

Bergvesenet Postboks 3021, 7002 Trondheim

Rapportarkivet

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Bergvesenet rapport nr BV 2271	intern Journal nr	urnal nr Internt arkiv nr Rapport lokalisering		Rapport lokalisering	Gradering Fortrolig	
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^{ttel} Rapport Evenesda	ıl - Vassbotnfjel	11.				
orfatter DOWNES M J.		D	1967	Bedrift Sulitjelma Gruber A/S		
ommune	Fylke	Bergdistrikt		1: 50 000 kartblad	1: 250 000 kartblad	
ag o mråde	Dokument to	уре	Forekom	ster		
tåstofftype	Emneord					
orskjellige bergarten	e. I sorvest er om ger. To mineralise	radet til dels eringer er ski	s <mark>te</mark> rkt i n t Idra kort,	og Vassbotnfjell. Skil- rudert av granittisk m Siriheim og Ruaflaag kkebeskrivelser.	aterial <mark>e, fra aplittis</mark> k	

Report and Appendix for 1:50 000 Geological Map

1:25 000 Sections

1:50 000 Tectonics maps

Introduction

The topography of the area is strongly controlled by the lithology and structure of the rocks in the north east and far west but covering the central and south eastern areas are extensive fluvioglacial deposits of sands and gravels. The major rock group divisions used have been according to pre-existing divisions of basement, Sjønsta, Furulund and calc.-mica schists.

The central and western areas are structurally complex, whereas in the extreme west and north east it is clear.

The report consists of a description of the rock types and a discussion of the structure, according to the general succession.

- H) Amphitolites
- G) Mica and graphitic Schists
- F) Calc.-mica Schists
- E) Furulund
- D) Sjønstå
- C) Pieske Marble Group
- B) Sparagnite
- A) Basement Granite

A) Basement Granite

This is structurally the lowest group and is brought up in the extreme east of the area. It consists of Quartz feldspar (crystals up to 0.5 cm) with blebs of biotite.

B) Sparagmite

This overlies the basement granite and is of considerable lateral variation in composition from finely banded pale quartzites to quartzoze mica schists and occassional calciforous bands. This grades upwards into a mica schist.

dhoan starble Group

Marble (Pieske)Intercalated with the marble are many mics sohist bands of the type
which underlie it. Indeed its overall appearance is a dirty pale
brown and is impure throughout in this area.

Graphitic Sohists
These vary lateralles in graphitic content sapesially in the north
and generally consist of large graphiterich lenses in mice schists.

Amphibolite
This is a rather frishle amphibolite micsocous in parts and tends to
be very thin.

Slenaté group
This unit was distinguished from the overlying Furulund group by the
latter consisting of biotite schists both calcic and quartzoze in the
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Amphibolite unit and samphibolite, in the east amphibole orystels about 0.5 cas and containg feldapar.

Eraphite content as follows

Upper Furulund Mixture of graphitic schists and mios schists.
Lower Furulund Calc. mics schists with hornblende.

Lower

This consists of biotite rich schists with hornblende in parts, with a variation from calcite rich to quartz rich.

The amphiboles generally only show up on weathered surfaces. Both the lower and upper Furulund are well laminated schists but not as slatey as the Sulitjelma sequence. In parts they are garnetiferous. Within this and the upper part are amphibolite bands often of no great thickness. There is a thick coarse grained amphibolite containing feldspar which forms the steep slope of Rauflaaget and which underlies the ore zone in those parts.

Upper

The lower junction of the upper Furulund was taken as the first appearence of graphite. This unit consists of a mixture of graphitic muscovite schists and calc. mica schists. Therefore at the upper limit of the upper Furulund where there is great complexity in the folds it is difficult to place a certain boundary with the calc. biotite sequence which lies above it.

F) Calciferous mica schists

The mica in this sequence is predominantly biotite and could therefore be called the calciferous biotite schists. I have however adopted the name used by Steenken in the area to the south west. Often associated with these schists though not characteristic are small kyanite crystals about 1 cm long and a green calc. silicate mineral. Often the calcite content is high enough to give the overall rock a saccharoidal texture with poorly developed schistosity, though the latter is more probably due to the intense isoclinal folding. In the east of this succession is a marble band which is uniform in its strike from north to south and is of almost vertical dip. In the north it is above 8 metres in width and thins southward. In parts it contains trenolite.

G) Mica and Graphitic Schists

The calc. mica scrists to the east are garnet free whereas this group is commonly garnetiferous with garnets up to 1.5 cms diameter. Graphite rich bands often reach 4 to 5 meters. This succession is again steeply dipping within 10° of vertical and contains many isochially folded quartz and calcite bands, well crenulated schistosity, and tension gashes containing quartz muscovite and large kyanite crystals.

H) Amphibolites

These are mainly very hornblende rich mica schists grading to amphibolites in the most western parts.

Other rock units

In the west and south of the area are many injections of granitic material. The various types are discussed below.

Thin quartz-feldspar injections

These are thin veins of quartz and feldspar with a little mica in parts. They are commonly only of a few cms width and have an approximately morth south strike and a steep dip. They are locally strongly folded in isoclinal folds and in parts fold hinges have been tectonically seperated as eye shaped blebs. They are often associated with kink bands especially in the mica and graphitic schist group.

Aplitic veins

These are fine grained with quartz feldspar and some biotite, and have a similar orientation and relationship to the general trend of schistosity as the quartz-feldspathic veins. They sometimes reach 5 metres in width as lens shaped bodies and may also become medium grained.

Pegmatitic veins

Again these have an approximately north south strike and steep dip to both the east and west. They contain large feldspars up to several cms across and sometimes consist almost entirely of feldspar. There is also tourmaline and muscovite. They vary in width but are generally about 1 metre. They are common in the calciferous mica schist sequence.

Granite Gneisses

These occur in the U. Furulund and one of which may be the Furulund gneiss as they are stratigraphically in the correct position. They are medium grained and contain quartz feldspar muscovite and biotite. They are concordant but lens out.

Ore Zones

No appreciable quantities of pyrite have been found in the Furulund which would correspond with the Sulitjelma level. There are however two main ore bodies in the area, but neither of great concentration.

- 1. Near Siriheim locality 1790/2780.

 The wiath of the body exposed in old workings is about 2 metres and occurs in graphitic schists and kyanite schists of the mica schist
 - occurs in graphitic schists and kyanite schists of the mice schist sequence. These rocks contain pyrrhotite, pyrite and some chalco-pyrite.
- 2. Rauflaget locality in the region of 2120/2070.

 The form and content of this ore body have previously been described.

 Laterally this becomes a rusty muscovite schist which has been marked on the map as a dashed thick 'ore zone' line.

There are two other localities where minor consentrations of cre were present.

- J. In Kragelva locality 2205/2915.

 The position of this is at the top of the Sjønsta in the garnet mica schists. It contains mainly pyrrhotite but also a little chalcopyrite and pyrite.
- 4. In Sauelva locality 1/10/2560.

 This is in a graphitic schist in the mica and graphitic schists and contains pyrite with a little chalcopyrite.

Structure.

With reference to the sections and tectonics maps.

As previously stated the structure in the north east is clear.

There is a main antiform or gentle up-doming of the rock units exposing the basement granite gneiss.

To the north in the extreme north east in a second updoming with broad folds in the marble, the major fold axix being a south-west plunge. West of here a major antiform brings the steeply dipping Furulund from a north, south strike to a gently dipping east west strike. This most probably the same antiform seen on Satertind.

The major synform over Rauflaaget is a step like fold seen best on the cross-section. A major antiform to the north west brings steeply dipping rocks of north south strike north of Sørelva into a gently dipping NW-SE strike over Tverlia. To the west many minor folds bring the far Furulund round into a north-south strike concerdant with the rocks in the extreme west which are vertical.

The area in the south is difficult to correlate with the adjoining area in central parts due to a combination of complicated tectonics and very

poor exposures.

The gravel slopes of Storfjell seems likely to be a dip slope from the attitude of rocks seen in the streams which would suggest that the Furulund is brought over to the south side of Evenesdal by the antiform.

Samples.

Ore samples.

- A 1. Locality old workings near Siriheim. 1790/2780
 3 samples taken across the ore body.
 - (x) Pyrite pyrrhotite mainly ir the graphitic schist.
 - (y) Pyrite pyrrhotite and a little chalcopyrite in a graphitic schist.
 - (2) Pyrite and pyrrhotite in a kyanite schist with graphite. Stratigraphical position calc. mica schists.
- A 2. Locality Kraagdal 2205/2915

 Pyrrhotite and a little chalcopyrite in a mica schist.

 Stratigraphical position U. Sjønstå.
- A 3. Locality Sauelva 1710/2560

 Pyrite with a little chalcopyrite in a graphitic schist.
- F 1. Gneiss locality 2070/2750 possibly the Furulund gneiss.
- F 2. Mylorite or crush breccia associated with this gneiss.
- F 3. Upper Furuland graphitic mina schist. Locality 1950/2790
- F 4. Upper Furulund graphitic mica schist, well laminated.
 Locality 2180/2700
- F 5. Lower Furulund non graphitic, hornblendic mica schist.
 Locality northern slope of Storfjell.
- C 1. Cals mica schist containing principally biotite and some kyanite.

 Locality 1900/2470 Calc.mica schist group.

- M 1. Quarts kyanite bearing mica schist.

 Locality 1700/2560 Mica and graphitic schist group.
- M 2. Coarse grained feldspathic amphibolite. Locality 1950/2405 Evenesdal.
- B 1. Basement granite gneiss. Locality 2450/2820.
- B 2. Micaceous quartzite from the sparagmite.

 Locality 2450/2980.
- G 1. Granitic injection wein medium grained with a contact with a biotite schist.

 Galc. mica schist group. 1850/2650.

Key to Lithelogical Rock Units for 1:50 000 map.

Structurally highest beds at the top of the sequence.

	通用性性,不是种种的性质。	세계(제공항상 [12] 중에 [2]	
<u>Drift</u> - Sands and gravels		101/5	
Amphibolites - mixture of amphibolites (hornblendic) and hornblende schists Mica and graphitic schists Impure marble		101/9	
		101/2	
	mica schists with graphite rich bands	nitio sonists	999/59
		Trenolite mar- ble	101/2
Calciferous mic	os schists.		
	mica is predominantly biotite; poorly laminated schists; kyani- also present	te	101/6
Furulund			
U. Furulund -	mixture of graphite bearing mus- covite schists and calc.mica schists generally well laminated schists	hista	101/35
L. Furulund -	L. Furulund - mica schists predominantly biotite cal- cic and quarts rich in parts hornblende		101/9 101/26 101/9
Jeole	is also characteristic	ore some amphibolite	101/9 101/26
Sjenstå			
	schists and garnet gneisses - thick in the west thinning in the	amphibolite	101/9 999/59
Pieske Marble G	iroup		
Amphibolite			
Thin medium	grained amphibolite micaceous in	parts	999/180
Graphite schist			1
Graphitic and micaceous schists muscovite schists thinning southwards.		999/110 999/30	
Pieske Marble			
Pale and bro schist bands	own impure marble containing many	muscovite	101/2
Sparagnite		W. S. St. Barrier	
	parts a quartz mica schist pasts a pure quartzite, banded		999/25

Basement	
Granite gneiss a quartz feldspar biotite granite	999/70
Other rock units	
Gneisses of granitic composition occuring in the Furulund. Possibly the Furulund gneiss.	999/30
Rock units in south of doubtful correlation	
Biotite schists	999/30
Muscovite schists and mica schists + garnets	999/59
Garnet mica schists in the southcentral area	101/7

Key to lithological rock units for 1:50 000 map.

Structurally highest beds at the top of the sequence.

			7
Drift - sand	and gravels		101/5
Amphibolites -	mixture of amphabolites (hornblende schists.	nblendio) and	101/9
Mica and graph	nitio shists		404/0
	mica schists with graphite rich bands	Impure marble Mica and graphitic schists Tremolite marble	101/2 999/59 101/2
Calciferous mi	ea schists		
	mica is predominantly biotite laminated schists; kyanite al		101/6
Furulund			
U. Furulund -	mixture of graphite bearing and calc mica schists general laminated schists		101/35
L. Furulund -	mica schists predominantly be and quartz rich in parts. Hornblende is also characteri	istic.	101/9 101/26 101/9
		Ore zone Amphibolite	101/9
Sjønstå -	garnet mica schists and garne	et gneisses	
	- massive and thick in the we thinning in the east.	est Amphibolite	101/9 999/59
Pieske marble	group		-
Amphibolite -	thin medium grained amphibolin parts	ite, micaceous	999/180
Graphite schis	ts ts		
	Graphitic and micaceous subin		999/110 999/30
Pieske marble-	pale brown impure marble continuscovite schist bands.	taining many	101/2
Sparagmite	In the upper parts a quartz many in the lower parts a pure quarts		999/25

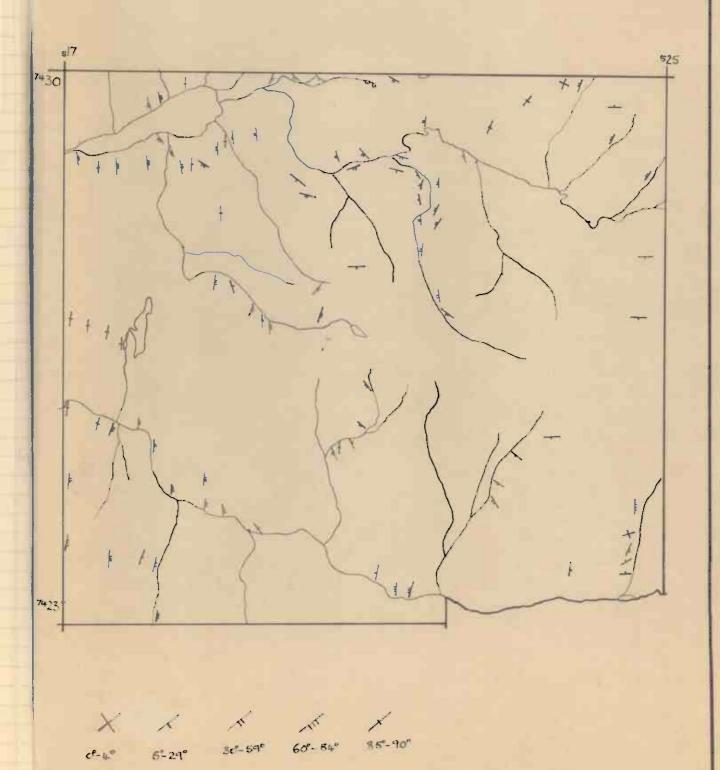
Basement		999/70
Granite gneiss	a quartz feldspar biotite granite	
Other rock units	Gneisses of graphitic composition occuring in the Furulund. Possibly the Furulund gneiss.	999/20
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	Muscovite schists and mica schists	999/59

Garnet mica schists in the south central

area.

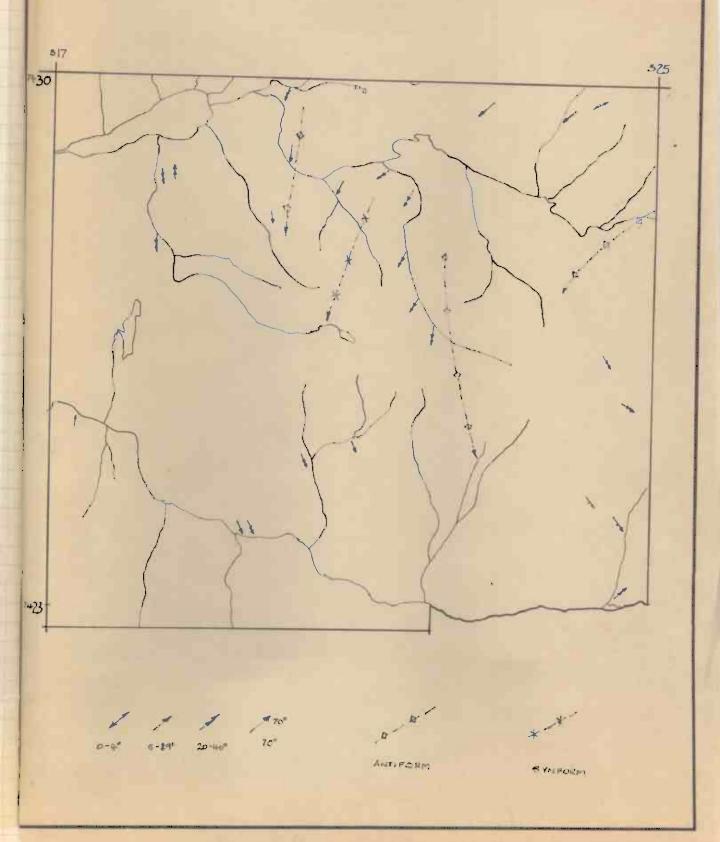
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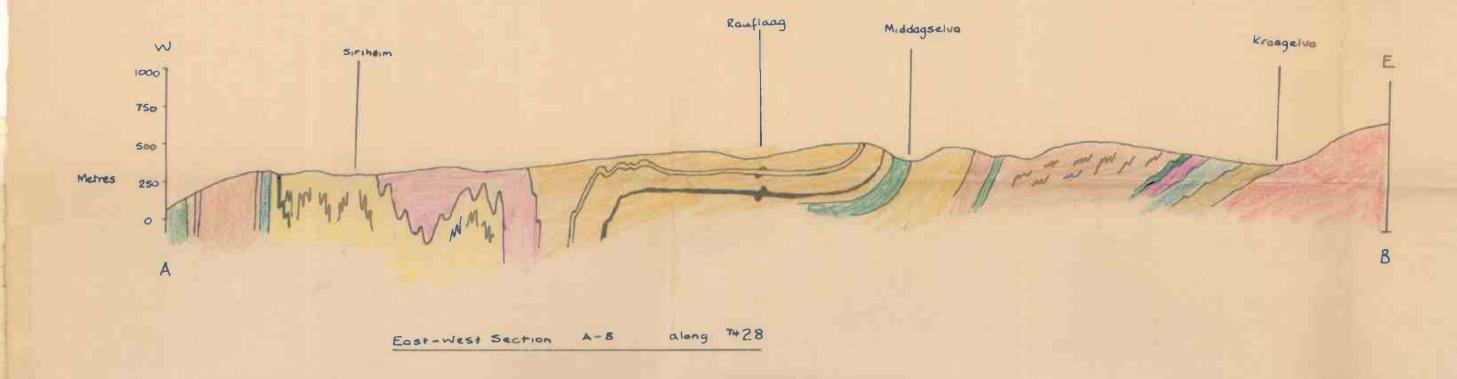
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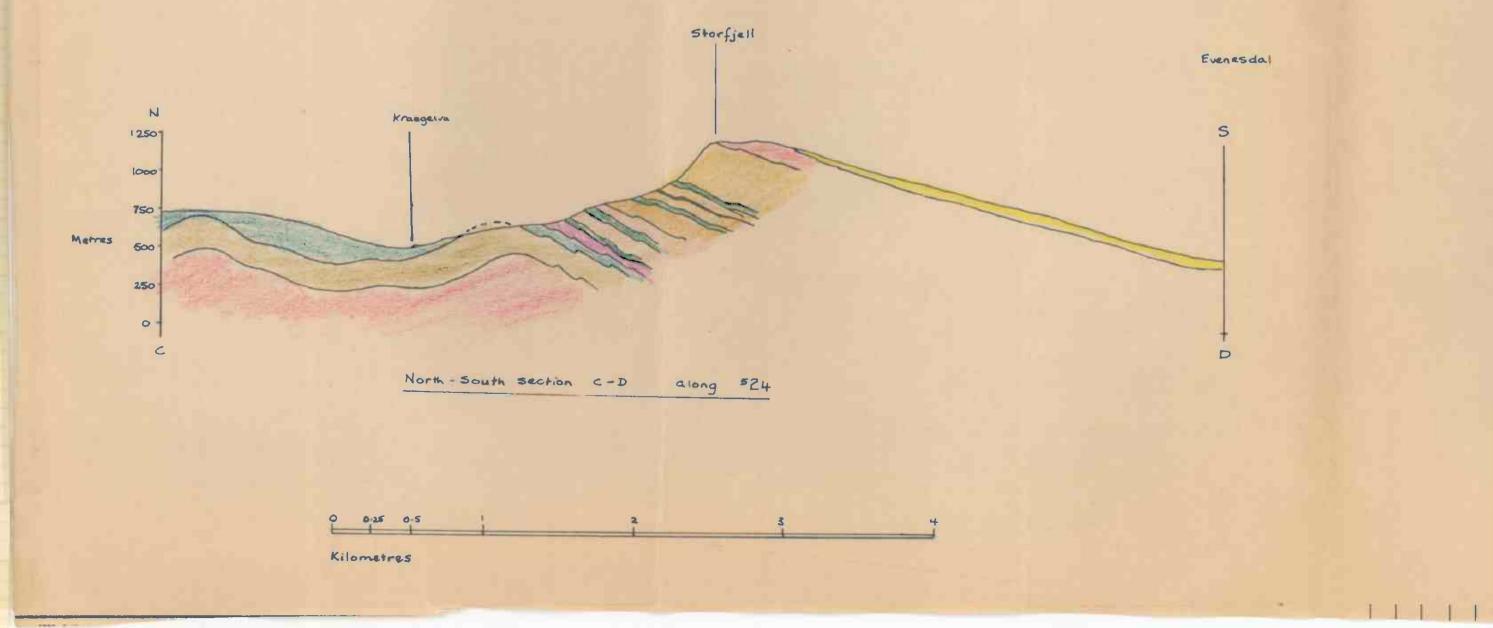


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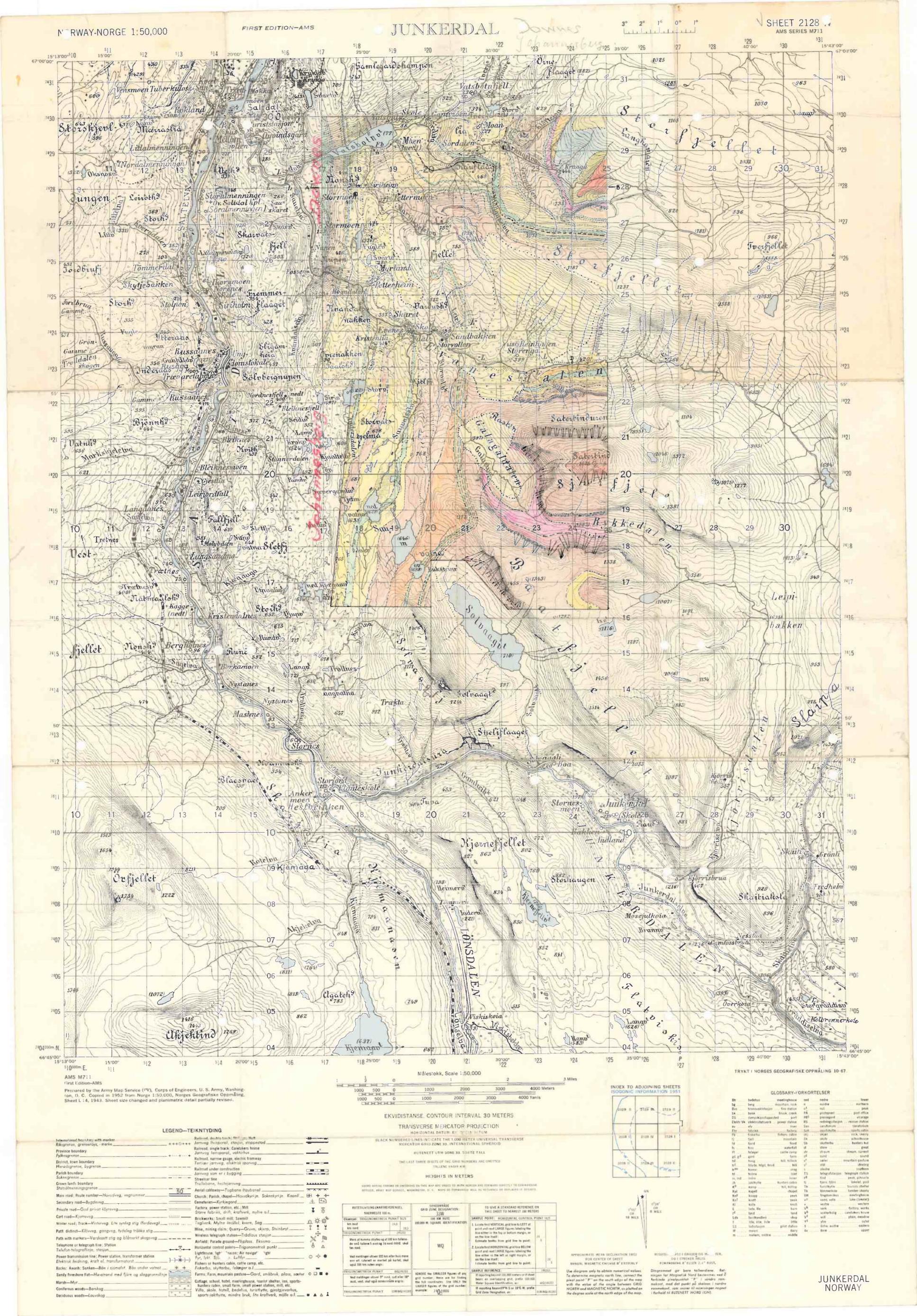
Scale 1: 50,000







Horizontal 1: 25,000	Målestokk	Trac.
Vertical 1: 25,000	Erstatning for	Kfr.
M. J. DOWNES		
	Erstattet av:	



M. J. Downes

Report and Appendix for 1:50 000 Geological Map

1:25 000 Sections

1:50 000 Tectonics maps

Introduction

The topography of the area is strongly controlled by the lithology and structure of the rocks in the north east and far west but covering the central and south eastern areas are extensive fluvioglacial deposits of sands and gravels. The major rock group divisions used, have been according to pre-existing divisions of basement, Sjønstå, Furulund and calc.-mica schists.

The central and western areas are structurally complex, whereas in the extreme west and north east it is clear.

The report consists of a description of the rock types and a discussion of the structure, according to the general succession.

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- C) Pieske Marble Group
- B) Sparagmite
- A) Basement Granite

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This overlies the basement granite and is of considerable lateral variation in composition from finely banded pale quartzites to quartzoze mica schists and occassional cakiferous bands. This grades upwards into a mica schist.

C) Pieske Marble Group

Marble (Pieske)

Intercalated with the marble are many mica schist bands of the type which underlie it. Indeed its overall appearance is a dirty pale brown and is impure throughout in this area.

Graphitic Schists

These vary lateralles in graphitic content espesially in the north and generally consist of large graphiterich lenses in mica schists.

Amphibolite

This is a rather friable amphibolite micaceous in parts and tends to be very thin.

D) Sjønstå group

This unit was distinguished from the overlying Furulund group by the latter consisting of biotite schists both calcic and quartzoze in the lower parts.

Garnetiferous Gneias

This consists of a mixture of garnet mica schists and quartzoze garnet mica schists. There is also variation laterally due probably to tectonic thickening. In the area of Kraagelva and to the north and south, in Kløftelva and Grøndalen the sequence is thick showing a high degree of crumpling and distortish of quartz bands on a small scale. Here the rock weathers as a massive rock type (almost granitic type). On the southern side of Storfjell the sequences thins considerable being here less contacted and is a quartzoze garnet mica schist.

Amphibolite unit

This is a coarse grained amphibolite, in the east amphibole crystals about 0.5 cms and containing feldspar.

E) Furulund Group

The schist sequence in the Furulund has been divided on the basis of graphite content as follows

Upper Furulund Mixture of graphitic schists and mica schists.

Lower Furulund Calc. mica schists with hornblende.

Lower

This consists of biotite rich schists with hornblende in parts, with a variation from calcite rich to quartz rich.

The amphiboles generally only show up on weathered surfaces. Both the lower and upper Furulund are well laminated schists but not as slatey as the Sulitjelma sequence. In parts they are garnetiferous. Within this and the upper part are amphibolite bands often of no great thickness. There is a thick coarse grained amphibolite containing feldspar which forms the steep slope of Rauflaaget and which underlies the ore zone in those parts.

Upper

The lower junction of the upper Furulund was taken as the first appearence of graphite. This unit consists of a mixture of graphitic muscovite schists and calc. mica schists. Therefore at the upper limit of the upper Furulund where there is great complexity in the folds it is difficult to place a certain boundary with the calc. biotite sequence which lies above it.

F) Calciferous mica schists

The mica in this sequence is predominantly biotite and could therefore be called the calciferous biotite schists. I have however adopted the name used by Steenken in the area to the south west. Often associated with these schists though not characteristic are small kyanite crystals about 1 cm long and a green calc. silicate mineral. Often the calcite content is high enough to give the overall rock a saccharoidal texture with poorly developed schistosity, though the latter is more probably due to the intense isoclinal folding. In the east of this succession is a marble band which is uniform in its strike from north to south and is of almost vertical dip. In the north it is above 8 metres in width and thins southward. In parts it contains trenolite.

G) Mica and Graphitic Schists

The calc. mica schists to the east are garnet free whereas this group is commonly garnetiferous with garnets up to 1.5 cms diameter. Graphite rich bands often reach 4 to 5 meters. This succession is again steeply dipping within 10° of vertical and contains many isochially folded quartz and calcite bands, well crenulated schistosity, and tension gashes containing quartz muscovite and large kyanite crystals.

H) Amphibolites

These are mainly very hornblende rich mica schists grading to amphibolites in the most western parts.

Other rock units

In the west and south of the area are many injections of granitic material. The various types are discussed below.

Thin quartz-feldspar injections

These are thin veins of quartz and feldspar with a little mica in parts. They are commonly only of a few cms width and have an approximately morth south strike and a steep dip. They are locally strongly folded in isoclinal folds and in parts fold hinges have been tectonically seperated as eye shaped blebs. They are often associated with kink bands especially in the mica and graphitic schist group.

Aplitic veins

These are fine grained with quartz feldspar and some biotite, and have a similar orientation and relationship to the general trend of schistosity as the quartz-feldspathic veins. They sometimes reach 5 metres in width as lens shaped bodies and may also become medium grained.

Pegmatitic veins

Again these have an approximately north south strike and steep dip to both the east and west. They contain large feldspars up to several cms across and sometimes consist almost entirely of feldspar. There is also tourmaline and muscovite. They vary in width but are generally about 1 metre. They are common in the calciferous mica schist. sequence.

Granite Gneisses

These occur in the U. Furulund and one of which may be the Furulund gneiss as they are stratigraphically in the correct position. They are medium grained and contain quartz feldspar muscovite and biotite. They are concordant but lens out.

Ore Zones

No appreciable quantities of pyrite have been found in the Furulund which would correspond with the Sulitjelma level. There are however two main ore bodies in the area, but neither of great concentration.

1. Near Siriheim locality 1790/2780.

The width of the body exposed in old workings is about 2 metres and occurs in graphitic schists and kyanite schists of the mica schist sequence. These rocks contain pyrrhotite, pyrite and some chalcopyrite.

2. Rauflaaget locality in the region of 2120/2870.

The form and content of this ore body have previously been described. Laterally this becomes a rusty muscovite schist which has been marked on the map as a dashed thick 'ore zone' line.

There are two other localities where minor consentrations of ore were present.

- 3. In Kragelva locality 2205/2915.
 - The position of this is at the top of the Sjønstå in the garnet mica schists. It contains mainly pyrrhotite but also a little chalcopyrite and pyrite.
- 4. <u>In Sauelva</u> locality 1710/2560.

 This is in a graphitic schist in the mica and graphitic schists and contains pyrite with a little chalcopyrite.

Structure.

With reference to the sections and tectonics maps.

As previously stated the structure in the north east is clear.

There is a main antiform or gentle up-doming of the rock units exposing the basement granite gneiss.

To the north in the extreme north east in a second updoming with broad folds in the marble, the major fold axix being a south-west plunge. West of here a major antiform brings the steeply dipping Furulund from a north, south strike to a gently dipping east west strike. This most probably the same antiform seen on Satertind.

The major synform ovef Rauflaaget is a step like fold seen best on the cross-section. A major antiform to the horth west brings steeply dipping rocks of north south strike north of Sørelva into a gently dipping NW-SE strike over Tverlia. To the west many minor folds bring the far Furulund round into a north-south strike concordant with the rocks in the extreme west which are vertical.

The area in the south is difficult to correlate with the adjoining area in central parts due to a combination of complicated tectonics and very

poor exposures.

The gravel slopes of Storfjell seems likely to be a dip slope from the attitude of rocks seen in the streams which would suggest that the Furulund is brought over to the south side of Evenesdal by the antiform.

Samples.

Ore samples.

- A 1. Locality old workings near Siriheim. 1790/2780 3 samples taken across the ore body.
 - (x) Pyrite pyrrhotite mainly in the graphitic schist.
 - (y) Pyrite pyrrhotite and a little chalcopyrite in a graphitic schist.
 - (z) Pyrite and pyrhotite in a kyanite schist with graphite. Stratigraphical position calc. mica schists.
- A 2. Locality Kraagdal 2205/2915

 Pyrrhotite and a little chalcopyrite in a mica schist.

 Stratigraphical position U. Sjønstå.
- A 3. Locality Sauelva 1710/2560

 Pyrite with a little chalcopyrite in a graphitic schist.
- F 1. Gneiss locality 2070/2750 possibly the Furulund gneiss.
- F 2. Mylorite or crush breccia associated with this gneiss.
- F 3. Upper Furulund graphitic mica schist.
 Locality 1950/2790
- F 4. Upper Furulund graphitic mica schist, well laminated.
 Locality 2180/2700
- F 5. Lower Furulund non graphitic, hornblendic mica schist.

 Locality northern slope of Storfjell.
- C 1. Calc mica schist containing principally biotite and some kyanite.

 Locality 1900/2470 Calc.mica schist group.

- M 1. Quartz kyanite bearing mica schist.

 Locality 1700/2560 Mica and graphitic schist group.
- M 2. Coarse grained feldspathic amphibolite.
 Locality 1950/2405 Evenesdal.
- B 1. Basement granite gneiss. Locality 2450/2820.
- B 2. Micaceous quartzite from the sparagmite.
 Locality 2450/2980.
- G 1. Granitic injection vein medium grained with a contact with a biotite schist.

 Calc. mica schist group. 1850/2650.

Key to Lithological Rock Units for 1:50 000 map.

Structurally highest beds at the top of the sequence.

Drift -	Sands and gravels		101/5
Amphibclites -	mixture of amphibolites (hornbl and hornblende schists	endic)	101/9
Mica and graph	itic schists	Impure marble	101/2
	mica schists with graphite rich	mica and grap- hitic schists	999/59
	bands	Trenolite mar- ble	1 01/2
Calciferous mi	ca schists.		
	mica is predominantly biotite; poorly laminated schists; kyani also present	te	101/6
Furulund			
U. Furulund -	mixture of graphite bearing mus covite schists and calc.mica so generally well laminated schist	hists	101/35
L. Furulund -	mica schists predominantly biot cic and quartz rich in parts ho		101/9 101/26 101/9
	is also characteristic	ore zone amphibolite	101/9 101/26
Sjønstå			
	schists and garnet gneisses - thick in the west thinning in th	e amphibolite	101/9 999/59
Pieske Marble	Group		
Amphibolite			
Thin medium	grained amphibolite micaceous in	parts	999/180
Graphite schis	ts		
Graphitic a thinning so	nd micaceous schists muscovite sc uthwards.	hists	999/110 999/30
Pieske Marble			
Pale and br schist band	own impure marble containing many s	muscovite	101/2
Sparagmite			
	r parts a quartz mica schist r parts a pure quartzite, banded		999/25

Easement

Granite gneiss a quartz feldspar biotite granite

999/70

Other rock units

Gneisses of granitic composition occuring in the Furulund. Possibly the Furulund gneiss.

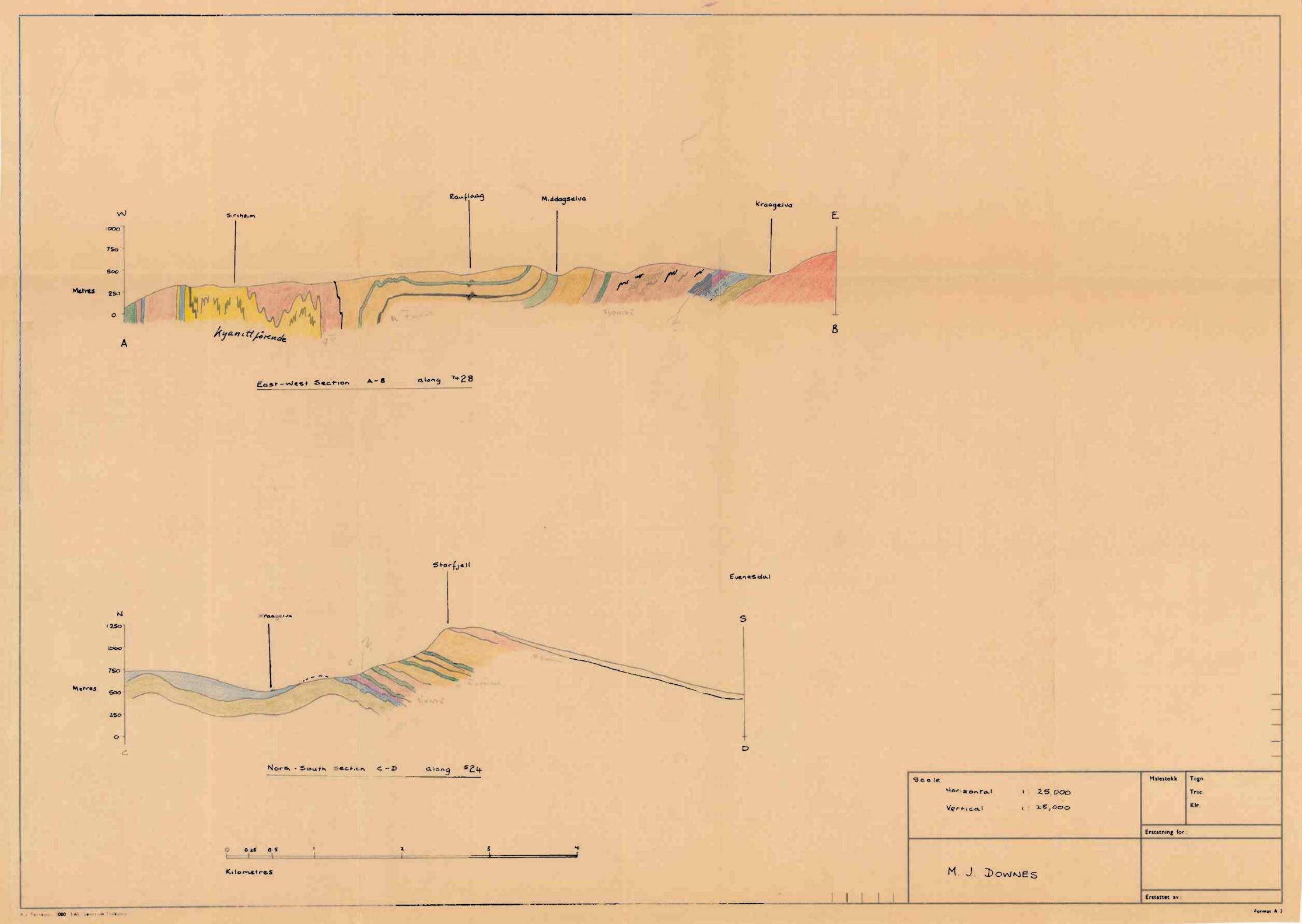
999/3020

Rock units in south of doubtful correlation

Biotite schists 999/30

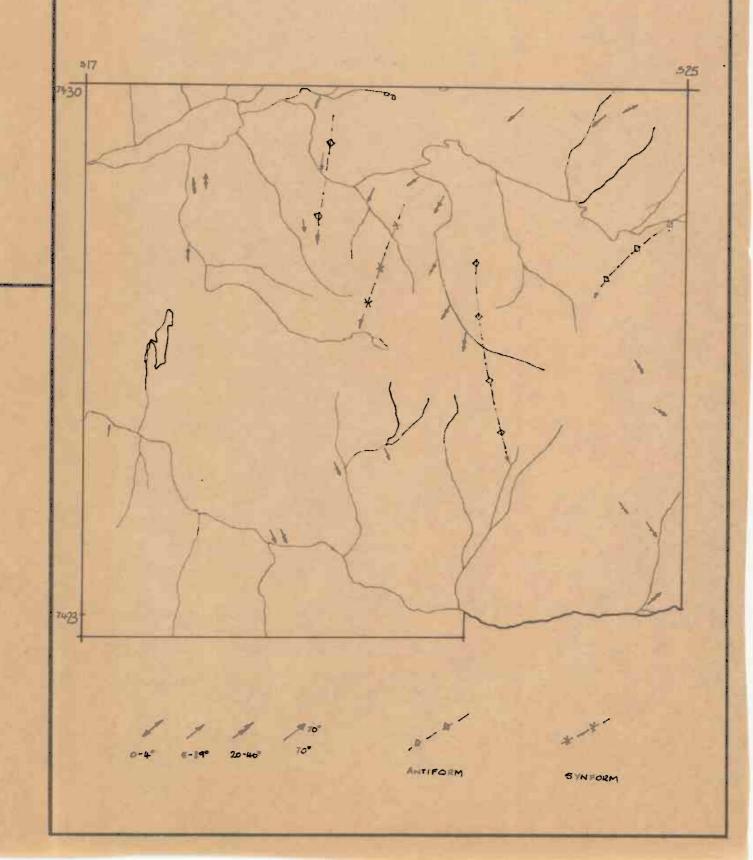
Muscovite schists and mica schists + garnets 999/59

Garnet mica schists in the southcentral area 101/7



TECTONICS - FOLD AVES

Scale 1: 50,000



TECTONICS - SCHISTOCITY TRENDS

Scale 1: 50,000

