of Ulvøy, quartz-veins containing tourmaline have been observed.

In areas with fine grained gabbro, coarse grained gabbro, greenstones and greenschists, lense-shaped bodies of one of these rocks are often found included in the others (particularly at Trulsholmen).

The general strike for the foliation of the gabbro-greenstone system varies from N 15 W to N 60 W and the dip from 40° to 80° NE.

At the south of Feøy there occur an intrusive complex, with a porphyritic rock (amphibole phenocrysts in a fine grained, green to yellow-green matrix) in the centre, and an outer zone of rocks of assumed ultrabasic composition (dark, fine grained, heavy rocks, sometimes with phenocrysts of plagioclase). This ring complex correspond to a "total field" magnetic anomaly (TERRATEST, 1970).

Three major fault lines have been recognized:

- A. One running NNW-SSE to the west of Sørøy and Feøy.
- B. One running NW-SE between Feøy-Ulvøy to the south and Kalven-Kvaløy to the north (Kvalsundet).
- C. One running N-S between Feøy-Sørøy and Ulvøy.

The islands Kalven and Kvaløy are probably also separated by a fault, but this could be a continuation of fault C.

Joints running N-S are a common feature on the islands.

Charles-H. Berthod.

LISTE OVER INNSAMLEDE BERGARTSPRØVER.

Funnpunktene er merket på kartet.. Prøvene er merket etter følgende kode:

Eks.:
 881
 dag måned prøve nr.

- 781:
- 782: gabbroic schist
- 783: ultramafic rock with dark plagioclase
- 784: porphyritic rock with phenocrysts of amphibole
- 785: schist

- 881: basic aplite with mineralization
- 882: microgabbro
- 883: tourmaline
- 884: acid aplite with biotite
- 885: light greenschist, sericitic
- 886: greenstone

- 981: = 882
- 982: coarse grained gabbro
- 983: " " " , altered
- 984: gabbroic aplite and chlorite schist with pyrite
- 985: gabbro dyke with phenocrysts of green plagioclase
- 986-1: = 982
- 986-2: = 881

- 1181-1: acid rock (granite?)
- 1181-2: basic, chlorite dyke
- 1182: = 882 microgabbro
- 1183: chloritic quartz schist
- 1184: chloritic schist (with green mineral)
- 1185: gabbroic dyke
- 1186: quartzitic dyke

1281-1: aplitic dyke (= 1283-1)
1281-2: ultramafic rock (lense)
1282: greenstone (lense)
1283-1: aplitic dyke
1284: = 785

1481: diorite?
1482: greenstone (= 1483)
1483: "
1484: microgabbro
1485: "
1486: dioritic dyke
1487-1: greenstone
1487-2: microgabbro

2181: greenstone
2182: microgabbro with min.
2183: coarse grained gabbro

FEÖY GRUBEFELT.

