



Bergvesenet

Postboks 3021, 7002 Trondheim

Rapportarkivet

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Forfatter Røsholt, Bernt		Dato 28.04 1981	Bedrift Sydvaranger A/S	
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SUMMARY OF PROSPECTING ACTIVITY IN KARASJOK 1980 AND PLAN FOR THE 1981 SEASON.

Prospecting activity 1980.

The field season started May 31st and terminated September 24th. Altogether 15 persons were involved in the field work.

Geophysical helicopter measurements were carried out by NGU in the periods from 1-9/7 and 15-18/7. An area of 546 km² were covered, or 2730 profile km flown. See NGU-report No. 1784.

Ground geophysics were carried out in the periods 30/6 - 9/7 and 24/8 - 19/9. Most of these measurements were SP and magnetometer over target area No. 11. See Sydvaranger report No. 1147 by Røsholt.

Soil samples were taken in the period from 26/6 - 31/7. Together 1418 soil samples were taken. 741 regional samples in grid 250 x 500 m and 677 detailed samples in grid 50 x 250 m in target area No. 5 N and No. 11.

The soil samples were analyzed at Sydvaranger's laboratory in Kirkenes on Cu, Ni, Zn and Pb. Together 282 anomalous and reference samples are still in process to be analyzed on Ag, Mn, V, Cr, Co and Ti.

Regional geological mapping N of Karasjok was carried out by Helge Henriksen. Sydvaranger report No. 1122.

Upon Union Mineral's proposal aerial IR and color photos were taken over the area N of Karasjok by Fjellanger-Widerøe. The area flown was 1475 km² and it was done in a joint program between Sydvaranger and NGU and the costs were shared with 2/3 on Sydvaranger and 1/3 on NGU.

Satelite studies are carried out by Union Minerals (Prelat/Lyon) and report on this has very recently come to Stephen Olmore, Union Minerals, Norge.

Rater limited boulder tracing was carried out in 1980. On mapsheet 2034 I (378-406) a 2 m thick zone of chalcopyritebearing pyrrhotite in the footwall of a black schist was found (No. 1 on attached map). On mapsheet 2034 II (361-344) it is found several tons-large boulders of ultramafic rocks with droplets of pentlandite and chalcopyrite (No. 2 on attached map). One analyses of a sample from these boulders gave 0,41 % Cu and 0,49 % Ni as sulphide.

Target area No. 11 is an ultramafic body with several coinciding EM, SP and Mag.-anomalies. Medium to high Ni-soil anomalies also occurs. Sydvaranger report No. 1147 by Røsholt describes the area and it is proposed to be drilled with 500 or 700 m.

Target area Gurrogaissa.

This area is situated just N of the attached map on the northern boundary of the agreement area. Lead mineralizations of the Laisvall type is found in veins in the Precambrian rocks and as disseminations and vein fillings in the overlying Eocambrian sediments. The area is proposed to be drilled with 1000 m in three holes. See Sydvaranger report No. 1148 by Røsholt.

Target area Raitevarre.

This area is situated 40 km's SW of Karasjok (see attached map). In Raitevarre and surroundings as far as 10 km's to the SW a copper-gold bearing gneiss is found. The possibilities to find large tonnages of low grade ore seems to be rather positive. Native gold is found together with pyrrhotite and chalcopyrite in the ore. Recent ore dressing tests on drillcores from Raitevarre has given positive results with copper concentrates with more than 20 % Cu.

It is proposed to do more geological mapping in the area the coming season. See Sydvaranger report No. 1149 by Røsholt.

All geochemical results of Cu, Ni, Zn and Pb are now on maps in scale 1:50 000. The results of the geophysical measurements are also presented in 1:50 000 scale. Geophysical results from 1979 and 1980 are put together and reduced to half scale 1:100 000. The same is also done to the geochemical maps. This has given a rather good size on the maps, and they are now very handy to work with for comparing different anomalies.

Plan for prospecting activity 1981.

The 1981 season will start up early in June with two geologists and two assistants. In late June when the soil is not frozen any more the main work will start up. Two geophysical and two geochemical crews will be organized.

Primarily the two geophysical crews will follow up geophysical helicopter anomalies and soil sample anomalies. The anomaly-peaks will be marked by plastic bands or wood sticks. SP, VLF, magnetic and if necessary IP surveys will be carried out.

When the geophysicists have completed their measurements in one area, the geochemical crews will come in and do deep sediment sampling with Finnish equipment over the anomaly peaks. With this plan we hope to reduce the numerous anomalies in the area and that the remaining positive anomalies can be followed up as targets with more geophysical measurements and/or diamond drilling. All field transport in the main working period will be by helicopter. The main working period will terminate in late July, and the 1981 season will terminate late September or early October.

Geologists will follow the geophysical and geochemical crews, so the main geological activity will also this season be in the area N of Karasjok. Some geological mapping will also be done in the Raitevarre area. Total staff will be 15-20 persons.

Stabekk, April 28th, 1981.

Bernt Røsholt
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