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# JOINT VENTURE FOLLDAL VERK A/S - NORSKE FINA A/S

KNABEN AREA

Exploration 1984

Jan Inge Tollefsrud

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#### ABSTRACT

During the field season of 1983, diamond drilling and detailed geological mapping were performed in the area west and south of lake Smalvann.

The aim of the work was to find out if the mineralized zone in DH 7-83 was part of a large mineralized zone cropping out in the Sandtjern-Grunnevannsknuten area, and to see if these mineralized zones were hiding ore grade mineralizations at depth.

Eleven holes of length from 53 to 360 m, in total of 1376 m, were drilled. The area was mapped on scale 1:2000.

The Sandtjern- Grunnevannsknuten zone consists of several parallel mineralized zones. One of these were found to hide at least 1000000 tons of 0.25% Mos2 found at a depth of 25-50 m in the area SW of lake Smalvann.

A up to 17 m thick section of quartz may be part of a 280000 tons, large lens of quartz that is connected to the mineralizations and may have commercial interest.

The zone is not connected to the mineralized zone in DH 7-83.

It is recommended to continue the investigations of the zone towards north to Grunnevannsknuten and towards south to Ornehommen by means of diamond drilling.

Drillholes of 80-200 m length should be set out parallel to, and east of the outcropping mineralizations of the zone.

#### INTRODUCTION

During the field season of 1984, the Joint Venture - Folldal Verk A/S - Norske Fina A/S, continued with diamond drilling and detailed geological mapping in the area to the west of Smalvann and SW of the old Kvina Molybdenum mine in the Knaben district. (John Pedersen, report 1982, J.I. Tollefsrud, report 1983).

The aim of this seasons work was to try to find gangfjell mineralizations of the Knaben II type in the continuation towards depth of the Sandtjern-Grunnvannsknuten mineralized zone. It was supposed that the mineralized zone of bleached granite in DH 7-83, found at a depth of 270 m was connected to the Sandtjern zone.

Detailed, geological mapping on scale 1:2000 was continued in the western direction of the area, mapped last year. That is to say Grunnvannsknuten-Sandtjern-Lilleknaben-Ornehommen. This was meant to give a better picture of the lower boundary of the main gneis horizon, and of the mineralized zones that paralells this boundary. The work started 20.6 and continued until 22.10.

Until the end of august, diamond drilling was carried out with a Toram drilling machine, built at Hagby Bruk A/S in Sweden and hired from Folldal Verk A/S.
Because of continuos problems with this machine, it was abandoned and a Craelius Diamec 250 of the same type which was used last year, was hired from Backe Maskin A/S/Craelius.

The drilling machines were operated by 2 local residents, Tom Toralf Røynestad and Karl Røyseland, who also operated the drilling machine last year. Arne Knaben was a stand-in for Karl Røyseland during spring farming.

The equipment was transported with a Ford County 754 tractor equipped with a doubble winch, used for winching equipment across the Stutedalen valley.

The diesel aggregate was mounted on a sledge, constructed by Holstad/Røynestad last summer, and the Toram drilling machine was mounted on a sledge constructed at Folldal Verk A/S.

Røynestad and the writer stayed in a hired house in Knaben (owned by O.K. Rejersen, Kvinesdal), which also served as a storage for the drill cores as last summer. Røyseland drove home to Eikeland every evening.

As transport from Knaben to Smalvann was used a Subaru 4WD pick up.



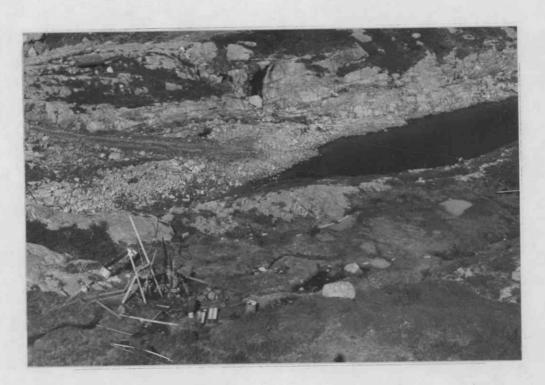
The hired cottage in Knaben. The old Knaben II mine in the background.



Winter in the field. Røyseland (left), Røynestad. DH 7-84.



Rigging the Toram. DH 2-84.



The Diamec rig . DH 4-84.



Winching the hydraulic aggregate (Diamec) across the Stutedalen valley to DH 4-84.



Digging road to DH 5-84.

#### GEOLOGICAL SETTING

The Knaben area is situated within the precambrium of South Norway. The predominant rocktype is a pink to grey orthogneis called red granite (see description of rocktypes). Within this complex, there exists a up to 1,5 km wide zone where red granite is mixed with lenses and bands of various grey gneisses and amphibolites. The strike of this horizon (called the gneiss horizon, this report) is SSW-NNE and the dip is 15-40°E. The gneiss-horizon often has a rusty appearance due to weathered iron-sulfides, and because of this, the term "fahlband" has been used. (Bugge, 1963).

The Knaben II, Ørnehommen-Sandtjern-Grunnvannsknuten mineralizations are situated below the main gneiss horizon, while the old Knaben I - and Kvina mines are situated within the horizon.

#### **ACTIVITIES**

The gneiss horizon was mapped on the scale of 1:2000 in the area from Grunnvannsknuten to Sandtjern, Stutedal, Lilleknaben, Ørnehommen and upper part of Geiteryggen. (App.E) Eleven vertical diamond drillholes of length 53,5-360 m, in total 1376 m, were drilled. (Mapp.17 App. A and B)

# DESCRIPTION OF ROCKTYPES

#### Red granite (RGR)

The predominant rocktype in the Knaben area is a pink to grey orthogneiss with 1-2 cm blastophyres of alkali-feld-spar. The texture varies from near granitic to typical gneiss-granitic. The size of the blastophyres and grains vary from medium to coarse grained over short distances (dm) across the strike. RGR has often a bleached appearance within the gneiss-horizon.

The red granite contains some magnetite and pyrite, but seldom molybdenite and ironsulfides other than pyrite.

#### Banded gneiss (BGN)

The main gneiss-type is a rather light, grey hornblende biotite gneiss, often with a rusty appearance because of weathered disseminated ironsulfides. It sometimes also contains molybdenite disseminated in the rock, and at the contact towards concordant and discordant quartzveins. The foliation is made up of biotite-hornblende as dark, mm thick bands between light bands of feldspar and platy quartz. The gneiss sometimes shows feldspar blastosis, and this gives the rock a lense - or augen-gneiss-like appearance.

#### Finegrained gneiss (FGGN)

The grey, finegrained gneiss has a grain-size less than 1 mm. Alternating mm to cm thick, grey-white and dark grey bands are due to varied concentration of dark minerals. The rock is criss crossed by aplitic to granitic vens. The finegrained gneisses are found as small slices and as concordant bands of 100-200 m length. They are often impregnated with ironsulfides, and traces of molybdenite as diffuse, concordant bands. FGGN often appears together with amphibolite, and in a few places they both contain garnet.

#### Aplite (Apl.)

The aplites appears as "old" concordant and discordant veins of dm to m width, and as late, cross-cutting dikes. They are red to grey in colour, and some may show feldspar blastesis, with a gradual change to red granite. The grey varieties may contain disseminated molybdenite and ironsulfides.

#### Amphibolite (Amph.)

Amphibolites occur as dark lenses, both old, concordant, and younger discordant. They often shows ptygmatic folded quartz-veins and lenses, and is often altered to glimmerite in banded zones, due to hydrothermal alteration.

# "Gangfjell"/Bleached red granite (BRGR)

Gangfjell is supposed to be a hydrothermally altered variety of the red granite. The texture is the same as in red granite, except in heavy altered parts, where the textures are diffuse.

It has raised silica-content, mainly due to abundant secondary, subparallel molybdenite-mineralized quartz-veinlets. The colour is grey to weak greenish-grey, presumably caused by sericittisation of feldspar. Besides molybdenite, gangfjell contains some chalcopyrite, pyrite and pyrrhotite, while red granite show some magnetite and pyrite, and only seldom molybdenite. The magnetite is assumed to be the Fe-source for ironsulfides in gangfjell (Gvein, 1981).

In this report bleached varieties of red granite are called bleached red granite (BRGR), and not gangfjell, because the quartz enrichment is not very obvious.

#### Diorite

Apart from the aplites, banded gneisses, amphibolites and granites described in last years report. (Tollefsrud, 1983), a new rocktype, called diorite was found where the road to Knaben I leave the Kvina road.

It looks like a discordant intrusive body with apparently close to vertical contacts to the surrounding granite. It has a dike-like arm running west for about 100 m. The rock has a weak foliation and is medium grained. It is very dark, due to a high content of biotite, and have white eyes of what looks like plagioclase.

#### STRUCTURE

Last years 1:2000 scale geological mapping of the main gneiss horizon in the area from Knaben I - to Kvina old mines, was continued this year by mapping of the western, lower border zone of the horizon in the area from Grunnevannsknuten in the north to Ornehommen in the south.

The western border of the gneiss horizon is not clear cut. There is a gradual change towards west, with less mixing of banded gneiss and amphibolites into the various red granites.

On the north west flank of Grunnevannsknuten there is a steep slope with a strike of N 70-80  $^{\circ}$ E. This slope represents a narrow zone of dextral drag in the rocks. The westernmost gneiss-amphibolite band has a strike and dip of N80  $^{\circ}$ E/28  $^{\circ}$ E where it ends in this zone.

The zone is considered to be a result of the same deformation as the local drag in some gneiss bands (Tollefsrud, report 1983). One of the mineralized quartz-veins on the south-eastern slope of Grunnevannsknuten (in the area of the little stream, map 4) show this same type of deformation along a plane with the same orientation.

It is possible that this deformation is the same as the youngest of Hermanns et al.'s (1975) four fold-phases distinguished for the region west of Sirdalsvann.

The Stutedalen (dalen = valley) - Smalvann fracture zone is a structure that represented a problem when we tried to find a continuation of the mineralized zone in DH 2-84 and 3-84 on the east side of Stutedalen.

About 350 m south of the dam a discordant aplitic "dike" with weak vertical foliation seems to be displaced about 100 m in a dextral manner in the Stutedalen zone. Still further south a dioritic, discordant lens with apparently vertical contacts to the red granite was found. It is situated mainly on the west side of Stutedalen, but a part of it was found on the east side, and opposite the southern part of the main body on the west side. The possible displacement towards south of the east part of the lens could be due to the same displacement as the one on the aplite further north.

Along the shores of Smalvann there are no signs of displacement along a narrow zone, but deformation is more like a flexure (Tollefsrud, report 1983), giving the gneiss a strike parallel to the shores of the lake. DH 6-84 that was set out on the west side of Stutedalen shows a gradual change over half a meter, from a dragged, plastic deformed granite to an ordinary bleached granite, which indicate an episode of ductile deformation in the Stutedalen zone.

On the north-west shore of the largest lake in the Lilleknaben area it was found a narrow zone (2m) with a strike of  $32^{\circ}E$  and dextral drag of a few meters. This could represent a miniature of the deformation in the Stutedal zone.

Just west of DH 1, 2, and 7-84 there is a zone of apparant weakness, making it visible in the terrain as a notch or ditch. No signs of a relative displacement that could have given a wrong estimate of the dip of the mineralized zone between hole 7- and 9-84 was found however.

Isophypses drawn through the mid point of the mineralized zone in each hole, show a plane structure with a strike N  $10^{\circ}$ E and a dip  $20^{\circ}$ E. Outcropping rocks in the drillhole area give a compareable strike, but varied dip.

Further west, on the slope down to Sandtjern the dip varies from 20-40°E, and strike seems to be N-S and weak westerly. On the north side of hilltop north east of Sandtjern the strike is easterly and this gives the possibility of a synform with a fold axis dipping towards ESE. Whether such a structure can have been of importance to the formation of the mineralization is however uncertain.

Summary - structure.

Narrow vertical zones of ductile deformation running NNE-SSW and ENE-WSW were found several places in the area.

Relative displacements along the zones were always found to be dextral, and this indicates that the two orientations not represents conjugated shears, but are the result of two deformation episodes.

The Stutedalen valley is a representative of the NNE-SSW running zones. Relative horizontal displacement is supposed to be about 100 m. Mos2-mineralizations seems to be cut by this zone, and the deformation is therefore younger than the mineralization.

Concordant, small, Mos2-mineralized quartz-veins are also seen to be displaced by ENE-WSW running zones.

The large mineralized zone that was found at depth west of Smalvann is concordant and seems to have an average strike of about  $\rm N10^{\circ}E$  and dip of  $\rm 20^{\circ}E$ . No unambiguous structures that may have controlled the mineralization was found.

# MINERALIZATION

The mineralization on the western border of the gneiss horizon seems to be connected to several parallel concordant zones that are persevering along strike, but have irregular mineralization.

Some of the zones partly consists of slices of gneiss and amphibolite.

The mineralizations are mainly of quartz-vein type, with weak disseminations in granite and aplite. Mos2-mineralized quartz-veins of the westermost Sandtjern zone show signs of ductile deformation , just like the Mos2-mineralized quartz-vein on the south-east slope of Grunnevannsknuten, that show dextral drag along a ENE trending plane.

The mineralized zone that was found in drillholes 1-, 2-, 3-, 7-, 8-, 9-, and 10-84 consists of:

- Quartz. Both as cm wide veins and sections of several meters. The small quartz-veins shwo mineralization both in the form of impregnation of mm large grains and larger clots of Mos2, while the thick sections of quartz is almost pure SIO2 with only spread cm masses of mainly pyrite and chalcopyrite. In DH 2-84 there are mirrors of pyrite on young, close to vertical fractures.
- 2. Aplite. This is a "sugar"-grained greenish coloured quartz-feldspar rich type with foliation. It is mineralized with both chalcopyrite and pyrite, but mainly by Mos2. Mos2 is disseminated in the rock as concordant, less than cm long, flat lenses with a discuss like shape. The texture of the mineralization indicates that it is "old" and has survived at least the deformation that gave the rock its foliation.
- Bleached red granite. This is a weak greenish coloured bleached variety of the red granite and it show impregnation of Mos2, pyrite and chalcopyrite.

The relative amounts of the various rocktypes varies, but the zone as a hole is so characteristic that there should be no doubt that it is the same zone that is intersected by all holes.

A stone with the same textures was found close to the open pit of Knaben II mine, and that indicates that this rocktype has been a part of the Knaben II orebody.

In drillholes 1-, 7-, 9- and 10-84 part of the zone consisted of thick sections of quartz, with only minor impregnation of sulfides. The quartz is as thick as 17 m in DH 10-84, 5 m in DH 9-84, 4 m in DH 2- and 3 m in DH 7-84. This opens the possibility of a large quartz-lens like the one in the old Kvina mine. (Tollefsrud, 1983).

It seems that we have to do with a mineralized zone with characteristics that are known from both the Knaben II and Kvina ore deposits. This means that there need not necessarity be any genetic diffences between the two deposits.

At the upper excavation in the Sandtjern zone, lying at about 840 m.a.s. there is a 5 m long and m wide quartz-vein with spread mineralizations of Mos2 and a dip of 20°E. The vein is thinning out to less than 0.5 m towards south and can be followed for about 100m. It shows mineralization at only 2 places and seem to be situated at a too low level to be directly connected to the mineralized zone in the drillholes.

On top of the steep slope ENE of Sandtjern there are some lenses of banded gneiss and aplite. There are also lots of cm to dm. wide quartz-veins without Mos2. A medium grained, rusty gneiss has weak impregnation of Mos2.

Just north of high 885 there are lots of cm to dm wide quartz-veins with Mos2 covering an area of about 20x 6 m. Quartz-veins show varied dip, and the dip of the zone was not possible to messure. This zone is expected to lie above the mineralized zone in the drill-holes, but has no continuation towards depth.

275 north of DH 1-84 there is a zone of Mos2-mineralized quartz-veinlets in bleached granite. The zone has been excavated, and 175 m towards east a diamond drillhole (3, p.17) intersected the zone at a depth of about 80 m, where it was 3 m thick and had an average content of 0.085% Mos2. When considering strike and dip of this zone, it can be connected to the mineralized zone found in last summers drill-holes.

The zone seems to continue up on the west side of Grunnvanns-knuten (mapp. 15) as spread and weak quartz-vein mineralizations all the way up to 75 m west of the house on top of Grunn-vannsknuten. Here the zone widen out before it continues with more spread mineralizations on the north side of the mountain. Below the uppermost zone on Grunnvannsknuten there can be recognized 2 or 3 more zones.

The lowest and westernmost is connected to impregnation in aplite, the one above this is connected to apparently concordant quartz-veins with mirrors of Mos2 on the contacts to red and bleached red granite.

The zone above this seem to follow the gneiss-amphibolite zone and consists of quartz-vein mineralization.

South west of DH 3-84, the mineralized zone should crop out and cross the Kvina road in the area west of the scree in Stutedalen. No mineralizations was found however. Still further SW on the road to Knaben I, where this makes a 100° bend, there are Mos2 mineralizations of the qz.vein type and also impregnation in aplite. These zones continues towards Ørnehommen, mainly as up to 5-6m wide zones of trains of 3-20 cm thick quartz-veins with Mos2. The zones are considered to be the continuation of the Sandtjern-Grunnvannsknuten zone. They have been mined at "Abels mine", which is situated just west of, and above the discordant dioritic lense in Stutedalen. Here a meter thick quartz-vein, fairly rich in Mos2 have been mined, but several smaller mineralized qz.veins are found just south of it.

On the NE edge of the steep slope in Ørnehommen there are three small pits mined on Mos2-mineralized quartz-veins in granite.

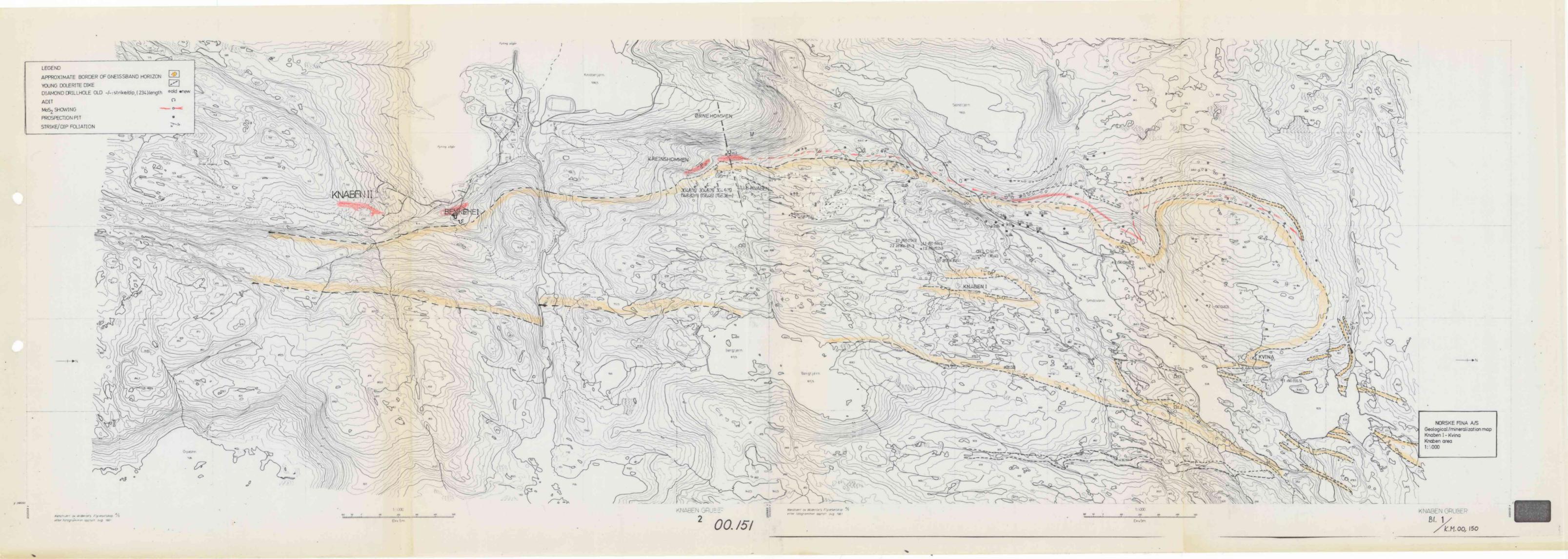
From Reinshommen to Jelå in Ørnehommen there is a zone of mineralization both as impregnation in aplit (Vestre Reinshommen 760 m.a.s.), and as quartz-vein mineralization and impregnation in bleached granite. (Jelå and Rubens mine, Upper Ørnehommen 770 m.a.s.)

The zone is up to about 8 m (Rubens mine) thick and is found on the same level as the the prospection pits on top of the Ørnehommen slope described above. The zone has been mined in Vestre Reinshommen and upper Jelå. At a lower level, about 710 m.a.s. in Ørnehommen, there have been some mining on a Mos2-mineralized, 150 m long and about 2 m wide zone of quartz-veins.

#### ${\bf Summary - mineralization}$

The mineralizations in the Grunnvannsknuten-Sandtjern-Ørnehommen-Reinshommen area consists of several paralell zones with quartz-vein-, aplite and granite impregnations. The zones are persevering along strike and mineralization irregular, but larger zones of mineralization have been found, both in the Sandtjern area and in Reinshommen. The mineralizations seems to have survived at least one-, possibly more deformation episodes. The last one beeing ductile drag along vertical planes. Concordant mineralization in aplite indicate that it even has survived the major deformation that gave the rocks their present foliation. Even if this is correct, the mineralization found in the drillholes have characteristics in common with both the Knaben II-, which have been considered to be the result of a late mineralization episode-and Kvina orebodies.

The impregnation of Mos2 in granite, aplite and small quartzveins beeing typical for Knaben II and the large quartz lens beeing typical for the Kvina mine.



THE DIAMOND DRILLING PROGRAM 1984

#### Activities.

ll holes were drilled (Tabel 1, map. p.17)

Tabel 1. Drillholes 1983.

| Hole No. | Strike/Dip. | Length of hole |
|----------|-------------|----------------|
| DH 1-84  | -/90        | 360,00 m       |
| DH 2-84  | -/90        | 180,00 m       |
| DH 3-84  | -/90        | 110,00 m       |
| DH 4-84  | -/90        | 192,70 m       |
| DH 5-84  | -/90        | 92,50 m        |
| DH 6-84  | N85W/85     | 84,20 m        |
| DH 7-84  | -/90        | 61,20 m        |
| DH 8-84  | -/90        | 62,50 m        |
| DH 9-84  | -/90        | 53,50 m        |
| DH10-84  | -/90        | 55,50 m        |
| DH11-84  | -/90        | 123,80 m       |
| Sum      |             | 1376,00 m      |

1-84 was drilled to locate possible plane(s) of mineralization that could be connected with the Sandtjern-Grunnvannsknuten zone.

 $\frac{2-84}{\text{try}}$  was set out to get a better control of structures and try to find a direct connection between the Sandtjern zone and mineralized zone in DH 7-83.

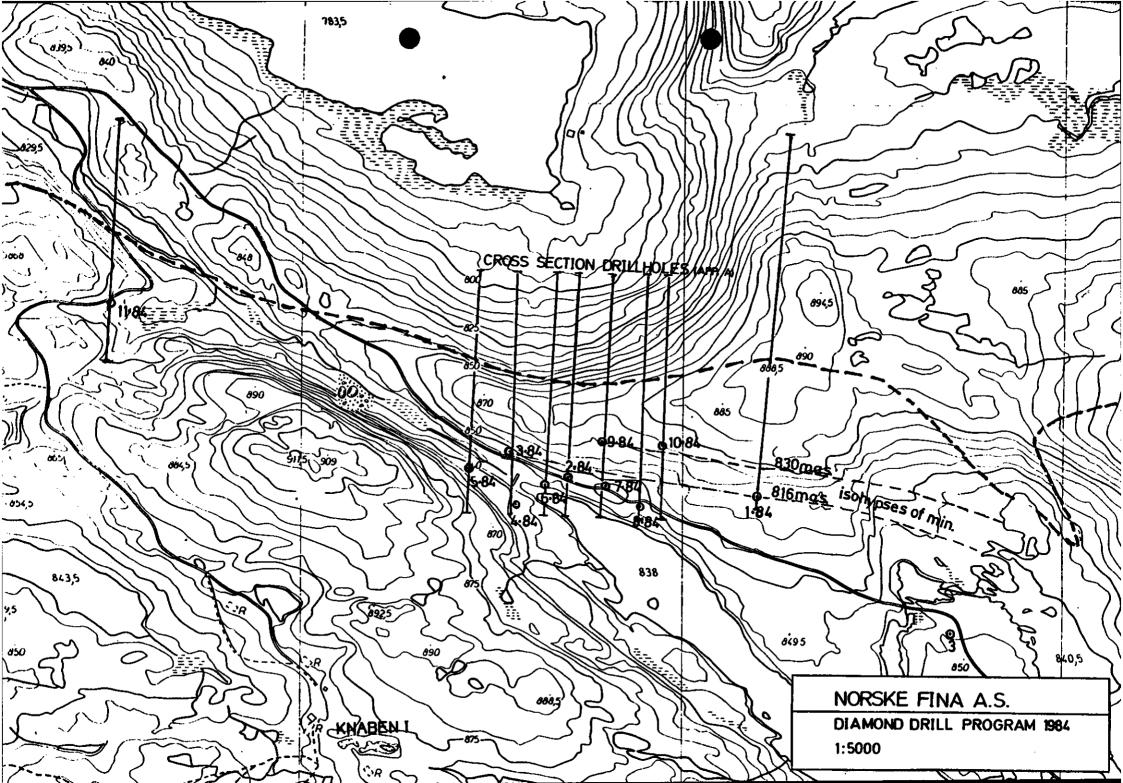
 $\frac{3-84}{2000}$  was drilled to find a continuation of the mineralized zone at shallow level in 2-84.

4-84 was set out to try to find the continuation of the mineralized zone in 2-84 and 3-84 on the east side of Stutedalen valley, which could represent a fault-zone with relative displacement.

 $\frac{5-84}{6}$  was set out as far south as possible on the same side of Stutedalen valley as 4-84. This was to get closer to the strike-line of mineralization cutting 1-84 and 3-84 on level 815 m.a.s., to make sure that the negative result of 4-84 was not due to bad luck or that it interected the level of mineralization below, along dip, a possible orebody.

 $\frac{6-84}{2}$  was set out to find out what happened to the mineralization in the Stutedalen valley. The hole was set as close as possible to the western side of the valley. Drillhole was tilted 5 towards west to intersect the boundary between "valleyrock" and fresh rock on the west side.

7-84: It was decided to try to find the continuation of mineralization along the Smalvann towards north.



- 8-84 was set out as a consequence of the decision described above.
- 9-84. Because of negative result of 8-84, it was decided to move west to get an impression of the geometry and structure of the mineralized zone.
- 10-84. Was set out because of good result of 9-84.
- 11-84. Because of heavy snow-fall, and because a removal towards north had to involve a complicated and timeconsuming transport of diesel aggregate. It was decided to examine the zones of comparable mineralizations running south from Stute-dalen to Ornehommen, and which seems to be a continuation of the Sandtjern-Grunnevannsknuten zone. The drillsite was at a lower level and on the road to Knaben I, so that the risk of getting stucked because of snow was'nt too big.

# SHORT DESCRIPTION OF DRILLHOLES 1984

(Corelogs app. A and B).

DH 1-84 863 m.a.s. 360 m.

DH 1 cuts various types of red granite. From 43 to 49 m depth a zone of bleached to greenish coloured granite, qz-veins and aplitic-, qz-feldspar rich rocks was found. Mos2 mine-ralization dominantly as concordant, cm long, flat lenses in aplit, but also as spots in qz-veins.

From 90 - 135 m depth, there was a zone consisting of a mixture of red to bleached red granite, aplites, banded gneisses and amphibolites. Weak and spread impregnation of py, chp and pht, also some traces of Mos2. This zone was believed to be the same as the western gneiss/amphibolite band on Grunnvanns-knuten

From 135-163 m depth there was an ordinary red granite, and from 163-275 m there was various types of red granite with varied grainsize. and content of dark minerals. This last zone was considered to be the same as the one cropping out in the area between the two westernmost minerali-'zation zones.

From 275 to 355 m depth there was a zone dominated by bleached red granite and grey aplites with weak mineralization of py, chp,pht and Mos2, both as impregnation and connected to concordant and discordant qz. veinlets.

This zone was considered to be connected to the westermost mineralized zones in the Sandtjern area.

Samples analysed: 44-49 m: 966 ppm Mo, 524 ppm Cu. 275-354\*: 76 ppm Mo, 124 ppm Cu.

\*Samples taken each third meter.

 $\underline{DH\ 2-84}\ 848$  m.a.s. 180 m. The first 30 meters is a mixed zone typical of the gneisshorizon, with bleached and red granites, banded gneiss, aplite and amphibolite.

From 30-43 m the same zone as was found on level 43-49 m in hole I was found.

The uppermost 4 meters of the zone is quartz. 43-98 m depth is dominated by weakly bleached granite with spread and weak mineralization of chp, py and some Mos2, both as impregnation and in qz-veins.

98-117 m is a zone of bleached red granite, banded gneiss and some aplite and amphibolite, mineralized in the same way as the zone above.

117-128 m is a zone of bleached granite with weak impregnation of py, pht and chp.

128-150 m depth is a new mixed zone, with weak impregnation of py, pht and chp. Some concordant Mos2 (+chp, py, pht) in grey apl.

Samples analysed: 34-42 m: 1561 ppm Mo, 649 ppm Cu.

DH 3-84 845 m.a.s. 110 m.

The upper 26 m is dominated by red granite.

From 25-33 m the mineralized zone was found. In this hole without a thick qz-section.

33-90 m is dominated by weakly bleached granite and grey aplite with weak and spread mineralization of py, chp and some Mos2, both as dissemmination and in qz-veins. 90-110 m is dominated by banded gneiss with weak mineralization of py, chp and pht.

Samples analysed: 25-32 m: 1373 ppm Mo, 1361 ppm Cu.

DH 4 847 m.a.s. 192,7 m.

The first 80 m is dominated by weakly bleached granite. From 80-90 m the granite show traces of Mos2 and chp. 120-156 m is dominated by banded gneiss. The gneiss is weakly impregnated by py, chp, pht and traces of Mos2, as usual for banded gneisses.

156-192 m is dominated by red and bleached red granite. Spread grains of sulfides.

DH 5 850 m.a.s. 92,5 m.

Is very much like DH 4-84.

The mineralized zone at depth 80-90 m in hole 4-84 was found at the same depth in 5-84.

 $\underline{\text{DH } 6}$  840 m.a.s. 84.2 m. The hole was tilted 5 W.

The first 45 m seems to be some sort of a mylonite with textures of plastical deformation.

From 45 m depth the rock is a red granite, and from 45-76 m there are traces of py, chp and Mos2.

DH 7 850 m.a.s. 61,25 m.

The upper 44 m is dominated by red- and bleached red granite, but with some bands of banded gneiss, aplite and amphibolite. Banded gneiss mineralized was

From 36 to 44 m depth the mineralized zone of hole 2 (34-42m depth) was found. The upper 3,5 m is quartz, which is also mineralized with chp, py and Mos2.

From 44 m and downwards the rocktype is red granite.

Samples analyzed: 36-44m: 1904 ppm Mo, 714 ppm Cui.

DH 8 842 m.a.s. 62,4 m

The first 45 m is a mixed zone idministred by red granite and with subordinate banded gneiss.

From 40 to 42 m a possible combination of the mineralized zone of hole 7-84 (36-44 m depth) was found. It consists of bleached red granite, grey aplite and qz.veins. Mos2 occurs both in qz. and as impregnation in the other rock types.

From 45 m depth the rocktype is a weakly bleached red granite.

Samples analysed: 40-42 m: 2440 ppm Mo, 1350 ppm Cu.

DH 9 865 m.a.s. 53,5 m. The hole is dominated by RGR.

The mineralized zone was intersected at a depth of 30 to 42 m. It consists of one upper 2 m thick qz.zone and a lower qz.zone of about 5 m. The quartz is partly mineralized with Mos2, py and chp. The rest of the zone is Mos2-impregnated aplite and bleached red granite criss-crossed by qz. veins containing Mos2.

Samples analysed: 30-38 m: 1309 ppm Mo, 564 ppm Cu. 40-42 m: 2895 ppm Mo. 255 ppm Cu.

DH 10-84 865 m.a.s. 55,5 m.

The hole is dominated by red granite.

The mineralized zone was intersected from 26-50 m depth.

From 26 to 28 m depth the rock-type is a bleached red granite cut by qz. veinlets and with Mos2 in both.

28-45 m is almost pure quartz.

45-50 m is mixed bleached red granite and grey aplite.

Most of the Mos2 as concordant impregnation in aplite as described for 1-84.

Samples analysed: 26-28m: 640 ppm Mo, 200 ppm Cu. 45-50m: 1318 ppm Mo, 610 ppm Cu.

DH 11-84 847 m.a.s. 123,8 m. Hole dominated by RGR. Only traces of Mos2.

#### PREVIOUS DRILLING

Apart from the earlier mentioned drillhole 3, 1200 m SW of the Kvina mine, that intersects a 3 m mineralized zone with 0.085% Mos2 at depth of about 80 m, two more drillholes have been 'drilled in this area (Table 2 ). Hole 2 was set out 500m south/east of Kvina to test the quartz-vein mineralizations on the south east slope of Grunnvannsknuten.

Table 2

Old drillholes, Kvina area.

| Hole no. | Strike/dip | Length of hole |
|----------|------------|----------------|
| 1        | -/90       | 155,5 m        |
| 2        | -/90       | 146,2 m        |
| 3        | -/90       | 98,8 m         |

The hole is just about to reach the level of the uppermost mineralization zone on Grunnevannsknuten. No mineralization was found, but the hole lies very far from the outcropping mineralization and it is not certain that the level was reached (estimated dip from outcropping mineralization to bottom of hole: 20°). Hole I was set out 150 m east of Kvina mine to look for a continuation of the Kvina ore. No mineralization was found.

Further south, in the Lille Knaben area, 7 holes have been drilled. (Table 3). They were set out on a line 40-50 east of and paralell to the outcropping mineralized quartz-veins that have been mined in the area. The veins lies east of the main mineralization zone Sandtjern-Ørnehommen. They were intersected at a depth of 25-45 m, but only sections of 0,5-1,5 m of Mos2 mineralizations were found. (Bugge, 1967).

Still further south, in the Ørnehommen-Reinshommen area, several holes have been drilled. (Table 4 ). Mineralizations of five of these are known, and shows that hole 3 had a 23,45 m zone of 0.1% Mos2 on the level of the outcropping aplite/quartz-vein mineralizations in Reinshommen. (Sydvaranger, report, 1980). Drillhole 2, situated between the outcropping aplite and hole 3, did not show mineralization at the same level however. This shows that the mineralizations towards depth show the same lens-shape or pitch and swell structure as is seen at the surface. It also shows that there exists wide zones of fairly rich Mos2-mineralizations hidden along the zone.

Table 3 Old drillholes Lilleknaben.

| Hole no. | strike/dip | Length of hole |
|----------|------------|----------------|
| 1        | 300g/66.7  | 86,87 m        |
| 2        | 11         | 39,90 m        |
| 3        | 11         | 40,12 m        |
| 4        | 11         | 63,50 m        |
| 5        | •          | 60,00 m        |
| 6        | 71         | 66,30 m        |
| 7        | 11         | 65,05 m -      |

Table 4 Old drillholes Reinshommen

| Hole no. | Strike/dip | Length of hole |
|----------|------------|----------------|
| 2        | 304g/66.7  | 96,00 m        |
| 3        | tt .       | 158,98 m       |
| 4        | н          | 156,46 m       |
| 5        | **         | 148,42 m       |

# DISCUSSION/CONCLUSION

The diamond drilling in 1984 confirmed that the Sandtjern-Grunnevannsknuten zone have mineralizations of the type that could be connected to ore grade mineralizations at depth.

The zone cannot however be considered as one big, continuous zone, but rather as several parallel zones with discontinuous mineralization.

One of these zones was found to have ore grade mineralizations at depth. It has a strike of about  $N10^{\circ}E$  and dip  $20^{\circ}E$ . Fig. ( 5 )

Fig. ( 5 )

| width of zone<br>incl. quartz | meter mine-<br>ralized                                   | % Mos2  | meter quartz   |
|-------------------------------|--|---|--|
| 44-49                         | 5 m  | 0.16  | _  |
| 34-42                         |  |   | _<br>4 m   |
| 25-32                         |  |   | - W  |
| 36-44                         |  |   | -<br>3 m   |
|                               |  | •   | <b>-</b> "   |
|                               |  |   | -<br>5 m   |
| 26-28, 45-50                  | 7 m  | 0.183   | 17 m   |
|                               | incl. quartz  44-49 34-42 25-32 36-44 41-42 30-38, 40-42 | incl. quartz ralized  44-49 5 m 34-42 8 m 25-32 7 m 36-44 8 m 41-42 2 m 30-38, 40-42 10 m | incl. quartz ralized  44-49 5 m 0,16 34-42 8 m 0,26 25-32 7 m 0,23 36-44 8 m 0,30 41-42 2 m 0.406 30-38, 40-42 10 m 0.34 |

The zone was not refound on the east side of Stutedalen, and could not be connected to the mineralized zone in DH 7-83.

The zone seems to thin out towards east, on the west side of Stutedalen.

Towards south the zone should crop out, and cross the Kvina road with an approximate strike N-S, 200 m SW of DH 3-84.

The mineralizations is not found here, and the zone must be limited to the north of this area. Towards north, no unambigous limitation of the zone can be given at this stage of investigation. It may be that the thin section found in DH 8-84 (2 m) was just bad luck, and that the zone is thicker further north. The same thing could be case with the weak mineralization found in the old drillhole 3 NE of DH 1-84. (3 m with 0.085% Mos2).

The main thing to note is that there exist a large mineralized zone that is very persevering along strike and can be followed more or less continuously from the area investigated last summer and all the way up to the north side of Grunnevanns-knuten, a distance of about 1500 m.

A part of this zone has shown to contain ore grade minerali-

A part of this zone has shown to contain ore grade mineralizations, that have characteristics in common with both the Knaben II and the Kvina orebodies.

Using a length of 550 m from south of DH 3-84 to north of 1-84, 100 m in east-west directions and an average thickness of about 7 m, this gives an orebody of about 1000000 tons with an average of 0.25% Mos2. Such rich mineralizations has never been found at depth outside the Knaben II ore before.

Apart from the Mos2, a quartz lens is connected to the mineralized zone. It is up to 17 m thick, and may have commercial interest. Suppose that the quartz in DH 2-, 7-, 9- and 10-84 are sections of the same quartz body - there may exist a quartz lens with a longest axis oriented N10 W and plunging about  $7^{\circ}$ S. This fits well with orientation and shape of the quartz in the old Kvina mine. (Tollefsrud, report, 1983). Using an average thickness of 7 m, 250 m length adn a width of 60 m - this gives about 280 000 tons of quartz.

Even if the mineralized zone is found not to be continuous towards north to Grunnevannsknuten, the whole zone is still an interesting target for investigations. The outcropping mineralizations are irregular, and of show lens-like geometry.

Diamong drilling in the Reinshommen area (see "Previous drilling") indicate that this is the case also towards depth: Diamond drilling showed a zone of 23 m with 0.1% Mos2 east of, and on the same structural level as the mined outcropping mineralizations in Reinshommen. In a hole further west, between the outcropping mineralizations and the drillhole zone, no mineralizations were found however. It seems that mineralizations show pitch and swell structures both along strike and dip.

It is concluded that the mineralized zone running from Reinshommen/Ornehommen in the south to Grunnevannsknuten in the north has a potential for hiding large, ore grade mineralizations.

On this structural level rich mineralizations have been found both in Knaben II, in Reinshommen/Ørnehommen and in the Smalvann area.

Diamond drilling should be continued both north of DH 1-84 and south of DH 11-84 - towards Reinshommen.

#### RECOMMENDATION

It is recommended to continue diamond drilling in the area west of Smalvann, to follow up the mineralized zone found last summer. If it is lost, further drilling should be consentrated on finding shallow level mineralizations along the same structural level. If DH 3-85 on Grunnevanns-knuten gives a negative result at shallow level, it should be continued to 200 m to intersect a possible continuation of the lower mineralizations cropping out on Grunnevanns-knuten.

Position of drillholes has to be consecutive evaluated, so the proposal should be considered as a frame for further investigations.

| Locality          | Hole no. | Strike/dip | Length<br>of hole | expected depth<br>of mineralization |
|-------------------|----------|------------|-------------------|-------------------------------------|
| Smalvann:W        | 1-85     | -/90       | 60 m              | 30 m                                |
| " W               | 2-85     | -/90       | 60 m              | 30 m                                |
| Grunnevannsknuten | 3-85     | -/90       | 200 m             | 45 ±10 m                            |
| tt                | 4-85     | -/90       | 80 m              | 50 ±10 m                            |
| Stutedalen E      | 5-85     | -/90       | 200m              | 150 m                               |
| Lilleknaben W     | 6-85     | -/90       | 100m              | 55 ±10                              |
| 11                | 7-85     | -/90       | . 100m            | 50 ±10                              |
| Toltal            |          |            | 800 m             |                                     |

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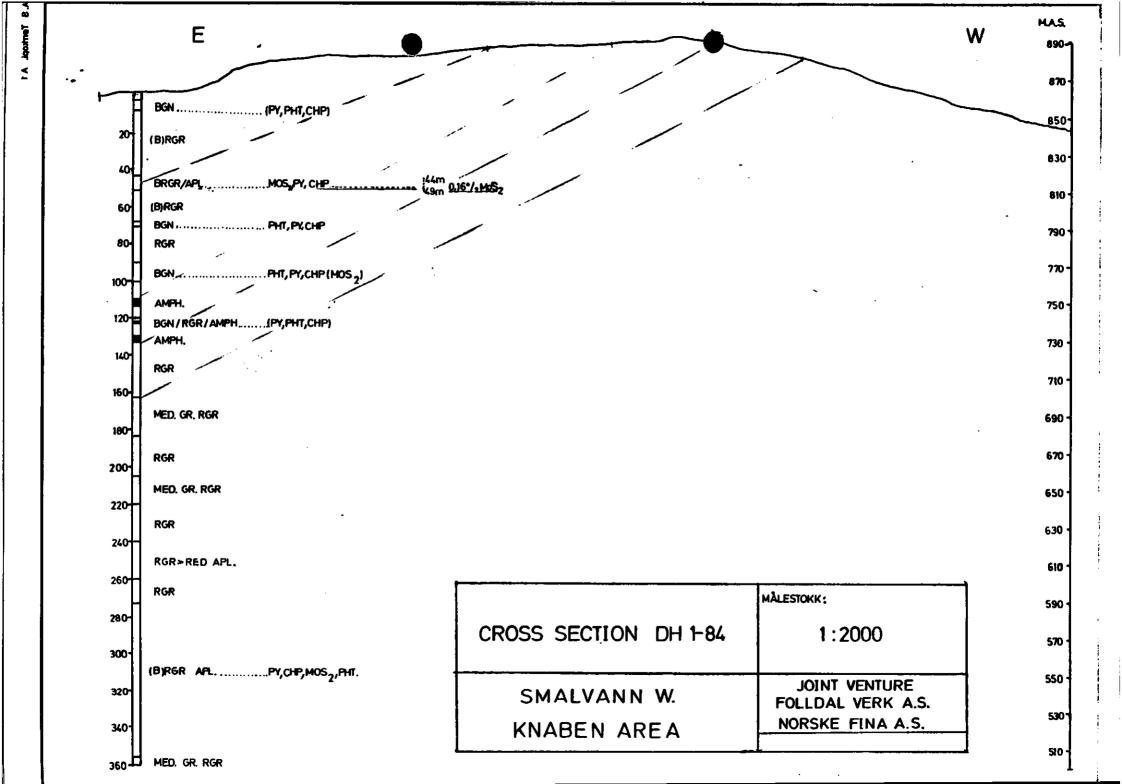
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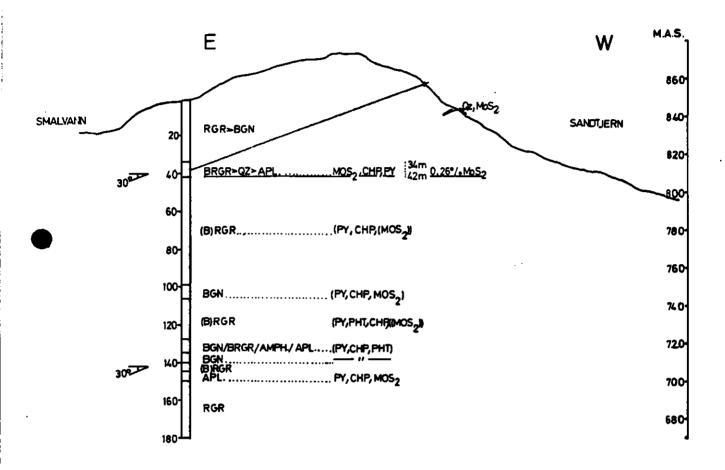
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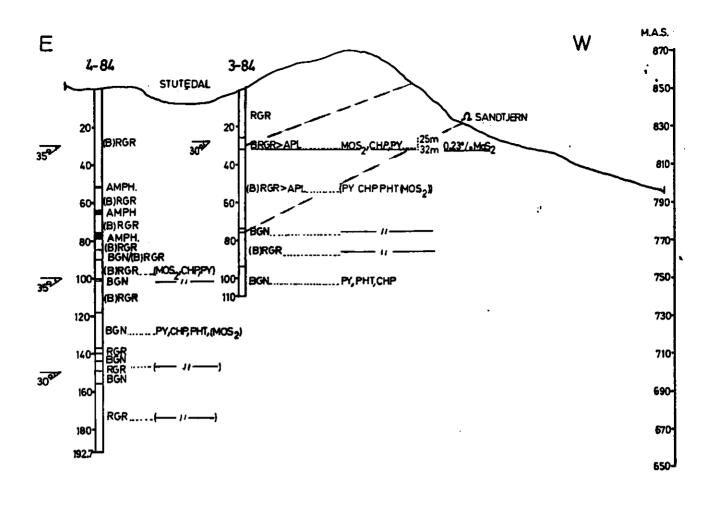
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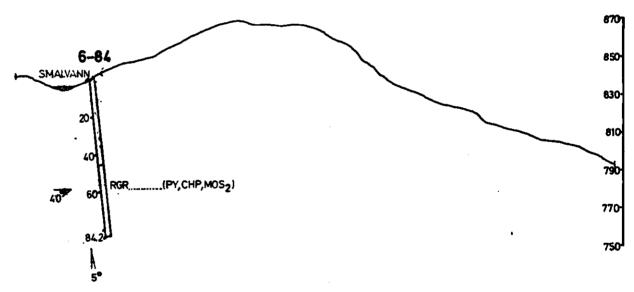
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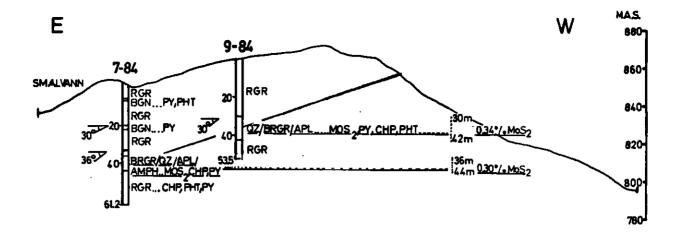


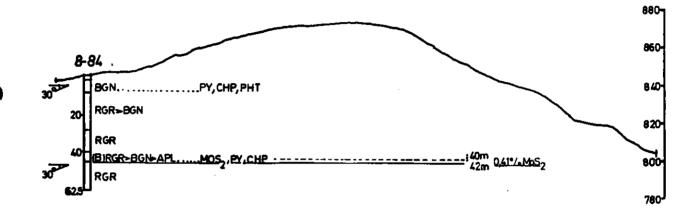
|                            | MÅLESTOKK:   |
|----------------------------|--|
| CROSS SECTION DH 2-84      | 1:2000   |
| SMALVANN W.<br>KNABEN AREA | JOINT VENTURE<br>FOLLDAL VERK A,S.<br>NORSKE FINA A.S. |

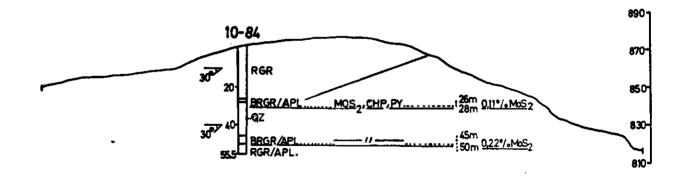




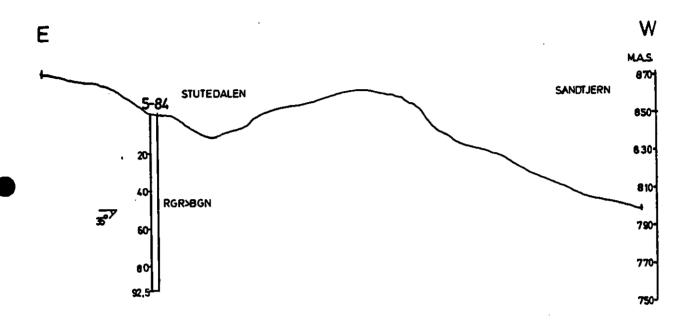
| CROSS SECTION  DH 3-,4-,6-84 | .мålestokk:<br>1 : 2000                                |
|------------------------------|--|
| SMALVANN W.<br>KNABEN AREA   | JOINT VENTURE<br>FOLLDAL VERK A.S.<br>NORSKE FINA A.S. |
| MADEN ANEA                   |  |







| CROSS SECTION      | MÅLESTOKK:                         |
|--------------------|------------------------------------|
| DH 7-,,8-,9-,10-84 | 1:2000                             |
| SMALVANN W         | JOINT VENTURE<br>FOLLDAL VERK A.S. |
| KNABEN AREA        | NORSKE FINA A.S.                   |



| CROSS SECTION  DH 5-,11-84   | мålestokk:<br>1:2000                             |  |
|------------------------------|--|--|
| . SMALVANN W.<br>KNABEN AREA | JOINT VENTURE FOLLDAL VERK A.S. NORSKE FINA A.S. |  |

KVINA GRUVER.

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 1,2

FRA 0 m TIL 15 m

| <b>⊤</b> • | BERGARTSTYDE   | OMVANDLING                            | MINERALISERING   | M. TIL ANALYSE   | KASSE |
|------------|--|---------------------------------------|--|--|-------|
|            |  |                                       |  |  |       |
| 1          |  | • Rusty fractured                     |  |  | -     |
| +          |  | w nusty Tractured                     |  |  |       |
|            | (B)RGR   |                                       |  |  |       |
|            |  | • 11                                  | A - A - A - A - A - A - A - A - A - A -  | and the second s |       |
| <u></u>    |  |                                       |  |  |       |
| <u></u>    | The second secon |                                       |  |  |       |
|            | BGN  |                                       | Traces of py,pht,chp in BG   | :N   | 1/1   |
| be         | -  | · · · · · · · · · · · · · · · · · · · | , p, p, e, e, p  |  | */ 1  |
|            | parties and the same of the sa | • • • • • • • • • • • • • • • •       |  |  | •     |
| 1          |  |                                       |  |  |       |
| 1          |  |                                       |  |  |       |
| †          | (B)RGR   |                                       |  |  |       |
| +          | (b) Nun  |                                       |  |  |       |
| 4          | lOcm apl.  | rusty vertical frac                   |  |  |       |
| Ţ          |  |                                       | •  |  |       |
| †          | <b></b>  |                                       | 1  | رادان متعمل المعادات   |       |
| 1          | (B)RGR   |                                       | •  | <b>`</b>   | 2/1   |
|            |  |                                       | The second secon |  | _     |
| †          |  |                                       | The state of the s |  |       |
|            |  |                                       |  | ,  |       |

DATO: 10.7.84

KVINA GRUVER.

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 2,3

FRA 15 m TIL30 m

| ·<br>    | <b>-</b> , | BERGARTSTYPE | OMVANDLING   | MINERALISERING   | M. TIL ANALYSE   | KASSE 7       |
|----------|------------|--------------|--|--|--|---------------|
|          | 1          |              | ·  |  |  |               |
|          |            | (B)RGR       | rusty fractures  |  |  | 2/1           |
|          | Ţ          |              |  |  |  | 1             |
|          | †          |              |  |  |  | -             |
|          | †          |              |  |  | Control of the street of the street, and the s | .             |
|          | <u></u>    |              |  |  |  | <del>  </del> |
|          | 7          | Grey apl     |  |  |  |               |
|          | +          | (B)RGR       |  | <u>.</u>   |  | _             |
|          | 1          |              | The state of the s |  |  |               |
|          |            |              |  |  |  |               |
|          |            |              |  | 10cm zone w.O,5cm bands<br>w. py, chp, Mos2  |  | 3/1           |
| <u> </u> | 1          |              |  |  |  | 1             |
|          |            |              |  |  |  |               |
|          | †          |              |  |  |  |               |
|          | †          |              | A CONTRACTOR OF THE CONTRACTOR | The second secon |  | -             |
|          | +          |              |  | The state of the s | · ·  |               |
| <u></u>  |            |              |  |  | ·  | 2 5           |

DATO: 10.7.84

8. .

KVINA GRUVER.

JOINT VENTURE FOLLDAL VERK A/S - NO

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 4.5

FRA 30 m TIL 45 m

| ·               |                                       | BERGARTSTYPE        | OMVANDLING   | MINERALISERING                       | M. TIL ANALYSE   | KASSE 1 |
|-----------------|---------------------------------------|---------------------|--|--------------------------------------|--|---------|
| 11              |                                       | (B)RGR<br>grey apl. |  |                                      |  | :       |
|                 | ļ                                     |                     |  |                                      |  |         |
|                 |                                       |                     |  |                                      |  | -       |
| +               |                                       | <b></b>             |  |                                      | for the contract of the contra |         |
| <b>,</b>        | rz.                                   | (B)RGR              |  |                                      |  |         |
| `  <del> </del> | /                                     | 10 cm BGN           | The second secon | py, chp in BGN                       |  | 4/1     |
|                 |                                       |                     |  |                                      |  |         |
|                 |                                       |                     |  |                                      |  |         |
|                 |                                       |                     |  |                                      |  |         |
|                 |                                       | Slices of each      | The company of the co |                                      |  |         |
|                 |                                       | Slices of amph.     |  | chp, py impreg.                      | An a second contract of the second contract o | 5/1     |
|                 | , , , , , , , , , , , , , , , , , , , |                     | weak greenish colour   | traces of Mos2, py, chp              |  |         |
|                 |                                       | 2 cm conc. gz.vein  |  | in rock as spots. Mos2<br>in gz.vein | ррм Мо ррм Си<br>1350 610  |         |

DATO: 10.7.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 5,6

FRA 45 m TIL 60 m

| te | BERGARTSTYPE                                | OMVANDLING                | MINERALISERING                                | M. TIL ANALYSE  | KASSE 1 |
|----|---|---------------------------|---|---|---------|
| 1m | BRGR  |                           |   | ppm Mo ppm Cu.<br>1150 820  |         |
|    | 45cm gz.fsp. rich apl.vein                  | s<br>weak greenish colour | conc.spots of Mos2 and chp<br>in qz.fsp veins | Brown and the second |         |
|    | 45cm " " " " "                              |                           | H II  | 800 380   | 5/1     |
|    | 10cm " " " " "                              |                           | u n   | 580 270   |         |
| 69 |   |                           |   | x: 996 524  | =       |
|    | BRGR w.zone 5-10cm bands<br>of apl. 2 first |                           |   |   |         |
|    |   | •                         |   | <del>.</del>  |         |
|    |   |                           |   |   |         |
|    |   |                           |   | e e e e e e e e e e e e e e e e e e e   |         |
| 7  | BGN   |                           | chp, py in BGN                                | ·   | 6/1     |
|    | <del></del> .                               |                           |   |   |         |
|    |   | •                         |   | <b>.</b>  |         |
| ļ  |   | . <del></del>             |   |   |         |
|    |   | • . • .                   | cm bands w.conc.Mos2,chp,py                   | <b>.</b>  |         |
|    |   |                           |   |   | τ.,     |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 7,8

FRA 60 m TIL 75 m

| <del> </del> | <b>7</b> ↑ | BERGARTSTYPE | OMVANDLING      | MINERALISERING                         | M. TIL ANALYSE                        | KASSE |
|--------------|------------|--------------|-----------------|--|---------------------------------------|-------|
|              | 122        |              |                 |  | · · · · · · · · · · · · · · · · · · · |       |
|              |            |              |                 | ·- · ·                                 |                                       |       |
|              | -          | RGR          |                 |  |                                       | 7/1   |
|              | •          |              |                 |  | <u></u>                               |       |
| *****        |            |              |                 |  | ·                                     |       |
|              |            | BGN          | greenish colour | pht, py (chp)<br>spot w. Mos2 concord. |                                       |       |
|              | •          |              |                 |  | ±                                     |       |
|              |            | RGR          | ·-              | conc. spot Mos2                        |                                       | 8/1   |
|              |            |              |                 |  | ·                                     | ,     |

DATO: 10.7.84

7.7

JOINT VENTURE, FOLLDAL VERK A/S. - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 8,9

FRA 75 m TIL 90 m

| ————        | BERGARTSTYPE | OMVANDLING               | MINERALISERING | M. TIL ANALYSE  | KASSE  |
|-------------|--------------|--------------------------|----------------|---|--------|
| 1 1 1       |              |                          |                |   |        |
|             |              |                          |                | , i <b> </b>  |        |
|             |              |                          |                | ·   |        |
| ].          |              |                          |                | •   | 8/1    |
| <b>+</b>    | RGR          |                          |                |   |        |
|             | •            |                          |                | · · · · · · · · · · · · · · · · · · ·   |        |
|             |              |                          |                |   |        |
| +           |              |                          |                |   |        |
| +           |              |                          | ·              | ter to see a company of the company |        |
| +           |              |                          |                | <del></del>   | 9/1    |
| +           | ·            |                          |                |   |        |
| ال<br>النا• |              |                          |                | , <del></del>   |        |
| l ly        |              |                          |                | •   |        |
| •           | <del></del>  | <u></u>                  |                |   |        |
|             | Pegm.        | greenish colour. ep alt. |                | N. 7  |        |
|             | Pegm.<br>BGN |                          |                | •   | '. T : |

DATO: 10.7.84

S \_ \_ ^

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 6,11

FRA 90 m TIL 105 m

|             | BERGARTSTYPE | OMVANDLING                             | MINERALISERING                             | M. TIL ANALYSE   | KASSE . |
|-------------|--------------|--|--|--|---------|
| 12          | Pegmatite    | greenish colour                        |  |  |         |
|             |              |  | pht, py, Mos2 (traces) chp<br>conc. in BGN |  |         |
| 60°         |              |  |  | ·  | 10/1    |
| 60°         | 8            |  |  |  |         |
|             | · , .        |  |  | e i and an en  |         |
| • • • • • • |              |  |  |  |         |
|             |              |  |  | And the state of t |         |
|             | <del>.</del> |  |  |  |         |
|             | <del></del>  | <b>5</b>                               |  | 79 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -   |         |
|             |              |  |  |  |         |
|             |              | ************************************** |  |  |         |
|             |              | e e e e e e e e e e e e e e e e e e e  | weak imp.of py, pht, chp                   |  | 11/1    |
|             |              | close to vertical frac.                |  |  |         |

DATO:10.7.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 11,12

FRA 105 m TIL120 m

| T+  | BERGARTSTYPE                 | OMVANDLING                   | MINERALISERING                        | M. TIL ANALYSE                          | KASSE            |
|-----|------------------------------|------------------------------|---------------------------------------|---|------------------|
| 1m  | BRCR<br>grey apl.            |                              |                                       |   |                  |
|     | BRGR                         |                              | <u></u>                               |   |                  |
| }   |                              | <del>-</del>                 |                                       |   | 11/1             |
|     | apl<br>medium grained BRGR   |                              | weak imp. of py, chp, pht.            |   |                  |
| 58° |                              | ·                            | 3qz. veins w. chp, Mos2(conc          |   | <u> </u>         |
| 7   | amph.                        | partly altered to glimmerite |                                       | <del></del>                             |                  |
|     | ·                            | perory dicored to grimmeric  |                                       |   |                  |
|     | BGN                          |                              | conc. spot w. pht. chp, py            | •• •• •• •• •• •• •• •• •• •• •• •• ••  |                  |
|     | Bleached medium grained gran |                              | !                                     |   | 12/1             |
|     | BGN<br>                      | -                            | weak imp.of py, chp, pht              | • | Ĭ                |
|     |                              |                              |                                       |   | ļ                |
|     | BRGR                         |                              |                                       |   |                  |
|     |                              |                              | · · · · · · · · · · · · · · · · · · · | <b>,</b>                                |                  |
|     |                              |                              |                                       |   | * * <sub>5</sub> |

DATO: 10.7.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 13.14

FRA 120 m TIL 135 m

| T+    | BERGARTSTYPE             | OMVANDLING                             | MINERALISERING   | M. TIL ANALYSE                             | KASSE        |
|-------|--------------------------|--|--|--|--------------|
| 1m    | Bleached med.gr, granite |  | weak imp. of py, pht, chp  |  |              |
|       |                          |  |  | r <del>descri</del> t instantion of a sign |              |
| 56 V  | BGN                      | ·                                      |  |  |              |
|       | Amph                     | partly altered to glimmerit            | <b>e</b>   |  | 43/1         |
|       | fractured granite ?      |  |  |  |              |
|       | amph                     | n                                      |  | er en  |              |
|       | BRGR                     |  |  | • • • • • • • • • • • • • • • • • • •      |              |
|       | BGN<br>BRGR              | greenish colour                        | conc.imp. Mos2 chp, py in BG   | N  |              |
| - 60° | amph                     | partly alt. to glimmerie               | ·  |  |              |
| V     |                          |  | ·  |  |              |
|       | BGN                      |  |  | · · · · · · · · · · · · · · · · · · ·      | <del> </del> |
|       | Amph.                    | -11                                    | ·  | en e   |              |
|       | BGN                      | greenish colour                        | py, pht, chp conc.imp.in BGN   | 9:<br>'***                                 | 14/1         |
|       | RCR                      | ······································ |  | en e   |              |
|       |                          |  | e service service and a service service and a service service service and a service se | · · · · · · · · · · · · · · · · · · ·      | 3-4          |

DATO: 11.7.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 14.15

FRA 135 m TIL 150 m

| BERGARTSTYPE                          |           | OMVAN DLING                                 | MINERALISERING                 | M. TIL ANALYSE                        | KASSE |
|---------------------------------------|-----------|---|--------------------------------|---------------------------------------|-------|
| 10 cm apl (qz.                        | tsp rich) |   | Mos2, chp in apl (qz-fsp-rich) |                                       |       |
| <b>-</b>                              |           |   |                                | •                                     | 14/1  |
| Andread water of the Colonia diagrams |           |   | •                              |                                       |       |
|                                       |           |   |                                |                                       |       |
| <u> </u>                              |           |   |                                |                                       |       |
|                                       |           |   |                                |                                       |       |
|                                       |           |   |                                |                                       |       |
| RCR                                   |           |   |                                |                                       | 1:    |
| <b>)</b>                              |           |   |                                |                                       |       |
|                                       |           |   |                                |                                       |       |
|                                       |           | · · · · · · · · · · · · · · · · · · ·       |                                | · · · · · · · · · · · · · · · · · · · |       |
|                                       |           |   |                                |                                       |       |
|                                       |           |   |                                | *                                     |       |
|                                       |           | e ordinante de                              |                                |                                       |       |
|                                       |           | eren er | •                              |                                       |       |
|                                       |           |   |                                |                                       | [ · . |

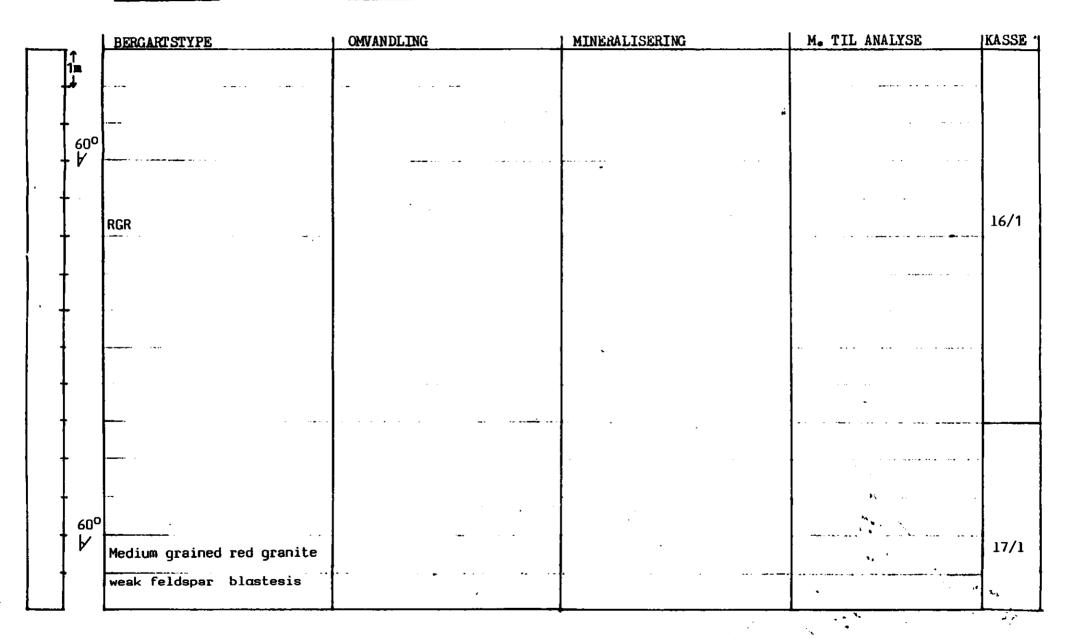
DATO: 11.10.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 16.17

FRA 150 m TIL 165 m



DATO: 11/10.84

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KVINA GRUVER.

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84 KASSER NR.: 17, 18

FRA 165 m TIL 180 m

| <u> </u> | <b>1</b>        | BERGARTSTYPE                            | OMVANDLING   | MINERALISERING | M. TIL ANALYSE   | KASSE |
|----------|-----------------|---|--|----------------|--|-------|
|          | in<br>J         | *************************************** |  |                |  |       |
|          |                 |   | ·  |                | The second secon |       |
|          |                 | inhomogen red granite, med.             | •  |                |  | 17/1  |
| 1. T     | •               | grained as above                        | e e e e e e e e e e e e e e e e e e e  | 3 .            |  |       |
|          |                 |   |  |                |  |       |
|          |                 | ····                                    |  | i              |  |       |
| 1 †      |                 |   | ·  | ·              | to a state of a con-   |       |
| 1 +      |                 | · .                                     |  |                |  |       |
|          |                 |   |  |                | the control of the second of the control of the second of  |       |
|          |                 | <del></del>                             | ·  | •              | * * .  |       |
| 1 1      |                 | ····                                    | the second secon |                |  |       |
|          |                 | Less dark minerals                      |  | •              |  | 18/1  |
| 1        |                 |   | ·  |                |  |       |
|          | 62 <sup>0</sup> |   | •  |                |  |       |
|          | Ÿ.              |   |  |                | No. 1  |       |
|          |                 | RGR                                     |  | •              |  |       |
|          | •               |   |  |                |  |       |

DATO: 11.10.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 19,20

FRA 180 m TIL 195 m

|    | BERGARTSTYPE                            | OMVANDLING   | MINERALISERING | M. TIL ANALYSE   | KASSE |
|----|---|--|----------------|--|-------|
| 1m | •                                       |  |                |  |       |
|    |   | to the second se |                | and the second s |       |
|    |   |  |                | ···· · · · · · · · · · · · · · · · · ·   | 19/1  |
|    |   |  | *              | · · •  | 17/1  |
|    |   |  |                | -  |       |
|    | RGR                                     |  | 1              | A company of the second |       |
|    |   |  | ·              | to the second se |       |
| Ī  |   |  |                |  |       |
| 1  |   |  |                | Mark Committee of the C |       |
| †  | *************************************** |  |                |  |       |
| †  | ·                                       |  |                | · · · · · · · · · · · · · · · · · · ·  |       |
| †  |   |  | •              |  | 20/1  |
| †  |   |  |                | <b>.</b><br>•  | -0, - |
| †  |   |  |                | en e   |       |
| +  |   | · · · · · · · · · · · · · · · · · · ·  | •              | 7, 1   |       |
|    |   |  |                | •  | 1.3%  |

ξ', **y**'

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 20,21

FRA 195 m TIL 210 m

| 1   | ↑ BERGARTSTYPE                          | OMVANDLING                            | MINERALISERING | M. TIL ANALYSE | [KASSE |
|-----|---|---------------------------------------|----------------|----------------|--------|
| 1 1 | im                                      |                                       |                | ·              |        |
|     | 600                                     |                                       |                |                |        |
|     | <b>V</b>                                |                                       |                |                |        |
| 1 1 |   | ·                                     |                |                | 20/1   |
| 1   | BGR                                     |                                       |                |                |        |
| ! † | .~.                                     | ····                                  | i              |                |        |
|     |   |                                       | ·              |                |        |
| 1 + |   |                                       |                |                |        |
|     |   |                                       |                |                |        |
|     | •···· · · · · · · · · · · · · · · · · · |                                       |                |                |        |
| m   |   | · · · · · · · · · · · · · · · · · · · |                |                |        |
|     | <b></b>                                 |                                       |                |                |        |
| 1 1 | med.granined red gran                   | nite                                  |                | 35             | 21/1   |
|     | ·                                       |                                       |                |                |        |
|     |   |                                       |                | No. 1          | -      |
|     |   |                                       | ·              |                |        |

3 - 7 -

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 22,23

FRA 210 m TIL 225 m

|         | BERGARTSTYPE   | OMVANDLING   | MINERALISERING                        | M. TIL ANALYSE   | KASSE |
|---------|--|--|---------------------------------------|--|-------|
| 1m<br>↓ |  |  |                                       |  |       |
|         | The second secon | Contract of the Contract of th |                                       | and the second s | -     |
| 1       |  |  | · · · · · · · · · · · · · · · · · · · | ·••  |       |
|         |  |  |                                       |  |       |
| +       | Med. grained RGR   |  |                                       |  | 22/1  |
|         |  |  | :                                     |  |       |
|         | ,  |  |                                       | · • · · · · · · · · · · · · · · · · · ·  |       |
|         |  |  |                                       | to the same of   |       |
|         | **************************************   | · · · · · · · · · · · · · · · · · · ·  | •                                     |  |       |
|         | <del></del>  |  |                                       |  |       |
|         | RGR  | es m <sup>*</sup> e e e e  |                                       | g e e e e e e e e e e e e e e e e e e e  |       |
|         |  |  |                                       | And the second s | 23/1  |
| 62°     |  | - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1  |                                       | 3, 1   | l     |
|         |  | ]  |                                       | •  | * x,  |

DATO: 23.7.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 23-24

PRA 225 m TIL 240 m

| BERGARTSTYPE   | OMVANDLING  | MINERALISERING                          | M. TIL ANALYSE   | KASS |
|--|---|---|--|------|
| · ·  |   |   |  |      |
| <u> </u>   | Transport (18 ) and (18 ) | <b> </b> .                              | t and the second control of the second contr |      |
|  |   |   |  |      |
|  | •   |   | •  | 23/  |
|  | ··· — · · · · · · · · · · · · · · · · ·   |   |  |      |
| ·  |   |   |  |      |
| RGR  |   |   |  |      |
| •••  |   |   | to the first and areas area for what and the designation of the contract of th |      |
| • •  |   | ,                                       |  |      |
|  |   |   | C. C. Bolo Weller van g. g   | •    |
|  |   |   |  |      |
|  |   |   |  |      |
|  |   |   | ATT TO BE SEEMED IN CO. ST. CO |      |
| terminates and the second seco | · · · · · · · · · · · · · · · · · · ·   |   |  | 24/  |
|  |   | ·                                       |  | 1    |
|  |   |   | t to the term of t | ·    |
|  |   | •                                       | 7  |      |
|  | 1   |   |  |      |
|  |   |   | •  |      |
|  |   | · · ·                                   | Andrew Comments and the second of the second |      |
| 30 cm red aplite   |   | •                                       | x, '   |      |
| 5 cm red aplite  |   | • |  | -    |
|  | <u> </u>  |   |  | T 4. |

DATO: 25.7.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 25,26

FRA 240 m TIL 255 m

| BERGARTSTYPE   | OMVAN DLING  | MINERALISERING | <del></del> | M. TIL ANALYSE   | KASS  |
|----------------|--|----------------|-------------|--|-------|
|                |  | 1              |             |  |       |
|                | ···  |                |             | The second of th |       |
| RGR            |  |                | ٠.          |  |       |
|                |  |                |             |  | ļ     |
| 5 cm red apl.  |  |                |             |  | ļ     |
| 10 cm red apl. |  | •              |             | •  | 1     |
|                |  |                |             |  |       |
| Red apl.       | red apl. greenish coloured   |                |             |  |       |
| ·              | red apl. greenish coloured in 5-10cm thick zones   |                |             | e e e e e e e e e e e e e e e e e e e  | 25/   |
|                |  |                |             |  |       |
|                |  |                |             |  |       |
|                |  |                |             |  | 1     |
|                |  |                |             |  |       |
| DOD            | i di   |                | -           | THE PROOF COMMENTS OF STREET   |       |
| RGR            |  | ·              |             |  |       |
| 25 cm red apl. | *  | -              |             | en e e   | :     |
| <del></del>    | A STATE OF THE STA |                |             |  |       |
|                |  |                |             | and the second of  |       |
|                |  | -              |             | the second secon |       |
| RGR            |  |                |             |  | 26/   |
|                |  |                | ı           | <b>)</b> • • • • • • • • • • • • • • • • • • •   |       |
|                | ·  | .]             |             |  |       |
|                | 1  | ·              |             |  |       |
|                | er e   |                |             | The state of the second | 1     |
|                |  |                |             | •  | 1. A. |

DATO: 31.8.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 26,27

FRA 255 m TIL 270 m

|                 | BERGARTSTYPE                          | OMVANDLING                                | MINERALISERING | M. TIL ANALYSE   | KASSE    |
|-----------------|---------------------------------------|---|----------------|--|----------|
| 12              | 40 cm red aplite                      |   |                |  |          |
|                 | RGR                                   | — ·· · · · · · · · · · · · · · · · · ·    | •              |  |          |
| _               | 60 cm red apl.                        |   | ,              |  |          |
| 64 <sup>0</sup> | RGR                                   | 1   |                |  |          |
| IV              |                                       |   |                | ,  | 26/1     |
| -               | l m red aplite                        | ,   |                |  |          |
| 7               | <del></del>                           |   |                | e e e e e e e e e e e e e e e e e e e  | ļ        |
| +               |                                       |   |                |  |          |
|                 | •                                     |   |                |  |          |
|                 |                                       | ·   |                | ·  |          |
| †               | RGR                                   |   |                | reserving to the second of the | 27/1     |
| +               | • ····                                | er en |                |  |          |
|                 |                                       |   |                |  |          |
|                 |                                       |   |                |  |          |
|                 |                                       |   |                | enter a security of the securi |          |
| †               |                                       |   |                | ās ,   |          |
| +               | · · · · · · · · · · · · · · · · · · · |   |                | Company of the Compan |          |
| 1               |                                       |   | ·              | <b>1</b>   |          |
|                 | 1                                     |   |                | errore o residente a servicio de la servicio della  | ι,       |
|                 |                                       |   |                |  | <u> </u> |

DATO: 31/7-84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 28,29

FRA 270 m TIL 285m

|   | t a         | BERGARTSTYPE                          | OMVANDLING                                   | MINERALISERING   | M. TIL ANALYSE | <b>IKASSE</b> |
|---|-------------|---------------------------------------|--|--|----------------|---------------|
|   | 1102<br>-#  | RGR<br>20 cm apl.                     |  |  |                | -             |
|   | •           |                                       |  | <b></b>  |                |               |
|   |             | RGR                                   |  |  |                |               |
|   | -           | · · · · · · · · · · · · · · · · · · · |  | py, chp  | ppm Mo ppm Cu  | []            |
|   | 60°<br>. ∤⁄ | (B)RGR                                | cm. zoneof green colour w.<br>mineralization | conc.diss.of Mos2,chp, py<br>also conc.cm zone w.sulfides                                | 380 430        | 28/           |
|   | •           | grey apl.                             |  | conc.imp.of traces of Mos2,  |                |               |
|   |             |                                       |  |  | 15 440         |               |
| + |             | BRGR                                  |  | weak, conc, imp. of py, chp.   |                | ļ             |
|   |             | <u>-</u>                              |  |  |                | 29/           |
| + |             |                                       |  | conc.diss.of <u>chp</u> , py,traces<br>of Mos2 both in rock and on<br>border to qz.vein. | 25 35          |               |
| + |             |                                       |  |  | No. 1          |               |
|   |             |                                       |  |  | 6 90           | τ,            |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR. 1-84

KASSER NR.: 24.30

FRA 285 m TIL 300 m

| <b>-</b> | BERGARTSTYPE | OMVANDLING                             | MINERALISERING            | M. TIL AN | ALYSE  | KASSI |
|----------|--------------|--|---------------------------|-----------|--|-------|
| 1m       |              | ·                                      |                           | ррт Мо    | ppm Cu   | _     |
| ++       | (B)RGR       | · · · · · · · · · · · · · · · · · · ·  |                           |           | and the same state of a second of  | 1     |
| ₩<br>60° |              |  |                           | 2         | 15   | 29/1  |
| +"       |              | <u> </u>                               |                           |           |  |       |
| †        | RGR ·        |  | traces of chp,py last 5cm |           |  |       |
| Ī        |              |  | weak imp.of chp, py       | 20        | 90   | -     |
| <u></u>  |              |  |                           | -         |  |       |
|          |              |  |                           |           |  |       |
| +        | BRGR         | alternating 15-20cm zone RGR/BRGR      | grains of Mos2            | 8         | 180  | 30/1  |
| †        |              |  |                           |           |  | "     |
| †        |              |  | weak imp.of chp, py       | 20        | 210  |       |
| <b>†</b> |              |  |                           | \$1<br>81 |  |       |
| <b>†</b> |              | · · · · · · · · · · · · · · · · · · ·  | <br> some grains of Mos2  | 34        | and the same of th | -     |
| 1        |              | ······································ |                           | 25.       | 280  |       |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 31.32

FRA 300 m TIL 315 m

| -TA    | BERGARTSTYPE              | OMVANDLING   | MINERALISERING   | M. TIL ANA | LYSE   | <b>JKASSI</b> |
|--------|---------------------------|--|--|------------|--------|---------------|
| 1m<br> |                           |  | disc.zone w. Mos2, py,chp                                | ррт Мо     | ppm Cu |               |
| 200    | BRGR                      | zones 15-60cm transitional to RGR  |  | ·<br>·     |        |               |
| +      |                           |  | conc.traces of chp,py(Mos2)<br>pht in cm bands and diss. | 25         | 200    | 31/1          |
| +      |                           |  |  |            |        |               |
| 700    | <del></del>               |  |  |            |        |               |
| 300    | -                         |  |  | 140        | 230    |               |
| +      |                           |  |  |            |        |               |
|        |                           |  |  |            |        |               |
| -      | arou enlite               | ·  |  | 13         | 95     |               |
|        | grey aplite               |  |  |            |        | -             |
|        |                           |  | cm qz-vein (conc) chp.pht,<br>Mos2                       |            |        |               |
| •      | nnen                      |  | Mos2   | 47         | 500    | 32/           |
|        | BRGR<br>grey apl.<br>BRGR | <b></b>  |  | Sec.       |        |               |
|        | grey apl.                 | to the state of th | · · · · · · · · · · · · · · · · · · ·                    | 20         | 55     | · 1.          |

DATO: 6.8.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 32-33

FRA315 m TIL 330 m

|                    | BERGARTSTYPE                  | OMVANDLING     | MINERALISERING  | M. TIL ANALYSE                             | KASSE '   |
|--------------------|-------------------------------|----------------|---|--|-----------|
| ↑<br>1m<br>⊥       |                               | •              |   | ррт Мо ррт С                               | <u>u_</u> |
|                    | (B)RGR                        |                | <u>,</u>  |  | ***       |
|                    |                               |                |   | 3 25                                       | 32/1      |
|                    |                               | <del></del>    |   | ,  |           |
|                    |                               |                | cm qz-veins Mos2, chp,(py)                              |  |           |
|                    | RGR                           | •              | 2cm qz-veins w.Mos2 some chp<br>also Mos2 conc. in rock | 580 35                                     |           |
|                    | med.grained RGR, few dark min | •              |   | ·  |           |
|                    | grey apl.                     |                |   |  |           |
|                    | med. grained RGR              |                |   | 15 10<br>                                  | 33/1      |
| 7                  | grey apl.                     |                |   | · • • · · · · · · · · · · · · · · · · ·    |           |
| <br>  <del> </del> | RGR (B)                       |                | weak traces of chp.                                     |  |           |
| 56*                | <br> -                        |                | cm.conc. bands w.chp.pht,py<br>Mos2                     | 5 160                                      |           |
| ĮŸ                 |                               | . <del> </del> | " ,   |  |           |
|                    |                               |                |   | No. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. |           |
|                    | grey apl.                     |                | diss. chp, pht, py                                      | 4 150 %                                    |           |

DATO: 6.8.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 34,35

FRA 330 m TIL 345 m

|                  | BERGARTSTYPE   | OMVANDLING                            | MINERALISERING                                | M. TIL ANAI                           | YSE                                      | KASSE    |
|------------------|--|---------------------------------------|---|---------------------------------------|--|----------|
| T<br>Imm.  <br>♣ | Grey apl.  |                                       |   | ррт Мо                                | ppm Cu                                   |          |
| ļ                |  |                                       | , , , , , , , , , , , , , , , , , , ,         |                                       | •  |          |
| -                | The same of the sa |                                       | - <del> </del>                                | 4                                     | 55                                       |          |
|                  | RGR  | ·                                     |   | ·                                     | · · · · · · · · · · · · · · · · · · ·    |          |
| -                | <del></del>  |                                       |   | · · · · · · · · · · · · · · · · · · · | •  |          |
|                  | Grey apl.  | •                                     |   | 3                                     | 20                                       |          |
| -                | BRGR   |                                       | Conc.bands and qz.veins w. chp, Mos2, py(pht) |                                       |  | 34/1     |
|                  | RGR  |                                       | dic. qz.vein w. Mos2 V10 <sup>0</sup>         |                                       |  | <b>1</b> |
| -                |  |                                       |   | 3                                     | 15                                       |          |
| -  -             | Grey apl.  | · · · · · · · · · · · · · · · · · · · | weak diss.of chp, py (Mos2)                   |                                       |  |          |
|                  |  |                                       |   | 3                                     | <b>25</b> .                              | 35/1     |
|                  | RGR  | ••• • • • • • • • • • • • • • • • • • | 5 cm qz.veins w.chp, Mos2<br>in central parts |                                       | S. S |          |
|                  |  | •                                     | dark 0,5 cm band conc. w.<br>Mos2, chp, py    | 6                                     | 20                                       | · 1,     |

DATO: 6.8.84

JIT-83

sign

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 1-84

KASSER NR.: 35,36

FRA 345 m TIL 360 m

| <del></del> . | BERGARTSTYPE            | OMVANDLING  | MINERALISERING  | M. TIL ANA  | LYSE   | KASSE    |
|---------------|-------------------------|---|---|-------------|--|----------|
| ↑<br>1m       |                         |   |   | ррт Мо      | ppm Cu   |          |
| 1             |                         |   |   | <b>.</b>    |  | . [      |
| ł             |                         |   |   | :           |  |          |
| †             |                         |   |   | , ,         |  | 1        |
| 1             | RGR Medium grained      |   |   | 10          | 25   | 35/1     |
|               |                         |   | •   |             |  |          |
| Ť             |                         |   | I ·   |             | •  |          |
|               | •                       | 1   | Weak imp. od chp, py                                    | ļ           |  |          |
| J             |                         |   |   | · · · ·     | radio tras i i i i i i i i i i i i i i i i i i i   |          |
|               | Pink apl                | 5 cm greenish color.zones                           | weak, conc.diss.of py chp,                              | 15          | · · · · <del>· 7</del> 0·· · · · · · · · · · · · · · · · · · ·   |          |
|               | RGR                     |   | ,,,,,,  |             | 70   |          |
| 7             | Pink apl.               |   |   |             |  |          |
| 56°           | RGR                     | 1   | ·   | n.          |  | 1        |
| 7             | BRGR                    | 1   | Conc dies of Mos? obs ov                                |             |  |          |
| t             | RGR                     |   | Conc.diss.of Mos2, chp,py<br>2 cm rich in Mos2 at lower | 660         | 180  |          |
| · <u>l</u>    | NGN .                   | }   | end of altered zone                                     |             |  | 36/1     |
| J             |                         |   |   | x 76        | 124  |          |
| Ŧ             |                         |   |   | ·           | a la guarda de la grada de | }        |
|               | Medium gr. red granite  |   |   |             |  |          |
| †             | Tribulum gr. rod granzo |   |   | <b>3</b> .  |  |          |
| 1             |                         |   | ·   |             |  |          |
|               |                         |   |   | *****       | er er erder i kann i i i i i i i i i i i i i i i i i i   |          |
| +             |                         |   |   |             |  | 1        |
| 1             |                         |   | 1   | •           | `•   | <b>1</b> |
|               | <del></del>             | <del>* - · · · · · · · · · · · · · · · · · · </del> | <del> </del>  | <del></del> | <del>- · · · · · · · · · · · · · · · · · · ·</del>   | +        |

DATO: 11.8.84



JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 2-84

KASSER NR.: 1,2

FRA 0 m TIL 15 m

| <del></del> | <b>7</b>        | BERGARTSTYPE | OMVANDLING                                | MINERALISERING                 | M. TIL ANALYSE                          | KASSE 1 |
|-------------|-----------------|--------------|---|--------------------------------|---|---------|
|             | 1m              |              |   |                                |   |         |
|             |                 | (B)RGR       |   |                                |   |         |
| \<br>\<br>- |                 |              | •   |                                | • • • • • • • • • • • • • • • • • • •   |         |
|             |                 | BGN          |   | cone diss of ny cho obt in     |   | 1.0     |
|             | •               | BRGR         |   | conc.diss.of py,chp,pht in BGN | <del>- 1</del>                          | 1/2     |
|             | 550<br> /       | BGN          | close to vertic fractures<br>altered rock | ч                              |   |         |
|             | •               | (B)RGR       |   |                                |   |         |
|             | 55 <sup>0</sup> |              |   |                                |   |         |
|             |                 | BGN<br>amph. | amph.partly alt.to glimmeri               | some py in BGN<br>t.           | *************************************** | 2/2     |
|             |                 | RGR          | fractured, close to vert.                 |                                | S                                       |         |
| Li          | l               |              |   |                                |   |         |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 2-84

KASSER NR.: 2,3

FRA 15 m TIL 30 m

| <del></del> , | .        | BERGARTSTYPE     | OMVANDLING   | MINERALISERING  | M. TIL ANALYSE   | KASSE 1        |
|---------------|----------|------------------|--|---|--|----------------|
|               |          | RGR              | rusty, vertical fract.   | •   | ·  |                |
|               | <b>'</b> | Grey apl.        |  |   | and the state of t |                |
|               | 56°      | RGR              |  | •   |  |                |
|               |          | BGN (inhomog)    |  | some grains of Mos2 in BGN,<br>else py, (chp) conc.imp. |  | 2/2            |
|               |          | · <del>-</del> · | close to vertc.fract. 84º  |   | . It seems was as a second second  |                |
|               |          | BRGR             |  |   | · ···· · · · · · · · · · · · · · · · ·   |                |
|               |          |                  |  |   |  |                |
|               | 52º      | BGN              |  |   | • • • • • • • • • • • • • • • • • • •  |                |
|               |          | · •··•           |  |   | ·- · · · · ·   |                |
|               | Ì        | BRGR             | ·  |   |  | 3/2            |
| 1 †           | İ        | ·· <b>·</b>      |  |   | <b>)</b> .   |                |
| +             | ł        |                  | News to the control of the control o |   | Commence of the second second  |                |
|               |          |                  | • · · · · · · · · · · · · · · · · · · ·  | •   |  |                |
|               | 1        |                  | -  |   |  | . x.           |
|               | •        |                  |  |   | · · · · · · · · · · · · · · · · · · ·  | <del>└──</del> |

KVINA GRUVER.

JOINT VENTURE, FOLLDAL VERK A/S. - NORSKE FINA A/S

HULL NR.: 2-84

KASSER NR.: 4,5

FRA 30 m TIL 45 m

|                 | BERGARTSTYPE   | OMVANDLING           | MINERALISERING                                | M. TIL ANA       | LYSE   | KASSE |
|-----------------|----------------|----------------------|---|------------------|--------|-------|
| 1               | BRGR           |                      | some py                                       |                  |        |       |
| I\ <i>/</i> T   |                |                      |   | · •• · • • —     |        |       |
| X‡              | qz             |                      | close to vertic.frac.w.<br>minors of fresh py | i                |        |       |
|                 |                | !                    | traces of chp and Mos2 diss.<br>in qz.        | ррт Мо           | ppm Cu |       |
|                 | BRGR           |                      |   | 1000             | 2400   |       |
| X               | Qz.            |                      |   | 870              | 300    | 4/2   |
|                 | mixed qz./BRGR |                      | conc.Mos2,chp,py dissem.in                    | 3900             | 350    |       |
| 60°<br>√        |                |                      | BRGR and qz.                                  | 2300             | 580    |       |
|                 |                | weak greenish colour |   | 2100             | 380    |       |
|                 | BRGR           |                      |   | 350              | 290    |       |
| 62°             |                |                      |   | 720              | 400    |       |
| 62 <sup>0</sup> | ·-             |                      |   | 1250             | 490_   |       |
|                 | grey apl.      |                      | conc.dissem.of Mos2, py,chp<br>and py         | -<br>x: 1561 ··. | 649    | 5/2   |
|                 | (B)RGR         |                      |   | *1               | ,      |       |
|                 |                |                      |   | *                | \<br>\ |       |

DATO: 14.8.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 2-84

KASSER NR.: 5,6

FRA 45 m TIL 60 m

| ·<br>      | T #      | BERGARTSTYPE                           | OMVANDLING                            | MINERALISERING  | M. TIL ANALYSE                           | KASSE 1 |
|------------|----------|--|---------------------------------------|---|--|---------|
|            | 1m       | BRGR                                   |                                       |   |  |         |
|            | .60°     |  |                                       | /= l-2cm zones mineral. dominantly by chp,som Mos2 zones seems to be concord. | · — · · · · · · · · · · · · · · · · · ·  |         |
|            |          |  | · <del></del> <u>-</u>                |   |  | 5/2     |
|            | -        |  |                                       |   |  | <br>    |
| <u> </u>   | _        |  |                                       |   | e e e e e e e e e e e e e e e e e e e    | -       |
|            | •        | (B)RGR                                 |                                       |   |  |         |
|            |          |  |                                       | very weak conc.diss.of chp,<br>py, some grains of Mos2                        | en e |         |
|            |          | ···• • · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · |   |  | 6/2     |
|            | •        |  | · · · · · · · · · · · · · · · · · · · |   | · · · · · · · · · · · · · · · · · · ·    |         |
| ļ <u>†</u> | -        | <u></u> .                              |                                       |   |  |         |
|            | 58°<br>⊮ | -                                      |                                       |   |  |         |
|            |          |  |                                       |   |  |         |
|            |          |  |                                       |   |  | t en    |

DATO: 14.8.84

S: : "

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 2-84

KASSER NR.: 7,8

FRA 60 m TIL 75 m

|             | BERGARTSTYPE   | OMVANDLING   | MINERALISERING   | M. TIL ANALYSE   | KASSE            |
|-------------|--|--|--|--|------------------|
| 1m          |  |  |  |  |                  |
| <b>*</b>    | territoria de la compansión de la compan | <u></u> .  | li .   |  |                  |
| +           |  |  | 1  |  |                  |
|             | (B)RGR   |  |  |  | 7/2              |
| T           |  |  |  | · • • • • • • • • • • • • • • • • • • •  |                  |
| +           | ŀ  |  | very weak often in 0 5cm con                                 | 0  |                  |
| 1           |  |  | very weak,often in 0,5cm cor<br>zones,dissem.of chp,py(Mos2) |  |                  |
| T           |  |  | <b>i</b> i   | en e   | 1                |
| - 58°<br> √ |  | ·  |  |  |                  |
| .   T       | 2  |  |  |  |                  |
|             | 2 cm qz.vein   |  |  | ·  |                  |
|             | 5 cm qz.vein   |  |  | ments of process of parkets at the consequence of t |                  |
| -           | •  | and the second s |  |  |                  |
|             | RGR  |  | <u>.</u> .   |  |                  |
| 1           |  | and the second of the second o |  | · · · · · · · · · · · · · · · · · · ·  | <u> </u>         |
| +           |  |  |  | , kija dak ilijang i   |                  |
|             |  |  | ·  |  |                  |
|             | 20 cm pink aplitt (conc?)  |  |  | ** ···   | 6/2              |
| _           |  |  |  | The same of the sa | <del>(</del> 4/2 |
| 1           | (B)RGR   |  |  |  |                  |
|             |  |  | Traces of chp, py, Mos2                                      |  | i tu.            |
| i           | <del></del>  |  | , 12000 or clip, p,, 11002                                   | •  | . ,              |

DATO: 14.8.84

KVINA GRUVER.

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 2-84

KASSER NR.: 8.9

FRA 75 m TIL 90 m

| <u>ገ</u> ተለበ <sup>0</sup> | BERGARTSTYPE  | OMVANDLING  | MINERALISERING              | M. TIL ANALYSE   | [KASS]            |
|---------------------------|---|---|-----------------------------|--|-------------------|
| 160°<br>1⊞/               |   |   | traces of chp, py, Mos2     |  |                   |
|                           | (B)RGR  |   | [                           | 4  |                   |
|                           | 3 cm qz.vein w. Mos2  |   | Mos2 in qz.vein             |  | 8/2               |
| 1                         |   |   |                             |  |                   |
| -                         | <del></del>   |   |                             |  |                   |
|                           | <del>namen</del> a.   | · · · · · · · · · · · · · · · · · · ·   |                             | The second secon | ·                 |
|                           | •   |   | ·                           |  |                   |
| -                         | (B)RGR  |   |                             |  | 9/2               |
|                           | *   |   |                             | THE THE PERSON AND ADMINISTRATION OF THE PERSON OF THE PER | 1                 |
| •                         | <del>and</del> the state of |   |                             | ······································   |                   |
| 60°                       |   | to the second control of the second control |                             |  |                   |
| •                         |   |   |                             | The second secon |                   |
| .                         | <del></del>   |   |                             |  |                   |
|                           |   | e demons  |                             |  |                   |
|                           |   | en e  |                             | N <sub>1</sub> ··  | 1                 |
| 1                         |   |   | weak conc. miner of py,chp. | The second secon | ļ. <sub>1</sub> . |

DATO: 14.8.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR. : 2-84

KASSER NR.: 10,11

FRA 90 m TIL105 m

| —————————————————————————————————————— | BERGARTSTYPE                           | OMVANDLING   | MINERALISERING                      | M. TIL ANALYSE   | KASSE      |
|--|--|--|-------------------------------------|--|------------|
| 7<br>1<br>1                            |  |  |                                     |  |            |
| +4                                     |  |  |                                     | to the terminal management and the second  |            |
|  |  |  |                                     |  |            |
| Ť                                      | (B)RGR                                 | • • •  |                                     | and the second second  |            |
| +                                      | (B) Hall                               |  |                                     |  |            |
|  |  |  |                                     |  |            |
| Ţ                                      |  |  |                                     |  |            |
| XXX-                                   | pegm.                                  |  |                                     | to the second se | 10/2       |
| 60 <sup>0</sup>                        |  |  |                                     |  | '-         |
| + 1                                    | (B)RGR                                 |  |                                     |  |            |
| +                                      | (B)/ildii                              |  |                                     |  |            |
|  |  | _  |                                     |  |            |
|  | - Michigan de - Agas sancie - 7.       | ÷ ++   |                                     | the contract court and the second  |            |
|  | ······································ |  |                                     |  |            |
|  | BGN                                    |  |                                     |  |            |
|  |  |  |                                     | er e com ne om er ce e e e e e e e e e e e e e e e e e   |            |
|  |  |  |                                     |  |            |
|  | (B)RGR                                 |  |                                     |  |            |
|  | DON                                    |  |                                     | <b>\$</b> 1.   |            |
|  | BGN                                    | ··   |                                     |  | ł          |
|  | 10 cm zone ¥58 <sup>0</sup>            | greenish colour. Disc. young<br>silicu. filled fract. 1150 | chp min.<br>conc. min.py(chp, Mos2) | N  | 11/2       |
|  | 5 cm zone ¥ 50 <sup>0</sup>            |  | -                                   |  | <b>l</b> . |
|  |  |  | si 11 % ti                          |  | i to       |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 2-84

KASSER NR.: 11,12

FRA 105 m TIL 120 m

| amph.  BGN  BRGR  BRGR  BRGR  BRGR  BRGR  BRGR  BRGR  BRGR  BRGR imp.by py,pht,chp veine Few grains of Mos2. Mos2 often alone  Y 7º frac.filled w.fluorite, qz. hostrock alt.w.light glimmer  grey apl.  BRGR  BRG | 11/2 |
|--|------|
| GOO (B)RGR  (B)RGR  (B)RGR  (B)RGR  (B)RGR  (B)RGR  (B)RGR  (C) Few grains of Mos2. Mos2 often alone  (B) Few grains of Mos2. Mos2 often alone  (C) Few grains of Mos2. Mos2 often alone   | 11/2 |
| (B)RGR  V 7º frac.filled w.fluorite, qz. hostrock alt.w.light glimmer  grey apl.   |      |
| BRGR  qz. hostrock alt.w.light glimmer  grey apl.  |      |
|  |      |
|  |      |
|  |      |
| finegrain.glimmer.rich grey gneiss  y  | 12/2 |
| BRGR weak diss.of py,chp,pht, very few grains of Mos2.   |      |
|  | L.,  |

DATO: 15.8.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 2-84

KASSER NR.: 13,14

FRA 120 m TIL 135 m

|         | BERGARTSTYPE                                   | OMVANDLING   | MINERALISERING         | M. TIL ANALYSE   | KASSE    |
|---------|--|--|------------------------|--|----------|
| 1 m.    |  |  |                        |  |          |
| +       |  |  |                        | Control of the Contro | ł        |
| 1       |  |  |                        | <u></u>  |          |
|         |  |  | conc.imp.of py,chp,pht |  |          |
| +       |  | <del></del>  |                        |  |          |
|         | BRGR   |  |                        |  | 13/2     |
| Ť       |  |  | · ·                    |  |          |
| +       | ···-   |  | 1                      | Communication of the second se |          |
| ļ       |  |  |                        |  |          |
| †       |  | • .  |                        | * * ** · · · · · · · · · · · · · · · ·   |          |
| +       |  |  |                        | •••  |          |
|         |  |  |                        |  |          |
|         |  | <del>-</del>   | •                      | Marin Aller Marines Aller Aller State (1994)   |          |
| 58°     | BGN  |  |                        |  |          |
| ¥       | BRGR<br>Amph.                                  |  |                        |  |          |
|         |  |  |                        |  | <u> </u> |
|         | BRGR   |  |                        |  |          |
|         | -Grey apl.<br>BRGR                             |  |                        |  |          |
|         | BGN<br>BRGR ∀17 <sup>0</sup> frac.w.pht,chp,py |  |                        | <b>.</b>   |          |
|         | Amph.  |  |                        | 40,  | 14/2     |
| ∠no     |  | the standard of the standard o | ,                      | The second secon |          |
| 60°     |  | and the same of th | •••                    |  | 1        |
| • • • • | Grey apl.                                      | -<br>-   |                        |  |          |
| البنية  | BGN  |  |                        |  | L        |

DATO: 15.8.84

JOINT VENTURE. FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 2-84

KASSER NR.: 14,15

FRA135 m TIL150 m

|   | BERGARTSTYPE  | OMVANDLING                              | MINERALISERING                                       | M. TIL ANALYSE                          | KASSE '        |
|---|---------------|---|--|---|----------------|
| Į,                                      | :             |   | Close to vertic.frac.mainly w.py BGN miner.as before |   |                |
| • |               |   |  |   |                |
|   | BGN           |   |  |   | 14/2           |
|   | BRG           |   | , <u>.</u>   |   |                |
|   |               |   |  |   |                |
|   | <del></del>   |   |  | • |                |
|   | BRG           | ·                                       |  |   |                |
| •                                       | BGN           |   |  |   |                |
|   | (B)RGR        |   |  |   |                |
|   |               | - · · · · · · · · · · · · · · · · · · · |  |   |                |
|   | <del></del> - |   |  | •                                       |                |
|   | Grey apl.     |   | conc.imp.of chp,Mos2,pht and<br>py in grey apl.      | -                                       |                |
|   | BRGR          |   | py in grey apl.                                      | <del>-</del>                            | 15/2           |
| 60°                                     | Grey apl.     |   |  | 81                                      |                |
| A                                       |               | · · · · · · · · · · · · · · · · · · ·   |  | المراجعة المستسلسات المستسلسات          |                |
|   | RGR           |   | · · · · · · · · · · · · · · · · · · ·                |   | *a.<br>11 *Eug |
|   | Nun           | L                                       |  |   |                |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 2-84

KASSER NR.: 16,17

FRA150 m TIL165 m

| ተ            | BERGARTSTYPE | OMVANDLING   | MINERALISERING   | M. TIL ANALYSE   | [KASSI |
|--------------|--------------|--|--|--|--------|
| T<br>Im<br>J |              | ·  |  |  |        |
| -            | (B)RGR       |  | <u> </u>   |  | -      |
|              |              |  | <b>]</b> .   | "  |        |
|              |              |  |  |  | 16     |
|              |              |  |  |  |        |
|              |              |  |  |  |        |
|              |              |  | ·  |  |        |
|              |              |  |  |  |        |
|              |              |  |  |  |        |
|              | -            |  |  |  |        |
|              |              |  | traces of Mos2 (chp)   | Marin Control of the  |        |
|              |              | · · · · · · · · · · · · · · · · · · ·  | ·  |  | İ      |
|              | <u>i</u>     |  |  | · · · · · · · · · · · · · · · · · · ·  |        |
|              |              | <del>-</del>   |  | The second secon |        |
|              |              |  |  |  | 17/    |
|              | RGR          |  | ,  | 44   |        |
|              |              | Programme and the second of th |  | and the second   | :      |
|              |              |  | The second secon | N <sub>4</sub>   | {      |
|              |              |  |  |  | 1.     |

DATO: 16.8.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 2-84

KASSER NR.: 17.18

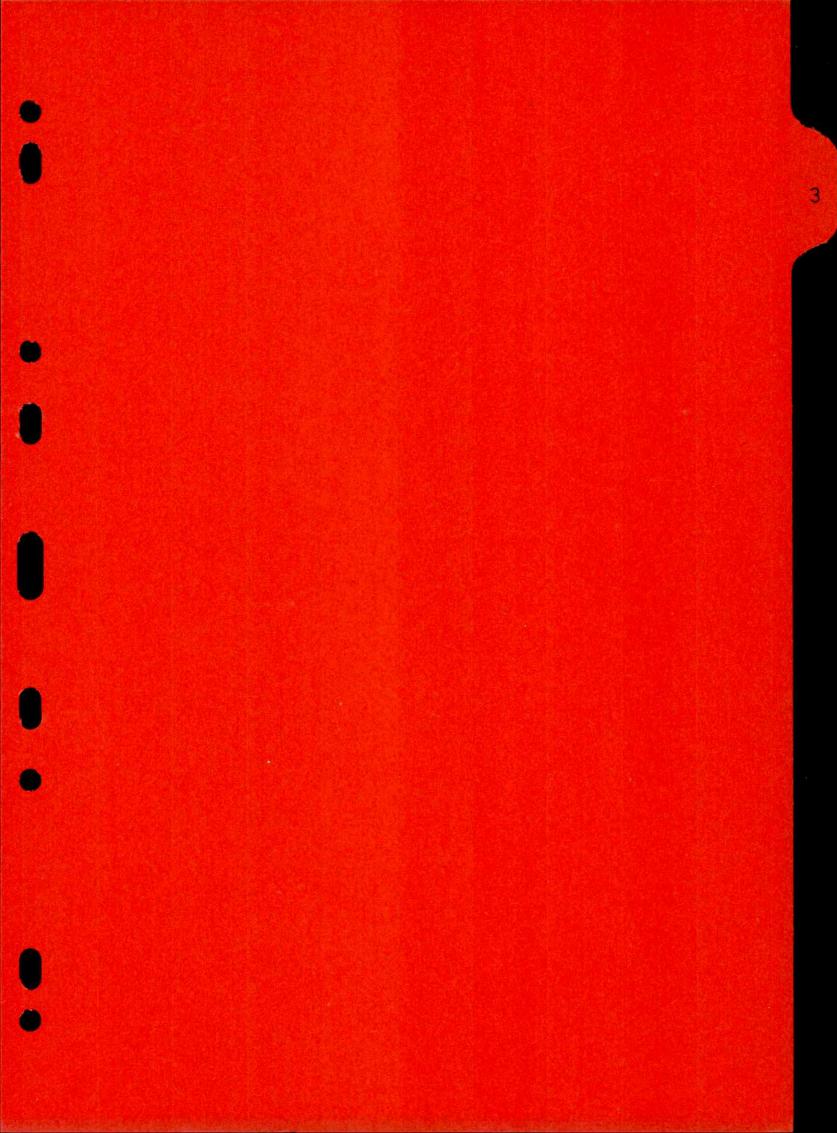
FRA 165 m TIL 180 m

|   |   |     |                          | 17/2         |
|---|---|-----|--------------------------|--------------|
|   |   |     |                          | 17/2         |
|   |   |     |                          | 17/          |
|   |   |     |                          |              |
|   |   |     |                          |              |
| •                                       |   |     |                          | ļ            |
|   |   |     |                          |              |
|   | · <del>-</del> - ·  |     |                          | 18/          |
| • | · · · · · · · · · · · · · · · · · · ·   |     |                          |              |
|   | · · · · · · · · · · · · · · · · · · ·   |     | e open voerboere and one |              |
|   |   |     |                          |              |
|   | to the second second second second second second second second second second second second second second second |     |                          | **<br>** *** |
|   |   | ••• |                          |              |

DATO:

JIT-83

31...



KVINA GRUVER.

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 3-84

KASSER NR.: 1,2

FRA 0 m TIL15 m

|            | BERGARTSTYPE              | OMVANDLING   | MINERALISERING                   | M. TIL ANALYSE   | KASSE    |
|------------|---------------------------|--|----------------------------------|--|----------|
| 1          |                           | rusty  |                                  |  |          |
|            | RGR                       | crushed zones  |                                  |  |          |
| †          |                           |  |                                  |  | }        |
| +          |                           | <u> </u>   |                                  |  |          |
| 1          |                           |  |                                  |  |          |
|            |                           |  | 5cm zone w.pv.chp.grains of      |  | 1/3      |
| †          |                           |  | 5cm zone w.py,chp,grains of Mos2 | e e e e e e e e e e e e e e e e e e e  |          |
|            |                           | <u> </u>   |                                  | * - * - * ********   |          |
| 1          |                           |  | Mos2,conc.2cm dissimination      |  |          |
|            |                           | <br>   | ,                                |  |          |
| 1          | 0000                      | (rust)   |                                  | en en en en en en en en en en en en en e   |          |
|            | BRGR<br>Grey apl.<br>BRGR |  |                                  |  |          |
| 1          | · ·                       |  |                                  |  | <u> </u> |
| ₩<br> <br> | BGN                       |  |                                  |  |          |
|            |                           |  |                                  |  |          |
| 7          | RGR                       |  | •                                | <b>3</b> 4   | 1        |
| 1          |                           |  |                                  | and the same of th | 2/       |
|            |                           |  | ,                                | · ·  |          |
| 1          |                           | The state of the s |                                  |  | ١,       |
|            |                           |  |                                  |  |          |

DATO: 21.8.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 3\_84

KASSER NR.: 2.3

FRA 15 m TIL 30 m

| <u></u> | BERGARTSTYPE                              | OMVANDLING                            | MINERALISERING   | M. TIL ANALYSE                         | KASSI |
|---------|---|---------------------------------------|--|--|-------|
| 1m      |   |                                       |  | 11 11 11 11 11 11 11 11 11 11 11 11 11 |       |
| +       | BRGR                                      |                                       |  |  | 2/3   |
| Ī       |   |                                       |  |  |       |
|         |   |                                       |  |  |       |
| 1       | · · · · · · · · · · · · · · · · · · ·     |                                       |  | · · · · · · · · · · · · · · · · · · ·  |       |
| +       | RGR                                       |                                       |  |  |       |
|         |   |                                       |  |  | 3/3   |
| 62°     | (B)RGR                                    | e e e e e e e e e e e e e e e e e e e |  | ppm Moppm Cu                           |       |
|         | BRGR<br>20cm qz.vein<br>—grey apl. (12cm) | greenish colour                       | Mos2,chp,py in qz. 2 frac.<br>filled w. chp \( \frac \) 16°      | 1550 3400                              |       |
| 56°     | BRGR                                      |                                       | Mos2 imp. in apl.  | 2200 1600                              | .}    |
| 56°     |   | · <u></u> .                           | Qz.veins dom.by chp,py,Mos2 imp. in BRGR.Veins seems concordant. | 1300 1900<br>2400 1500                 |       |
| 2       | Grey apl.                                 |                                       | conc.imp.of Mos2,chp,py in apl.                                  | 690 720                                | 1. 1. |

DATO: 21.8.84

JIT-83

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 3-84

KASSER NR.: 4,5

FRA 30 m TIL 45 m

| State of the state | BERGARTSTYPE    | OMVAN DLING                              | MINERALISERING                                | M. TIL ANALYSE   | KASSE ' |
|--|-----------------|--|---|--|---------|
|  | 15 cm grey apl. |  |   | _ppm Moppm Cu  |         |
| _#   |                 |  | Mos2 in qz. and BRGR                          | 820 150  |         |
| -  | BRGR w.qz.veins | 1  |   |  |         |
| - †  |                 |  | 1   | 120 130  |         |
| 크  |                 |  | Ţi  | x <u>:1373</u> 1361  |         |
| T  | (5)555          |  |   | · · · · · · · · · · · ·  | 4/3     |
| +  | (B)RGR          |  |   |  |         |
|  | ·               | 1  |   |  |         |
| † _  |                 |  | 1   |  |         |
| 64 <sup>0</sup>  | conc. grey apl. |  |   |  |         |
| <b>-</b>   | BRGR            | •  | conc. 4 mm zones w.chp and                    |  |         |
| <b>↓</b>   | Conc.grey apl.  |  | py in apl. 68 <sup>0</sup>                    |  | }       |
|  |                 |  | ·   |  |         |
| 1  |                 |  |   | organis and company of the company o |         |
|  |                 |  |   |  |         |
| † †  |                 |  | <b>·</b>                                      |  |         |
|  | Grey apl.       |  | some grains fo Mos2 in apl.                   |  |         |
|  |                 |  | i e   | Marie Marie Carlos de la Carlo de Carlos de Ca |         |
| _  | <del></del> .   | en en en en en en en en en en en en en e |   |  | ļ       |
|  |                 |  |   |  |         |
| <del>-</del>   | BRGR            |  | ı   | <b>8</b> 5   |         |
| -  | ·               |  | conc.1-2cm zones w.chp,py                     | and the second   |         |
| 1  |                 | - <del> </del>                           | few grains of Mos2. Weak import of chp and py |  | 5/3     |
| ·  |                 |  | or crip and py                                | <b>*,</b> *  | ] "     |
|  | Grey apl.       | •  | · · · · · · · · · · · · · · · · · · ·         | م <u>ا مستحدی</u> می در می می می می می میده در می درست دست در درمه در درد.<br>اور در   | 1. 1    |
| 33   |                 | •  |   |  |         |

DATO: 22.8.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 3-84

KASSER NR.: 5,6

FRA 45 m TIL 60 m

|        | BERGARTSTYPE                    | OMVANDLING                            | MINERALISERING  | M. TIL ANALYSE | KASSE 1 |
|--------|---------------------------------|---------------------------------------|---|----------------|---------|
| 1 68   | BRGR<br>Grey Apl.               |                                       | on conc.qz.w.Mosz,chp,<br>on border to apl.<br>Grains of Mos2 on border<br>to apl.<br>20cm conc. imp,of Mos2,<br>chp, py        | y              | 5/3     |
|        | Grey apl.<br>BGN<br>BRGR<br>BGN |                                       | weak imp.of chp in BGN increased imp.of.chp in BGN.Weak imp.of py,chp.  |                |         |
|        | (B)RGR                          |                                       |   |                |         |
| ****** | Pegm.<br>(B)RGR                 |                                       | 20cm zone w.conc.imp.of<br>Mos2,chp and py 40°<br>Spot of Mos2 in pegm.ve<br>disc.in tot. 45°(rock),<br>50°(pegm.)+ diff.strike |                | 6/3     |
|        | •                               |                                       | lOcm conc.zone w.imp.of<br>Mos2 also on border to<br>conc. qz.veins.  |                |         |
|        | (B)RGR                          | e e e e e e e e e e e e e e e e e e e | Spread grains of Mos2, some chp, py.  | ***            |         |
|        |                                 |                                       |   |                | Se.     |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 3-84

KASSER NR.: 7,8

FRA 60 m TIL 75 m

| <del></del>                             | T.         | BERGARTSTYPE | OMVANDLING                            | MINERALISERING   | M. TIL ANALYSE                        | IKASSE .     |
|---|------------|--------------|---------------------------------------|--|---------------------------------------|--------------|
|   | 1m         | (B)RGR       |                                       |  |                                       |              |
|   | 50°        | Disc.qz. 90° |                                       | Mos2 on border of conc.<br>amd disc.qz. l-2cm thick<br>imp. of grains + chp,py | · · · · · · · · · · · · · · · · · · · | <del>!</del> |
| XXXXX                                   |            | pegm.        | <u></u>                               | cm_qz.vein<br>20cm imp.Mos2 and on<br>contact to 2cm conc.qz.v                 | · · · · · · · · · · · · · · · · · · · | 7/3          |
|   | 50°        | grey apl.    | greenish colour                       | imp.of Mos2,chp,pht,py.<br>Mos2 in and on border of<br>4cm qz.veins            | · · · · · · · · · · · · · · · · · · · |              |
|   |            |              |                                       | weaker impregnation  |                                       |              |
|   | 629<br>. V | (B)RGR       | · · · · · · · · · · · · · · · · · · · |  |                                       |              |
| -                                       |            |              | close to vert.frac:                   |  |                                       |              |
|   | .          | (B)RGR       |                                       | qz.vein w. Mos2 spot   | ā,                                    | 8/3          |
|   |            |              |                                       |  |                                       |              |
| • | 62°        | BGN          |                                       | conc.imp.of pht,Mos2,cho<br>and py in BGN.Most pht<br>top of zone.             |                                       | ١,           |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 3-84

KASSER NR.: 8.9

FRA 75 m TIL 90 m

|           |              | BERGARTSTYPE   | OMVANDLING   | MINERALISERING   | M. TIL ANALYSE   | (KASSE |
|-----------|--------------|--|--|--|--|--------|
|           | ↑<br>1m<br>↓ | BGN  | crushed  | mineralized as descr.abo   |  |        |
|           |              |  | fractured  |  | e est differencement of the symmetric of special field of the  |        |
|           |              |  |  |  |  | 8/3    |
|           |              | The same of the sa |  | A Company of the Comp |  |        |
| ,         | -<br>57 °    | <u>.</u>   |  |  |  |        |
|           | -            | · · · · · · · · · · · · · · · · · · ·  | fract., close to vert.fr   | ac. some py on frac.   | ·  |        |
|           | -            | <del></del>  |  |  | e de la chiente de la companya de la |        |
| ·         | _            | (B)RGR   |  |  |  |        |
|           |              |  |  |  | ·  |        |
| 1         |              |  |  | ·  | ridde i i is minderes i person ( per es proposation proposation ).   |        |
| †         | • ,          |  |  |  |  | 9/3    |
| +         | .            |  | to the contract of the contrac |  | en en en en en en en en en en en en en e   |        |
|           | .            |  |  |  |  |        |
|           |              |  | green ep.alt.  |  |  |        |
| • • • • † | ·            | "  |  | ohn discom and in along  | Mark y y and a second  |        |
| 1         | •            | <u></u>  | <b>₩</b> :   | chp dissem.and in close<br>to vert. frac.∀10º.   |  |        |
| +         |              | (B)RGR   | greenish colour  | Some grains of Mos2.   | No. 1  | l      |
|           | 1            |  | ·  | ·  |  | k.     |

DATO: 28.8.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 3-84

KASSER NR.: 10,11

FRA 90 m TIL 105 m

| <del></del> | BERGARTSTYPE              | OMVANDLING                               | MINERALISERING  | M. TIL ANALYSE                          | KASSE |
|-------------|---------------------------|--|---|---|-------|
| 12          | Red,disc.apl. 650         |  | v 40disc.frac.along<br> which pht,py,Mos2(pht)<br> is found.<br> <br> Weak imp.of pht.chp,py" |   |       |
| L/          | Grey apl.<br>BGN<br>Amph. | · · · · · · · · · · · · · · · · ·        |   |   | 10/3  |
|             | BGN w.l-10cm qz.veins     | green ep.alt.<br>fractured<br>!          | some chp miner.along frac.  | · · · · · · · · · · · · · · · · · · ·   |       |
|             | amph<br>grey apl.         | -  |   |   |       |
|             |                           | en en en en en en en en en en en en en e |   | · · · • · · · · · · · · · · · · · · · · |       |
|             | BGN                       | greenish alt.                            | pht.,chp,py disseminated  |   |       |
| 57'         | **                        | n  | 11 11   |   | 11/3  |
| \$1°        |                           | 11 H                                     | it 11   |   | . s., |

DATO:3.9.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 3-84

KASSER NR.: 11

FRA105 m TIL110 m

| BERGARTSTYPE   | OMVANDLING                            | MINERALISERING | M. TIL ANALYSE                          | KA          |
|----------------|---------------------------------------|----------------|---|-------------|
|                |                                       |                |   |             |
|                |                                       | ni.            |   | 1           |
|                | <del>-</del>                          |                |   |             |
|                |                                       |                |   |             |
| · <del></del>  |                                       | •              |   |             |
|                |                                       |                |   |             |
|                |                                       |                |   |             |
|                | · · · · · · · · · · · · · · · · · ·   |                |   |             |
|                |                                       |                |   |             |
|                |                                       |                | r e e e e e e e e e e e e e e e e e e e | -           |
| <del>_</del> . |                                       |                | · • • •                                 |             |
|                |                                       |                | •                                       |             |
| ·              |                                       |                |   |             |
|                | · · · · · · · · · · · · · · · · · · · |                | No. 1                                   | <b>∮</b> ., |

DATO: 3.9.84

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JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 4-84

KASSER NR.:1,2

FRA 0 m TIL 15 m

|             | BERGARTSTYPE   | OMVANDLING                            | MINERALISERING | M. TIL ANALYSE   | KASSE       |
|-------------|--|---------------------------------------|----------------|--|-------------|
|             |  |                                       |                |  |             |
|             | The state of the s | shear                                 | ļ.             | the control of the second of t |             |
| 540         |  | H                                     |                | ••• • • • • • • • • • • • • • • • • •  | 1/4         |
| <b>├</b> ┼∤ |  |                                       | •              |  |             |
|             |  |                                       |                |  |             |
|             |  |                                       |                |  |             |
|             | (B)RGR   |                                       |                |  |             |
|             |  |                                       |                |  |             |
|             |  | :                                     |                |  |             |
| 1           |  |                                       |                | The state of the control of the cont |             |
| †           |  |                                       |                |  |             |
| +           | ·  |                                       |                | · · · · · · · · · · · · · · · · · · ·  |             |
| +           |  |                                       | •              |  |             |
|             | RGR  |                                       |                | _  | 2/4         |
|             | · · · · · · · · · · · · · · · · · · ·  |                                       |                |  |             |
|             |  | crushed,close to vert.frac            |                | errore and the second s |             |
| 1           |  | · · · · · · · · · · · · · · · · · · · | •              |  | ٠<br>١<br>١ |
|             |  | 11                                    |                |  | 40          |

DATO: 4.9.84

si;

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 4-84

KASSER NR.: 2,3

FRA 15 m TIL 30 m

|                | !        | BERGARTSTYPE  | OMVANDLING   | MINERALISERING                           | M. TIL ANALYSE   | KASSE . |
|----------------|----------|---------------|--|--|--|---------|
| <del> </del> 4 | 550<br>/ | (B)RGR        | close to vertica.frac.   |  |  | 2/4     |
|                |          |               |  |  |  |         |
|                |          | (B)RGR        | crushed  | • <i>•</i>                               | The second of th |         |
|                |          | BGN           | " ,close to vert.frac.   | <br>•                                    | ••• · · · · · · · · · · · · · · · · · ·  | - /:    |
|                | 550<br>V | (B)RGR<br>BGN | rusty frac.  | -  | · · · · · · · · · · · · · · · · · · ·  | 3/4     |
|                |          | (B)RGR        | · · · · · · · · · · · · · · · · · · ·  |  |  |         |
|                |          |               | The second secon | en en en en en en en en en en en en en e | 7  |         |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.:4-84

KASSER NR.: 4,5

FRA 30 m TIL 45 m

|                 | BERGARTSTYPE  | OMVAN DLING  | MINERALISERING                         | M. TIL ANALYSE                        | [KASSE   |
|-----------------|---------------|--|--|---------------------------------------|----------|
| 1m              |               |  |  |                                       |          |
|                 |               |  |  |                                       |          |
| 56<br>7         | RGR           | crushed,close to vert.frac.  | ······································ |                                       | 4/4      |
|                 | . <del></del> | <u></u> .  |  | e e e e e e e e e e e e e e e e e e e |          |
|                 |               |  |  |                                       | <br>     |
|                 |               |  |  |                                       |          |
|                 |               |  | •                                      |                                       |          |
| 1               |               | · • · · · · · · · · · · · · · · · · · ·  |  |                                       |          |
|                 |               | , , , ,  |  | •                                     |          |
| 56 <sup>0</sup> | RGR           | fract.   |  |                                       | 5/4      |
|                 | (B)RGR        | in the Committee of the |  | 72                                    | <b>.</b> |

DATO: 4.9.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 4-84

KASSER NR.: 5,6

FRA 45 m TIL 60 m

| <del></del> | BERGARTSTYPE | OMVANDLING           | MINERALISERING | M. TIL ANALYSE   | KASSE      |
|-------------|--------------|----------------------|----------------|--|------------|
| 1122        |              |                      |                |  |            |
| †*          | (B)RGR       |                      | · ·            |  | -          |
| +           | (B) NGR      |                      |                | <u>.</u>   |            |
|             |              | fract.,crushed       |                |  | 5/4        |
|             |              |                      |                |  |            |
| -           | amph.        | alt. to clorite      |                |  |            |
| <b>-</b>    | · <b></b>    | ·····                |                | The second second second second second second second second second second second second second second second se  |            |
|             | (B)RGR       |                      |                |  |            |
|             |              |                      |                | State of the second of the sec |            |
| •           | amph.        | frac.,crushed        |                |  |            |
|             | (B)RGR       |                      |                |  |            |
|             | (B)RGR       | orange alt. fsp.     | •              |  | 1          |
| † ′         |              |                      |                |  |            |
| 1           |              | " "                  | 1              |  | 6/4        |
|             |              | 11                   | 1              | Mark Committee of the C | 1          |
| †           |              |                      |                | <b></b>  |            |
| ļ           |              | ·                    |                |  |            |
| •-          |              | epid .alt.fsp fract. |                |  |            |
| 1           | -            |                      |                | and the state of t |            |
| <u>.</u>    | amph:        |                      |                | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \  | ]          |
|             | (B)RGR       | frac.crushed         |                | . 12   | <b>I</b> . |

DATO: 4.9.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 4-84

KASSER NR.: 7.8

FRA 60 m TIL 75 m

| 7↑      | BERGARTSTYPE (B)RGR | OMVANDLING                            | MINERALISERING                        | M. TIL ANALYSE                        | KASS |
|---------|---------------------|---------------------------------------|---------------------------------------|---------------------------------------|------|
| 1m<br>→ |                     | orange fsp. alter.                    |                                       |                                       |      |
|         | <u>-</u>            |                                       | <b>4</b>                              | e e e                                 |      |
| +       | (B)RGR              |                                       | <u></u>                               |                                       | 7/4  |
| +       | amah                | •                                     |                                       |                                       |      |
| -       | amph.               |                                       |                                       |                                       |      |
| 55°     | (B)RGR              |                                       |                                       |                                       |      |
| +⊬      | -                   |                                       |                                       |                                       |      |
| †       |                     |                                       |                                       | ··· · · · · · · · · · · · · · · · · · |      |
|         |                     |                                       | ·                                     | · · · · · ·                           |      |
|         |                     |                                       |                                       |                                       |      |
|         | (B)RGR              |                                       |                                       | •                                     | 8/   |
|         |                     | e e e e e e e e e e e e e e e e e e e |                                       |                                       |      |
|         |                     |                                       | · · · · · · · · · · · · · · · · · · · | <u> </u>                              |      |
|         |                     |                                       |                                       |                                       | 3    |

DATO: 5.9.84

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JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 4-84

KASSER NR.: 8,9

FRA 75 m TIL 90 m

|       | BERGARTSTYPE  | OMVAN DLING         | MINERALISERING                        | M. TIL ANALYSE   | KASSE . |
|-------|---------------|---------------------|---------------------------------------|--|---------|
| 1 55° | (B)RGR        | orange alt- of fsp. |                                       |  |         |
|       | amph.         | epid. chl. alt.     |                                       |  | 8/4     |
|       | (B)RGR        | orange alt. of fsp. | grain of Mos2.                        |  |         |
|       | •             |                     | . 11 11                               | ·  | ;       |
|       | (B)RGR        |                     | • • •                                 |  |         |
|       | ·             |                     | weak conc. imp.of chp<br>spot of Mos2 |  |         |
|       | — BGN         |                     | weak conc. imp. of chp.               |  | 9/4     |
|       | (B)RGR        | some ep.alt.        |                                       | •  |         |
| 55°   | BGN (B)RGR    |                     |                                       | The state of the s |         |
|       | BGN<br>(B)RGR |                     | grain of Mos2                         | 72   |         |

. . .

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 4-84

KASSER NR.: 10.11

FRA 90 m TIL 105 m

|     |          |                                       |   |  | l <b></b>  |         |
|-----|----------|---------------------------------------|---|--|--|---------|
|     | T↑       | BERGARTSTYPE                          | OMVANDLING                              | MINERALISERING                               | M. TIL ANALYSE   | KASSE 1 |
|     | 1m       |                                       |   |  | ·  |         |
|     | 550      |                                       |   |  | · • · · · · · · · · · · · · · · · · · ·  |         |
|     | 55°      | <del></del> -                         |   |  |  |         |
|     |          |                                       | fract.                                  |  |  | į       |
| ] ' | T i      | (B)RGR                                | ··· • • • • • • • • • • • • • • • • • • | conc. 2cm qz.w. py, chp                      |  | 10/4    |
| ' • | -        | (5)                                   |   | 11 q2:w. py, c.ip                            |  | 10,4    |
| 1   |          |                                       |   | 1  |  |         |
| j.  | <b>T</b> |                                       | · · · · ·                               |  | en en en en en en en en en en en en en e   | 1       |
|     |          |                                       |   | weak imp. of chp, py                         | er errome colonia  | i       |
| 1.  |          |                                       |   |  |  |         |
|     |          |                                       |   | ,  |  | 1 1     |
| \ . | •        |                                       |   |  | The state of the s |         |
|     |          |                                       |   |  |  |         |
| 1   |          | **                                    | · · · · · · · · · · · · · · · · · · ·   |  |  |         |
|     | 0        | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · ·   |  | e e e e e e e e e e e e e e e e e e e  |         |
|     | 55°      | BGN                                   |   | imp. of py,chp,pht +grains<br>of Mos2 in BGN |  |         |
|     |          |                                       | · •                                     | of Mos2 in BGN                               |  | 11/4    |
|     |          |                                       |   |  |  |         |
|     |          | (B)RGR                                | •                                       |  |  |         |
|     |          |                                       | e e e e e e e e e e e e e e e e e e e   | t e e  | in the second second second second second second second second second second second second second second second  |         |
|     |          |                                       |   |  |  |         |
|     |          |                                       |   |  | The Committee of the Committee of the Committee of Commit | 1 1     |
|     |          | <u></u>                               |   |  |  |         |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 4-84

KASSER NR.: 11,12

FRA 105 m TIL 120 m

|             | BERGARTSTYPE | OMVANDLING                                   | MINERALISERING | M. TIL ANALYSE   | KASSE    |
|-------------|--------------|--|----------------|--|----------|
| 1 <u>im</u> | (B)RGR       | ·  |                | . <del>_</del>   | 11/4     |
| †           |              |  |                |  |          |
| †           |              |  |                |  |          |
| †           |              |  |                | ·  |          |
| . †         |              |  |                |  |          |
| <u> </u>    | (B)RGR       |  | ·              | • • • • • • • • • • • • • • • • • • •  |          |
|             |              |  | • • •          |  |          |
| +           |              | <u>-</u>                                     |                |  | <u> </u> |
| +           | <u>.</u>     |  |                |  | 12/4     |
| †           | ··           |  |                |  |          |
|             |              |  |                |  |          |
|             | pink apl.    | partly ep.alt.<br>greenish co., part ep.alt. |                |  |          |
| 58°         | BGN          | groundin cong pare opidie.                   | se next page   | THE WEST STREET, AND THE STREE |          |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 4-84

KASSER NR.: 13,14

FRA120 m TIL135 m

| BE       | RGARTSTYPE   | OMVANDLING   | MINERALISERING               | M. TIL ANALYSE   | KASSE |
|----------|--|--|------------------------------|--|-------|
| j        |  | -  | conc.imp.of py,chp,pht some  |  |       |
| ļ        | •  |  | grains of Mos2 in conc.qz.ve | in   |       |
|          | tre and a substitute of the su |  | py also in close to vert.fra | er e la manufactur franches estados es | 1     |
| BG       | SN   |  | <b>l</b> '                   |  | 1     |
| <u> </u> |  | <u>.</u>   |                              |  | !     |
|          |  |  |                              |  | ł     |
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|          |  | And the same of th |                              | · ·  |       |
| 1        |  |  |                              |  | 13/4  |
| ļ        |  | as described above   | į.                           |  | 12/4  |
| l        |  |  |                              | ·  | l     |
| 1 05     | rey apl.   |  | ]                            |  |       |
| F-9.     | up:  | ****   |                              | the supplementary of the suppl |       |
| ]        | •  |  | 1                            |  | l     |
| 1        |  |  |                              |  |       |
| ľ        |  |  |                              |  | i     |
| l        |  |  |                              |  | l     |
| ŀ        |  |  |                              |  | 1     |
| ١.,      | ***  |  |                              |  |       |
| BG       | iN   |  | 1                            |  | 1     |
|          |  |  | `~'                          |  |       |
| 1        |  |  |                              |  | l     |
|          | • • • •  | *  | •                            |  | l     |
| ŀ        |  |  |                              |  | i     |
| L        |  |  | same as desc.above,but weak  | er.  | 1     |
|          |  |  | ·                            |  |       |
|          |  |  |                              |  |       |
|          | •  | and the second of the second o | <b>.</b>                     |  | 1     |
| İ        |  |  |                              |  |       |
|          |  |  |                              |  |       |
| Ι΄.      |  |  | i                            | -  | 14/   |
|          |  |  | •                            |  |       |
| -        | · · · · · · · · · · · · · · · · · · ·  | continues of the second  |                              | the state of the s | 6     |
| }        |  |  |                              | ·  | ŀ     |
| 1        |  |  |                              |  | Ī     |
| T(B)     | RGR  | A THAN IN THE PROPERTY OF THE  | weak imp.of chp,py           |  |       |
| BGN      |  |  |                              |  |       |
| 1        |  |  |                              |  |       |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 4\_84

KASSER NR.: 14.15

FRA 135 m TIL 150 m

|          | BERGARTSTYPE | OMVANDLING                            | MINERALISERING             | M. TIL ANALYSE                         | KASSE 1 |
|----------|--------------|---------------------------------------|----------------------------|--|---------|
| 18(      | BGN          |                                       | BGN miner. as descr. above |  |         |
|          | RGR          |                                       |                            |  | 14/4    |
|          | (B)RGR       |                                       |                            |  |         |
|          | BGN          |                                       | weak imp.of py,chp,pht.    |  |         |
| ₩<br>60° |              | · · · · · · · · · · · · · · · · · · · |                            | *** *** *** *** *** *** *** *** *** ** |         |
|          | RGR          |                                       |                            |  | 15/4    |
|          |              | ·                                     |                            |  |         |
| 600      | BGN          |                                       | imp.of chp,py,pht.         |  |         |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 4-84

KASSER NR.: 16,17

FRA 150 m TIL 165 m

| BERGARTSTYPE       | OMVANDLING             | MINERALISERING                           | M. TIL ANALYSE   | KASSE '      |
|--------------------|------------------------|--|--|--------------|
| BGN                |                        |  |  |              |
| grey apl.          | 1                      |  |  | ļ            |
| amph.              | amph.partly alt.to gli | mmerite.                                 |  | 1            |
| ·                  |                        |  |  |              |
| _                  | •                      |  |  | - }          |
| BGN                |                        | weak imp.of py,chp,pht i                 | n<br>DCM   | 16/4         |
|                    |                        | ······ - · · ·   - · · · · · · · · · · · | PGIN :   | 16/4         |
|                    | 1                      |  |  |              |
|                    | <b>[</b>               | • •                                      |  | İ            |
|                    |                        |  |  |              |
|                    |                        |  |  |              |
| •                  |                        | 1  | The second secon |              |
| •                  |                        |  |  | f            |
|                    |                        | <u>†</u>                                 |  | ··           |
| BRGR (med.grained) |                        | ·  |  | 1            |
| •                  | ŀ                      | <del>]</del>                             |  |              |
|                    | 10 cm zone w. caly     |  |  |              |
|                    |                        |  |  |              |
| BRGR               |                        | weak imp.of py,chp,pht in<br>BRC         | )<br>P   |              |
|                    |                        | 5  |  | [            |
|                    | <b>)</b>               |  | į  | -            |
| <del></del> -      |                        |  | •  | <del> </del> |
| _                  |                        |  | {  |              |
|                    |                        |  |  | 1            |
|                    | 1                      |  |  |              |
| " BGN              | İ                      |  |  |              |
|                    |                        |  |  | ı            |
|                    |                        |  |  |              |
| BGN                | 1                      |  |  | "            |
| RGR                | <del></del>            |  |  | 17/9         |
|                    |                        |  | The second of th |              |
|                    |                        | 2cm qz.vein w. Mos2                      |  | 1            |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 4-84

KASSER NR.: 17.18

FRA 165 m TIL 180 m

| †       | BERGARTSTYPE   | OMVANDLING                            | MINERALISERING  | M. TIL ANALYSE   | KASSE        |
|---------|----------------|---------------------------------------|---|--|--------------|
| lm<br>↓ | (B)RGR         |                                       |   |  |              |
|         | (b)/kGK        |                                       |   |  |              |
|         |                |                                       | 2cm qz.vein w.Mos2.<br>imp. of Mos2 10cm below and<br>above |  | 17/4         |
|         |                |                                       |   |  |              |
|         |                |                                       | ·   | n a n a n a nagaran a n n na an an an an an an an an an a  | <del> </del> |
|         | b.             | ·                                     |   |  |              |
|         |                |                                       |   |  |              |
|         | RGR            |                                       |   |  |              |
|         |                | · · · · · · · · · · · · · · · · · · · |   |  |              |
|         |                |                                       |   |  |              |
|         | natura que a c |                                       |   |  | Ì            |
|         | (B)RGR         |                                       | weak imp.of py,chp in (B)RGR<br>a few grains of Mos2        |  | 18/          |
|         | white "apl"    |                                       | imp. of Mos2,chp,py and pht.                                |  |              |
|         | (B)RGR         |                                       | weak imp.of py,chp in (B)RGR                                | The rate of the second section is a second second section of the second section sectio | ĺ            |

| DATO | 1. | 1.5 | .84 |
|------|----|-----|-----|
|------|----|-----|-----|

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 4-84

KASSER NR.: 16.17

FRA 180 m TIL 195 m

| BERGARTSTYPE   | OMVANDLING                              | MINERALISERING | M. TIL ANALYSE   | KASS |
|--|---|----------------|--|------|
| (B)RGR   |   |                |  |      |
| RGR  |   |                | and the second s |      |
| BGN w.2-10cm bands of amp  | h.                                      |                |  |      |
|  |   |                |  |      |
| The state of the s |   | <u> </u>       |  |      |
|  |   |                | •  | 19/  |
|  |   |                |  |      |
| RGR  |   |                | ·- ···· · · · · · · · · · · · · · · ·  |      |
|  |   |                | •  |      |
| -  |   |                | · · · · · · · · · · · · · · · · · · ·  |      |
|  | · · · · · · · · · · · · · · · · · · ·   |                |  |      |
|  | · · · · · · · · · · · · · · · · · · ·   |                |  | -    |
|  |   |                |  |      |
|  |   |                |  | 26   |
| <u> </u>   |   |                |  |      |
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JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 5-84

KASSER NR.: 1,2

FRA 0 m TIL 15 m

|              |               | BERGARTSTYPE                             | · OMIANITY THO                        | 1 MINEDAL ZGEDING                     | N MTT ANATHON  |          |
|--------------|---------------|--|---------------------------------------|---------------------------------------|--|----------|
|              | 1             | BERUARUSTIPE                             | OMVANDLING                            | MINERALISERING                        | M. TIL ANALYSE   | KASSE *  |
|              | T<br>1mm<br>↓ |  |                                       |                                       |  | }        |
| $\perp$      |               |  |                                       | · ·                                   | The state of the s | ] :      |
| <del> </del> |               |  |                                       |                                       |  |          |
| 1 1          |               |  |                                       |                                       |  | 1        |
| 1 1          | 55°<br>V      | - to 1 design delication can be a second | <del></del>                           |                                       |  | 1        |
| 1 +          | . <b>y</b>    | RGR                                      | ·                                     | conc.min.chp,py some grains of Mos2   |  | 1/5      |
| 1 1          |               |  |                                       |                                       |  |          |
| 1 †          |               | - <del> </del>                           | <del></del>                           | <b></b>                               | ***  |          |
|              |               | BGN                                      |                                       |                                       |  |          |
|              |               |  | ,                                     |                                       |  |          |
| 1 +          |               |  |                                       |                                       | e e e e e e e e e e e e e e e e e e e  |          |
|              |               |  |                                       |                                       |  |          |
|              |               |  |                                       | · · · · · · · · · · · · · · · · · · · | enterent of the mode of the enterest of the en | 1        |
|              | i             | pink apl.                                |                                       |                                       | •  |          |
| 1 1          |               | RGR .                                    |                                       |                                       |  |          |
| 1 1          |               |  | · · · · · · · · · · · · · · · · · · · | • "                                   | e de la comme de la la la la la la la la la la la la la  | <u> </u> |
|              |               |  |                                       |                                       |  | 1        |
|              |               | BGN                                      |                                       |                                       |  |          |
|              |               |  |                                       | ·                                     |  | 2/5      |
|              |               | RGR                                      | orange alt. fsp.                      |                                       | And the second s | 2/5      |
|              |               | 201                                      |                                       |                                       |  |          |
|              | 70°           | amph.                                    |                                       |                                       |  |          |
|              | 1             | amph.<br>RGR                             |                                       |                                       |  |          |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 5-84

KASSER NR.: 2,3

FRA 15 m TIL 30 m

|          | BERGARTSTYPE | OMVANDLING | MINERALISERING                     | M. TIL ANALYSE                        | KASSE  |
|----------|--------------|------------|------------------------------------|---------------------------------------|--------|
| 1m       |              |            | ·                                  |                                       |        |
|          | RGR          |            |                                    |                                       | 2/3    |
|          |              |            |                                    |                                       |        |
|          |              |            |                                    |                                       |        |
|          |              |            |                                    |                                       |        |
|          |              |            |                                    | · · · · · · · · · · · · · · · · · · · |        |
|          |              |            |                                    |                                       |        |
|          |              |            |                                    |                                       |        |
| 70°      |              | ·          | conc.imp.of chp few gra<br>of Mos2 | ins                                   | 3/3    |
| · ·      | -BGN         |            | ,                                  |                                       | !<br>} |
|          | RGR          |            |                                    |                                       | ;      |
| <u> </u> | pink apl.    |            |                                    |                                       |        |
|          | RGR          |            |                                    |                                       |        |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.:5-84

KASSER NR.: 4.5

FRA 30 m TIL 45 m

|   |               | BERGARTSTYPE                          | OMVANDLING                                     | MINERALISERING                        | M. TIL ANALYSE   | KASSE |
|---|---------------|---------------------------------------|--|---------------------------------------|--|-------|
|   | ↑<br>18<br>.↓ |                                       |  |                                       |  |       |
|   | -             |                                       |  |                                       |  |       |
|   | •             | ·                                     |  | · · · · · · · · · · · · · · · · · · · |  |       |
|   | -             | RGR                                   | rock totally crushed                           |                                       | •  | 4/5   |
|   | •             | · · · · · · · · · · · · · · · · · · · |  |                                       | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -  |       |
| .                                       | -             | ·                                     |  |                                       |  |       |
|   | ,             |                                       |  |                                       |  |       |
| • | 50°           | BGN                                   | · · · · · · · · · · · · · · · · · · ·          |                                       |  |       |
|   | •             | <del></del>                           |  | ·•                                    | · · · · · · · · · · · · · · · · · · ·  |       |
|   | •             | RGR                                   | orange alt. fsp                                |                                       |  | 5/5   |
|   |               |                                       | <del></del>                                    |                                       |  |       |
|   |               |                                       | non-pare i i i i i i i i i i i i i i i i i i i |                                       | The same of the sa |       |

KVINA GRUVER.

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 5-84

KASSER NR.: 5,6

FRA 45 m TIL 60 m

| 1   | BERGARTSTYPE  | OMVANDLING                            | MINERALISERING                        | M. TIL ANALYSE   | KASSE |
|-----|---|---------------------------------------|---------------------------------------|--|-------|
| 1 m |   |                                       |                                       | · · · · · · · · · · · · · · · · · · ·  |       |
|     | RGR   | altered, crushed                      | ,· ·                                  | to entry enter a second of the   | 5/5   |
| 1   |   | · · · · · · · · · · · · · · · · · · · | •                                     | · · · · · · · · · · · · · · · · · · ·  |       |
|     | •   |                                       | · ·                                   |  |       |
|     |   |                                       | ;                                     |  |       |
| +   |   |                                       |                                       |  |       |
|     |   | crushed, altered                      | · · · · · · · · · · · · · · · · · · · | and the second s | 6/5   |
| +   |   |                                       |                                       |  |       |
| +   | entre de la constant |                                       |                                       | ·  |       |
|     |   |                                       |                                       | Company to the second control of the second  |       |
| 50° |   |                                       | •                                     | er to taller displacers a line of the second or related to the september of the second or the second |       |

KVINA GRUVER.

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 5-84

KASSER NR.: 7,8

PRA 60 m TIL 75 m

|          | BERGARTSTYPE | OMVANDLING   | MINERALISERING | M. TIL ANALYSE   | <u> [KASSE</u> |
|----------|--------------|--|----------------|--|----------------|
| ↑<br>1m  |              |  |                |  |                |
|          |              | the third had a second   |                |  | 1              |
|          |              |  | <del></del>    |  |                |
|          | ·            | 27 Section 1 Control of Control o | •              | · · · ·  |                |
|          | RGR          |  |                |  | 7/             |
|          |              |  |                |  |                |
| . 🛔      |              |  |                |  |                |
| 1        |              |  |                |  |                |
| †        |              | e garage e production de la company de la co |                | •  |                |
| 1        | -            | M · Marin v · v · · · · · · · · · · · · · · · ·  |                | The Artificial Artific |                |
| †        |              |  | •              | •  |                |
| <b>†</b> |              | •  |                |  |                |
| 1        |              | •• · · · · · · · · · · · · · · · · · ·   |                | A State Company and the Company of t | 8/             |
|          |              | - · · · · · · · · · · · · · · · · · · ·  | •              |  |                |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 5-84

KASSER NR.: 8,9

FRA 75 m TIL 90 m

| <b>T</b> | BERGARTSTYPE   | OMVANDLING | MINERALISERING                                  | M. TIL ANALYSE   | KASSI |
|----------|--|------------|---|--|-------|
| 1m       |  |            |   |  |       |
| Γ        |  |            |   |  |       |
| †        | RGR  |            |   |  | 8/    |
|          |  |            |   |  |       |
| +        |  |            |   |  |       |
| +        |  |            |   |  |       |
| <u> </u> | (B)RGR   |            | weak imp.of Mos2 (chp,<br>py) same as in hole 4 |  |       |
| -        | to the second of |            | py) same as in noie 4                           | en en en en en en en en en en en en en e   |       |
|          | -  |            |   | The second secon | 9/    |
| <u> </u> | •  |            |   | one o visit e in a company of the c  |       |
| <u> </u> |  |            |   |  |       |
|          |  |            |   |  |       |
|          |  |            |   |  |       |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE RINA A/S
HULL NR.: 5-84

KASSER NR.: 10

FRA 90 m TIL 92,5

| BERGARTSTYPE | OMVANDLING | MINERALISERING | M. TIL ANALYSE                                   | [KASS]   |
|--------------|------------|----------------|--|----------|
| <u> </u>     |            |                |  | _        |
| RGR          |            |                |  | 10       |
|              |            |                |  |          |
|              |            |                |  |          |
|              |            |                |  |          |
|              |            |                |  |          |
|              |            |                | <u>.</u>   |          |
|              |            |                |  |          |
| ·· -·        |            | 14             | t ter des de de de de de de de de de de de de de |          |
|              |            |                |  |          |
|              |            |                | · · · · · · · · · · · · · · · · · · ·            | <b>_</b> |
| ••           |            |                |  | 1        |
|              |            |                |  |          |
|              |            |                |  |          |
|              |            |                |  |          |
|              |            |                |  |          |

DATO:

JIT-83

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 6-84

KASSER NR.: 1,2

FRA 0 m TIL 15 m

Dip:50 west.

|    | BERGARTSTYPE                           | OMVANDLING                            | MINERALISERING | M. TIL ANALYSE   | KASSE |
|----|--|---------------------------------------|----------------|--|-------|
| 1m |  |                                       |                |  |       |
| Γ  | crushed granite (myl                   | onite)                                |                | to the second se |       |
|    |  |                                       |                |  | 1/0   |
| 1  |  | <u> </u>                              |                |  |       |
|    |  |                                       | •              |  |       |
| T  | RGR                                    |                                       |                |  |       |
| †  |  |                                       |                | •  | .     |
| +  |  |                                       |                |  |       |
|    |  |                                       |                |  | 1     |
|    |  |                                       |                |  |       |
| †  |  |                                       |                | to the second state of the |       |
| 7  | ······································ | ••••                                  |                |  |       |
| 1  |  | -                                     | ·              |  |       |
|    | mylonite                               | · · · · · · · · · · · · · · · · · · · |                |  | -     |
| t  | my forfice                             |                                       | •              |  | }     |
| +  |  |                                       |                |  |       |
|    |  |                                       |                |  | 2/6   |
|    | crushed                                |                                       |                | The feet seed of the second of | }     |
| †  |  |                                       |                |  | -     |
| _  |  |                                       |                |  |       |

<u>DATO</u>: 25.9.84

KVINA GRUVER.

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 6-84

KASSER NR.: 2,3

FRA 15 m TIL 30 m

|   | 7.       | BERGARTSTYPE                          | OMVANDLING                                     | MINERALISERING | M. TIL ANALYSE                          | KASSE 7      |
|---|----------|---------------------------------------|--|----------------|---|--------------|
|   | 12       | · · · · · · · · · · · · · · · · · · · |  |                |   |              |
|   | †        | ·                                     | pink alt. fsp.                                 |                |   | 2/6          |
|   | <b>+</b> | RGR                                   |  | •              |   |              |
|   | 336      | · ·                                   | vertic.dip w.wawy appe-<br>arance on 5cm scale |                |   |              |
| - | ₩        |                                       | plastic deformation                            |                |   | 3/6          |
|   |          |                                       |  |                | · • • • • • • • • • • • • • • • • • • • |              |
|   |          |                                       | -  |                |   | <u> </u><br> |
|   | -        | <del>-</del>                          |  |                | <del></del>                             |              |
|   | -        |                                       |  |                |   |              |
|   | ,        |                                       |  |                | •• · · · · · · · · · · · · · · · · · ·  |              |
|   | 550<br>V | "BRGR"                                |  |                |   |              |

DATO: 25.9.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 6-84

KASSER NR.: 4,5

FRA 30 m TIL 45 m

| <b></b>    | BERGARTSTYPE         | OMVANDLING             | MINERALISERING | M. TIL ANALYSE  | KASSE |
|------------|----------------------|------------------------|----------------|---|-------|
| 1 <u>m</u> |                      |                        |                |   | ~     |
|            | "BRGR"               | diffuse texture        | ·              |   |       |
|            |                      |                        | •              |   |       |
|            |                      | open frac. w.qz.chryst | als            | · · · · · · · · · · · · · · · · · · ·   | 4/6   |
|            |                      |                        |                | • ••• • • •   |       |
|            |                      |                        | ·              | e e e e e e e e e e e e e e e e e e e   |       |
| 5          | RGR                  | plastic deform.        |                |   |       |
|            |                      |                        |                | e e e e e e e e e e e e e e e e e e e   |       |
|            |                      |                        |                | ·····   |       |
| - \ -      | qz.brecchia<br>mylon |                        |                | ·   | 5/6   |
|            |                      |                        |                | e to the second |       |

DATO: 25.9.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 6-84

KASSER NR.: 5,6

FRA 45 m TIL 60 m

|     | BERGARTSTYPE | OMVANDLING | MINEHALISERING  | M. TIL ANALYSE | KASSE |
|-----|--------------|------------|---|----------------|-------|
| 1m  | BRGR         |            | gradual change from "fragged" granite to BRG  2cm glimmer-rich band w.chp, Mos2. cm conc.zone w.Mos2 (chp). some grains of chp, Mos2 dissem.  small grains of Mos2. | ₹              | 5/6   |
|     | grey apl.    |            | Conc. grains of Mos2 in apl.  |                | !     |
|     | RGR          | •          | Cm conc. imp. of Mos2.  |                |       |
| 56° |              | ,          | Weak imp. of chp, few grains of Mos2.  2 cm zone w.imp. of Mos2,chp   |                | 6/6   |
|     | •            |            |   |                |       |
|     |              |            |   |                |       |
| === |              |            | 5cm conc.imp.of Mos2 (chp)py<br>2 " " " " " "   |                |       |

DATO: 25.9.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.:6-84

KASSER NR.: 7,8

FRA 60 m TIL 75 m

| <b></b> | BERGARTSTYPE | OMVANDLING | MINERALISERING                               | M. TIL ANALYSE   | KASSE |
|---------|--------------|------------|--|--|-------|
| 1m      |              |            | i<br>  |  |       |
| †       |              |            |  | Communication of the Communica | 7/6   |
|         |              |            |  |  |       |
|         | RGR          | ·          | Weak and spread mineraliz.  of Mos2, chp, py | . <del></del>  |       |
|         |              |            | 1  |  |       |
|         |              | ·          | ·  |  |       |
|         |              |            | 1  |  | 8/6   |
|         |              |            |  |  |       |
|         |              |            | 1  | · · · · · · · · · · · · · · · · · · ·  |       |
|         |              |            |  |  |       |

|  | <u>Da</u> | T( | ): |  |
|--|-----------|----|----|--|
|--|-----------|----|----|--|

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

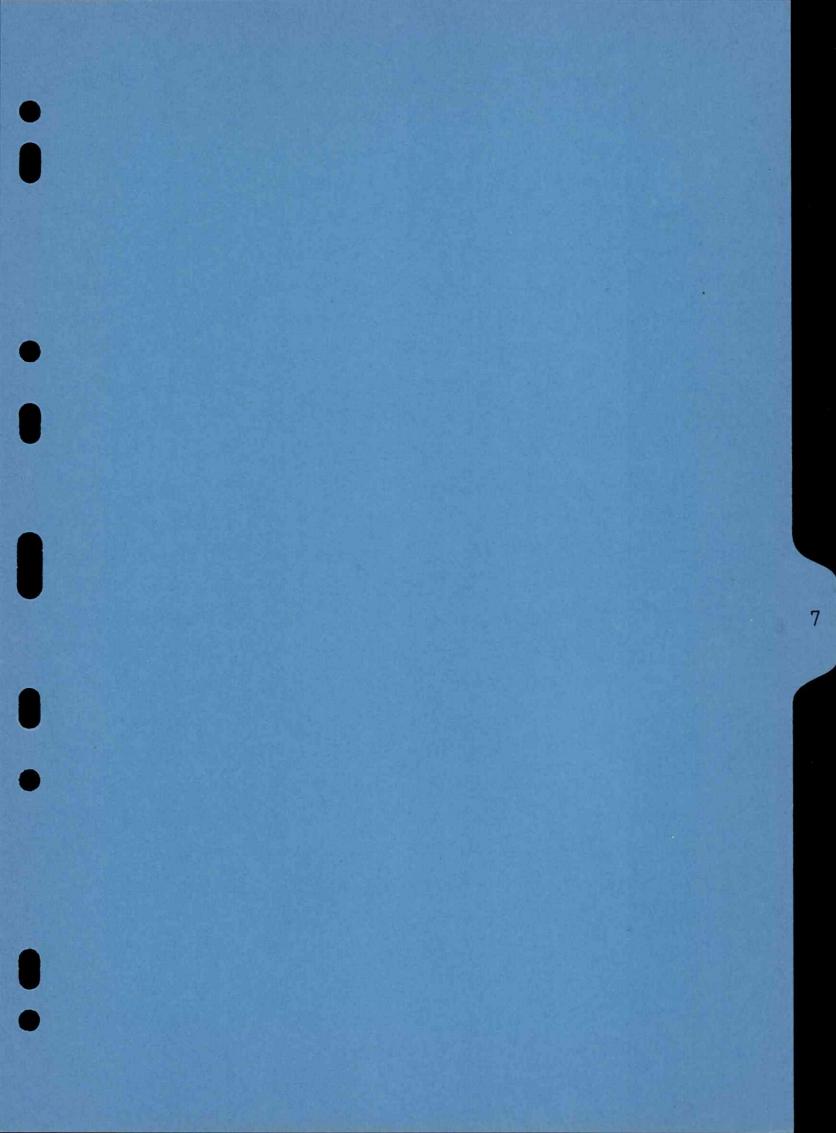
HULL NR.: 6-84

KASSER NR.: 8.9

FRA 75 m TIL 90 m

|              | BERGARTSTYPE | OMVANDLING | MINERALISERING | M. TIL ANALYSE | KASSE ' |
|--------------|--------------|------------|----------------|----------------|---------|
| 1m           |              |            |                |                |         |
|              | ,            | -          |                | ,              |         |
| 1 †          | <br>RGR      |            |                |                | 8/6     |
| 1 }          |              |            |                |                |         |
|              |              |            |                |                |         |
|              |              |            |                |                |         |
| †            |              |            |                |                |         |
| 1 +          |              |            |                |                |         |
| 1.           |              |            |                |                |         |
|              |              |            |                |                |         |
|              |              |            |                |                |         |
|              |              |            |                |                |         |
|              | maked as     |            |                |                | 9/6     |
| 84.2<br>End. |              | ·          |                |                |         |
|              |              |            |                |                |         |
|              |              |            |                |                |         |
|              |              |            |                |                |         |
| †            |              |            |                |                |         |
|              |              | <u> </u>   |                |                |         |

DATO: 25.9.84



JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 7-84

KASSER NR.: 1,2

FRA 0 m TIL 15 m

| <del>,</del> | 7.       | BERGARTSTYPE                          | OMVANDLING                             | MINERALISERING      | M. TIL ANALYSE          | KASSE |
|--------------|----------|---------------------------------------|--|---------------------|-------------------------|-------|
|              | 1m       |                                       |  |                     |                         |       |
|              |          |                                       |  |                     | <u> </u>                |       |
|              | t        |                                       |  |                     |                         | }     |
|              | +        | · · · · · · · · · · · · · · · · · · · |  | <u> </u>            |                         |       |
|              |          | RGR                                   | fractured                              |                     |                         |       |
| ] -          | 640      | - <del>-</del>                        |  |                     |                         |       |
|              | 56°<br>√ | BGN                                   |  | conc.imp.of py, pht |                         | 1/7   |
|              |          |                                       | ·                                      |                     |                         |       |
|              | <u> </u> |                                       | ·                                      | ·                   |                         |       |
| .            | •        | RGR                                   | <del></del> .                          |                     |                         |       |
|              |          | (B)RGR                                |  |                     |                         |       |
|              |          | (B)RGR<br>BGN                         | fractured                              |                     |                         |       |
|              |          |                                       | - <del></del>                          |                     | \$1000 Sept. 10 1 2 2 3 |       |
|              |          | (B)RGR                                | Some ep.alt.                           | ·                   |                         | 2/7   |
|              |          |                                       | ************************************** |                     |                         |       |
|              | 1        |                                       |  |                     |                         |       |

DATO: 4.10.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 7-84

KASSER NR.: 2-3

FRA 15 m TIL 30 m

| <del></del> | <b>7</b>        | BERGARTSTYPE                | OMVANDLING | MINERALISERING                       | M. TIL ANALYSE | KASSE 7 |
|-------------|-----------------|-----------------------------|------------|--------------------------------------|----------------|---------|
|             | 1m              | (B)RGR                      |            |                                      |                |         |
|             | 62°             | RGR<br>10cm conc.apl.       |            | grain of Mos2 on upper borde of apl. | r              | 2/8     |
|             | 64 <sup>0</sup> |                             |            |                                      |                |         |
|             | 60°             | BGN                         |            | grains of Mos2,else py in BG         | N              |         |
|             |                 | (B)RGR<br>Pink to grey apl. |            |                                      |                |         |
|             | 54 <sup>0</sup> | (B)RGR                      |            |                                      |                | 3/8     |
|             | -               | (B)Nan                      |            |                                      |                | ) )     |
| ,           |                 |                             |            |                                      |                |         |
|             | 5 <b>6</b> *    |                             |            |                                      |                |         |

DATO: 4.10.84

KVINA GRUVER.

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 7-84

KASSER NR.: 4,5

FRA 30 m TIL 45 m

|     | BERGARTSTYPE                | OMVANDLING | MINERALISERING      | M. TIL ANALYSE         | KASSE 1      |
|-----|-----------------------------|------------|---------------------|------------------------|--------------|
| 1m  |                             |            |                     |                        |              |
|     | RGR                         |            |                     |                        |              |
| 54  | 0 .                         | crushed    |                     |                        | 4/7          |
|     | amph BRGR Apl.(qz.fsp.rich) |            | imp.of Mos2 in apl. | ррт Мо ррт<br>4330 110 | 0            |
|     | quartz                      |            |                     | 1330 74<br>310 30      | 00           |
| 62° |                             |            |                     | 2650 68<br>1480 130    |              |
|     | Mixed apl/BRGR              |            | imp. of Mos2        | 1430 45                | ·0           |
|     |                             |            |                     |                        | 50 5/7<br>00 |
|     | RGR                         |            |                     |                        | 4            |

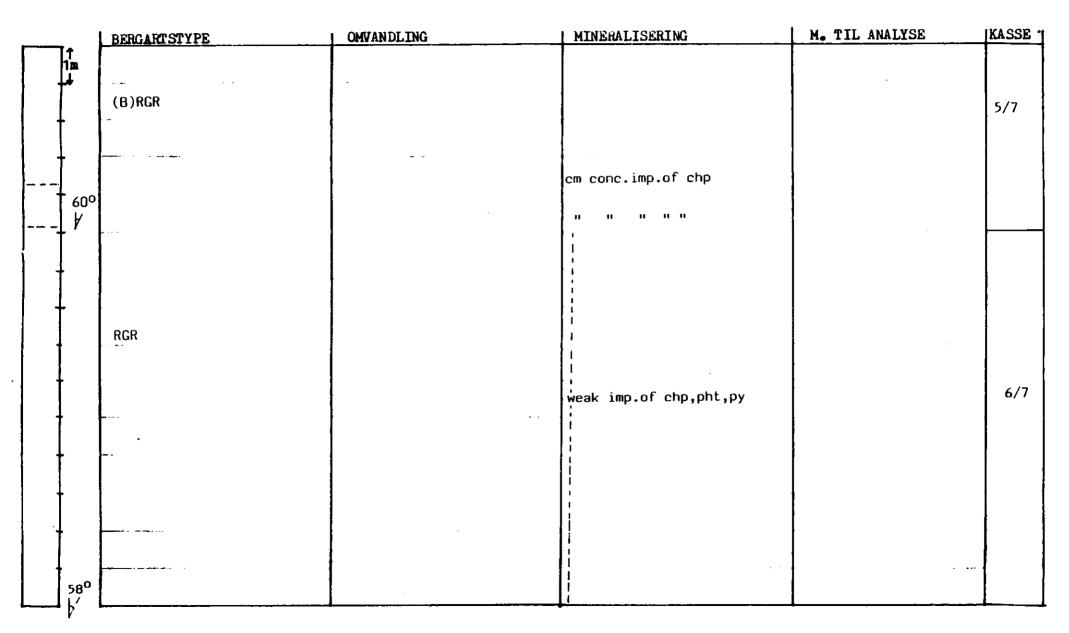
DATO: 4.10.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 7-84

KASSER NR.: 5,6

FRA 45 m TIL 60 m



DATO: 4.10.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

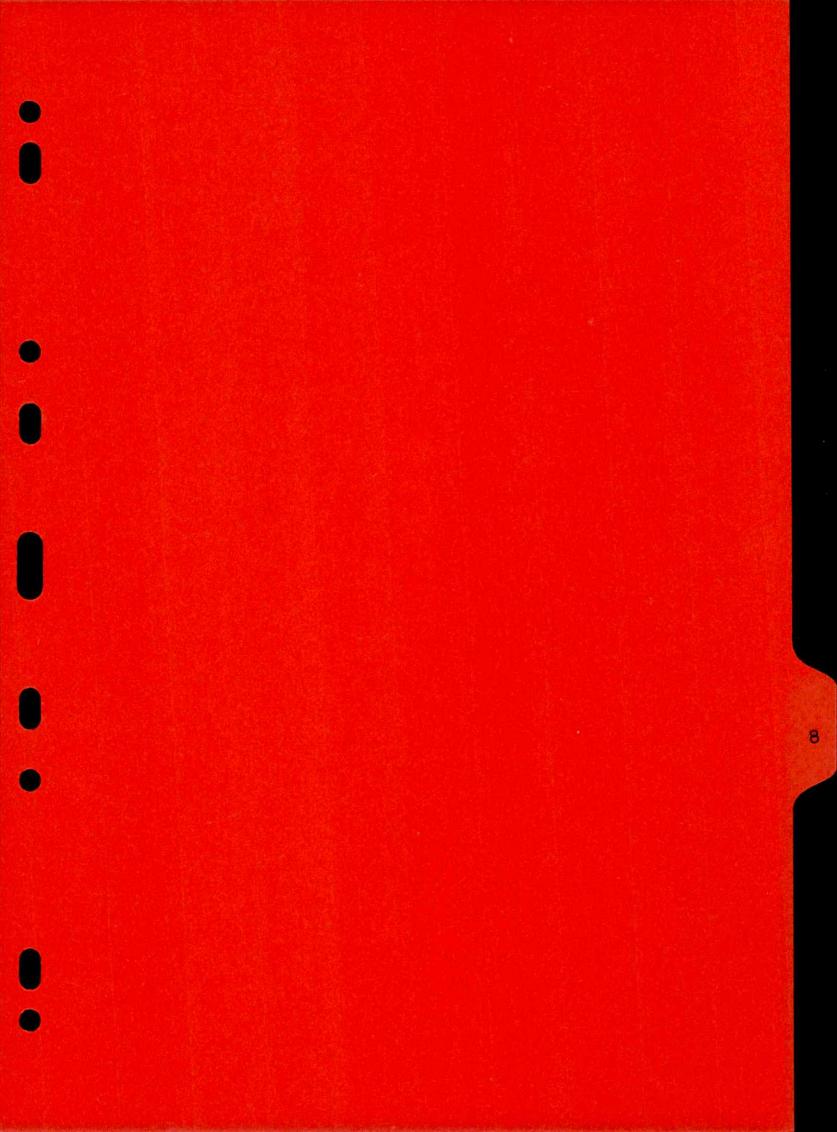
HULL NR.: 7 Q/

KASSER NR.: 7

FRA 60 m TIL61,25m

| T+            | BERGARTSTYPE  | OMVANDLING                              | MINERALISERING           | M. TIL ANALYSE   | KASSE    |
|---------------|---------------|---|--------------------------|--|----------|
| 112           | RGR           |   | weak imp.,as descr.above |  |          |
| 61.25m<br>END |               |   | •                        | es e amazana e e ancesa e e ancesa e e e ancesa e e e ancesa e e e ancesa e e e ancesa e e e ancesa e e e ancesa e e e e ancesa e e e e ancesa e e e e ancesa e e e e e e e e e e e e e e e e e e  | <u> </u> |
| END           | <del> </del>  |   |                          |  |          |
| 1 1           |               |   |                          |  |          |
| 1 1           |               |   | •                        |  | 7/7      |
|               |               |   |                          |  | '''      |
| †             |               |   |                          | · ······ · · · · · · · · · · · · · · ·   |          |
| } . +         |               |   |                          |  |          |
|               |               |   |                          |  |          |
|               |               |   |                          |  |          |
| 1             |               |   |                          | e e e e e e e e e e e e e e e e e e e  |          |
| †             |               |   |                          |  |          |
|               |               | - 19 - 19 - 19 - 19 - 19 - 19 - 19 - 19 |                          |  |          |
|               |               |   |                          |  |          |
|               |               |   |                          |  |          |
|               |               |   |                          |  |          |
| +             | <del></del> : |   |                          | Company and the company of the compa |          |
|               |               |   |                          |  |          |
|               | ·             |   |                          |  |          |
|               |               |   |                          |  |          |

| DA | TO | : |  |
|----|----|---|--|
|    |    |   |  |



JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 8-84

KASSER NR.: 1,2

FRA 0 m TIL 15 m

|     | BERGARTSTYPE                 | OMVANDLING | MINERALISERING                   | M. TIL ANALYSE | KASSE 1 |
|-----|------------------------------|------------|----------------------------------|----------------|---------|
| 600 | RGR                          |            | weak imp.of py,chp,pht<br>in BGN |                | 1/8     |
| 60° | RGR  BGN BGN - RGR - RGR RGR |            |                                  |                | 2/8     |

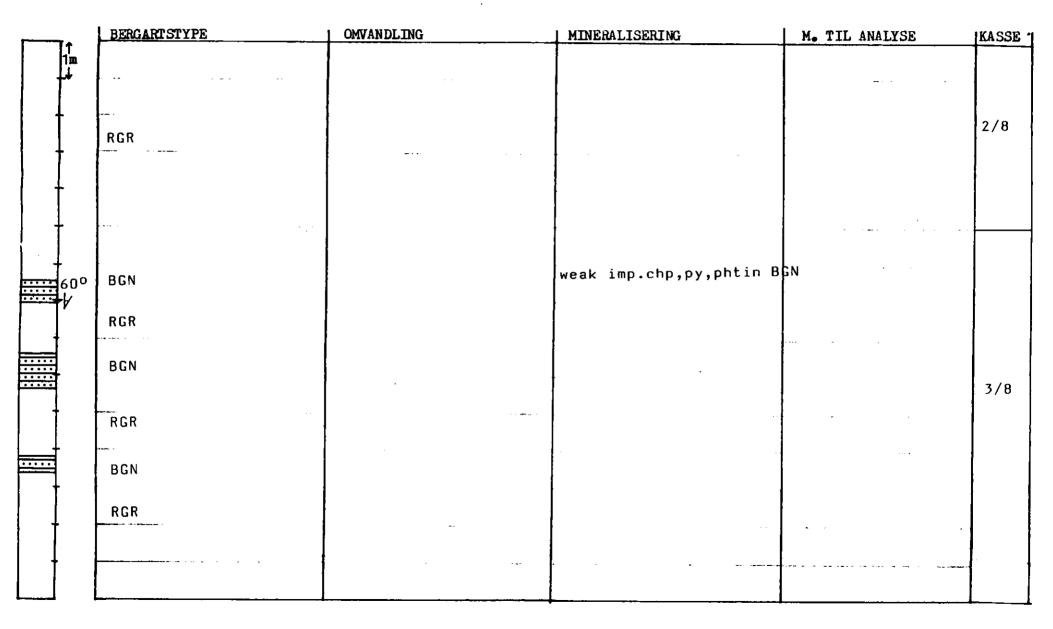
DATO: 13.10.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 8-84

KASSER NR.: 2,3

FRA 15<sub>m TIL</sub> 30 m



JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 8-84

KASSER NR.: 4,5

FRA 30 m TIL 45 m

| <b>-</b> | BERGARTSTYPE                      | OMVANDLING       | MINERALISERING                      | I M MTI ANATYON           |       |
|----------|-----------------------------------|------------------|-------------------------------------|---------------------------|-------|
| 1m       |                                   |                  | MINERALISERING                      | M. TIL ANALYSE            | KASSE |
|          |                                   | <del>-</del> ··· |                                     |                           |       |
|          | RGR                               |                  |                                     |                           | 4/8   |
| 60.      |                                   |                  |                                     |                           |       |
|          | (B)RGR<br>BGN                     |                  | Weak imp. of py,chp,pht             | ·                         |       |
| 600      | (B)RGR<br>grey apl.               |                  |                                     | ррт Мо ррт Си             |       |
|          | BRGR/qz.veins<br>(B)RGR           |                  | Mos2 in qz.veins and imp.in<br>rock |                           |       |
|          | Conc., grey apl.<br>(B)RGR<br>BGN | ·                |                                     | 2000 1600<br>x: 2440 1350 | 5/8   |
|          | (B)RGR                            |                  | -                                   | <b>.</b> .                |       |
|          | BGN                               |                  |                                     |                           |       |

DATO: 13,10.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 8-84

KASSER NR.: 5,6

FRA 45 m TIL 60 m

|    | BERGARTSTYPE | OMVANDLING           | MINERALISERING | M. TIL ANALYSE | KASSE * |
|----|--------------|----------------------|----------------|----------------|---------|
| 12 | BGN          | weak greenish colour |                |                |         |
|    |              |                      |                |                | 5/8     |
| +  | e minus dia  |                      |                |                |         |
|    | (B)RGR       | 11 11                |                |                |         |
|    |              |                      |                |                |         |
|    |              |                      |                |                |         |
|    |              |                      |                |                |         |
|    |              |                      |                |                | 6/8     |
|    |              |                      |                |                |         |
|    |              | ·                    |                |                |         |
|    | inh. RGR(B)  |                      | grains of Mos2 |                |         |
|    |              |                      |                |                |         |

DATO: 13.10.84

KVINA GRUVER.

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 8-84

KASSER NR.: 7

FRA 60 m TIL 62.4 m

|                | BERGARTSTYPE | OMVANDLING  | MINERALISERING | M. TIL ANALYSE                         | [KASSE - |
|----------------|--------------|---|----------------|--|----------|
| 1m             | RGR          | o <del>au</del> n o o o o o o o o o o o o o o o o o o o |                |  |          |
| 62,4m<br>END - |              |   |                | :<br>                                  | 7/8      |
|                |              | <del></del>   | •              | · •                                    |          |
|                | . <u>.</u> . |   | ·              |  |          |
|                |              | -   |                | • •• • · · · · · · · · · · · · · · · · |          |
|                |              |   | ·<br>          | · · · · · · · · · · · · · · · · · · ·  |          |
|                |              |   |                |  |          |
|                | <b></b> .    |   |                |  |          |
|                | ·            | <b></b>   |                | ************************************** |          |
|                |              | · · · · · · · · · · · · · · · · · · ·                   | ·              |  |          |



JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 9-84

KASSER NR.: 1,2

FRA 0 m TIL 15 m

|          | BERGARTSTYPE | OMVANDLING | MINERALISERING           | M. TIL ANALYSE | KASSE 1 |
|----------|--------------|------------|--------------------------|----------------|---------|
| 1m       |              |            |                          |                |         |
| 1 1      | _            |            |                          |                |         |
|          | RGR          |            |                          |                |         |
| [        |              |            |                          |                | 1/9     |
|          |              |            |                          |                |         |
|          |              |            |                          |                |         |
|          | BGN          |            | imp.of py,chp,pht in BGN |                |         |
|          | RGR          |            |                          |                |         |
| 60°C     | BGN          |            |                          | ·              |         |
|          |              |            |                          |                |         |
|          |              |            |                          |                |         |
|          | RGR          |            |                          |                | 0.40    |
|          |              |            |                          |                | 2/9     |
|          |              |            |                          |                |         |
|          |              |            |                          | <u>.</u>       |         |
| <b>L</b> |              |            | <b></b>                  |                |         |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 9-84

KASSER NR.: 2,3

FRA 15 m TIL 30 m

|     | _                 | BERGARTSTYPE            | OMVANDLING                      | MINERALISERING               | M. TIL ANALYSE | KASSE 1 |
|-----|-------------------|-------------------------|---------------------------------|------------------------------|----------------|---------|
|     | ↑<br>1m,<br>1,>80 | BGN                     | -                               | imp.of Mos2,py,pht,chp in BC |                | 2/9     |
| 588 |                   | grey apl. 3–10cm in RGR | <u> </u>                        |                              |                |         |
|     | -                 | pink aplitt             |                                 |                              |                |         |
|     | -                 |                         |                                 | weak imp.of Mos2 py,pht,chp  |                |         |
|     |                   |                         |                                 |                              |                |         |
|     |                   |                         |                                 |                              |                | 7./0    |
|     |                   | RGR                     | ···· <u>-</u>                   |                              |                | 3/9     |
|     |                   |                         | ju y ang a c i                  |                              |                |         |
| +   | 60°               |                         |                                 |                              |                |         |
|     | ,                 |                         |                                 |                              |                |         |
|     |                   |                         | · · · · · · · · · · · · · · · · |                              |                |         |
|     |                   | (B)RGR                  | weak greenish colour            | weak imp.of chp,py,pht       | ·              |         |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 9-84

KASSER NR.: 4.5

FRA 30 m TIL45 m

|                   | BERGARTSTYPE                      | OMVANDLING | MINERALISERING                     | M. TIL AN |        | KASSE |
|-------------------|-----------------------------------|------------|------------------------------------|-----------|--------|-------|
| ↑<br>1m           | BRGR                              |            |                                    | ppm Mo    | ppm Cu | -     |
| Rossocia L        |                                   |            |                                    | 250       | 1300   |       |
| ¥ 800             | qz.fspt.rich apl.w.qz.            | veins      |                                    | 460       | 2000   |       |
| X                 | <u>quartz</u>                     | ·          |                                    | 360       | 300    |       |
|                   |                                   |            |                                    | 1010      | 320    |       |
|                   | mixed mineral.zone w.<br>qz.veins |            |                                    | 2790      | 400    | 4/9   |
| 1 +               |                                   |            |                                    | 400       | 162    |       |
| k-+               |                                   |            | rich min.of chp,py,ph<br>some Mos2 | 4120      | -      |       |
|                   |                                   |            |                                    | 1080      | 230    |       |
|                   |                                   |            | ·                                  | x:1309    | 564    |       |
| <b> </b>          | quartz                            |            |                                    |           |        |       |
| $\bigvee \bigvee$ |                                   |            |                                    | 3498      | 440    |       |
|                   | (B)RGR                            |            | weak imp.of py.chp,ph              | 2300      | 70     |       |
|                   | RGR                               |            |                                    | x:2895    | 255    | 5/9   |
|                   |                                   |            |                                    |           |        |       |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 9-84

KASSER NR.: 5.6

FRA 45 m TIL 60 m

| 56           | BERGARTSTYPE     | OMVANDLING | MINERALISERING                                | M. TIL ANALYSE | [KASSE ] |
|--------------|------------------|------------|---|----------------|----------|
| 1m/          | RGR              |            | weak imp. of py,chp,pht<br>few grains of Mos2 | <u>-</u>       | 5/9      |
|              | grey/pink aplite | ·          |   |                |          |
| 55°          | RGR              |            |   |                |          |
| 53.5-<br>end |                  |            |   |                | 6/9      |
|              |                  |            |   |                |          |
|              |                  | ***        |   |                |          |

TDV 1/0 Noney

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 10-84

KASSER NR.: 1,2

FRA 0 m TIL 15 m

| r                                       | BERGARTSTYPE                          | OMVANDLING | MINERALISERING | M. TIL ANALYSE | KASSE 1 |
|---|---------------------------------------|------------|----------------|----------------|---------|
| 1m                                      |                                       |            |                | ·              |         |
|   | • • • • • • • • • • • • • • • • • • • |            |                |                |         |
|   | non.                                  |            |                |                | 1/10    |
| \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \ | RGR                                   |            |                |                | 17 10   |
|   | -                                     |            |                |                |         |
|   |                                       | ·          |                |                |         |
|   | grey apl.                             |            |                |                |         |
|   | 10 cm qz.vein                         |            |                |                | 2/10    |
|   | grey conc. apl.                       |            |                |                | 2/10    |
|   | NGN                                   |            |                |                |         |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 10-84

KASSER NR.: 2,3

FRA 15 m TIL 30 m

|          | BERGARTSTYPE     | OMVANDLING                             | MINERALISERING     | M. TIL ANALYSE                        | KASSE 1 |
|----------|------------------|--|--------------------|---------------------------------------|---------|
| 158°     | grey apl.<br>BGN |  |                    |                                       |         |
| ***      | RGR              |  |                    |                                       |         |
|          | PROPERTY.        |  | ·                  |                                       | 2/10    |
|          | BGN              |  |                    |                                       | -,      |
|          |                  |  |                    |                                       |         |
|          |                  |  |                    |                                       |         |
| 1 + 1    | <br>:            |  |                    |                                       |         |
| 1        | RGR              |  |                    |                                       |         |
| 1.       |                  |  |                    | ,                                     |         |
|          |                  |  |                    |                                       |         |
|          |                  | ·                                      |                    |                                       |         |
| +        |                  |  | •                  | · · · · · · · · · · · · · · · · · · · |         |
|          | <del></del>      |  |                    | <del></del>                           |         |
| <u> </u> | BRGR             |  |                    | ppm Mo ppm Cu                         | 3/10    |
|          |                  |  |                    | · · · · · · · · · · · · · · · · · · · |         |
| 1   1    | mixed BRGR/qz.   | greenish colour                        | imp. Mos2, chp, py | 800 210                               |         |
|          |                  | •••• • • • • • • • • • • • • • • • • • |                    | 480 190                               |         |
| 1)       | quartz           | · · · · · · · · · · · · · · · · · · ·  |                    | x:640 200                             |         |
|          |                  |  |                    |                                       |         |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 10-84

KASSER NR.: 4,5

FRA 30 m TIL 45 m

|                  | BERGARTSTYPE  | OMVANDLING | MINERALISERING             | M. TIL ANALYSE                        | KASSE 1 |
|------------------|---------------|------------|----------------------------|---------------------------------------|---------|
| 1m               | BRGR          |            |                            |                                       |         |
| h + +            | - ·····       | _          | chp, (py) in qz.           |                                       |         |
| $\mathbb{N}$     |               |            |                            |                                       |         |
| 1\ /f            | <del></del> - |            |                            |                                       | [ ]     |
| 11 /4            |               | • • •      |                            |                                       |         |
| $\Pi\Pi$         |               |            |                            |                                       |         |
| 11//             | ·             |            |                            |                                       | 4/10    |
| 111              | quartz        |            |                            |                                       | 4/10    |
| \ \ \            |               |            |                            |                                       |         |
| 1                |               |            | spread and very few grains |                                       |         |
|                  |               |            | of Mos2 in qz.             |                                       |         |
|                  |               |            | chp, py                    |                                       |         |
| 1/\1             |               |            |                            | •                                     |         |
|                  |               | ·          |                            |                                       |         |
|                  |               |            | chp, py                    |                                       |         |
| <del>    </del>  |               |            |                            |                                       |         |
|                  | apl.          |            |                            |                                       |         |
| $\Lambda$        |               |            |                            |                                       |         |
| \ /              |               |            |                            |                                       |         |
|                  |               |            |                            |                                       |         |
| <b> </b>         |               |            | chp, py (Mos2)             |                                       | 5/10    |
| / \ <del> </del> |               |            |                            | · · · · · · · · · · · · · · · · · · · |         |
|                  |               |            |                            |                                       |         |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 10-84

KASSER NR.: 5.6

FRA 45 m TIL 60 m

|             | BERGARTSTYPE       | OMVANDLING      | MINERALISERING                | M. TIL ANA       |        | KASSE 1 |
|-------------|--------------------|-----------------|-------------------------------|------------------|--------|---------|
|             | qz.                |                 |                               | ррт Мо           | ppm Cu |         |
| 1m          | apl. (qz.fsp.rich) | -               |                               | 480              | 590    |         |
|             | BRGR               | greenish colour | Mos2, mainly as conc.impreg   | <sup>n</sup> 940 | 630    |         |
| 60°         | apl!               | -               | 111 ap1. weak 1111p.01 cnp,p) | 1770             | 1000   | 5/10    |
| 1 +         | BRGR               |                 |                               | 1900             | 600    |         |
|             | <u> </u>           |                 |                               | 1500             | 230    |         |
|             | RGR                |                 | •                             | x:1318           | 610    |         |
| -           | grey apl.          |                 |                               |                  |        |         |
|             | RGR                |                 |                               |                  |        | ] [     |
|             | grey apl.          |                 |                               |                  |        |         |
| 55.5<br>end | RGR ·              |                 |                               |                  |        | 6/10    |
|             |                    |                 |                               |                  |        |         |
|             |                    | ··              |                               |                  |        |         |
|             |                    |                 |                               |                  |        |         |
|             |                    |                 |                               |                  |        |         |

JOINT VENTURE, FOLLDAL VERK S - NORSKE FINA A/S

HULL NR.: 11-84

KASSER NR.: 1 2

FRA o m TIL 15 m

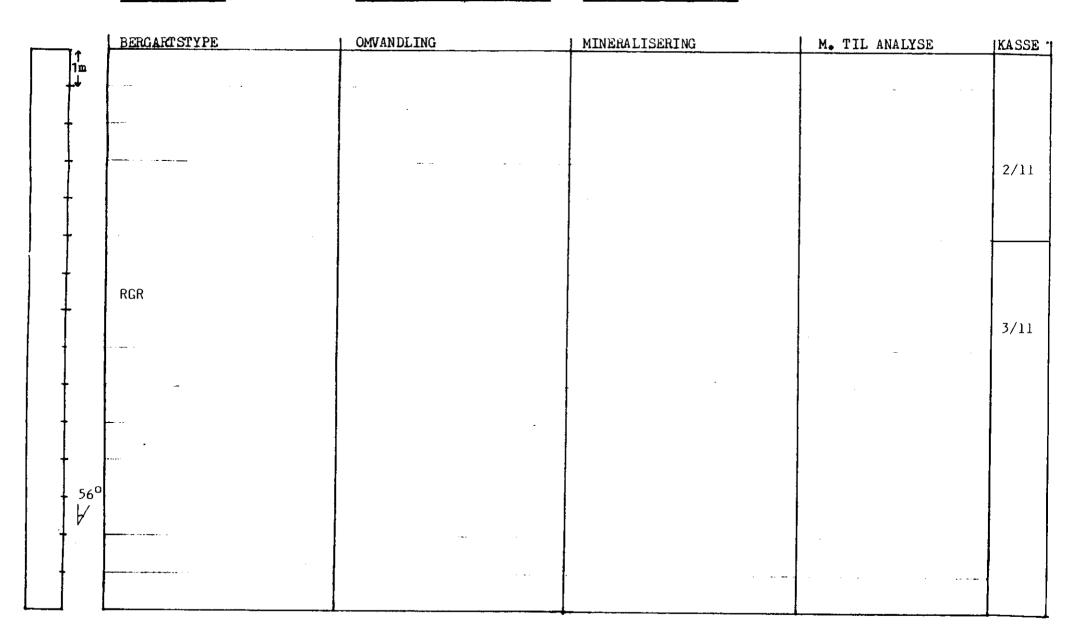
| 1       | BERGARTSTYPE | OMVANDLING   | MINERALISERING                            | M. TIL ANALYSE   | KASSE .  |
|---------|--------------|--|---|--|----------|
| ↑<br>1m | RGR          |  |   |  |          |
| <b></b> | Grey apl.    |  |   | the same of the sa |          |
|         | RGR          |  |   | a spine white a profit distance resistance in the spine of the spine of  |          |
|         | Apl.<br>RGR  |  | ·   |  |          |
| -       | Apl.         |  |   |  | 1/11     |
| -       |              |  |   |  |          |
| -       | RGR          | A section of the sect |   |  |          |
| -       |              |  | · · · · · · · · · · · · · · · · · · ·     |  |          |
|         |              |  |   |  |          |
| . 56°   | (B)RGR       |  | imp,of Mos2 in rock and qz. vein (chp,py) | The state of the s |          |
|         |              |  |   |  |          |
| -       | (B)RGR       |  |   |  |          |
| •       | nco          |  | •   |  | 2/11     |
|         | RGR          |  |   |  | -,       |
|         |              |  |   |  |          |
|         |              |  |   | <u> </u>   | <b>-</b> |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 11-84

KASSER NR.: 2.3

FRA 15 m TIL 30 m



DATO 19.10.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 11-84

KASSER NR.: 4,5

FRA 30 m TIL 45 m

| ٠ | 1              | BERGARTSTYPE                      | OMVANDLING      | MINERALISERING                      | M. TIL ANALYSE | KASSE |
|---|----------------|-----------------------------------|-----------------|-------------------------------------|----------------|-------|
|   | ↑<br>1m<br>.↓  |                                   |                 |                                     |                |       |
|   | •              | RGR                               |                 |                                     |                |       |
|   | - 50°          | · · · · · · · · · · · · · · · · · |                 |                                     |                | 4/11  |
|   |                |                                   | crushed         |                                     |                |       |
|   |                | •                                 |                 |                                     |                |       |
|   | •              |                                   | ¦ crushed       |                                     |                |       |
|   | -<br>50<br>- 🖟 | BGN                               | greenish colour | py,chp in BGN                       |                | 5/11  |
|   |                | RGR                               | crushed         | , , , , , , , , , , , , , , , , , , |                |       |
|   |                |                                   |                 |                                     |                |       |

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 11-84

KASSER NR.: 5.6

FRA45 m TIL 60 m

|  | _  | OVERANDI TAIC  | MINERALISERING | M. TIL ANALYSE   | KASSE |
|--|--|--|----------------|--|-------|
|  | RISTYPE  | OMVAN DLING  |                |  |       |
| ↑<br>1m<br>↓                                     | 1  |  |                |  |       |
|  |  | and the second s |                |  | }     |
| 1  |  |  |                |  | . / . |
| ļ  |  | <b>-</b> · · ·   |                |  | 5/1   |
|  |  |  |                |  |       |
| <del> </del>                                     | <del>-</del>                                       |  |                |  |       |
|  |  |  |                |  |       |
| †  |  |  |                |  |       |
|  |  |  |                |  |       |
|  |  |  |                |  | 1     |
| RGR  |  | . • •  |                |  | 1     |
| ;  |  |  |                |  |       |
| 1  |  |  | *<br>          |  |       |
|  |  |  |                |  |       |
| <del>                                     </del> |  |  | 1              |  | ļ     |
|  | and the second second second                       |  | 1              | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -  | -     |
| 1  |  |  |                | -  |       |
| i L_   | . ,  | and the second s |                | The second secon | -     |
| Ţ [ <u>-</u> -                                   |  |  |                |  | 6/1   |
| RGR  |  | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |                |  |       |
|  |  |  | }              |  |       |
| +  |  |  |                | ļ  |       |
|  |  | \  |                |  | · j   |
| +  | ه منها د در از از از از از از از از از از از از از | ··· <del></del>  |                | 1  |       |
|  |  |  |                |  |       |
| †  |  |  |                | }  |       |
| 1  |  |  | <u> </u>       |  |       |

KVINA GRUVER.

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.:11-84

KASSER NR.: 7.8

FRA 60 m TIL 75 m

|            |              | OMVANDLING   | MINERALISERING | M. TIL ANALYSE   | KASSE 1 |
|------------|--------------|--|----------------|--|---------|
| 11         | BERGARTSTYPE | OMY AND DIAG   |                |  |         |
| 11         |              |  |                | and the second s |         |
| İ          |              |  |                |  |         |
| H          |              |  |                |  |         |
| <b>†</b> ► |              |  |                |  |         |
|            | RGR          |  |                |  | 7/11    |
|            |              |  |                |  |         |
| +          |              |  |                |  |         |
| +          |              |  |                |  |         |
| 1          |              |  |                |  |         |
| Ī          | RGR          |  |                | The state of the s |         |
| į          |              |  |                |  | į       |
| <u> </u>   |              | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -  |                |  |         |
| 1          |              | and the second s |                | 100 mm m m m m m m m m m m m m m m m m m   |         |
| Ī          | •            |  |                | and the second s |         |
| †          |              |  |                |  | 8/11    |
|            |              |  |                |  |         |
|            |              | Control of the Contro | e e            | A CONTRACTOR OF THE CONTRACTOR |         |
| †          |              |  |                |  |         |
| +          |              | The second section of the second section of  |                |  |         |
|            |              |  |                |  |         |

DATO: 19.10.84

KVINA GRUVER.

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.:11-84

KASSER NR.: 8.9

FRA 75 m TIL 90 m

| ,          |                                    | OMVANDLING   | MINERALISERING   | M. TIL ANALYSE   | KASSE |
|------------|------------------------------------|--|--|--|-------|
| <b>T</b> ↑ | BERGARTSTYPE                       | 0.1,1.1,0.2  |  |  |       |
| 1m         |                                    |  | som py,chp   | a managam managam managam managam managam managam managam managam managam managam managam managam managam manag  | 8/11  |
| 60         | inhomog.RGR                        |  |  | and the second s |       |
| <b> </b>   | red to grey,med.to coar<br>grained | e  | i  |  |       |
|            | ·                                  |  | few grains of Mos2   |  |       |
| +          |                                    | varied dip.  |  |  |       |
| T          | qz.                                |  |  |  | -     |
| +          |                                    |  |  |  | 0 (1  |
| 1          | inhomogen RGR                      |  |  |  | 9/1   |
|            |                                    | and the same and t |  |  |       |
| +          |                                    |  |  |  |       |
| +          |                                    |  | and the second s | The state of the s |       |
| -          |                                    |  |  |  | -     |
| 1          | •                                  |  |  |  |       |

DATO: 20.10.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 11-84

KASSER NR.: 10.11.

FRA 90 m TIL 105 m

|          | BERCARTSTYPE    | OMVANDLING   | MINERALISERING | M. TIL ANALYSE   | KASSE 1 |
|----------|-----------------|--|----------------|--|---------|
|          | DETURATION      |  |                |  |         |
|          | med.grained RGR |  |                |  |         |
|          |                 |  |                |  |         |
| +        | RGR             |  |                |  |         |
|          |                 |  |                |  |         |
|          | (B)RGR          |  |                |  | 10/11   |
|          |                 |  |                | Let the second s |         |
|          |                 |  |                | • • • • • • • • • • • • • • • • • • •  |         |
| <b>†</b> |                 |  |                |  | 11/11   |
| 1 1      | (B)RGR          |  |                |  |         |
|          |                 |  |                |  |         |
|          |                 | · A CONTROL OF THE CO |                |  |         |

DATO: 20.10.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 11-84

KASSER NR.: 11 12

FRA 105m TIL 120 m

|     | 1               | BERGARTSTYPE | OMVANDLING              | MINERALISERING   | M. TIL ANALYSE   | KASSE . |
|-----|-----------------|--------------|-------------------------|------------------|--|---------|
|     | ↑<br>1m<br>1    |              |                         |                  |  | ;<br>;  |
|     |                 | inh. RGR     | na alabagai e           |                  | and the second s | 11/1    |
|     | •               |              |                         |                  |  |         |
| , } | 60 <sup>4</sup> | RGR          |                         | <u> </u>         |  |         |
|     | •               |              |                         |                  |  |         |
|     | -               |              |                         |                  |  |         |
|     |                 | •            |                         |                  |  | 12/1    |
|     | -               |              |                         | <u> </u>         |  | 12/1    |
|     | ·               |              |                         |                  |  |         |
|     | •               |              |                         |                  | <u> </u>   |         |
|     | -               | amph.        | partly alt. to glimmer. | some py on frac. |  |         |
|     | •               | RGR          |                         |                  |  | -       |

DATO: 20.10.84

JOINT VENTURE, FOLLDAL VERK A/S - NORSKE FINA A/S

HULL NR.: 11-84

KASSER NR.: 12,13

FRA 120 m TIL 135 m

| BERGARTSTYPE                          | OMVANDLING          | MINERALISERING | M. TIL ANALYSE                      | KASSE .        |
|---------------------------------------|---------------------|----------------|-------------------------------------|----------------|
| RGR                                   |                     |                |                                     |                |
| Amph.                                 |                     |                |                                     |                |
|                                       |                     |                |                                     | ļ              |
| RGR                                   |                     |                | ļ                                   | 12/11          |
|                                       |                     |                |                                     |                |
| }                                     |                     |                |                                     |                |
|                                       |                     |                |                                     |                |
| · · · · · · · · · · · · · · · · · · · |                     |                | · · · · · · · · · · · · · · · · · · |                |
|                                       |                     |                |                                     |                |
| Market .                              |                     |                |                                     |                |
|                                       |                     |                |                                     |                |
|                                       |                     |                |                                     |                |
|                                       | -                   |                | ··- ·- ··                           |                |
|                                       |                     |                |                                     |                |
|                                       | RGR<br>Amph.<br>RGR | RGR Amph.  RGR | RGR Amph.  RGR                      | RGR Amph.  RGR |

DATO: 20.10.84

- 20.6. Left Oslo together with O. Samskott, employed in E. Kiil A/S, in the morning. Fetched the Subaru 4WD in Kristiansand. Arrived Knaben in the evening.
- 21.6. Examined the drilling-gear and controlled the position for Dh 1-84. Røynestad, Røyseland, Samskott, a local electrician and myself put together the drilling equipment.
- 22.6. The machinery was tested. Samskott had forgotten to take with him an important part to the corepipe, and this was ordered. Samskott and I left Knaben 15.00.
- 26.6. Reco. for geochem. sampling in Telemark.

  Spent the first day in the Gausdal area.

  Arrived at Rauland in the evening.

  Conclusion: It will probably be difficult to get samples because of course gravity and lots of big stones in the streams.
- 27.6. Spent the day in the Vindsjåen and Bonsvann area (Tuddal). Found some interesting brownish coloured metabasites with gz-veins in this area. Made an appointment with a farmer to borrow the key to the bar on pad on nothern shore of Bonsvann. Visited old Bleka goldmine in the afternoon. Returned to Oslo in the evening.
- 2.7. Met the streem-sediment samplers and the Folldal Verk's geochemist Krause at Borregaard (Lysaker, Oslo) in the morning. Drove to Rauland, where I had hired a camping cottage for the samplers.
  Gave some instructions and information. Krause teached the samplers how to take the samples.
- 3.7. Continued the institution and sampling in the area west of Groven. It was not easy to get samples. Krause and I returned to Oslo in the evening.
- 9.7. Left Oslo in the morning. Had a meeting with the sediment-samplers in Rauland at 17,30.

  The progress of work is very slow, because of problems with getting enough sample-material from the sediments. Only 37 samples taken. Left Rauland 18.45. Arrived Knaben 23.45.
- 10.7. Logged110 m of core, DH-1-84.
  Drilled 3.5 m, then the drill-crown got stuck, so it was impossible to take the striny up.
- 11.7. Mapping N of DH 1-84. Built a stand for the cable on the aggregate-sledge together with the drillers Arne Knaben and T.T. Røynestad.
  Holstad called at 23.45 and told us how to save the string. He said that the string could take 30 tons and that it is a point of weakness between the crown and the "sidestone-ring" that shal break at 25 tons.
- 12.7. Jacked up and broke the string at the top end of the crown. The core-pipe was a bit stretched, but this was repaired during the late evening with the help from a farmer down in Knaben. A new hydraulic rotation-engine to the drilling machine arrived yesterday and was mounted today.

- 13.7. Travelled from Knaben to Rauland. Made a reco.
  trip in the area south of Frøystul. Difficult to
  find sediment-samples. Had a talk with the samplers
  in the evening. Still very bad progression.
  60 samples taken. Arrived Oslo late in the evening.
  Røynestad had drilled through the damaged crown and
  1.5 m in solid rock.
- 14.7. Day off in Oslo.
- 15.7. Back to Knaben.
- 16.7. Mapped in the area D4 1-84. Thundery weather.
- 17.7. Mapped west of Smalvann. Still problems with the drilling machine. The two rotation engines were exchanged. Took 190 m of cores down to Knaben. Loaded diesel in Knaben to take up to drillsite tomorrow.
- 18.7. Drilled 6 m, to 205.5 m. Still problems with machine. Mapped NW of Dh 1-84. Holstad arrived in the afternoon.
- 19.7. Drilled to 219 m. Problems with the hydraulic system when the oil is hot. Holstad checked the rotation-speed and found that it was normal. He left 13.00. Mapped W-NW of DH 1-84. Filled sand on the Smalvann-road to smooth it out.
- 20.7. Mapped in the same area as yesterday and finished the repairing of the Smalvann road. Left Knaben in the evening. Oslo at 22.30.
- 21.7. Day off Oslo.
- 22.7. Iravelled to Tuddal Camping and payed 770 kr. for a camping-cottage for one week. Had a meeting with the samplers when they left Rauland.
- 23.7. Left Tuddal early in the morning. Arrived Knaben at 13.30. Walked up to the drillsite. Still problems with the hydraulic system on drilling machine. They can only drill 3 m before they must take up the core. Depth of hole 227.5 m. Drilled today 3 x 3 m.
- 24.7. Mapped the western part of Grunnevanssknuten. Depth of DH 1-84 238,5 m.
- 25.7. A journalist from the newspaper "Fædrelandsvennen" visited us. Depth of hole 244.5 m. Zones of altered aplitt w. grains of MoSz. Mapped W of DH1-84. Ordered a hydraulic valve from E. Kiil A/S.
- 26.7. No drilling. The drillers waited for the valve. It arrived at Storekvina 17.30.

  Mapped in the Sandtjern area.
- 27.7. Fetched a new corepipe and valve at Storekvina railway station. Exchanged valves. Left Knaben 17.30. Oslo 23.00.
- 28.7. Day off Oslo.

- 29.7. Met the samplers from Telemark in Sandvika at noon. Draw samplemap for the Telemark project.
- 30.7. Delivered equipment to Folldal Verk and samples and maps to Fina. Arrived at Knaben 16.15. DH 1-84 drilled to 273 m.
- 31.7. Traces of MOS2 from about 273 m. Drilled 24 m. Mapped in the Sandtjern area.
- 1.8. Drilled 12 m, lost 6 m of core one time. Mapped on Grunnvannsknuten. Depth of DH 1-84 307.20. Still traces of Mos<sub>2</sub>.
- 2.8. Drilled 6 m. Studied handbook for the drilling-machine. Tried to adjust hydraulic valves. Limyr called and said that John Pedersen, Heim and himself will come on monday.
- 3.8. Drilled 17 m. Depth of hole 309.5 m. Still traces of Mos2 Mapped on Grunnvannsknuten.
- 4.8. Officework. Made a trip south of Knaben II and in Beritshei to look at the mineralisations.
- 5.8. Officework.
- 6.8. Drilled to 360 m depth. John Pedersen and Limyr arrived at 2 p.m. Svinndal arrived at 3 p.m. Decided to finish off DH 1-84. Drove down to Røynestad to look at cores from DH 7-83.
- 7.8. Drove up to drillsite with T.T. Røynestad and K. Røyseland. Drove back to Knaben to wait for Heim. Waited until 10 a.m. He did not show up. Svinndal, Limyr, J. Pedersen and I drove back to drillsite and decided to place DH 2-84 west of the southern end of Smalvann to get a better control on the structure of mineralized planes.

  J. Pedersen and Limyr left Knaben at 2 p.m. Svinndal at 2,45 p.m.
  I returned to drillsite, and the removal was started. Sledge with drilling machine placed at the new drillsite at the end of the day.
- 8.8. All equipment removed to new drillsite.
- 9.9. Mounting of equipment finished at 4 p.m. Drilled 8 m.
- 10.8. Drilled 30 m. Some problems with fractured rock. I assisted Røynestad while Røyseland cleaned the old drillsite.
  Limyr called and said that Evert Person from Hagby Bruk will come on monday. I will pick him up at Kjevik Airport, Kristiansand at 11 a.m.
- 11.8. Logged cores. Office work.

- 12.8. Day off. Inflamation in the right foot.
- 13.8. E. Person did not reach the planned plane from Oslo, so he arrived at Kjevik at 2.30 p.m. Arrived at drillsite at 5.30 p.m. Person controlled the hydraulic pressure. It seemed to work normal.
- 14.8. Drilled 42 m. Depth of DH 2-84 105 m. Everything worked normal. I mapped south of DH 2-84.
- 15.8. Person left with the bus at 6.45 a.m. Mapped in the area between Knaben I og DH 2-84. Drilled 30 m. Depth of hole 135 m. Problems at the end of the day. The crown got stuck, probably because of a fault in the hydraulic valves.
- 16.8. The machine "eat" another crown. Drilled 36 m. Mapped W of DH 1 and 2-84. New rigg will be ordered.
- 17.8. Drilled 40 m. Depth of hole 180 m. Fire in the fuse box. Still another crown was "eaten". Mapped W of Sandtjern. My parents arrived.
- 18.8. Sightseeing.
- 19.8. Reco. in Benkeheia.
- 20.8. Removed the drilling machinery about 75 m south to follow the continuation of mineralzone in DH 2-84 and DH 1-84. Drilled 2,30 m.
- 21.8. Drilled 35 m. About 6 m of Mos2 mineralizations from depth 26 m. Mapped in the area between Knaben I and the Kvina road.
- 22.8. Drilled to 61 m. Still bleached granite w. traces of Mos2. Mapped towards the Knaben I road. The driver, Scott-Karlsen, arrived yesterday evening at 9,30 p.m. with the new Diamec 250 Drilling machine. Unloaded the lorry this morning. Sawed 5 samples from DH 2-84. Lars Knaben who was laboratory assistent in the Knaben II mine, watched the mineralizations and considered them interesting.
- 23.8. Transported the new rigg up to Smalvann. Winched the aggregate and the machine over to the east side of the Stutedalen valley.
- 24.8. Winched over more equipment, raised the tower of the Diamec at drillsite. Left Knaben at 5 p.m.
- 25.8. Day off Oslo.
- 26.8. Office work Oslo.
- 27.8. Office work Oslo.
  - Private doings. Left Oslo at noon. Arrived Knaben at 6,45 p.m.
- 28.8. Drilled to 110 m DH 2-84. Mapped south of DH 2-84. John P. arrived at 9.p.m. Limyr arrived at 11 p.m.

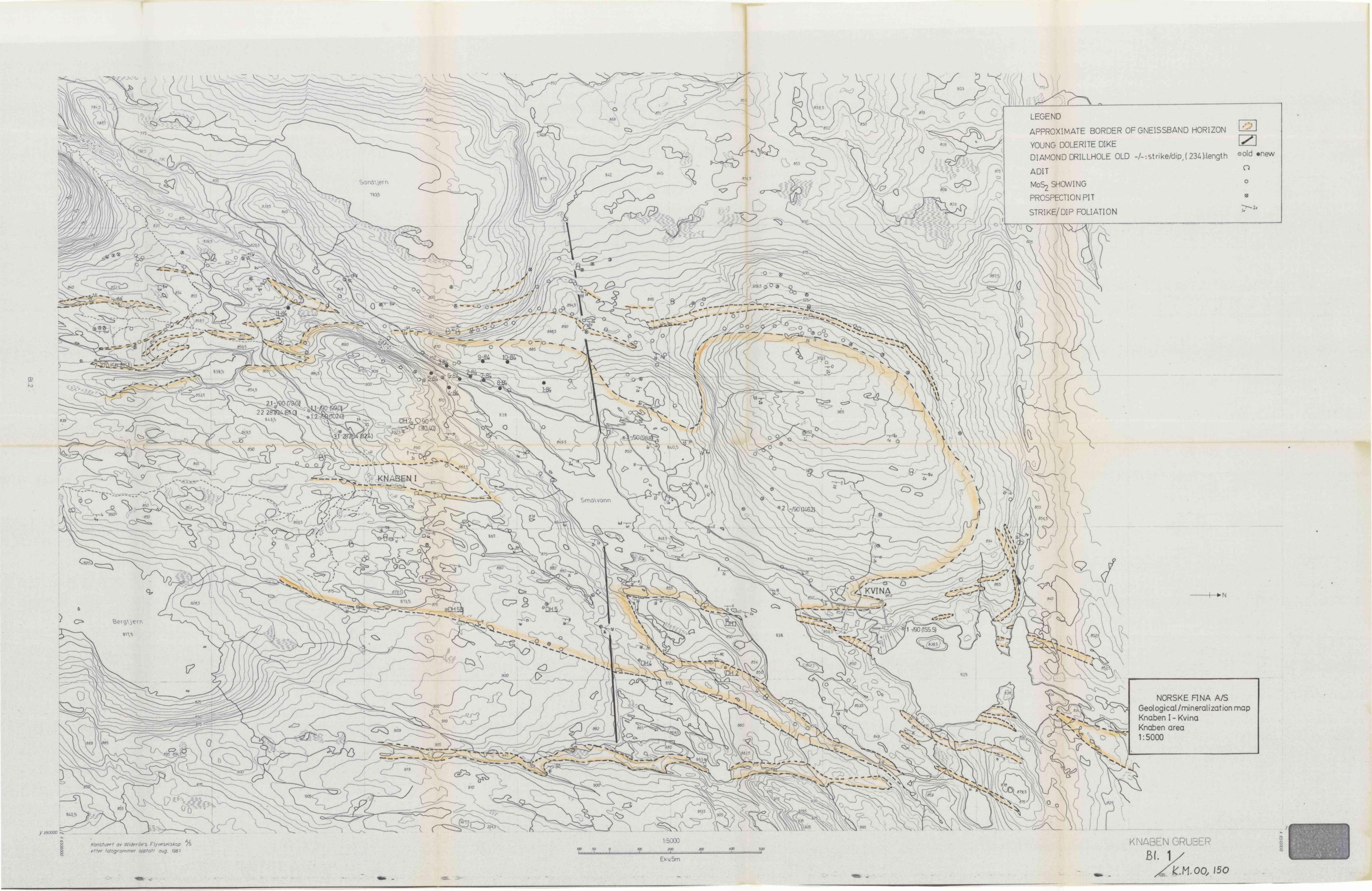
- 29.8. Left Knaben at noon. Arrived Vikeså about 2 hours later. Examined carbonate-rich metasediments because of geochemical anomalies of Zn. Could not find any Zn-minerals in day-light. Used a UV-lamp during the late evening to look for fluorizing Zn-minerals-Negative.
- 30.8. Collected some soil samples in the same area. Collected stream sediment samples to try to locate a sourze for sediment W-anomaly.
- 31.8. Collected stream-sediments from a carbonate-rich horizon W of Oltedal. Looked at some prospects in Oltesvik, Dirdal and Gilja. Looked at some fluonte mineralizations in the Kvinlog area. Back in Knaben at 8 p.m. Limyr returned to Risør immediately.
- 1.9. John P. left at 10 p.m. Office work.
- 2.9. Sawed samples from DH 1-84. 275-354 m. Sawed each third meters.
- 3.9. Rain. Returned from fieldwork at 2 p.m. Office work. Drilled to 52 m. Crushed rocks.
- 4.9. Drilled to 75 m. No mineralizations. Mapped in the Lilleknaben area.
- 5.9. Drilled to 104,5 m. No mineralizations. Mapped in the area between Lilleknaben and Knaben I.
- 6.9. Drilled to 138 m. Found gneiss, possibly the same as the one above minearalization in DH 7-83, at 118m. Mapped in the same area as yesterday.
- 7.9. Dug a road from DH 7-83 down to DH 4-84. Hired a man (A. Nordaas) and his excavator to help Røynestad with this job. I assisted K. Røyseland on rig. Drilled to 148 m. Left Knaben at 4,30 p.m.
- 8.9. Day off Oslo.
- 9.9. Day off Oslo, sick.
- 10.9. Met Limyr at his office. Took the night-train to Storekvina. Holstad (Backe Maskin A/S) arrived Knaben in the afternoon.
- 11.9. Rain and sleet. Holstad adjusted the Diamec, and exchanged a rubber-packing on the rotation unit. Drilled to 182 m.
- 12.9. Drilled to 192,70. Removed hydraulic aggregate and Diamec to DH 5-84.
- 13.9. Removal finished. The Ford County tractor was used for transport and returned to the Kvina road on the other side of the Stutedal valley via Knaben I. Drilled to 5.40 m. Drilling stopped, because of damage in the dydraulic aggregate.

  Damage in the transmission on the shaft between engine and oil-pump. Holstad contacted.

- 14.9. Rain, fog and wind. Dismounted damaged part. Carried corecases from DH 4 to the Kvina road. The new part is sent from Craelius. The customs office at Kjevik (Kristiansand) is closed during weekend, so the package is sent via Oslo, where Limyr will send it to Kjevik.
- 15.9. The package arrived at Oslo at 4 p.m. Will arrive Kjevik on sunday with the 10 o'clock plane from Oslo.
- 16.9. Drove to Kjevik. Package arrived at 11,50 a.m. Borrowed some tools from Bjørgulf Homme Service station at Kvinlog.
- 17. Repaired hydraulic aggregate. Finished 10,15 a.m. Took out and turned rubber-packing in rotation unit. New rubber-packing is ordered. Drilled 30 m.
- 18.9. Drilled to 60 m. Mapped east of Lilleknaben.
- 19.9. Drilled 92,4 m. Weak mineralization 80-90 m. Very much like a zone in DH 4. Cleared drillsite hole 6-84. Rain and wind.
- 20.9. Removal. Winched the equipment from DH 5-84 down to the Kvina road. Terrible weather.
- 21.9. Still very bad weather. The rest of the equipment was winched over to the Kvina road. The right front wheel on the tractor punctured. The wheel was taken off and transported to Kvinlog to be repaired.

  I had a reco.-trip in the area DH 4-84 Lilleknaben-Ornehammen.
- 22.9. Office work.
- 23.9. Office work.
- 24.9. Removal finished. Drilled 1 m. Carried the last corecases down from DH 4-84. DH 6-84 tited 5 west.
- 25.9. Drilled down to 41 m. No mineralizations. Mapped in the Lilleknaben area.
- 26.9. Drilled to 78,70 m. Some mineralizations from 45-76 m. Cleaned drillsite DH 7-84. Rain.
- 27.9. Drilled to 84.20. Removal to DH 7-84. Drilled 6 m. Problems with the diesel aggregate.
- 28.9. Drilled 19 m. The jet in the diesel aggregate is damaged. A new one arrives at Storekvina at 7 p.m. MApped on Grunnvannsknuten. Left Knaben at 6 p.m. Oslo at midnight.
- 29.9. Oslo, office work.
- 30.9. Oslo, office work.
- 1.10. Hada meeting with Limyr in the morning. Left Oslo in the evening.
- 2.10. Knaben. Rain. Drilled to 62 m (DH 7-84) 36-43 m. Mineralization of the same sort as in DH 2-84. Diesel aggregate removed.

- 3.10. All equipment removed to DH 8-84. Drilled 11 m. Mapped on Grunnvannsknuten. Good weather.
- 4.10. Drilled to 47 m. Less than 2 m of mineralization (40-42m).
- 5.10. Drilled to 62 m. Removal to DH 9-84.
- 6.10. Rain. Reco., Mos2 mineralizations west of Sandtjern.
- 7.10. Office work.
- 8.10. Removal finished at 2,50 p.m. Drilled 29,40 m. No mine-ralizations.
- 9.10. Drilled 52,40 m. Mineralization 30-41,5 m. Removal to DH 10-84, 75 m north of DH 9-84. Rain.
- 10.10. Rain, wind and fog. Removal finished at 1 p.m.
  Drilled to 29,40 m. Mineralization found at 26 m.
  Finished report to Limyr.
- 11.10. Wind, snow and sleet. Drilled to 55,6 m. Decided removal to lower levels. DH 11-84.
- 12.10. Snow. Removal to DH 11-84. Drilling equipment transported by tractor to road fork Knaben I Kvina road.
- 13.10. Logged cores. Rain.
- 14.10. Mapped west of Lilleknaben. Sawed samples from DH 9-84.
- 15.10. Removal continues. Mapped in the Ornehommen area. Røynestad tried to put in a new turbo on the diesel aggregate, but it did not fit, so the old one is still in use.
- 16.10. Removal finished. Drilled 2,5 m.
- 17.10. Assisted Røyseland on Diamec, while Røynestad organized equipment that is not in use, in case of heavy snow-fall. Drilled 49,5 m. Very bad weather.
- 18.10. Drilled to 83 m. Fractured rocks. Sawed samples and organized core-cases. Rain, sleet, fog and wind.
- 19.10. Drilled to 107 m. Still very bad weather. Office work. Logged 60 m of core.
- 20.10. Office work. Packed samples.
- 21.10. Office work.
- 22.10. Drilling is finished at 123,7 m. Office work.
- 23.10. Removal. Diamec + water pump, hydraulic aggregate and various equipment transported down. Mapped in the Ornehammen area.
- 24.10. Reco. mineralizations on Grunnvannsknuten. hydr. aggregat and various equipment transported down.
- 25.10. Took some pictures in the Sandtjern and Lilleknaben area. Packed samples and private equipment and left Knaben in the evening.



| MAP1 | MAP2         | MAP3     | MAP4                  |
|------|--------------|----------|-----------------------|
|      | LILLE KNABEN |          | GRUNNEVANNS<br>KNUTEN |
|      |              | KNABEN I |                       |

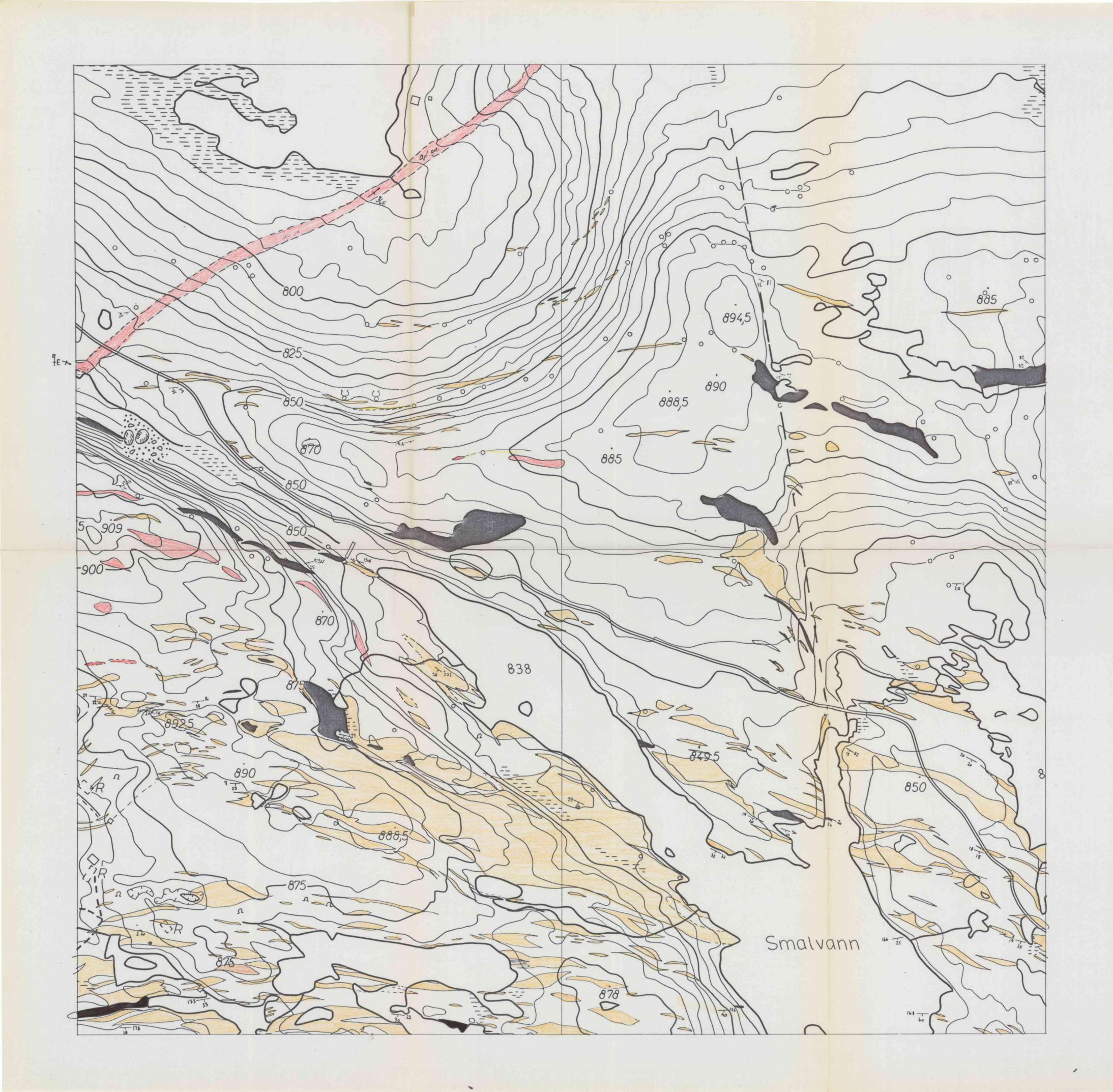
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